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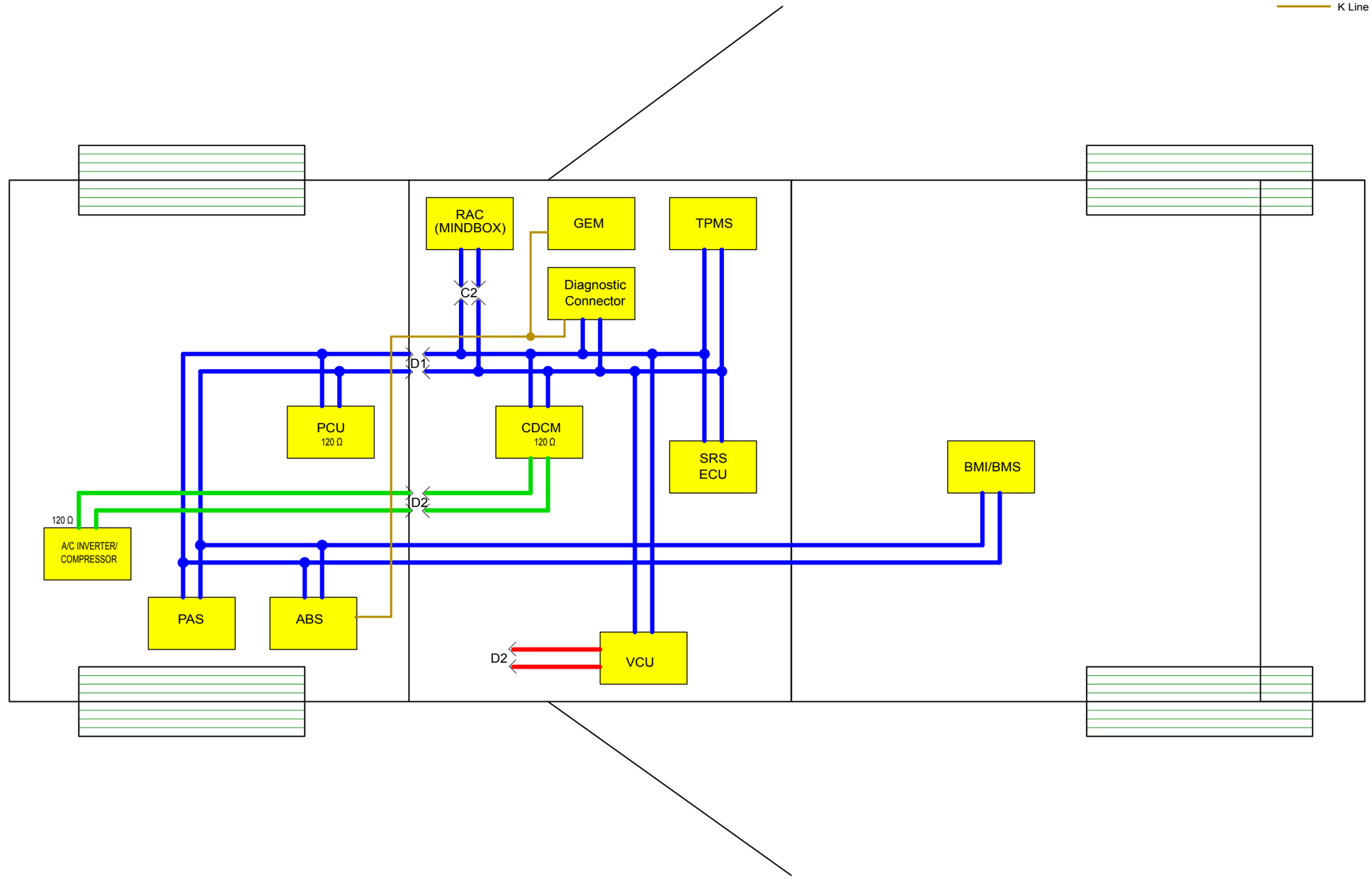
OVERVIEW



ABRIVATION:

ABS	Anti Brake System
BMI	Battery Module Interface
BMS	Battery Module System
CDCM	Climate and Demist Control Module
GEM	Generic Electronic Modul
PAS	Power Angle Steering
PCU	Power Control Unit
RAC	Remote Access Control
SRS	Safety Restraint System
TPMS	Tire Pressure Monitoring System
VCU	Vehicle Control Unit

BLOCK DIAGRAM	Document type	THINK	
Monica Svensson	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A3 Sheet Size	Created 09/06/2010 Change Date	Page 1 of 4
A306 CAN SYSTEM TOPOLOGY	Description	Drawing no	Status

Plotted: 16.05.2011 13:35 msv

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PCU
H PIN 13/24
L PIN 19/24
120 OHM INTERNAL TERMINATION

F436H RED
F436L BLUE

SF-7
SF-3

ABS
H PIN 23
L PIN 21

F425H
F425L

Diagnostic Connector
H PIN 6
L PIN 14

D806H
D806L

F570H
F570L

SF-18
SF-22

PAS
H PIN 1
L PIN 2

F440H
F440L

F441H
F441L

SF-2
SF-1

BMI (Zebra)
BMS (Li-Ion)
H PIN 8
L PIN 5

F434H
F434L

F792H
F792L

Harness RAC

RAC UNIT
REV. B
H PIN 12
X2
L PIN 11
(MINDBOX)

RAC855H RED C2-4
RAC855L BLUE C2-3

D855H
D855L
SD-37
SD-33
D867H
D867L
SD-26
SD-34
D434H
D434L
D1-5
D1-6

Dx440H
Dx440L

D654H
D654L

SD-64
SD-63

VCU
H PIN 3
L PIN 16

D903H
D903L

TPMS
H PIN 15
L PIN 31

D902H
D902L

Valeo Ventilation Box

CDCM
120 OHM INTERNAL TERMINATION
H PIN 19
CTV8
L PIN 18

AIRBAG ECU
H PIN A-19
A
L PIN A-20

D438H
D438L
SD-19
SD-15
D797H
D797L
X17-4
X17-3

WIRES 0,5MM2 TWISTED PAIR MIN 40 TURN/M

BLOCK DIAGRAM	Document type		
Monica Svensson	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A3 Sheet Size	Created 20100609 Change Date	Page 2 of 4
A306 VEHICLE CAN	Description	Drawing no	Status

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CELL PHONE

RAC UNIT (MINDBOX)
GSM
WAKE-UP
VEH CAN H
VEH CAN L

Valeo Ventilation Box

CDCM
FORCED BLOWER
EVAP TEMP
120 OHM INTERNAL TERMINATION
WAKE-UP
CONDENSATOR FAN RLY
INVERTER CAN H
INVERTER CAN L
VEH CAN H
VEH CAN L

CABIN BLOWER SPEED 2 RELAY
87
30
87a
86
85

GND TYPE 4

INVERTER CAN

A/C Compressor w Inverter
3/4
2/4
CAN L
CAN H
12V SUPP
HV(DC(+)
HV(DC(-)
GND
INVERTER
M

2 R2 1
120 Ω

TRW SWITCH
HOT ALWAYS
1/1
1
2
1/1

VCU
WAKE-UP
WAKE-UP
VEH CAN H
VEH CAN L

PCU
HV A/C
HV HEATER
TRW SWITCH
120 OHM INTERNAL TERMINATION
WAKE-UP
HV DC
VEH CAN H
VEH CAN L

BMS (Li-Ion)
HV DC
WAKE-UP

VEHICLE CAN

WIRES 0,5MM2 TWISTED PAIR MIN 40 TURN/M

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Monica Svensson	Prepared by		
	Approved by		
	File name	Date 20100815	Page 3 of 4
	Description	Drawing No	Status
VEHICLE CAN / INVERTER CAN			DRAFT

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FUSE BOX

DISTR. BOX

BATTERY 12V

PCU

CTRL BOARD

PILOT

PLUG_DETECT

20 A

AC LINE

20 A

AC LINE

GND

CHARGER

20 A

EPO_IN_L

TIM

Read Switch

EPO_OUT_L

10 A

DC/DC

HVDC BUS - (V)

HVDC BUS - (U)

HVA 280

HV DC +

20 A

Air Cond

HV DC -

HVA 280

HV DC +

20 A

Heater

HV DC -

AC CHARGE INLET

7.5 A

1

INERTIA SWITCH

(CLOSED WHEN NOT ENGAGED)

3

TRACTION MOTOR

INTLOCK_EPO_IN_L

INTLOCK_EPO_RTN_L

INTERLOCK 3PH CONN

INTERLOCK 3PH CONN

Interlock in HVA 280

Interlock in HVA 280

MAGNET in the ACCESS COVER

BMI

125 A

BMS

BMI (ZEBRA)
BMS (Li-Ion)

PRE - CHARGE

Ω

COIL

HVDC BUS - (V)

HVDC BUS - (U)

BMI

BMS 150 A

COIL

EPO_OUT_L

COIL

400V

CTRL

BMI

BMS 150 A

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A306 MY2011 Pre-series	File name		
Approved by	A3 Sheet Size	Created 09/06/2010 Change Date	Page 4 of 4
	Description	Drawing no	Status
HV AND EMERGENCY POWER OFF			DRAFT

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msv

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A44 FUSE BOX

=PCU LV/6.A11A11 — HOT ALWAYS A13_+:1 — 3040_25.00 mm² RD — A44:2

A33 AUX BATTERY POSITIVE — A44:3

A44:6 — Fs102 (125A) — A44:8 — Fs101 (40A) — 2_10.00 mm² RD — HOT ALWAYS A17:A:2 — =POWER STEERING/15.B1B1

OPTION Kit HFS — =HEATED FRONT SCREEN/11.B8B8 — HOT ALWAYS RB9:3 — HFSF814.B_10.00 mm² RD — 1S/2 — Fs103 (60A) — 1P/2 — HFSF869_10.00 mm² RD — F1_25.00 mm² RD

A14 DISTRIBUTION BOX

A14.A — A14 A

A14.B 4/21	D84A_2.50 mm² RD	SD-21	D85_4.00 mm² RD — FB1 1S/116 — Fs1 (30A) — FB1 1P/116
A14.B 5/21	D84B_2.50 mm² RD		D84_4.00 mm² RD
A14.B 6/21	D84C_2.50 mm² RD		D812_2.50 mm² RD
A14.B 1/21	D136A_2.50 mm² RD	SD-22	D136_4.00 mm² RD
A14.B 2/21	D136B_2.50 mm² RD		
A14.B 3/21	D136C_2.50 mm² RD		
A14.B 17/21	D108_2.50 mm² RD	SD-24	
A14.B 18/21	D118_2.50 mm² RD		
A14.B 9/21	D235_2.50 mm² RD	SD-18	
A14.B 10/21	D603_2.50 mm² RD		
A14.B 7/21	D511A_2.50 mm² RD		
A14.B 8/21	D511B_2.50 mm² RD		
A14.B 13/21	D2A_2.50 mm² RD		
A14.B 11/21	D2B_2.50 mm² RD		
A14.B 12/21	D2C_2.50 mm² RD		
A14.B 19/21	D107_2.50 mm² RD	SD-65	

A14.B 20/21 — D110A_2.50 mm² RD — A14.B 21/21 — D110B_2.50 mm² RD — A14.B 14/21 — D105A_2.50 mm² RD — A14.B 15/21 — D105B_2.50 mm² RD — A14.B 16/21 — D105C_2.50 mm² RD — SD-45

Q20 KEY SWITCH

PIN No	SIGNAL NAME
1	KEY RUN
2	KEY OFF
3	KEY INTERLOCK SYSTEM
4	COMMON +VE
5	KEY IN WARNING
6	KEY ACC
7	KEY START

Q20. 4/7 — 30 — INHIBIT — KEY IN — 0 1 2 3 — 1 2

57 Q20. 2/7 — 75 Q20. 6/7 — 15 Q20. 1/7 — 50 Q20. 3/7 — 315 Q20. 4/7 — 305 Q20. 5/7

D272_0.50 mm² RD/GY — D96_0.75 mm² RD/YE — D98_1.00 mm² RD/WH — D705_0.50 mm² RD/BU — D905_0.50 mm² RD/YE — D41_0.50 mm² VT

KEY IN WARNING GEM.IPL:8 — =DOORS/17.B4B4

SD-4 — D42_0.50 mm² RD/GY — KEY INTERLOCK SYSTEM GEM.IPL:15 — =TURN, REV & HAZARD LAMPS / HORN/14.G4G4

D43_0.50 mm² RD/GY — KEY INTERLOCK SYSTEM A7:7 — =PCU LV/6.H16H16

D44_0.50 mm² RD/GY — KEY INTERLOCK SYSTEM D1:7 — =PCU LV/6.H14H14

RLY6 RUN/START BYPASS RELAY

D974_0.50 mm² BK — RB3 110 — 85 — 30 — RB3 210

RB3 510 — 86 — 87a — 87 — RB3 310

D975_0.50 mm² RD/GN — D138_4.00 mm² RD — D137_4.00 mm² RD

G1 POWER SOCKET

G1.2 1/1 — 3 — G1.1 2/2 — 2 — G1.1 1/2 — 1

D208_2.50 mm² BK — D209_0.50 mm² GY — D163_2.50 mm² RD

D158_4.00 mm² RD — D141_2.50 mm² RD

D107_2.50 mm² RD

(FS7 SHOULD BE 25A WITH A/C)

FB1 Fs7 7B1/16 (25A) — D742_4.00 mm² RD — =HEATER/9.A12A12 — HOT ALWAYS SD-B1

FB1 Fs10 10B1/16 (20A) — D975_2.50 mm² RD — =AIR-CONDITION/10.A3A3 — HOT ALWAYS RB4:9

SD-5 — SD-38 — SD-25 — SD-54

SD-70 — D408_0.75 mm² RD — =ABS w ESP/3.D9D9 — HOT RUN — ESP_CAN_H

D409_0.75 mm² RD — =ABS w ESP/3.A3A3 — HOT RUN — ESP_CAN_H

D914_0.50 mm² VT — =ABS w ESP/3.F9F9 — HOT RUN — ESP_CAN_H

D988_0.50 mm² RD — =HEATER/9.A14A14 — HOT RUN

D900_0.50 mm² RD — =CLUSTER / VCU / INDICATOR BAR/5.A2A2 — HOT RUN

D154_0.50 mm² RD — =CLUSTER / VCU / INDICATOR BAR/5.A9A9 — HOT RUN

D915_0.50 mm² RD — =MIND BOX (RAC) and TPMS/20.C6C6 — HOT RUN

D916_0.75 mm² RD — =HEATER/9.A10A10 — HOT RUN

D409_0.75 mm² RD — =ABS w ESP/3.H8H6 — HOT RUN

D909_0.75 mm² RD — =PCU LV/6.F2F2 — HOT START

D913_2.50 mm² RD — =HEATED FRONT SCREEN/11.B4B4 — HOT ALWAYS

D408_0.75 mm² RD — =ABS w ESP/3.B1F9 — HOT RUN

D930_0.50 mm² RD — =PCU LV/6.F2F2 — HOT START

D909_0.75 mm² RD — =PCU LV/6.F2F2 — HOT START

D983_2.50 mm² RD — =HEATED FRONT SCREEN/11.B4B4 — HOT ALWAYS

D45_0.50 mm² RD — =GROUNDING STRATEGY/22.B1/2B12

D45_0.50 mm² RD — =GROUNDING STRATEGY/22.B1/2B12

D708_0.50 mm² RD/GN — D137_4.00 mm² RD

D709_1.50 mm² RD/YE — =HEAD, PARK AND LICENSE LAMP/2.A6A6 — HOT RUN

D175_1.50 mm² RD/YE — =WIPER AND WASH/16.C3C3 — HOT RUN

D174_1.50 mm² RD/YE — =WIPER AND WASH/16.C1C1 — HOT RUN

D188_0.75 mm² RD/YE — =TURN, REV & HAZARD LAMPS / HORN/14.E1E1 — HOT RUN

D914_1.00 mm² RD/YE — =ABS w ESP/3.C9C9 — HOT RUN

D176_1.50 mm² RD/YE — =WIPER AND WASH/16.C2C2 — HOT RUN

D588_2.50 mm² RD — =POWER WINDOWS/13.B2B2 — HOT RUN

D628_AWG 16 RD — =INTERIOR LIGHT / SUN ROOF/19.A5A5 — HOT RUN

D606_0.50 mm² RD/YE — =POWER STEERING/15.C9C9 — HOT RUN

D176_0.50 mm² RD/YE — =POWER STEERING/15.B6B6 — HOT RUN

D709_1.50 mm² RD — =HEAD, PARK AND LICENSE LAMP/2.B9B9 — HOT ALWAYS

D5_1.50 mm² RD — =TURN, REV & HAZARD LAMPS / HORN/14.D9D9 — HOT ALWAYS

D486_1.50 mm² RD — =BMI / BMS/8.D3D3 — HOT ALWAYS

D307_0.50 mm² RD — =MIND BOX (RAC) and TPMS/20.E4E4 — HOT ALWAYS

D971_0.75 mm² RD — =MIND BOX (RAC) and TPMS/20.E4E4 — HOT ALWAYS

D972_0.75 mm² RD — =DIAGNOSTICS/4.A9A9 — HOT ALWAYS

D864_0.75 mm² YE/BU — =HEATER/9.A3A3 — HOT ALWAYS

D774_0.50 mm² RD — =BMI / BMS/8.F9F9 — HOT ALWAYS

D96_0.50 mm² RD — =PCU LV/6.D2D2 — HOT ALWAYS

D152_1.00 mm² RD — =HEAD, PARK AND LICENSE LAMP/2.B7B7 — HOT ALWAYS

D886_1.00 mm² RD — =HEAD, PARK AND LICENSE LAMP/2.B8B8 — HOT ALWAYS

D5_1.50 mm² RD — =TURN, REV & HAZARD LAMPS / HORN/14.D9D9 — HOT ALWAYS

D486_1.50 mm² RD — =BMI / BMS/8.D3D3 — HOT ALWAYS

D307_0.50 mm² RD — =MIND BOX (RAC) and TPMS/20.E4E4 — HOT ALWAYS

D971_0.75 mm² RD — =MIND BOX (RAC) and TPMS/20.E4E4 — HOT ALWAYS

D972_0.75 mm² RD — =DIAGNOSTICS/4.A9A9 — HOT ALWAYS

D864_0.75 mm² YE/BU — =HEATER/9.A3A3 — HOT ALWAYS

D774_0.50 mm² RD — =BMI / BMS/8.F9F9 — HOT ALWAYS

D96_0.50 mm² RD — =PCU LV/6.D2D2 — HOT ALWAYS

D152_1.00 mm² RD — =HEAD, PARK AND LICENSE LAMP/2.B7B7 — HOT ALWAYS

D886_1.00 mm² RD — =HEAD, PARK AND LICENSE LAMP/2.B8B8 — HOT ALWAYS

D5_1.50 mm² RD — =TURN, REV & HAZARD LAMPS / HORN/14.D9D9 — HOT ALWAYS

D486_1.50 mm² RD — =BMI / BMS/8.D3D3 — HOT ALWAYS

D307_0.50 mm² RD — =MIND BOX (RAC) and TPMS/20.E4E4 — HOT ALWAYS

D971_0.75 mm² RD — =MIND BOX (RAC) and TPMS/20.E4E4 — HOT ALWAYS

D972_0.75 mm² RD — =DIAGNOSTICS/4.A9A9 — HOT ALWAYS

D864_0.75 mm² YE/BU — =HEATER/9.A3A3 — HOT ALWAYS

D774_0.50 mm² RD — =BMI / BMS/8.F9F9 — HOT ALWAYS

D96_0.50 mm² RD — =PCU LV/6.D2D2 — HOT ALWAYS

D185_0.75 mm² RD — =CLUSTER / VCU / INDICATOR BAR/5.A3A3 — HOT ALWAYS

D905_0.50 mm² RD — =MIND BOX (RAC) and TPMS/20.C4C4 — HOT ALWAYS

D185_0.75 mm² RD — =CLUSTER / VCU / INDICATOR BAR/5.A3A3 — HOT ALWAYS

D905_0.50 mm² RD — =MIND BOX (RAC) and TPMS/20.C4C4 — HOT ALWAYS

D4_1.50 mm² RD — =TURN, REV & HAZARD LAMPS / HORN/14.A6A6 — HOT ALWAYS

D161_1.50 mm² RD — =RADIO/21.B8B8 — HOT ALWAYS

D560_1.50 mm² RD — =PCU LV/6.B2B2 — HOT ALWAYS

D702_1.50 mm² RD — =PCU LV/6.G14G14 — HOT ALWAYS

D103_0.75 mm² RD — =PCU LV/6.E2E2 — HOT ALWAYS

D129_0.75 mm² RD — =HEATER/9.A8A8 — HOT ALWAYS

D101_1.50 mm² RD — =PCU LV/6.B2B2 — HOT ALWAYS

D905_0.75 mm² RD — =BATTERY CHILLER/23.A4A4 — HOT ALWAYS

D917_0.75 mm² RD — =BATTERY CHILLER/23.A5A5 — HOT ALWAYS

D172_1.50 mm² RD — =TURN, REV & HAZARD LAMPS / HORN/14.A6A6 — HOT ALWAYS

D159_2.50 mm² RD — =HEATER/9.A13A13 — HOT ALWAYS

D189_1.50 mm² RD — =INTERIOR LIGHT / SUN ROOF/19.A2A2 — HOT ALWAYS

D515_1.50 mm² RD — D504_2.50 mm² RD — D112_1.50 mm² RD

D510_2.50 mm² RD — D511_4.00 mm² RD

D923_1.50 mm² RD — D931_2.50 mm² RD

D105_1.50 mm² RD — D503_2.50 mm² RD

D615_1.50 mm² RD — D908_2.50 mm² RD

D102_0.75 mm² RD — D128_0.75 mm² RD — D100_1.50 mm² RD

D668_2.50 mm² RD — D717_2.50 mm² RD — D905_1.50 mm² RD

D666_2.50 mm² RD — =HEAD, PARK AND LICENSE LAMP/2.B10B10 — HOT ALWAYS

D717_2.50 mm² RD — =HEAD, PARK AND LICENSE LAMP/2.B12B12 — HOT ALWAYS

D667_0.75 mm² RD — AUX_EQUIPMENT_12V_POWER 31 — HOT ALWAYS

FB1 Fs31 31B1/16 (5A) — D97_0.75 mm² RD/GN — =HEAD, PARK AND LICENSE LAMP/2.B8B8 — HOT RUN

FB1 Fs32 32B1/16 (10A) — D234_0.75 mm² RD/GN — =HEAD, PARK AND LICENSE LAMP/2.B8B8 — HOT RUN

FB1 Fs22 22B1/16 (10A) — D153_1.00 mm² RD/GN — =RESTRAINTS SYSTEM/12.C3C3 — HOT RUN

FB1 Fs33 33B1/16 (5A) — D681_0.50 mm² RD/GN — =BMI / BMS/8.E9E9 — HOT RUN

D957_0.50 mm² RD/GN — =POWER MIRRORS/18.A9A9 — HOT RUN

D209_0.75 mm² RD/GN — =HEAD, PARK AND LICENSE LAMP/2.B6B6 — HOT RUN

FB1 Fs35 35B1/16 (5A) — D150_1.00 mm² RD/GN — =CLUSTER / VCU / INDICATOR BAR/5.A4A4 — HOT RUN

D148_0.75 mm² RD/GN — =PCU LV/6.F2F2 — HOT RUN

D8_0.50 mm² RD/GN — C18

FB1 Fs37 37B1/16 (10A) — D910_0.50 mm² RD/GN — =ABS w ESP/3.D9D9 — HOT RUN

D152_0.75 mm² RD/GN — =ABS w ESP/3.A3A3 — HOT RUN

D914_0.50 mm² RD/GN — =ABS w ESP/3.F9F9 — HOT RUN

FB1 Fs39 39B1/16 (5A) — D915_0.75 mm² RD/GN — D154_0.50 mm² RD/GN — D915_0.50 mm² RD/GN — D916_0.75 mm² RD/GN

FB1 Fs12 12B1/16 (10A) — D408_0.75 mm² RD — =ABS w ESP/3.B1F9 — HOT RUN

FB1 Fs40 40B1/16 (5A) — D930_0.50 mm² RD — =PCU LV/6.F2F2 — HOT START

FB1 Fs45 45B1/16 (5A) — D913_2.50 mm² RD — =HEATED FRONT SCREEN/11.B4B4 — HOT ALWAYS

FB1 Fs25 25B1/16 (5A) — D709_1.50 mm² RD/YE — =HEAD, PARK AND LICENSE LAMP/2.A6A6 — HOT RUN

FB1 Fs8 8B1/16 (20A) — D175_1.50 mm² RD/YE — =WIPER AND WASH/16.C3C3 — HOT RUN

FB1 Fs44 44B1/16 (10A) — D174_1.50 mm² RD/YE — =WIPER AND WASH/16.C1C1 — HOT RUN

FB1 Fs11 11B1/16 (10A) — D188_0.75 mm² RD/YE — =TURN, REV & HAZARD LAMPS / HORN/14.E1E1 — HOT RUN

FB1 Fs43 43B1/16 (10A) — D914_1.00 mm² RD/YE — =ABS w ESP/3.C9C9 — HOT RUN

FB1 Fs9 9B1/16 (5A) — D176_1.50 mm² RD/YE — =WIPER AND WASH/16.C2C2 — HOT RUN

FB1 Fs36 36B1/16 (5A) — D588_2.50 mm² RD — =POWER WINDOWS/13.B2B2 — HOT RUN

FB1 Fs54 54B1/16 (5A) — D628_AWG 16 RD — =INTERIOR LIGHT / SUN ROOF/19.A5A5 — HOT RUN

D606_0.50 mm² RD/YE — =POWER STEERING/15.C9C9 — HOT RUN

D176_0.50 mm² RD/YE — =POWER STEERING/15.B6B6 — HOT RUN

FB1 Fs14 14B1/16 (10A) — D152_1.00 mm² RD — =HEAD, PARK AND LICENSE LAMP/2.B7B7 — HOT ALWAYS

FB1 Fs16 16B1/16 (10A) — D886_1.00 mm² RD — =HEAD, PARK AND LICENSE LAMP/2.B8B8 — HOT ALWAYS

FB1 Fs18 18B1/16 (10A) — D5_1.50 mm² RD — =TURN, REV & HAZARD LAMPS / HORN/14.D9D9 — HOT ALWAYS

D486_1.50 mm² RD — =BMI / BMS/8.D3D3 — HOT ALWAYS

FB1 Fs19 19B1/16 (5A) — D307_0.50 mm² RD — =MIND BOX (RAC) and TPMS/20.E4E4 — HOT ALWAYS

D971_0.75 mm² RD — =MIND BOX (RAC) and TPMS/20.E4E4 — HOT ALWAYS

D972_0.75 mm² RD — =DIAGNOSTICS/4.A9A9 — HOT ALWAYS

D864_0.75 mm² YE/BU — =HEATER/9.A3A3 — HOT ALWAYS

D774_0.50 mm² RD — =BMI / BMS/8.F9F9 — HOT ALWAYS

D96_0.50 mm² RD — =PCU LV/6.D2D2 — HOT ALWAYS

FB1 Fs21 21B1/16 (5A) — D185_0.75 mm² RD — =CLUSTER / VCU / INDICATOR BAR/5.A3A3 — HOT ALWAYS

D905_0.50 mm² RD — =MIND BOX (RAC) and TPMS/20.C4C4 — HOT ALWAYS

FB1 Fs42 42B1/16 (10A) — D172_1.50 mm² RD — =TURN, REV & HAZARD LAMPS / HORN/14.A6A6 — HOT ALWAYS

FB1 Fs4 4B1/16 (10A) — D159_2.50 mm² RD — =HEATER/9.A13A13 — HOT ALWAYS

FB1 Fs41 41B1/16 (10A) — D189_1.50 mm² RD — =INTERIOR LIGHT / SUN ROOF/19.A2A2 — HOT ALWAYS

FB1 Fs3 3B1/16 (5A) — D418_2.50 mm² RD — =ABS w ESP/3.A3A3 — HOT ALWAYS

FB1 Fs2 2B1/16 (40A) — D419_4.00 mm² RD — =ABS w ESP/3.A3A3 — HOT ALWAYS

FB1 Fs15 15B1/16 (5A) — D6_1.50 mm² RD — =TURN, REV & HAZARD LAMPS / HORN/14.D9D9 — HOT ALWAYS

FB1 Fs20 20B1/16 (5A) — D161_1.50 mm² RD — =RADIO/21.B8B8 — HOT ALWAYS

FB1 Fs23 23B1/16 (5A) — D560_1.50 mm² RD — =PCU LV/6.B2B2 — HOT ALWAYS

FB1 Fs46 46B1/16 (5A) — D702_1.50 mm² RD — =PCU LV/6.G14G14 — HOT ALWAYS

FB1 Fs13 13B1/16 (5A) — D103_0.75 mm² RD — =PCU LV/6.E2E2 — HOT ALWAYS

FB1 Fs27 27B1/16 (5A) — D129_0.75 mm² RD — =HEATER/9.A8A8 — HOT ALWAYS

FB1 Fs28 28B1/16 (5A) — D101_1.50 mm² RD — =PCU LV/6.B2B2 — HOT ALWAYS

FB1 Fs17 17B1/16 (5A) — D905_0.75 mm² RD — =BATTERY CHILLER/23.A4A4 — HOT ALWAYS

FB1 Fs53 53B1/16 (5A) — D917_0.75 mm² RD — =BATTERY CHILLER/23.A5A5 — HOT ALWAYS

FB1 Fs38 38B1/16 (5A) — D923_1.50 mm² RD — D931_2.50 mm² RD — D100_1.50 mm² RD — D905_1.50 mm² RD

CIRCUIT DIAGRAM	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	Sheet Size: A1	Created: 20100824 Change Date: 20100922	Page: 1 of 23
A306 A306 FUSING STRATEGY	Description	Drawing no: 541.0050.S	Status

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A191
LEFT HEAD LAMP LEVELLING

P9
LEFT FRONT HEADLAMP

A192
RIGHT HEAD LAMP LEVELLING

P2
RIGHT FRONT HEADLAMP

Q7
HEADLAMP SWITCH

Q2
MULTIFUNCTION STALK

HIGH/LOW BEAM

RLY20
LOW BEAM RELAY

RLY19
HIGH BEAM RELAY

RLY21
REAR FOG

SD-3
SD-8
SD-59
SD-60
SD-71
SF-25
SF-26
SC-5

P8
LH REAR
PARK STOP

P6
LH REAR SIDE MARKER

P12
LH LICENSE

P4
RH LICENSE

P5
RH REAR SIDE MARKER

P7
RH REAR
STOP PARK

Option US version

(CODING DIODE OPTION BI-HALOGEN)
(CODING DIODE OPTION DTRL FRONT)
(CODING DIODE OPTION DTRL REAR)

CIRCUIT DIAGRAM	Document type
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A306 MY2011 Pre-series	File name
Approved by	A1 Sheet Size
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A306	Description
A306 HEAD, PARK AND LICENSE LAMP	Drawing no 541.0050.S
Status	

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A10-2
ABS ECU w ESP

=FUSING STRATEGY/1.I14I14 (HOT ALWAYS FB1:2S)
=FUSING STRATEGY/1.I13I13 (HOT ALWAYS FB1:3S)
=FUSING STRATEGY/1.I44 (ESP_CAN_H FB1:37S)
=DIAGNOSTICS/4.E9E9 (K-LINE SD-56:1)

+30_PUMP	1/38	A10-2.X 1/38	F419 4.00 mm² RD	E2. 2/12	E2 2/12	D419 4.00 mm² RD
+30_VALVE	25/38	A10-2.X 25/38	F418 2.50 mm² RD	E2. 1/12	E2 1/12	D418 2.50 mm² RD
+15_RUN	32/38	A10-2.X 32/38	F152 0.75 mm² RD/YE	D1. 1/18	D1 1/18	D152 0.75 mm² RD/GN
DIAGNOSTIC_K	17/38	A10-2.X 17/38	F423 0.50 mm² BU/WH	D1. 2/18	D1 2/18	D423 0.50 mm² BU/WH

Q13
HANDBRAKE SWITCH
(OPEN WHEN NOT ENGAGED)

=CLUSTER / VCU / INDICATOR BAR/5.G3G3 (BRAKE SD-20:1) — D365 0.50 mm² WH — Q13.1 1/1 — 2 — 1 — Q13.2 1/1
Q13.2 → GND3 =GROUNDING STRATEGY/22.(Optional in:)(Optional in:)
Q13.2 → GND3 =GROUNDING STRATEGY/22.(Optional in:)(Optional in:)

Q8
BRAKE FLUID LEVEL SWITCH
(OPEN WHEN LEVEL IS OK)

=CLUSTER / VCU / INDICATOR BAR/5.G3G3 (BRAKE SD-20:1) — D363 0.50 mm² WH — B1 5/18 — B1. 5/18 — F363 0.50 mm² WH — Q8. 2/2 — 2 — 1 — Q8. 1/2 — F366 0.50 mm² BK — GND2 SF-15:1 =GROUNDING STRATEGY/22.B1B1

Q1
BRAKE PEDAL SWITCH
(OPEN WHEN PEDAL NOT PRESSED)

D193 1.00 mm² RD/YE — Q1.2 1/1 — 2 — 1 — Q1.1 1/1 — D614 1.00 mm² RD/YE — KEY RUN FB1:11S =FUSING STRATEGY/1.I7I7

BRAKE_PEDAL_SWITCH	30/38	A10-2.X 30/38	F199 0.50 mm² WH/RD	SF-19	F197 0.50 mm² WH/RD	B1. 12/18	B1 12/18	D197 0.50 mm² WH/RD
VEHICLE_CAN_H	26/38	A10-2.X 26/38	F425H 0.50 mm² WH					
VEHICLE_CAN_L	14/38	A10-2.X 14/38	F425L 0.50 mm² BU					
ESP_CAN_H	37/38	A10-2.X 37/38	F653H 0.50 mm² YE			D1. 18/18	D1 18/18	D912H 0.50 mm² YE
ESP_CAN_L	24/38	A10-2.X 24/38	F653L 0.50 mm² WH			D1. 17/18	D1 17/18	D912L 0.50 mm² WH

BRAKE PEDAL A13.J1:46 =PCU LV/6.H14H14
VEHICLE_CAN_H SF-7:1 =PCU LV/6.K13K13
VEHICLE_CAN_L SF-3:1 =PCU LV/6.K13K13

FB1 30S/116 — Fs30 5A — FB1 30P/116 — D194 1.00 mm² RD/YE — B2 11/12 — B2. 11/12 — C198 1.00 mm² RD/YE — SC-6
D195 0.50 mm² RD/WH — BRAKE PEDAL A7.:6 =PCU LV/6.H15H15

SC-6 → C246 0.75 mm² RD/YE → BRAKE LAMP P7.:3 =HEAD, PARK AND LICENSE LAMP/2.H10H10
SC-6 → C244 0.75 mm² RD/YE → BRAKE LAMP P8.:3 =HEAD, PARK AND LICENSE LAMP/2.H4H4

P1
HIGH MOUNTED STOP LIGHT (CHMSL)

C245 0.75 mm² RD/YE → X1. 2/4 — X1 2/4 — TG245 0.75 mm² GN — P1. 1/2 — 1 — 2 — P1. 2/2 — TG675 0.75 mm² BK — GND4 STG-1:1 =GROUNDING STRATEGY/22.G11G11

RR_WP	19/38	A10-2.X 19/38	F426 0.50 mm² BU/WH	D1. 11/18	D1 11/18	D426 0.50 mm² BU/WH
RR_WS	31/38	A10-2.X 31/38	F427 0.50 mm² BU	D1. 10/18	D1 10/18	D427 0.50 mm² BU
LR_WP	33/38	A10-2.X 33/38	F428 0.50 mm² GN/YE	D1. 9/18	D1 9/18	D428 0.50 mm² GN/YE
LR_WS	20/38	A10-2.X 20/38	F429 0.50 mm² BN	D1. 8/18	D1 8/18	D429 0.50 mm² BN
RF_WP	18/38	A10-2.X 18/38	F430 0.50 mm² GY/YE			
RF_WS	6/38	A10-2.X 6/38	F431 0.50 mm² GY			
LF_WP	34/38	A10-2.X 34/38	F433 0.50 mm² YE/VT			
LF_WS	22/38	A10-2.X 22/38	F432 0.50 mm² BN			

RR_WP	19/38	A2 3/12	A2. 3/12	C426 0.50 mm² BU/WH	S1. 1/2	1
RR_WS	31/38	A2 4/12	A2. 4/12	C427 0.50 mm² BU	S1. 2/2	2
LR_WP	33/38	A2 5/12	A2. 5/12	C428 0.50 mm² GN/YE	S3. 1/2	1
LR_WS	20/38	A2 6/12	A2. 6/12	C429 0.50 mm² BN	S3. 2/2	2
RF_WP	18/38				S4. 2/2	2
RF_WS	6/38				S4. 1/2	1
LF_WP	34/38				S2. 2/2	2
LF_WS	22/38				S2. 1/2	1

+ (WP) / - (WS) — RIGHT REAR SENSOR S1
+ (WP) / - (WS) — LEFT REAR SENSOR S3
+ (WP) / - (WS) — S4 RIGHT FRONT SENSOR
+ (WP) / - (WS) — S2 LEFT FRONT SENSOR

GND_P	13/38	A10-2.X 13/38	F421 4.00 mm² BK	
GND_V	38/38	A10-2.X 38/38	F652 2.50 mm² BK	
(SPARE)_EDB_WARNING_LAMP	2/38			
(SPARE)_ESP_WARNING_LAMP	4/38			
(SPARE)_PATA	5/38			
(SPARE)_ABS_WARNING_LAMP	29/38			
(SPARE)	3/38			
(SPARE)	7/38			
(SPARE)	8/38			

PE1&2A 2:1 GND2 =GROUNDING STRATEGY/22.B2B2
PE1&2A 3:1 GND2 =GROUNDING STRATEGY/22.B2B2

M5
BOOSTER PUMP

=GROUNDING STRATEGY/22.B3B3 (GND4 SF-4:1) — F409 0.75 mm² BK — M5. 1/2 — 1 — M — 2 — 2/2 — M5. — F408 0.75 mm² RD/YE — B1. 9/18 — B1 9/18 — D408 0.75 mm² RD — KEY RUN FB1:12S =FUSING STRATEGY/1.I5I5

SD-68 / SD-69

SD-68 → D913 0.50 mm² RD/GN → A182.X 4/8 — X 1/8 +15_V
SD-68 → D657H 0.50 mm² YE → A182.X 1/8 — X 4/8 ESP_CAN_H
SD-69 → D657L 0.50 mm² WH → A182.X 5/8 — X 8/8 ESP_CAN_L
A182.X 2/8 — X 3/8 GND

A182
Steering Angle Sensor

UNIT	CONECTOR	FUNCTION
1	4	12 V
2	3	-
3	2	GND
4	1	CAN HIGH
5	8	-
6	7	-
7	6	-
8	5	CAN LOW

ESP_CAN_H FB1:37S =FUSING STRATEGY/1.I4I4

SD-68 / SD-69 → =GROUNDING STRATEGY/22.(Optional in:)(Optional in:)
SD-69 → =GROUNDING STRATEGY/22.B9B9 (SD-40:1 GND3)

D914 0.50 mm² RD/GN → A183.X1 4/4 — X1 4/4 +15_V
D658H 0.50 mm² YE → A183.X1 3/4 — X1 3/4 ESP_CAN_H
D658L 0.50 mm² WH → A183.X1 2/4 — X1 2/4 ESP_CAN_L
D662 0.50 mm² BK → A183.X1 1/4 — X1 1/4 GND

A183
Yaw Rate Sensor

ESP_CAN_H FB1:37S =FUSING STRATEGY/1.I4I4

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A5
ON-BOARD DIAGNOSTIC CONNECTOR

X BATTERY PWR 16/16 — A5.X 16/16 — D872 0.75 mm² RD → HOT ALWAYS SD-54:1 =FUSING STRATEGY/1.J9J9

X VEHICLE_CAN_L 14/16 — A5.X 14/16 — D806H 0.75 mm² WH → SD-34
X VEHICLE_CAN_H 6/16 — A5.X 6/16 — D806L 0.75 mm² BU → SD-26

SD-34: D434L 0.50 mm² BU, D434H 0.50 mm² WH → D1 6/18 / D1. 6/18, D1 5/18 / D1. 5/18 → F434L 0.50 mm² BU, F434H 0.50 mm² WH → SF-1, SF-2 → F441L 0.50 mm² BU, F441H 0.50 mm² WH → SF-22, SF-18 → F440L 0.50 mm² BU, F440H 0.50 mm² WH, F570L 0.50 mm² BU, F570H 0.50 mm² WH, F792L 0.50 mm² BU, F792H 0.50 mm² WH

- F440L BU → VEHICLE_CAN_L A17.B:2 =POWER STEERING/15.C4C4
- F440H WH → VEHICLE_CAN_H A17.B:1 =POWER STEERING/15.C4C4
- F570L BU → VEHICLE_CAN_L SF-3:1 =PCU LV/6.K13K13
- F570H WH → VEHICLE_CAN_H SF-7:1 =PCU LV/6.K13K13
- F792L BU → VEHICLE_CAN_L A23.X2:5 =BMI / BMS/8.F3F3
- F792H WH → VEHICLE_CAN_H A23.X2:8 =BMI / BMS/8.E3E3

SD-33: D867L 0.50 mm² BU → D855L 0.50 mm² BU → D923L 0.50 mm² BU
SD-37: D867H 0.50 mm² WH → D855H 0.50 mm² WH → D923H 0.50 mm² WH

- D923L BU → VEHICLE_CAN_L C2:3 =MIND BOX (RAC) and TPMS/20.C4C4
- D923H WH → VEHICLE_CAN_H C2:4 =MIND BOX (RAC) and TPMS/20.C4C4
- D855L BU → VEHICLE_CAN_L A190::4 =MIND BOX (RAC) and TPMS/20.E6E6
- D855H WH → VEHICLE_CAN_H A190::3 =MIND BOX (RAC) and TPMS/20.E6E6

SD-63: D654L 0.50 mm² BU → D902L 0.50 mm² BU
SD-64: D654H 0.50 mm² WH → D902H 0.50 mm² WH → SD-15, SD-19 → D438L 0.50 mm² BU, D438H 0.50 mm² WH, D797L 0.50 mm² BU, D797H 0.50 mm² WH, D903L 0.50 mm² BU, D903H 0.50 mm² WH

- D438L BU → VEHICLE_CAN_L A16.A:20 =RESTRAINTS SYSTEM/12.C3C3
- D438H WH → VEHICLE_CAN_H A16.A:19 =RESTRAINTS SYSTEM/12.C3C3
- D797L BU → VEHICLE_CAN_L CTC4:11 =HEATER/9.A4A4
- D797H WH → VEHICLE_CAN_H CTC4:12 =HEATER/9.A4A4
- D903L BU → VEHICLE_CAN_L A180.A:16 =CLUSTER / VCU / INDICATOR BAR/5.E7E7
- D903H WH → VEHICLE_CAN_H A180.A:3 =CLUSTER / VCU / INDICATOR BAR/5.E7E7

X ISO 9141 K-LINE 7/16 — A5.X 7/16 — D541 0.75 mm² BU/WH → SD-56
SD-56: D423 0.50 mm² BU/WH → D423 0.50 mm² BU/WH → K-LINE D1:2 =ABS w ESP/3.A4A4
SD-56: D67 0.50 mm² BU/WH → D67 0.50 mm² BU/WH → K-LINE GEM.IPL:16 =CLUSTER / VCU / INDICATOR BAR/5.D7D7

X SIGNAL GND 5/16 — A5.X 5/16
- GND3 =GROUNDING STRATEGY/22.(Optional in:)(Optional in:)
- GND3 =GROUNDING STRATEGY/22.(Optional in:)(Optional in:)

X PWR GND 4/16 — A5.X 4/16 — D548 0.75 mm² BK → D548 0.75 mm² BK → GND2 SD-23:1 =GROUNDING STRATEGY/22.G7G7

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A306 MY2011 Pre-series	File name		
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A11
INSTRUMENT CLUSTER

A180
VCU

A35
INDICATOR BAR

A36
IMMOBILIZER
TRANCIEVER

GEM

A11.X
- KEY RUN 20/32 — D600 0.50 mm² RD/GN — KEY RUN SD-70:1 ⇐ =FUSING STRATEGY/1.J4J4⇐FUSING STRATEGY/1.I3I3 — KEY RUN FB1:35S — D150 0.50 mm² RD/GN → A180.A 12/26 IGNITION
- KEY ACC. 23/32
- =FUSING STRATEGY/1.J10J10 — HOT ALWAYS FB1:21S — D165 0.50 mm² RD
- BATTERY 31/32 — D166 0.50 mm² RD — SD-66 — D907 0.50 mm² RD → A180.A 13/26 VBAT
- POWER LIMIT WARNING LIGHT 6/32 — D360 0.50 mm² BU → A180.B 3/16 POWER LIMIT
- ABS WARNING LIGHT 13/32 — D368 0.50 mm² WH/GN → A180.B 4/16 ABS WARNING INDICATION
- ESP WARNING ACTIVE 16/32 — D369 0.50 mm² BU/GY → A180.B 9/16 ESP WARNING ACTIVE INDICATION
- SPEEDOMETER 30/32 — D379 0.50 mm² VT → A180.C 6/12 SPEEDOMETER
- MIL INDICATION 18/32 — D370 0.50 mm² GN/WH → A180.B 7/16 MIL INDICATION
- LOW SOC 9/32 — D361 0.50 mm² GN → A180.B 8/16 LOW SOC
- ELECTRIC HAZARD 19/32 — D371 0.50 mm² YE → A180.B 6/16 ELECTRIC Hz
- STATE_OF_CHARGE 25/32 — D374 0.50 mm² VT/YE → A180.C 11/12 STATE_OF_CHARGE
- ECONOMETER 28/32 — D377 0.50 mm² BU → A180.C 12/12 ECONOMETER
- SEAT BELT WARNING LIGHT 4/32 — D69 0.50 mm² GN → A180.B 11/16 BELT REMINDER LED
- AIRBAG WARNING LIGHT 17/32 — D350 0.50 mm² OG/GN → A180.C 5/12 AIRBAG WARNING LIGHT

Q32 TPMS RESET 1/1 — pin 1 → Q32.1; pin 2 → Q32.2 (1/1)
- D908 0.50 mm² BK — GND3 PE3C.2:1 ⇐ =GROUNDING STRATEGY/22.(Optional in:)(Optional in:)
- GND3 ⇐ =GROUNDING STRATEGY/22.(Optional in:)(Optional in:)
- D909 0.50 mm² GY
- =RESTRAINTS SYSTEM/12.E3E3 — DRIVER BELT BUCKLE SWITCH A31:.6 — D33 0.50 mm² YE → A180.A 5/26 DRIVER BELT BUCKLE SWITCH
- =RESTRAINTS SYSTEM/12.E8E8 — PASSENGER BELT BUCKLE SWITCH A29:.6 — D890 0.50 mm² YE → A180.A 4/26 PASSENGER BELT BUCKLE SWITCH
- =RESTRAINTS SYSTEM/12.E8E8 — PASSENGER SEAT SENSOR A29:.4 — D894 0.50 mm² YE/GN → A180.A 22/26 PASSENGER OCCUPATION SENSOR
- A180.A 1/26 TPMS RELEARN SW
- A180.A 2/26 REAR SEAT 2 BELT BUCKLE SWITCH
- A180.A 17/26 REAR SEAT 1 OCCUPATION SENSOR
- A180.A 19/26 REAR SEAT 2 OCCUPATION SENSOR
- A180.A 15/26 REAR BELT BUCKLE REMINDER LED 2
- =MIND BOX (RAC) and TPMS/20.F3F3 — CLIMATE WAKE UP C2:12 — D842 0.50 mm² YE — SD-67 — D910 0.50 mm² YE → A180.A 24/26 CLIMATE WAKE UP
- =HEATER/9.A4A4 — CLIMATE WAKE UP CTC4:14 — D911 0.50 mm² YE
- A180.B 5/16 OVERTEMPERATURE INDICATION
- =PCU LV/6.H14H14 — VCU WAKE UP A13.J1:2 — F464 0.50 mm² RD/YE — D1. 4/18 — D1 4/18 — D464 0.50 mm² RD/YE → A180.C 1/12 VCU WAKE UP
- =HEATER/9.A15A15 — DISCHARGE_REQ_H CTC4:21 — D853 0.50 mm² RD/YE → A180.B 10/16 DISCHARGE_REQUEST_H_IN
- =BMI / BMS/8.E3E3 — DISCHARGE_REQ_H D1:12 — D852 0.50 mm² RD/YE → A180.A 25/26 DISCHARGE_REQUEST_H_OUT
- A180.C 10/12 BRAKE WARNING INDICATOR OUT
- A180.A 26/26 CHARGE WAKE UP
- CLUSTER POWER 24/32 — D778 0.50 mm² YE — SD-11 — CHARGEWAKE_UP_H D814 0.50 mm² YE → D1:3 =PCU LV/6.G14G14
- BRAKE WARNING LIGHT 12/32 — D362 0.50 mm² WH — SD-20 — BRAKE D365 0.50 mm² WH → Q13.1:1 =ABS w ESP/3.A6A6
- BRAKE D363 0.50 mm² WH → B1:5 =ABS w ESP/3.B6B6
- DIRECTION RH 5/32 — D65 0.50 mm² BU/YE — RH TURN IND GEM.IPL:2 =TURN, REV & HAZARD LAMPS / HORN/14.G3G3
- DIRECTION LH 7/32 — D707 0.50 mm² GY/YE — LH TURN IND GEM.IPL:3 =TURN, REV & HAZARD LAMPS / HORN/14.G4G4
- HIGH_BEAM 10/32 — D204 0.50 mm² BU/GN — HIGH_BEAM Q35:6 =HEAD, PARK AND LICENSE LAMP/2.J11J11
- ILLUMINATION+ 11/32 — D294 0.50 mm² GY — ILLUMINATION SD-8:1 =HEAD, PARK AND LICENSE LAMP/2.J5J5
- ILLUMINATION- 8/32 — D380 0.50 mm² BK — GND3 SD-47:1 =GROUNDING STRATEGY/22.B11B11
- GROUND 32/32 — D381 0.75 mm² BK — GND4 SD-48:1 =GROUNDING STRATEGY/22.B8B8

A180.A
- IB SUPPLY 11/26 — D164 0.50 mm² GN ← A11.X 31/32
- IGNITION AND SPEED 9/26 — D378 0.50 mm² WH/YE → GEM.IPL 12/23 IGNITION AND SPEED SIGNAL
- CHIME DEMAND 21/26 — D800 0.50 mm² GN → GEM.IPL 18/23 TON REQ. SIGNAL
- CRASH LINE 8/26 — D45 0.50 mm² BU → GEM.IPL 9/23 CRASH SIGNAL
- =DIAGNOSTICS/4.E9E9 — K-LINE SD-56:1 — D67 0.50 mm² BU/WH → GEM.IPL 16/23 DIAGNOSTIC INTERFACE K-LINE
- RADIO MUTE 20/26 — D897 0.50 mm² WH — RADIO_MUTE SD-62:1 ⇒ =RADIO/21.B5B5
- ILLUMINATION (INPUT) 18/26 — D293 0.50 mm² GY — ILLUMINATION SD-8:1 ⇒ =HEAD, PARK AND LICENSE LAMP/2.J6J6
- VEHICLE CAN H 3/26 — D903H 0.50 mm² WH — VEHICLE_CAN_H SD-64:1 ⇒ =DIAGNOSTICS/4.D9D9
- VEHICLE CAN L 16/26 — D903L 0.50 mm² BU — VEHICLE_CAN_L SD-63:1 ⇒ =DIAGNOSTICS/4.D9D9
- SECOND CAN H 10/26 — D898H 0.50 mm² WH/GN → C2 18/18
- SECOND CAN L 23/26 — D898L 0.50 mm² GN → C2 17/18

A180.B
- ECONOMY 2/16 — D311 0.50 mm² BU ← A11.X 6/32
- DRIVE 1/16 — D310 0.50 mm² GN/WH ← A11.X 13/32
- NEUTRAL 16/16 — D309 0.50 mm² BU ← A11.X 16/32
- REVERSE 15/16 — D287 0.50 mm² WH ← A11.X 30/32
- PARK 14/16 — D307 0.50 mm² GY ← A11.X 18/32
- AUXILIARY BATTERY LOW 13/16 — D312 0.50 mm² BN ← A11.X 9/32
- DRIVE ENABLE 9/12 — D313 0.50 mm² GN/YE ← A11.X 19/32
- On Plug Indicator 3/12 — D315 0.50 mm² YE ← A11.X 25/32
- CHARING INDICATOR 2/12 — D316 0.50 mm² BU ← A11.X 28/32
- ILLUMINATION (OUTPUT) 4/12 — D901 0.50 mm² YE/WH ← A11.X 4/32
- TPMS INDICATOR 12/16 — D773 0.50 mm² BN ← A11.X 17/32
- IMMOBILIZER STATUS (LED INDICATOR) 8/12 — D318 0.50 mm² GY ← A11.X 32/32

A180.C
- TRANSCEIVER SUPPLY 7/12 — D322 0.35 mm² WH → A36.X 1/4
- D323 0.35 mm² WH → A36.X 2/4
- TRANSCEIVER Tx 6/26 — D324 0.35 mm² WH → A36.X 3/4
- TRANSCEIVER Rx 7/26 — D325 0.35 mm² WH → A36.X 4/4
- GND 14/26 — D321 0.50 mm² BK → GND4 SD-48:1 ⇒ =GROUNDING STRATEGY/22.B8B8
- GND4 SD-48:1 ⇒ =GROUNDING STRATEGY/22.B7B7

A35.X
- =FUSING STRATEGY/1.J5J5 — KEY RUN SD-70:1 — D154 0.50 mm² RD/GN — SD-55 — D623 0.50 mm² RD/GN → 8/20; D883 0.50 mm² RD/GN → 15/20
- 8/20 PASS. AIRBAG DISABLED (PAD)
- 15/20 KEY RUN (+12V)
- 14/20 POWER SUPPLY
- 1/20 ECONOMY
- 2/20 DRIVE
- 3/20 NEUTRAL
- 4/20 REVERSE
- 5/20 PARK
- 6/20 AUX BATT LOW
- 7/20 DRIVE LINE ENABLE
- 9/20 ON PLUG DETECT
- 10/20 CHARGING INDICATION
- 17/20 ILLUMINATION
- 13/20 TIRE PRESSURE LOW
- 12/20 IMMOBILIZER_STATUS
- =DOORS/17.B5B5 — Door Ajar Lamp GEM.IPR:19 — D70 0.50 mm² YE — 11/20 DOOR AJAR
- =RESTRAINTS SYSTEM/12.B9B9 — STATUS LAMP PAD A16.A:17 — D314 0.50 mm² GN — 18/20 PAD. SWITCH
- =GROUNDING STRATEGY/22.B9B9 — GND3 SD-40:1 — D320 0.50 mm² BK — 16/20 GND

CIRCUIT DIAGRAM	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	Sheet Size: A2	Created 20100901 Change Date 20100922	Page 5 of 23
A306	Description	Drawing no 541.0050.S	Status
CLUSTER / VCU / INDICATOR BAR			

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PCU MICROSWITCH EVALUATION TABLE FOR GEAR SELECTOR

POS.	A	B	C	D	E
P	0	0	1	1	0/1
R	1	0	1	0	1
N	0	0	0	0	1
D	1	1	0	0	1
E	0	1	1	0	1

MECH	A	B	C	D
P	PUSHED	PUSHED	PUSHED	PUSHED
R	RELEASED	PUSHED	PUSHED	RELEASED
N	PUSHED	PUSHED	RELEASED	RELEASED
D	RELEASED	RELEASED	RELEASED	RELEASED
E	PUSHED	RELEASED	PUSHED	RELEASED

ALL OTHER COMBINATIONS OF A,B,C AND D ARE INVALID STATES

1= GROUND (SWITCH CLOSED)
0= OPEN CIRCUIT OR +12V (SWITCH OPEN)

IN P, ALL ARMS ON MICROSWITCHES ARE CLOSED (IF ARM FALLS OFF, THEN IT IS NO START CONDITON).

NOTE:
THIS CONNECTOR IS NOT COMPATIBLE WITH GEN-1 SIADIS CONNECTOR.

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	msv

CIRCUIT DIAGRAM	Document type
MSV	Prepared by
A306 MY2011 Pre-series	File name
Approved by	A1 Sheet Size
Created 20100824	Change Date 20101019
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A306 PCU LV	Description
Drawing no 541.0050.S	Status CH

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TB200 35.00 mm² OG → #10454 A80.X3:1 =BMI / BMS/8.D9D9

TB201 35.00 mm² OG → #10454 A80.X3:2 =BMI / BMS/8.E9E9

A13.J1P 1/1 — A13.SHLD1 1/1

A13.J2P 1/1 — A13.SHLD2_2 1/1

A13
PCU GEN-4

J1P 1/1 — SHLD1 1/1 — SHLD
HVDC BUS - (V)

J2P 1/1 — SHLD2 1/1 — SHLD
HVDC BUS+ (U)

J10P.1 HVDC(+) 1/2 — A13.J10P.1 1/2 → HTR3 4.00 mm² OG → HVDC(+) E4.:1 =HEATER/9.D8D8

J10P.1 HVDC(-) 2/2 — A13.J10P.1 2/2 → HTR4 4.00 mm² OG → HVDC(-) E4.:2 =HEATER/9.D8D8

SHLD6 SHLD 1/1 — A13.SHLD6 1/1

J10P.2 INTERLOCK 1/2 — A13.J10P.2 1/2

J10P.2 INTERLOCK 2/2 — 2/2 METAL BARE

J9P.1 HVDC(+) 1/2 — A13.J9P.1 1/2 → AC1 3.00 mm² OG → HVDC(+) M14.2.:2 =AIR-CONDITION/10.A1A1

J9P.1 HVDC(-) 2/2 — A13.J9P.1 2/2 → AC2 3.00 mm² OG → HVDC(-) M14.2.:1 =AIR-CONDITION/10.F1F1

SHLD7 SHLD 1/1 — A13.SHLD7 1/1

J9P.2 INTERLOCK 1/2 — A13.J9P.2 1/2

J9P.2 INTERLOCK 2/2 — 2/2 METAL BARE

OPTION
Kit A/C

J3P 1/1 — A13.J3P 1/1 — SHLD3 1/1 — A13.SHLD3 1/1 → 3 35.00 mm² OG → A24.SHLD3 1/1 — A24.3PH 3/4 — 3/4 U

J4P 1/1 — A13.J4P 1/1 — SHLD4 1/1 — A13.SHLD4 1/1 → 2 35.00 mm² OG → A24.SHLD4 1/1 — A24.3PH 2/4 — 2/4 V

J5P 1/1 — A13.J5P 1/1 — SHLD5 1/1 — A13.SHLD5 1/1 → 1 35.00 mm² OG → A24.SHLD5 1/1 — A24.3PH 1/4 — 1/4 W

A24
TRACTION
MOTOR
3PH
M
3 ~

A24.2PH 1/2 — 2PH 1/2

A24.2PH 2/2 — 2PH 2/2 — 4 1.00 mm² WH

A40
AC CHARGE
INLET

R1 R2 P PE L1 N

X85.1.1 1/1

7 0.50 mm² GN
4 2.50 mm² GN/YE
2 2.50 mm² BU
1 2.50 mm² BK
3 2.50 mm² GN/YE
5 0.50 mm² WH
6 0.50 mm² RD

A13.J7P.1 10/16 — J7P 10/16 AC_LINE_N
A13.J7P.1 1/16 — J7P 1/16 AC_LINE_L1
A13.J7P.1 15/16 — J7P 15/16 AC_LINE_GND
A13.J7P.1 14/16 — J7P 14/16 AC_LINE_PILOT
A13.J7P.1 11/16 — J7P 11/16 ON_PLUG_DETECT

XXXX

A40B
AC CHARGE
INLET

PD CP PE L1 L2/N

X85.1.1 1/1

4 2.50 mm² GN/YE
2 2.50 mm² BU
1 2.50 mm² BK
3 2.50 mm² GN/YE
5 0.50 mm² WH
6 0.50 mm² RD

A13.J7P.1 10/16
A13.J7P.1 1/16
A13.J7P.1 15/16
A13.J7P.1 14/16
A13.J7P.1 11/16

=BMI / BMS/8.B8B8 AC_OUT_GND A4.X1:GND — 11 1.50 mm² GN/YE → A13.J7P.1 7/16 — J7P 7/16 AC_AUX_PE

=BMI / BMS/8.C8C8 AC_OUT_L1 A4.X1:4 — 9 1.50 mm² BK → A13.J7P.1 2/16 — J7P 2/16 AC_AUX_L1

=BMI / BMS/8.C8C8 AC_OUT_N A4.X1:2 — 10 1.50 mm² BU → A13.J7P.1 16/16 — J7P 16/16 AC_AUX_N

CIRCUIT DIAGRAM	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	Sheet Size: A3	Created 20100830 Change Date 20100927	Page 7 of 23
A306 PCU HV	Description	Drawing no 541.0050.S	Status

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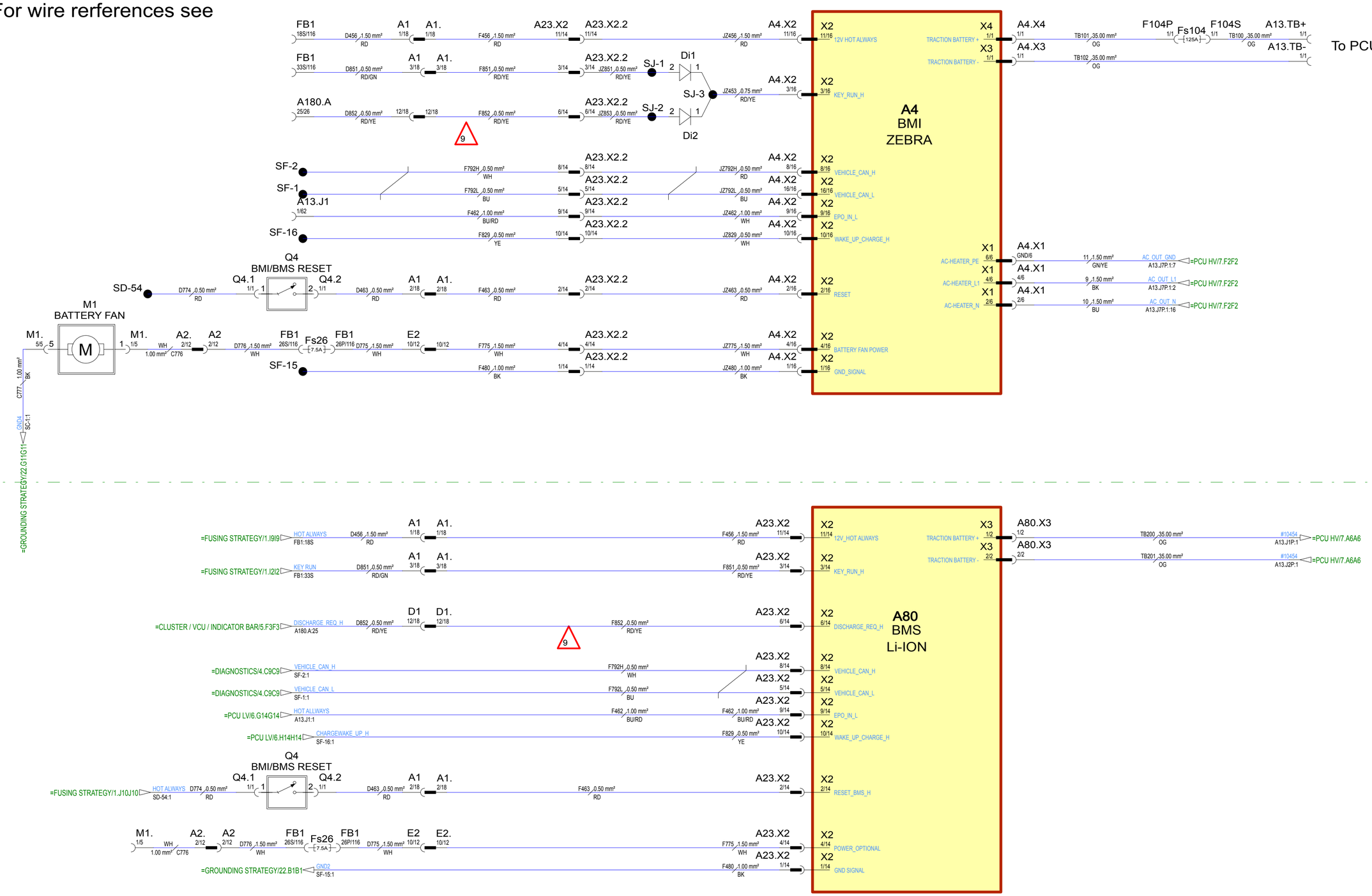

BATTERY MONITORING UNITS ARE SPECIFIC TO BATTERY TYPE

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A306 MY2011 Pre-series	File name		
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A306 BMI / BMS	Description	Drawing no 541.0050.S	Status

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RLY24
CABIN WATER PUMP
RELAY

RLY1
CABIN BLOWER SPEED 2
RELAY

RLY2
CABIN BLOWER
RELAY

HEATED
REAR WINDOW
RLY5

M7.
M7.
CABIN WATER
PUMP

E4
FLUID
HEATER

E3
HEATED REAR
WINDOW

A715
CTV5 BLOWER

A713
CTV CONTROL HEAD

A714
CTV4 BLOWER
MODULE

A193
PTC

A718
EVAP TEMP SENSOR

A717
CTV8A CDCM

CTC4

SHTR-1
SHTR-2
SHTR-3
SHTR-6

CIRCUIT DIAGRAM	Document type
MSV	Prepared by
A306 MY2011 Pre-series	File name
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A306 HEATER	Description
Drawing no 541.0050.S	Status

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OPTION
Kit A/C

HVDC(+) A13.J9P1:1 =PCU HV/7.C6C6
=HEATER/9.A14A14 CTC4:5 COMPRESSOR_12V_SUPPLY
=HEATER/9.A15A15 CTC4:8 CLIMATE_CAN_H
=HEATER/9.A15A15 CTC4:7 CLIMATE_CAN_L

AC1 3.00 mm² OG
AC837 0.50 mm² WH/RD
D837 0.75 mm² WH/RD
D2 6/18 — 6/18
D839H 0.50 mm² WH
D839L 0.50 mm² BU
D2 8/18 — 8/18
D2 7/18 — 7/18
AC839H 0.50 mm² WH
AC839L 0.50 mm² BU
SAC-2
R1 2 — 1
SAC-1
AC845H 0.50 mm² WH
AC845L 0.50 mm² BU

M14.2. 2/2 — 2
M14.1. 1/4 — 1
M14.1. 2/4 — 2
M14.1. 3/4 — 3
M14
A/C Compressor w Inverter
HVDC(+) | 12V SUPP | CAN H | CAN L
INVERTER
M
HVDC(-) | GND
1 — M14.2.
4 — M14.1.
1/2 — M14.2.
4/4 — M14.1.
AC2 3.00 mm² OG
AC838 0.50 mm² BK
9/18 — D2
D838 0.75 mm² BK
GND2 CTC4:6 =HEATER/9.A15A15

RB4 10/10 — 9/10 RB4
RLY7
CONDENSATOR
FAN
86 | 30 | 85 | 87
RB4 6/10 — 7/10 RB4
D576 0.50 mm² BK
D577 2.50 mm² RD/YE
E2 5/12
E2. 5/12
AC577 2.50 mm² YE/BK
2/2 — M13.
M13
CONDENSATOR FAN
12V SUPP | M | GND
1 — M13.
1/2 — M13.
AC844 2.50 mm² BK
GND4 SAC-3:1

=HEATER/9.A14A14 CTC4:15 CONDENSOR_FAN_CONTROL
=FUSING STRATEGY/1.I11I11 FB1:10S HOT ALWAYS
D843 0.50 mm² WH
D575 2.50 mm² RD
GND3 RB4:1 =HEATED FRONT SCREEN/11.F4F4

=HEATER/9.A3A3 CTC4:23 AC HIGH PRESS. SENSOR
=HEATER/9.A4A4 CTC4:24 SENSOR A/C PRESS SUPP
D537 0.50 mm² WH/VT
D841 0.50 mm² WH/YE
D2 11/18 — 11/18
D2 12/18 — 12/18
AC537 0.50 mm² WH/VT
AC841 0.50 mm² WH/OG
3/3 — S11.
2/3 — S11.
3 REF | 2 5V | GND
S11
A/C PRESSURE
SENSOR
1 — S11.
1/3 — S11.
AC840 0.50 mm² BK
10/18 — D2
GND3 =PCU HV/7.C6C6 (Optional in:)
GND3 =HEATER/9.A15A15 (Optional in:)

CIRCUIT DIAGRAM	Document type	THINK	
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A306 MY2011 Pre-series	File name		
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A306 AIR-CONDITION	Description	Drawing no 541.0050.S	Status CH

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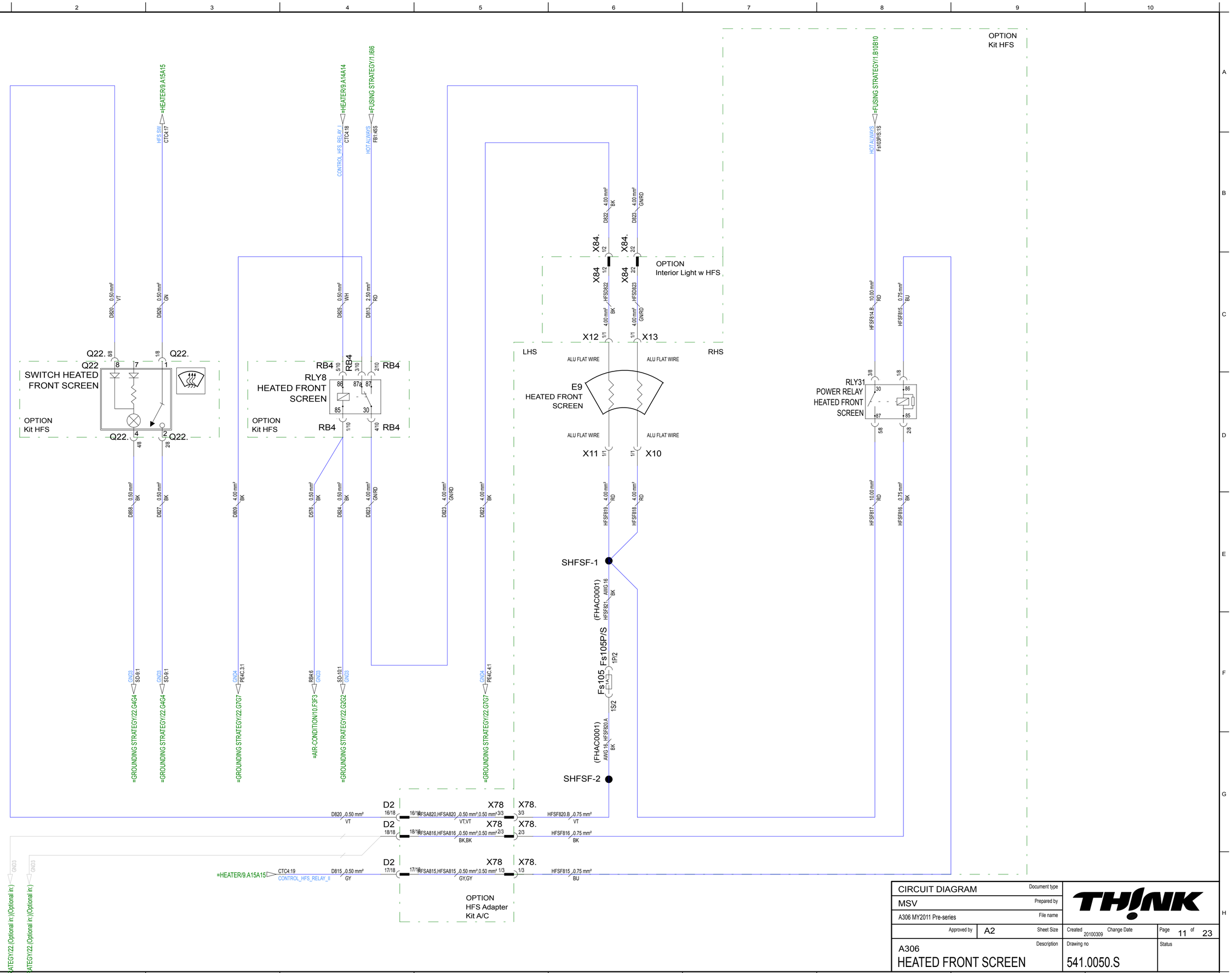

CIRCUIT DIAGRAM	Document type
MSV	Prepared by
A306 MY2011 Pre-series	File name
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A306	Description
HEATED FRONT SCREEN	Drawing no 541.0050.S
	Status

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2X EMI PROTECTION FERRITES IN EACH AIRBAG CONNECTOR

A25
DUAL STAGE
DRIVER AIRBAG

A25.1 2/2 — 3 0.50 mm² VT/WH — S8.B 3/6 — AIRBAG STAGE1 +
A25.1 1/2 — 4 0.50 mm² BK/WH — S8.B 4/6 — AIRBAG STAGE1 -
A25.2 2/2 — 6 0.50 mm² VT/WH — S8.B 6/6 — AIRBAG STAGE2 +
A25.2 1/2 — 5 0.50 mm² BK/WH — S8.B 5/6 — AIRBAG STAGE2 -
A25.3 1/1 — 1 0.50 mm² BU — S8.B 1/6 — HORN SIGNAL
S8.B 2/6 — GROUND (HORN&INFLATOR)

CODE A BU (Receptacle BK)
CODE B GN
HORN SWITCH
2 1/1 A25.4

S8
CLOCK SPRING

S8.A 4/14 — AIRBAG STAGE1 + — D336 0.50 mm² GY/OG — A16.A 3/24 — 1st STAGE DRIVER AIRBAG +
S8.A 3/14 — AIRBAG STAGE1 - — D337 0.50 mm² GY/WH — A16.A 4/24 — 1st STAGE DRIVER AIRBAG -
S8.A 1/14 — AIRBAG STAGE2 + — D338 0.50 mm² YE/WH — A16.B 2/40 — 2nd STAGE DRIVER AIRBAG +
S8.A 2/14 — AIRBAG STAGE2 - — D339 0.50 mm² RD/OG — A16.B 1/40 — 2nd STAGE DRIVER AIRBAG -
S8.A 13/14 — HORN SIGNAL — D171 0.50 mm² YE/BU
S8.A 14/14 — GND — D335 0.50 mm² BK

=GROUNDING STRATEGY/22.B8B8 — GND4 SD-48:1
=TURN, REV & HAZARD LAMPS / HORN/14.C9C9 — HORN REQUEST RB6:D2

=FUSING STRATEGY/1.I2I2 — KEY RUN FB1:22S — D153 1.00 mm² RD/GN — A16.A 24/24 — VBATT 1
=DIAGNOSTICS/4.D9D9 — VEHICLE_CAN_H SD-19:1 — D438H 0.50 mm² WH — A16.A 19/24 — CAN H
=DIAGNOSTICS/4.D9D9 — VEHICLE_CAN_L SD-15:1 — D438L 0.50 mm² BU — A16.A 20/24 — CAN L

A16
ACU
(AB9E)

2X EMI PROTECTION FERRITES IN EACH AIRBAG CONNECTOR

A16.A 9/24 — 1st STAGE PASS. AIRBAG + — D354 0.50 mm² WH/BK — A22.2 2/2
A16.A 10/24 — 1st STAGE PASS. AIRBAG - — D355 0.50 mm² WH/GN — A22.2 1/2
A16.B 12/40 — 2nd STAGE PASS. AIRBAG + — D352 0.50 mm² YE/BK — A22.1 2/2
A16.B 11/40 — 2nd STAGE PASS. AIRBAG - — D353 0.50 mm² YE/GN — A22.1 1/2

CODE A BLACK
CODE B BROWN

A22
DUAL STAGE
PASS. AIRBAG

A16.A 17/24 — STATUS LAMP PAD — D314 0.50 mm² GN — STATUS LAMP PAD A35.X:18 — =CLUSTER / VCU / INDICATOR BAR/5.G9G9
A16.A 21/24 — PASSENGER AIRBAG DEACTIVATION SWITCH OFF — D798 0.50 mm² BU
A16.A 18/24 — PASSENGER AIRBAG DEACTIVATION SWITCH ON — D356 0.50 mm² WH/BU

D625 0.50 mm² BK
=GROUNDING STRATEGY/22.B10B10 — GND3 SD-40:1
Q21. 5/6 — Q21. 6/6 — Q21. 4/6
OFF
ON

Q21
PASSENGER AIRBAG
DEACTIVATION SWITCH

A31
DRIVER SEAT BELT PRET.
BUCKLE LOCK SWITCH

A31. 2/6 — D341 0.50 mm² LTGN/RD — A16.B 17/40 — DRIVER BELT TENSIONER +
A31. 1/6 — D342 0.50 mm² LTGN/BK — A16.B 18/40 — DRIVER BELT TENSIONER -
A31. 5/6 — GND3 =GROUNDING STRATEGY/22.(Optional in:)(Optional in:)
A31. 5/6 — GND3 =GROUNDING STRATEGY/22.(Optional in:)(Optional in:)
A31. 6/6 — D33 0.50 mm² YE — DRIVER BELT BUCKLE SWITCH A180.A:5 — =CLUSTER / VCU / INDICATOR BAR/5.D4D4

A29
PASSENGER SEAT
BELT PRETENTIONER

A16.B 10/40 — PASS. BELT TENSIONER + — D357 0.50 mm² YE/RD — A29. 2/6
A16.B 9/40 — PASS. BELT TENSIONER - — D358 0.50 mm² YE/BK — A29. 1/6
GND3 =GROUNDING STRATEGY/22.(Optional in:)(Optional in:) — A29. 5/6
GND3 =GROUNDING STRATEGY/22.(Optional in:)(Optional in:)
=CLUSTER / VCU / INDICATOR BAR/5.D4D4 — PASSENGER BUCKLE SWITCH A180.A:4 — D890 0.50 mm² YE — A29. 6/6
GND3 =GROUNDING STRATEGY/22.(Optional in:)(Optional in:)
GND3 SD-40:1 — D893 0.50 mm² BK/GN — A29. 3/6
=CLUSTER / VCU / INDICATOR BAR/5.D4D4 — PASSENGER SEAT SENSOR A180.A:22 — D894 0.50 mm² YE/GN — A29. 4/6

A181
PASSENGER SEAT SENSOR

A181. 1/2 — 1
A181. 2/2 — 2

Negative termination and ground is provided through the housing

25

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A306 MY2011 Pre-series	File name		
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A306 RESTRAINTS SYSTEM	Description	Drawing no 541.0050.S	Status Draft

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=FUSING STRATEGY/1.I.8I8

KEY RUN

FB1:9S

D585 2.50 mm² RD/YE

SD-13

D586 1.50 mm² RD/YE

Q10.A 6/7 — Q10.A 2/7 — Q10.A 3/7

Q10
LH SWITCH FRONT DOOR WINDOW

Q10.A 4/7 — Q10.A 1/7 — Q10.A 7/7

WINDOW MOTOR

D592 1.50 mm² YE — XL 23/27 — XL. 23/27 — DH592 1.50 mm² YE — Q10.B 1/2 — M — Q10.B 2/2

D591 1.50 mm² GY — XL 13/27 — XL. 13/27 — DH591 1.50 mm² GY

D588 1.50 mm² BK — GND3 SD-52:1 — =GROUNDING STRATEGY/22.G8G8

D589 1.50 mm² BK — GND3 SD-52:1 — =GROUNDING STRATEGY/22.G9G9

D590 0.50 mm² BK — GND3 SD-52:1 — =GROUNDING STRATEGY/22.G9G9

Q15.A 6/7 — Q15.A 2/7 — Q15.A 3/7

Q15
RH SWITCH FRONT DOOR WINDOW

Q15.A 4/7 — Q15.A 1/7 — Q15.A 7/7

WINDOW MOTOR

D597 1.50 mm² GY/WH — XR 23/27 — XR. 23/27 — DH592 1.50 mm² YE — Q15.B 2/2 — M — Q15.B 1/2

D596 1.50 mm² GY/YE — XR 13/27 — XR. 13/27 — DH591 1.50 mm² GY

D593 1.50 mm² BK — GND3 SD-52:1 — =GROUNDING STRATEGY/22.G9G9

D594 1.50 mm² BK — GND3 SD-52:1 — =GROUNDING STRATEGY/22.G9G9

D595 0.50 mm² BK — GND3 SD-52:1 — =GROUNDING STRATEGY/22.G9G9

CIRCUIT DIAGRAM	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
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A306 POWER WINDOWS	Description	Drawing no 541.0050.S	Status

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ILLUMINATION SD-8:1 =HEAD, PARK AND LICENSE LAMP/2.J6J6

=FUSING STRATEGY/1.I13I13 HOT ALWAYS FB1:42S

H6 LEFT SIDE FRONT REPETER LAMP

H3 RIGHT SIDE FRONT REPETER LAMP

Q18 HAZARD WARNING SWITCH

RLY18 ALARM HORN RELAY

A18 HORN II

A9 HORN I

SF-23

SF-14

SF-5 SF-9

GEM

GEM.IPL 23/23 IPL HAZARD WARNING SW.

GEM.EN 1/23 EN VBATT. LOCKING

GEM.EN 5/23 EN VBATT. TURN

GEM.BR 1/23 BR ALARM HORN

GEM.IPL 19/23 IPL RH TURN SWITCH

GEM.IPL 17/23 IPL LH TURN SWITCH

GEM.IPR 22/23 IPR TURN SIGNAL BUZZER

GEM.IPL 2/23 IPL RH TURN IND

GEM.IPL 3/23 IPL LH TURN IND

GEM.IPL 14/23 IPL LIGHT ON WARNING

GEM.IPL 15/23 IPL PARK POSITION SWITCH

GEM.IPL 1/23 IPL LH FRONT TURN

GEM.BL 5/23 BL GND SIGNAL

GEM.BL 2/23 BL GND POWER

GEM.BL 2/23 BL LH REAR TURN

GEM.BR 4/23 BR RH REAR TURN

Q2 MULTIFUNCTION STALK DIRECTION INDICATOR

RIGHT LEFT HORN

P10 LH REAR DIRECTIONAL LAMP

DIR. FOG REV.

P11 RH REAR DIRECTIONAL LAMP

REV. FOG DIR.

RLY22 REVERSE LAMP RELAY

SC-3 SC-4

=GROUNDING STRATEGY/22.B11B11

=GROUNDING STRATEGY/22.B3B3

=HEAD, PARK AND LICENSE LAMP/2.B5B5

=GROUNDING STRATEGY/22.B4B4

=RESTRAINTS SYSTEM/12.C4C4

=HEAD, PARK AND LICENSE LAMP/2.J5J5

=PCU LV/6.F2F2

=GROUNDING STRATEGY/22.B7B7

=CLUSTER / VCU / INDICATOR BAR/6.G3G3

=FUSING STRATEGY/1.E3E3

=GROUNDING STRATEGY/22.G1G1

=GROUNDING STRATEGY/22.G6G6

=HEAD, PARK AND LICENSE LAMP/2.J9J8

=GROUNDING STRATEGY/22.G10G10

=GROUNDING STRATEGY/22.G11G11

=FUSING STRATEGY/1.I14I14

=FUSING STRATEGY/1.I9I9

=FUSING STRATEGY/1.I7I7

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A306 MY2011 Pre-series	File name		
Approved by	A2 Sheet Size	Created 20091209 Change Date 20100917	Page 14 of 23
A306	Description	Drawing no 541.0050.S	Status
TURN, REV & HAZARD LAMPS / HORN			

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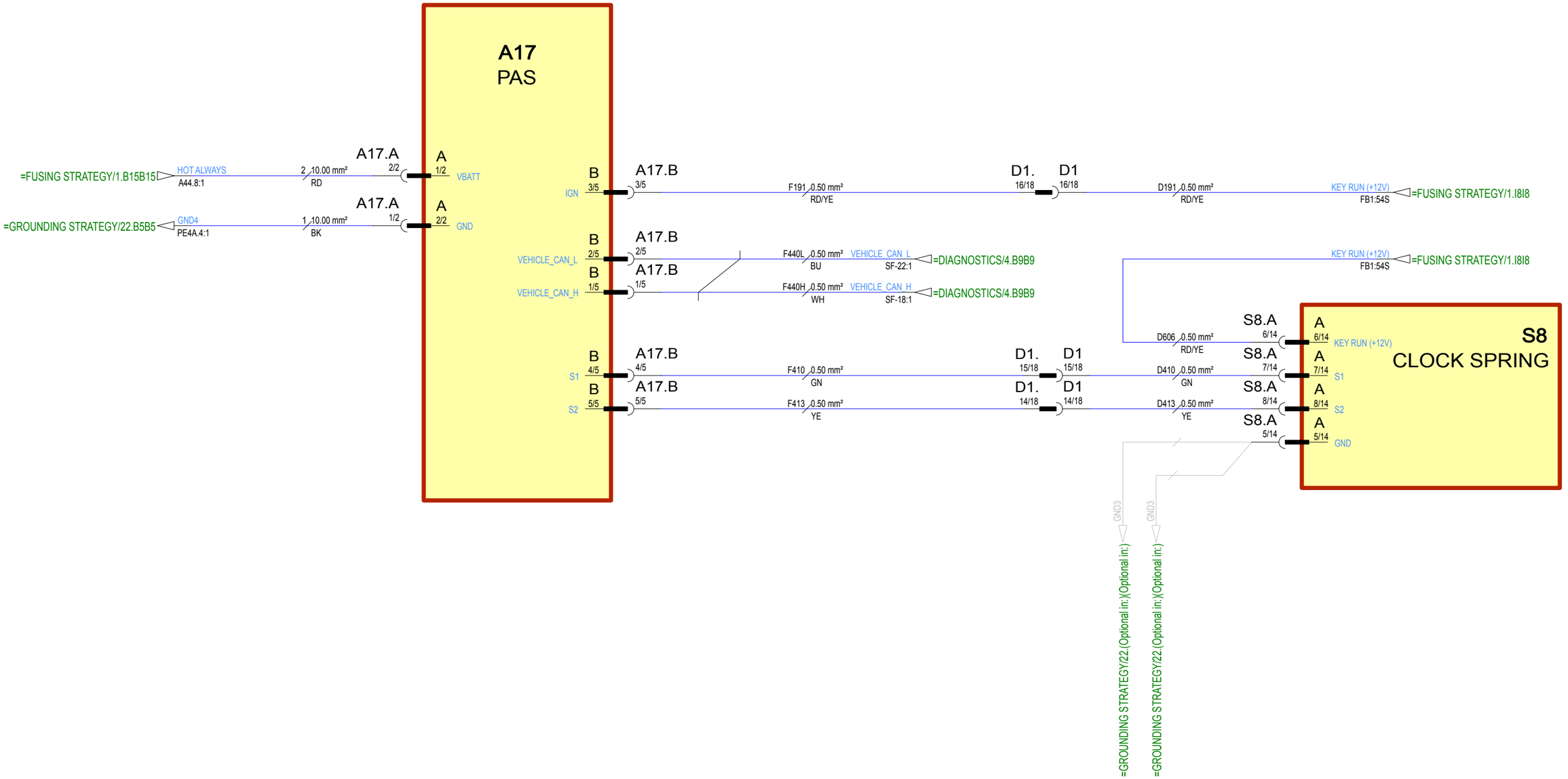

CIRCUIT DIAGRAM	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	Sheet Size: A3	Created 20091209 Change Date 20100917	Page 15 of 23
Description: A306 POWER STEERING		Drawing no: 541.0050.S	Status

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M10
WIPER MOTOR

Low
High

RLY15
WIPER MOTOR
PARK
RELAY

RLY16
WIPER MOTOR
RELAY

RB6

SD-46
SD-57
SD-58
SD-44
DIODE4

M12
WASHER
PUMP
MOTOR

A3
WIPER AND
WASH SW

FRONT
WIPER
FRONT
WASHER

GEM
GEM.EN
EN
2/23
FRONT WIPERPARK SW
GEM.IPR
IPR
21/23
FRONT WIPER RELAY
GEM.IPL
IPL
4/23
FONT WIPER INTERVAL SW
GEM.IPL
IPL
5/23
FRONT WIPER WASHER SW
GEM.IPR
IPR
4/23
FRONT WIPER RHEOSTAT SW

=FUSING STRATEGY/1.I7I7
=FUSING STRATEGY/1.I8I8
=GROUNDING STRATEGY/22.G1G1
=GROUNDING STRATEGY/22.B2B2
=GROUNDING STRATEGY/22.B11B11

CIRCUIT DIAGRAM	Document type
MSV	Prepared by
A306 MY2011 Pre-series	File name
Approved by	Sheet Size: A2
Created: 20091209	Change Date: 20100917
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Description: A306 WIPER AND WASH	Drawing no: 541.0050.S
Status	

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=HEAD, PARK AND LICENSE LAMP/2.J5J5
ILLUMINATION
SD-8:1
D388 0.50 mm² GY

=FUSING STRATEGY/1.E9E3
KEY IN WARNING
Q20:5
GEM.IPL 8/23 D41 0.50 mm² VT
IPL 8/23 KEY IN WARNING

ANTENNA1
GEM.IPR 23/23 D512 0.50 mm² WH
IPR 23/23 ANTENNA

=CLUSTER / VCU / INDICATOR BAR/5.G9G9
Door Ajar Lamp
A4.5:X11
GEM.IPR 18/23 D70 0.50 mm² YE
IPR 18/23 Door Ajar Lamp

EN 21/23 HOOD AJAR

Q3
TAILGATE RELEASE SWITCH
Q3. 4/7 — 4
Q3. 5/7 — 5
Q3. 2/7 — 2
Q3. 7/7 — 7
D401 0.50 mm² WH/VT
GEM.IPR 16/23 → IPR 16/23 TRUNK RELEASE BUTTON

GEM.IPL 22/23 → IPL 22/23 LEFT DOOR AJAR
D23 0.50 mm² GN

GEM

IPL 21/23 RIGHT DOOR AJAR
GEM.IPL 21/23
D25 0.50 mm² YE
XR 6/27 — XR. 6/27
DH23 0.50 mm² GN
Q12. 1/2 — 1
Q12. 2/2 — 2
DH24 0.50 mm² BK
XR. 7/27 — XR 7/27

BR 2/23 TRUNK MOTOR
GEM.BR 2/23
D30 0.50 mm² GN
B2 2/12 — B2. 2/12

BR 15/23 LH REAR DOOR AJAR
GEM.BR 15/23
D29 0.50 mm² WH
B2 3/12 — B2. 3/12

BL 22/23 TRUNK AJAR
GEM.BL 22/23
D721 0.75 mm² BK

Q12
RIGHT DOOR AJAR SWITCH
(SWITCH OPEN WHEN DOOR CLOSED)

Q6
LEFT DOOR AJAR SWITCH
(SWITCH OPEN WHEN DOOR CLOSED)
XL 7/27 — XL. 7/27
Q6. 2/3 — 2
DH24 0.50 mm² BK
Q6. 1/3 — 1
DH23 0.50 mm² GN
XL. 6/27 — XL 6/27

IPR 5/23 — GEM. 5/23
D19 0.50 mm² GY
BR 16/23 — GEM.BR 16/23
D10 0.50 mm² GN/YE
BL 19/23 — GEM.BL 19/23
D13 0.50 mm² BU/YE
BR 3/23 — GEM.BR 3/23
D16 1.00 mm² GN
IPR 1/23 — GEM.IPR 1/23
D20 0.50 mm² GY

UNLOCK LEFT DOOR MOTOR
UNLOCK SWITCH
LOCK SWITCH
LOCK MOTORS
UNLOCK RIGHT DOOR MOTOR

A6
LEFT DOOR LOCK
(UNLOCK POSITION SHOWN)
A6. 4/5 — 4 DH19 0.50 mm² GY — XL. 4/27 — XL 4/27
A6. 5/5 — 5 DH17 0.50 mm² GN — XL. 3/27 — XL 3/27 — D17 0.50 mm² GN
A6. 3/5 — 3 DH14 0.50 mm² BU/YE — XL. 2/27 — XL 2/27 — D14 0.50 mm² BU/YE
A6. 2/5 — 2 DH11 0.50 mm² GN/YE — XL. 1/27 — XL 1/27 — D11 0.50 mm² GN/YE
A6. 1/5 — 1 DH21 0.50 mm² BK — XL. 5/27 — XL 5/27 — D21 0.50 mm² BK

SD-17
SD-36
SD-29

D18 0.50 mm² GN — XR 3/27 — XR. 3/27 — DH19 0.50 mm² GY — A19. 4/5 — 4
D15 0.50 mm² BU/YE — XR 2/27 — XR. 2/27 — DH14 0.50 mm² BU/YE — A19. 3/5 — 3
D12 0.50 mm² GN/YE — XR 1/27 — XR. 1/27 — DH11 0.50 mm² GN/YE — A19. 2/5 — 2
D22 0.50 mm² BK — XR 5/27 — XR. 5/27 — DH21 0.50 mm² BK — A19. 1/5 — 1

A19
RIGHT DOOR LOCK
(UNLOCK POSITION SHOWN)
XR 4/27 — XR. 4/27 — DH17 0.50 mm² GN — A19. 5/5 — 5

=POWER MIRRORS/18.G1G1 — M9::7 GND2 — DH881 0.50 mm² BK
DH881 0.50 mm² BK — M11::7 GND2 — =POWER MIRRORS/18.G10G10

Q19
TAILGATE AJAR SWITCH
(GATE CLOSED POSITION)
Q19. 1/2 — 1
Q19. 2/2 — 2
C29 0.50 mm² WH
C403 0.50 mm² BK/BU
B2. 1/12 — B2 1/12
D403 0.50 mm² BK

M6
M6 TAILGATE RELEASE MOTOR
M6. 2/2 — 2 — GN 0.50 mm² C30
M6. 1/2 — 1 — BK 0.50 mm² C31

D28 0.50 mm² BK

=GROUNDING STRATEGY/22.B10B10 — GND3 SD-46:1
=GROUNDING STRATEGY/22.B9B9 — GND3 SD-46:1
=GROUNDING STRATEGY/22.G3G3 — GND3 SD-9:1
=GROUNDING STRATEGY/22.G2G2 — GND3 SD-10:1
=GROUNDING STRATEGY/22.G3G3 — GND3 SD-9:1
=GROUNDING STRATEGY/22.G10G10 — GND4 SC-2:1
=GROUNDING STRATEGY/22.G3G3 — GND3 SD-9:1

=MIND BOX (RAC) and TPMS/20.B4B4 — UNLOCK_DOOR LOCKS — C2:6
=MIND BOX (RAC) and TPMS/20.C4C4 — LOCK_DOOR LOCKS — C2:7

=GROUNDING STRATEGY/22.(Optional in:)(Optional in:) — GND4

CIRCUIT DIAGRAM	Document type
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A306 DOORS	Description
Drawing no 541.0050.S	Status

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=HEATER9.E12E12
FB1:24S
HEATED MIRROR
D882 0.50 mm² RD/BU
D881 0.50 mm² RD/BU
=FUSING STRATEGY/1.I313
KEY RUN
FB1:33S
D557 0.50 mm² RD/GN

XL. 14/27 XL 14/27
XL. 10/27 XL 10/27
XL. 11/27 XL 11/27
XL. 12/27 XL 12/27

XR 14/27 XR. 14/27
XR 10/27 XR. 10/27
XR 11/27 XR. 11/27
XR 12/27 XR. 12/27

DH880 0.50 mm² RD/BU
DH559 0.50 mm² BU/YE
DH561 0.50 mm² BN
DH562 0.50 mm² YE

LEFT MIRROR
M9
HEATER
U D
L R
M
6/7 M9. 6
4/7 M9. 4
M9. 3/7 3
M9. 5/7 5
7/7 M9. 7

RIGHT MIRROR
M11
1/7 M11. 4
6/7 M11. 6
M11. 3/7 3
M11. 2/7 5
7/7 M11. 7

Q17
MIRROR ADJUST
SWITCH
4/8 Q17. 4
6/8 Q17. 6
L R L R U D U D
SELECT MIRROR
R L R L
5/8 Q17. 5
7/8 Q17. 7
3/8 Q17. 3
2/8 Q17. 2
1/8 Q17. 1

GND3
=GROUNDING STRATEGY/22.(Optional in:)(Optional in:)
D562 0.50 mm² YE
D564 0.50 mm² BN
D559 0.50 mm² BU/YE
D561 0.50 mm² YE
D560 0.50 mm² VT
D565 0.50 mm² BU
D563 0.50 mm² YE
SD-12

DH881 0.50 mm² BK
GND2
XL:5
=DOORS/17.G2/G2
XR:5
=DOORS/17.G6/G6

CIRCUIT DIAGRAM	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
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A306	Description	Drawing no	Status
POWER MIRRORS		541.0050.S	

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=FUSING STRATEGY/1.I13

HOT ALWAYS

FB1:41S

D169 1.50 mm² RD

D113 0.50 mm² RD

GEM

IPR 20/23 BATTERY SAVER RELAY

BL 3/23 INTERIOR LAMP

GEM.IPR 20/23

GEM.BL 3/23

D71 0.50 mm² BU

D53 0.75 mm² BU/WH

RB6 C3/20

RB6 C1/20

RLY17
BATTERY SAVER RELAY

3 30 1 86 87 87a 85 5 4 2

RB6 C5/20

RB6 C2/20

D601 0.75 mm² GN

2/3 X61.

OPTION
Interior Light - Base
Interior Light w HFS

2/3 0.75 mm² RD IL601

X9 1/1 2

H1
INTERIOR LIGHT

1 3

X7 1/1 X8 1/1

0.75 mm² BK IL602 3/3

0.75 mm² BU/WH IL53 1/3

X61. X61.

3/3 0.75 mm² BK D802

GND4 SD-53:1

=GROUNDING STRATEGY/22.G8G8

=FUSING STRATEGY/1.I8

KEY RUN

FB1:36S

AWG 16 RD D828

1/3 X15

OPTION
Sun Roof

RD

Q26
SUN ROOF
SWITCH

OPEN CLOSE

BK GN BK

X15 2/3

AWG 16 BK D848

BN RD/BN

GND4 SD-53:1

=GROUNDING STRATEGY/22.G8G8

ELECT M

SUN ROOF
MOTOR

CIRCUIT DIAGRAM	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
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A306	Description	Drawing no	Status
INTERIOR LIGHT / SUN ROOF		541.0050.S	

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A68
MIND BOX
(RAC)

X6 MIC IN - 2	3/14	A68.X6 3/14	MIC2-	0.35 mm²	BN			X16 2/4	
X6 MIC IN + 2	10/14	A68.X6 10/14	MIC2+	0.35 mm²	GN			X16 3/4	
X6 MIC IN - 1	12/14	A68.X6 12/14	MIC1-	0.35 mm²	BK			X16 4/4	
X6 MIC IN + 1	6/14	A68.X6 6/14	MIC1+	0.35 mm²	RD			X16 1/4	
X6 RADIO MUTING	5/14	A68.X6 5/14	RAC856	0.50 mm² WH	C2. 8/18	C2 8/18	D856 0.50 mm² WH	RADIO_MUTE SD-62:1	=RADIO/21.B5B5
X6 LOUDSPEAKER -	11/14	A68.X6 11/14	RAC866	0.50 mm² WH	C2. 9/18	C2 9/18	D866 0.50 mm² BK/WH	H7.1 1/1 GND -	H7 SPEAKER HANDSFREE
X6 LOUDSPEAKER +	4/14	A68.X6 4/14	RAC868	0.50 mm² WH	C2. 10/18	C2 10/18	D868 0.50 mm² GN/YE	H7.2 1/1 + +	
X11 LOCK_DOOR LOCKS	12/12	A68.X11 12/12	RAC865	0.50 mm² WH	C2. 6/18	C2 6/18	D864 0.50 mm² GN/YE	UNLOCK_DOOR LOCKS SD-29:1	=DOORS/17.G4G4
X11 UNLOCK_DOOR LOCKS	6/12	A68.X11 6/12	RAC864	0.50 mm² WH	C2. 7/18	C2 7/18	D865 0.50 mm² BU/YE	LOCK_DOOR LOCKS SD-36:1	=DOORS/17.G4G4
X12 HOT ALWAYS	1/24	A68.X12 1/24	RAC805	0.50 mm² WH	C2. 2/18	C2 2/18	D805 0.50 mm² RD	HOT ALWAYS FB1:21S	=FUSING STRATEGY/1.J10J10
X12 VEHICLE CAN L	6/24	A68.X12 6/24	RAC855L	0.50 mm² WH	C2. 3/18	C2 3/18	D923L 0.50 mm² BU	VEHICLE_CAN_L SD-33:1	=DIAGNOSTICS/4.C9C9
X12 VEHICLE CAN H	18/24	A68.X12 18/24	RAC855H	0.50 mm² WH	C2. 4/18	C2 4/18	D923H 0.50 mm² WH	VEHICLE_CAN_H SD-37:1	=DIAGNOSTICS/4.C9C9
X12 KEY RUN (15) +12V	7/24	A68.X12 7/24	RAC808	0.50 mm² WH	C2. 5/18	C2 5/18	D808 0.50 mm² RD/GN	SD-74	D919 0.50 mm² RD/GN → KEY RUN SD-70:1 =FUSING STRATEGY/1.J5J5
X12 CAR-SHARING LED OUPUT	9/24	A68.X12 9/24	RAC860	0.50 mm² WH	C2. 11/18	C2 11/18	D860 0.50 mm² BN		
X12 PUSH BUTTON A_INPUT	19/24	A68.X12 19/24	RAC859	0.50 mm² WH	C2. 14/18	C2 14/18	D859 0.50 mm² BU		
X12 AIRBAG ECU STATUS	10/24								
X12 AIRBAG ECU EVENT	11/24								
X12 CDCM WAKE UP OUTPUT	21/24	A68.X12 21/24	RAC842	0.50 mm² WH	C2. 12/18	C2 12/18	D842 0.50 mm² YE	CLIMATE WAKE UP SD-67:1	=CLUSTER / VCU / INDICATOR BAR/5.E3E3
X12 TPMS INDICATOR LED	22/24								
X12 GND	13/24	A68.X12 13/24	RAC804	0.50 mm² WH	C2. 1/18	C2 1/18	D804 0.75 mm² BK	GND3 SD-10:1	=GROUNDING STRATEGY/22.G2G2

Q23
ASSISTANCE SWITCH

Q23. 2/8 — pin 2
Q23. 4/8 — pin 4
Q23. 1/8 — pin 1
pin 7
Q23. 8/8 — pin 8

D871 0.50 mm² RD — HOT ALWAYS SD-54:1 =FUSING STRATEGY/1.J9J9
D870 0.50 mm² RD — HOT ALWAYS SD-54:1 =FUSING STRATEGY/1.J9J9

A190 TPMS

A190. X1 2/4 GND2	D921 0.50 mm² BK	GND3 SD-10:1	=GROUNDING STRATEGY/22.G2G2
A190. X1 1/4 KEY RUN	D904 0.50 mm² RD/GN	KEY RUN SD-70:1	=FUSING STRATEGY/1.J5J5
A190. X1 3/4 VEHICLE_CAN_H	D855H 0.50 mm² WH	VEHICLE_CAN_H SD-37:1	=DIAGNOSTICS/4.C9C9
A190. X1 4/4 VEHICLE_CAN_L	D855L 0.50 mm² BU	VEHICLE_CAN_L SD-33:1	=DIAGNOSTICS/4.C9C9

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CIRCUIT DIAGRAM	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A3 Sheet Size	Created 20100815 Change Date 20100922	Page 20 of 23
A306 MIND BOX (RAC) and TPMS	Description	Drawing no 541.0050.S	Status

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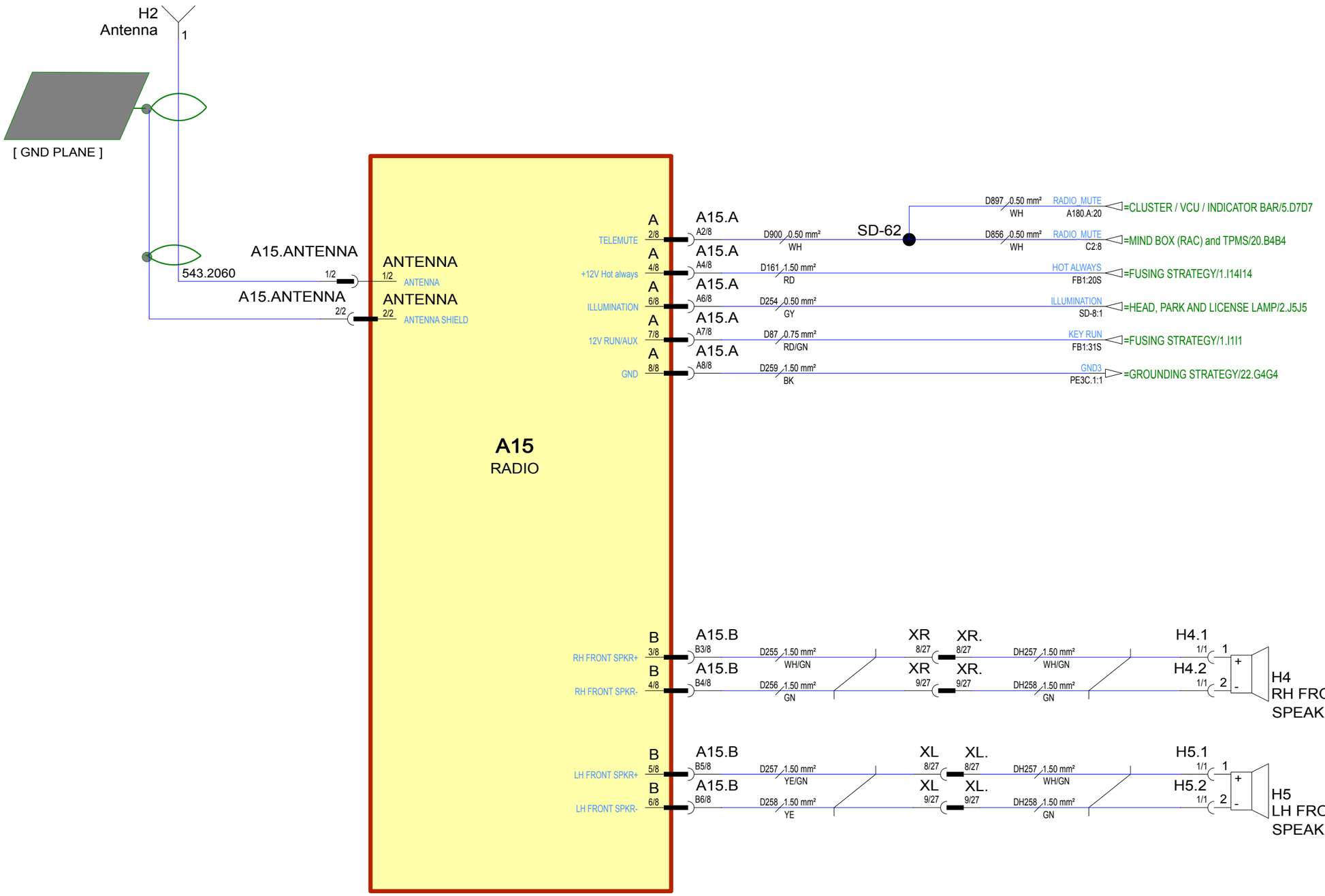

CIRCUIT DIAGRAM	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A3 Sheet Size	Created 20091209 Change Date	Page 21 of 23
A306 RADIO	Description	Drawing no 541.0050.S	Status

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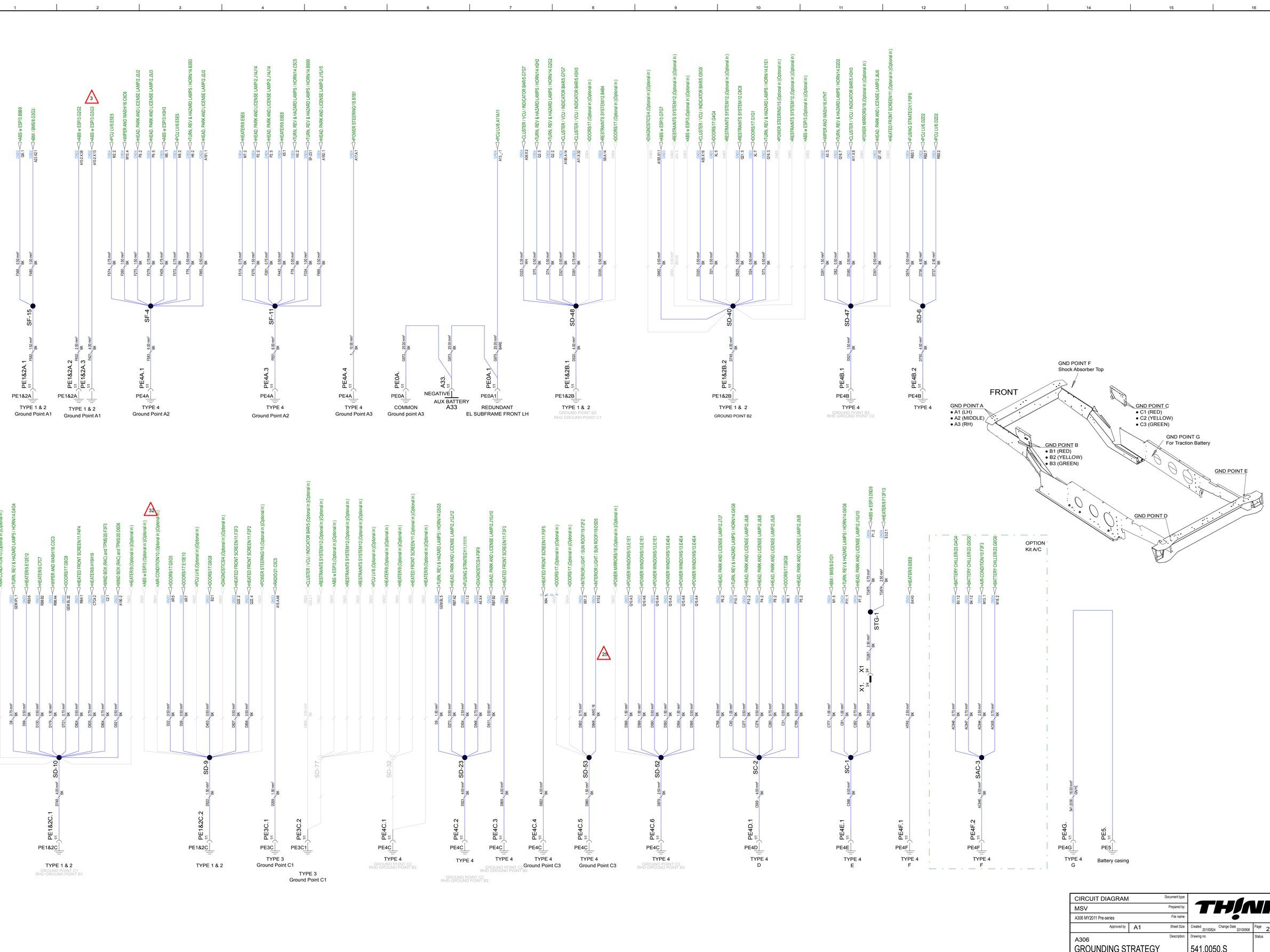

CIRCUIT DIAGRAM	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	Sheet Size: A1	Created: 20100824 Change Date: 20100908	Page 22 of 23
A306	Description	Drawing no: 541.0050.S	Status
GROUNDING STRATEGY			

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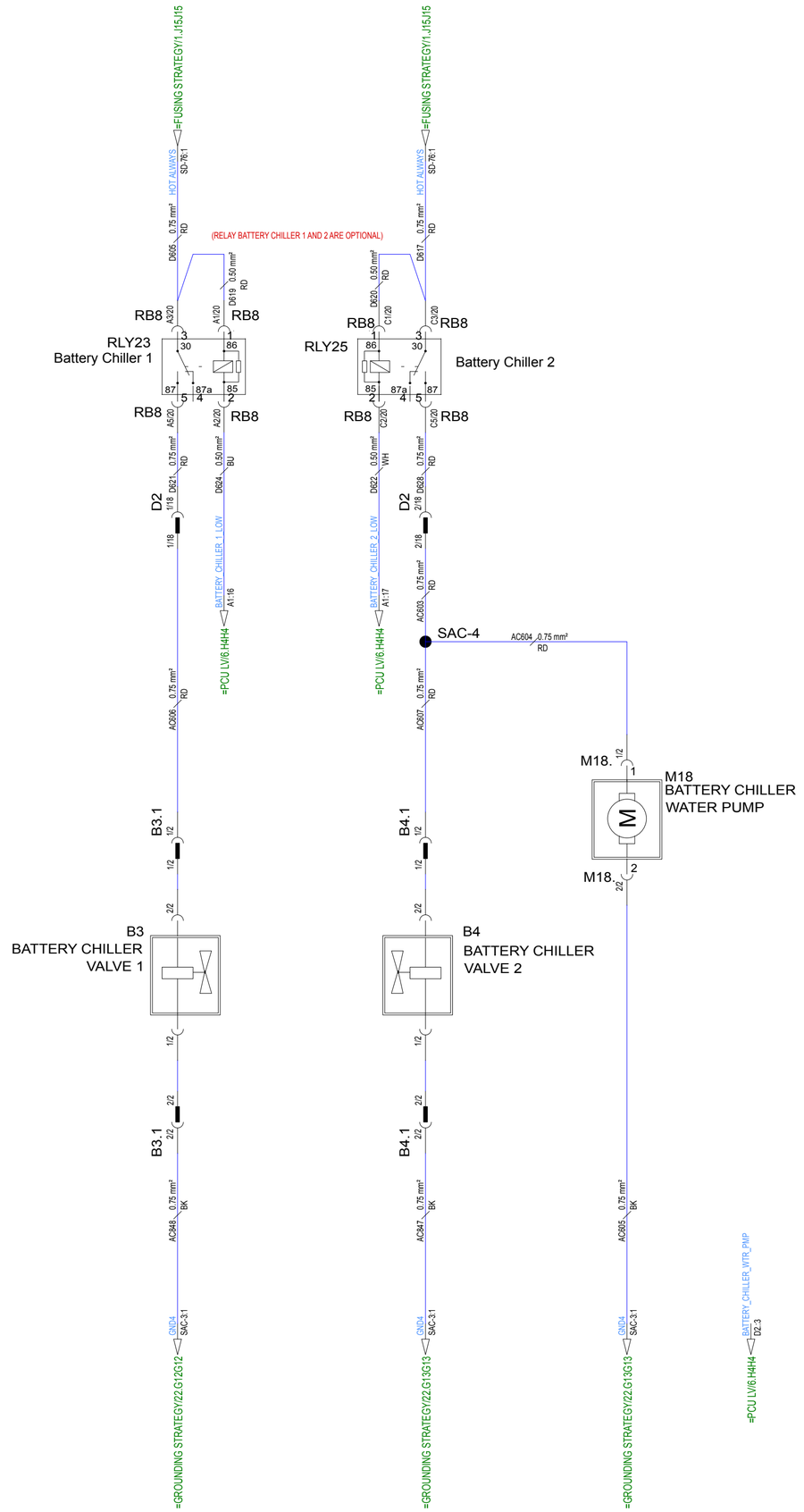

CIRCUIT DIAGRAM	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A2 Sheet Size	Created 07/09/2010 Change Date 20100921	Page 23 of 23
A306 BATTERY CHILLER	Description	Drawing no 541.0050.S	Status

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Wire Id	Type	Colour	Size	From		Loc.	To		Loc.	Lenght (mm) (Cu)
JZ453	R2	RD/YE	0.75 mm²	SJ-3	1	/1.C41C4	A4.X2	3	/1.C51C5	340
JZ456	R2	RD	1.50 mm²	A4.X2	11	/1.C51C5	A23.X2.2	11	/1.C21C2	420
JZ462	R2	WH	1.00 mm²	A4.X2	9	/1.C51C5	A23.X2.2	9	/1.C21C2	420
JZ463	R2	RD	0.50 mm²	A4.X2	2	/1.C51C5	A23.X2.2	2	/1.C21C2	420
JZ480	R2	BK	1.00 mm²	A4.X2	1	/1.C51C5	A23.X2.2	1	/1.C21C2	420
JZ775	R2	WH	1.50 mm²	A4.X2	4	/1.C51C5	A23.X2.2	4	/1.C21C2	420
JZ792H	R2	RD	0.50 mm²	A4.X2	8	/1.C51C5	A23.X2.2	8	/1.C21C2	420
JZ792L	R2	BU	0.50 mm²	A4.X2	16	/1.D51D5	A23.X2.2	5	/1.C21C2	420
JZ829	R2	WH	0.50 mm²	A4.X2	10	/1.C51C5	A23.X2.2	10	/1.C21C2	420
JZ851	R2	RD/YE	0.50 mm²	SJ-1	1	/1.C31C3	A23.X2.2	3	/1.C21C2	80
JZ853	R2	RD/YE	0.50 mm²	SJ-2	1	/1.C31C3	A23.X2.2	6	/1.C21C2	80

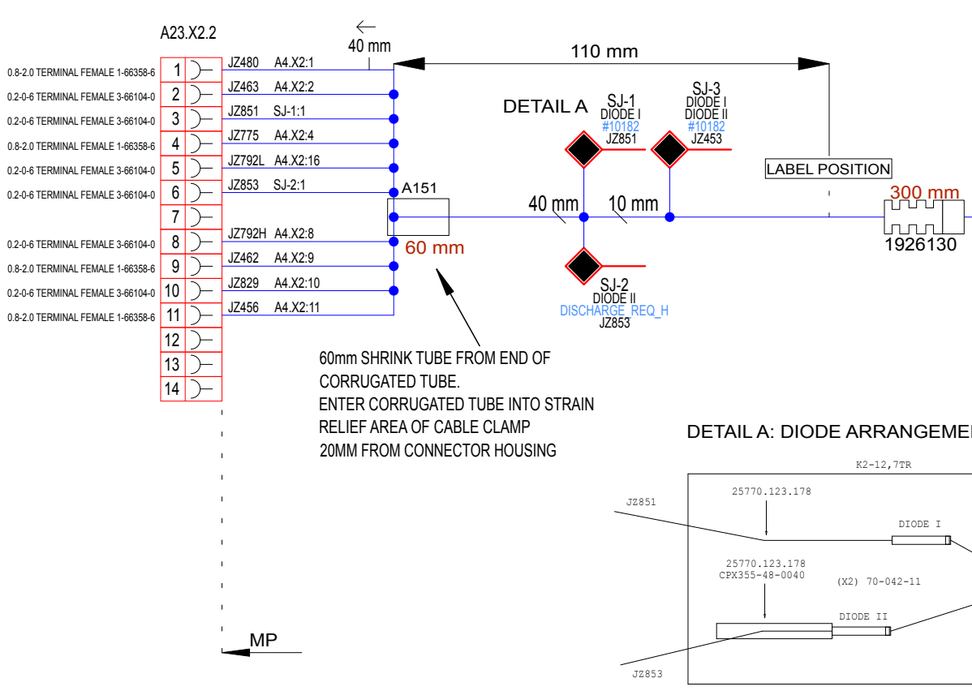
Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
SJ-3	1			SHRINK TUBE CPX355-95	
L3	1			Think Label Layout	
A23.X2.2	1	COLLINDER MARKSYSTEM	K2-12-7TR	TRANSPARENT SHRINK SLEEVE K2-12-7TR	
SJ-2	1	DSG-CANUSA	CPX355-48	SHRINK TUBE CPX355-48	
SJ-1,SJ-2	2	ELFA	70-042-11	DIODE 70-042-11	
A808,A809,A810	3	HELLERMANN	T18R SV-1000	CABLE TIE T18R SV-1000	
C278	1	HELLERMANNTYTON	150-56193	CLIPS T50SDSBS5-MC5-BK-D1	
SJ-1,SJ-2,SJ-3	3	LEAR	25770.123.178	SPLICE LEAR 25770.123.178	
A151	1	Raychem	RNF-3000-18/6-0-SP	SHRINK SLEEVE 18/6 WO GLUE BLACK	
	300	SCHLEMMER		CORRUGATED TUBE NW13 UNSLIT BLACK	
A23.X2.2	1	TYCO	1-206070-0	CABLE CLAMP SIZE17 CPC 1-206070-0	
A23.X2.2	4	TYCO	1-66358-6	0.8-1.4 TERMINAL FEMALE 1-66358-6	
A4.X2	1	TYCO	1-967242-1	JPT Rec.-HOUSING , 16POS. 1-967242-1	
A4.X2	1	TYCO	1452317-1	COVER F.16P JPT 1452317-1	
A23.X2.2	6	TYCO	3-66104-0	0.2-0-6 TERMINAL FEMALE 3-66104-0	
A23.X2.2	1	TYCO	796273-1	CONNECTOR 14PIN FEMALE 796273-1	
A4.X2	5	TYCO	828904-2	SWS ID1.2-2.1 JPT 828904-2	
A4.X2	4	TYCO	828905-1	SWS ID2.21-3.9 JPT 828905-1	
A4.X2	7	TYCO	828922-1	CAVITY PLUG 1.5/2.5/4.0MM PIN 828922-1	
A4.X2	2	TYCO	929937-1	1.5-2.5 TERMINAL FEMALE JPT 929937-1	
A4.X2	7	TYCO	929939-1	0.5-1.0 TERMINAL FEMALE JPT 929939-1	

LABEL LAYOUT

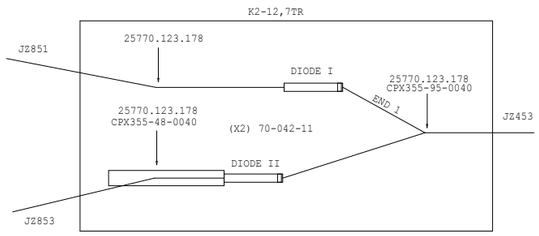
L3

Harness Supplier:
Think PartNo:
Date:
Batch Sequence:
Test:

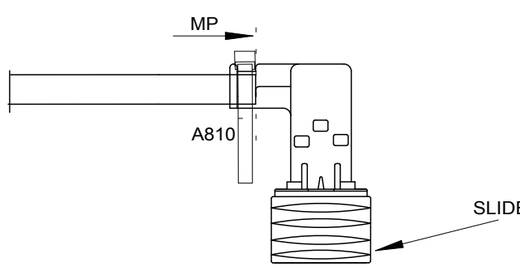
Barcode



DETAIL A: DIODE ARRANGEMENT



CLIP ON COVER WITH ITS ENTRY ON THE SAME SIDE AS SHOWN IN FIGURES BELOW.
SLIDE TO BE LEFT OPEN FOR ASSEMBLY.



Revision	Task Number	Description	Date	Change Req	Prepared	Approved
B	T003	Placed clip on connector and removed from additional part		N/A	JJF	PBA
	T004	Added 2 x Clips T18R SV-1000 (Updated BOM)				
	T005	Added diode measurements				
	T006	Added in clip position for C278				
	T007	Added in label position				
	T008	Updated the detail and show K2-12,7TR, CPX35-48 & CPX35-95				
	T009	Added label detail (Updated BOM)				
	T010	Added a table for the SC detail				
A	N/A	GEN-2 Version	14.12.2009	V3	MSV	EFP

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

SC	Significant Characteristics
1	TEST INFORMATION: ALL NETS SHOULD BE CHECKED FOR CONDUCTIVITY AND SHORT CIRCUITS BETWEEN NETS

CABLES JZ792H AND JZ792L TWISTED 40±2 TURNS/m

HARNESS	Document type				
MSV	Prepared by				
A306 MY2011 Pre-series	File name				
Approved by	A3	Sheet Size	Created 20091214	Change Date	Page 1 of 1
A306 JUMPER SIGNAL FRONT HARNESS TO BMI ZEBRA	Description	Drawing no 541.1038.B		Status DRAFT	

Plotted: 16.05.2011 13:35 msv

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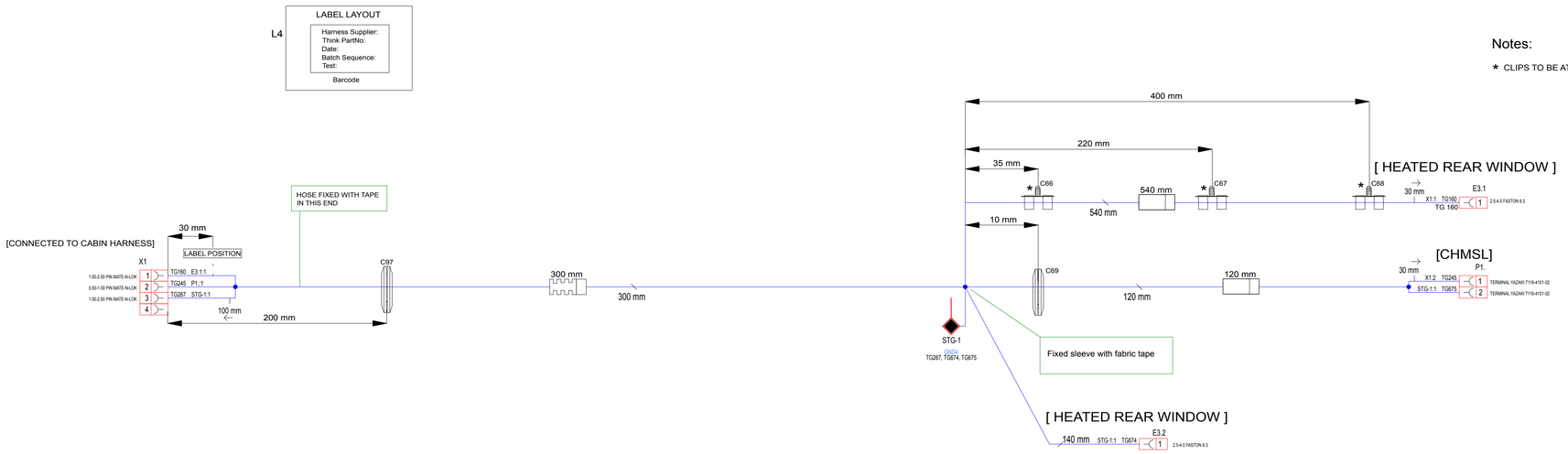
Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
TG160	R2	BN/BU	2.50 mm²	X1	1	/1.F31F3	E3.1	1	/1.E12/1E12	970
TG245	R2	GN	0.75 mm²	P1.	1	/1.F121F12	X1	2	/1.F31F3	550
TG267	R2	BK	2.50 mm²	STG-1	1	/1.F91F9	X1	3	/1.F31F3	400
TG674	R2	BK	2.50 mm²	E3.2	1	/1.G101G10	STG-1	1	/1.F91F9	140
TG675	R2	BK	0.75 mm²	P1.	2	/1.F121F12	STG-1	1	/1.F91F9	150

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
	300			Corrugated Plastic Hose	
L4	1			Think Label Layout	
	660			Wrapping Hose	
STG-1	1		25775.123.178 SPLICE	GENERAL SPLICE	
C69,C97	2	TRELLEBORG SIGMA AB	941265	RUBBER SEAL BLACK	
E3.1,E3.2	2	TYCO ELECTRONICS LOGISTICS AG	154719-0	HOUSING 949181 8541229	
E3.1,E3.2	2	Tyco	154717-4	2.5-4.0 FASTON 6.3	
E3.1,E3.2	2	Tyco	154719-0	FASTON 6.3 HOUSING 1 PIN BLACK	
X1	1	Tyco	163301-8	PIN MATE-N-LOK 0.50-1.00	
X1	2	Tyco	163303-8	PIN MATE-N-LOK 1.00-2.50	
X1	1	Tyco	925075-0	4 POL HOUSING MATE-N-LOK CAP	
C66,C67,C68	3	YAZAKI	7047-9606-30	INLINE FASTNER	
P1.	2	YAZAKI	7116-4101-02	TERMINAL	
P1.	1	YAZAKI	7283-6443-40	CONNECTOR 2 PIN FEMALE	



Notes:

* CLIPS TO BE ATTACHED TO THE HARNESS BRANCH WITH PVC BLACK TAPE

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20

General tolerance for positioning of cable ties and clips: ±5 mm

Revision	Task Number	Description	Date	Change Req	Prepared	Approved
F	T003	Wrong connector specified, correct connector 7283-6443-40		N/A	JJF	PBA
	T004	Changed label position and dimensions				
	T006	Added terminals to the rear window connectors				
	T007	Added correct terminals 163301-8 to X1 connector				
	T008	Changed drawing measurement format for splices				
	T009	Added label detail				
E	N/A	N/A	11.09.2007	1PP 07	MSV	EFI

Document type: HARNESS			
Prepared by:			
File name: A306 MY2011 Pre-series			
Approved by	Sheet Size: A1	Created 17/01/2008	Change Date
Description: A306 JUMPER LIFTGATE	Drawing no: 541.1040.F	Page 1 of 1	Status: DRAFT

Printed: 16.05.2011 13:35 msv

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Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
541.2030	R2	GN/YE	16.00 mm²	PE5.	1	/1.C51C5	PE4G.	1 /1.C21C2	370

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
L2	1			Think Label Layout	
A51,A52	2		CPX355-95	Crimp Sleeve CPX355-95	
PE4G.,PE5.	2		KR16-6	RING TERMINAL M6 KR16-6	

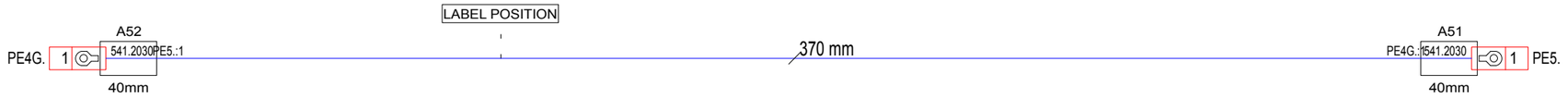
L2

LABEL LAYOUT

Harness Supplier:
Think PartNo:
Date:
Batch Sequence:
Test:

Barcode

SLEEVE MARKED WITH PART NUMBER



Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20

General tolerance for positioning of cable ties and clips: ±5 mm

Revision	Task Number	Description	Date	Change Req	Prepared	Approved
C	T001	Added label detail		N/A	JJF	PBA
B	N/A	Adjusted length, changed colour	11.09.2007	1PP 07	VFI	EFP

HARNESS — Document type

Prepared by

A306 MY2011 Pre-series — File name

Approved by | A3 — Sheet Size

Created 17/01/2008 — Change Date

Page 1 of 1

A306 CABLE TRACTION BATTERY TO CHASSIS GROUND — Description

Drawing no 541.2030.C

Status DRAFT

Plotted: 16.05.2011 13:35 msv

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Wire Id	Type	Colour	Size	From		Loc.	To		Loc.	Lenght (mm) (Cu)
TPMS804	R2	WH	0.50 mm²	C2.2	1	/1.E31E3	A189.1	2	/1.E71E7	395
TPMS855H	R2	WH	0.50 mm²	C2.2	5	/1.E31E3	A189.1	1	/1.E71E7	395
TPMS855L	R2	WH	0.50 mm²	C2.2	4	/1.E31E3	A189.1	3	/1.E71E7	395
TPMS808	R2	WH	0.50 mm²	C2.2	3	/1.E31E3	A189.1	4	/1.E71E7	395

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A189.1	1			Cover PBT-GF0	
A189.1	1			Sealing MVQ-30	
C2.2	1	FCI	211PL182S4004	CONNECTOR 18PIN MALE 211PL182S4004 YELLOW	
C2.2	4	FCI	9148076	MALE TERMINAL 1.5 SICMA 2	
	395	TESA	51608-09-15	TAPE TEXTILE TESA 51608-09-15	
A189.1	1	TYCO	967640-1	CONNECTOR 4PIN FEMALE 967640-1	
A189.1	4	Tyco	962885	0.2-0.5 MQS RECEPTACLE FEMALE 962885	

CABLES TPMS855H and TPMS855L TWISTED 40 +/- 2 TURNS/m

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20

General tolerance positioning of cable ties and clips: ±5 mm

Rev.	Description	Change Req.	Date	Prepared	Approved
A	New function TPMS for US market	US	20100903	MSV	-

HARNESS (Document type)
MSV (Prepared by)
A306 MY2011 Pre-series (File name)
Approved by | A2 (Sheet Size)
Created 12/07/2010 Change Date 20100903
Page 1 of 1
Description: A306 HARNESS TPMS FRONT
Drawing no: 541.2045.A
Status: DRAFT

Plotted: 16.05.2011 13:35 msv

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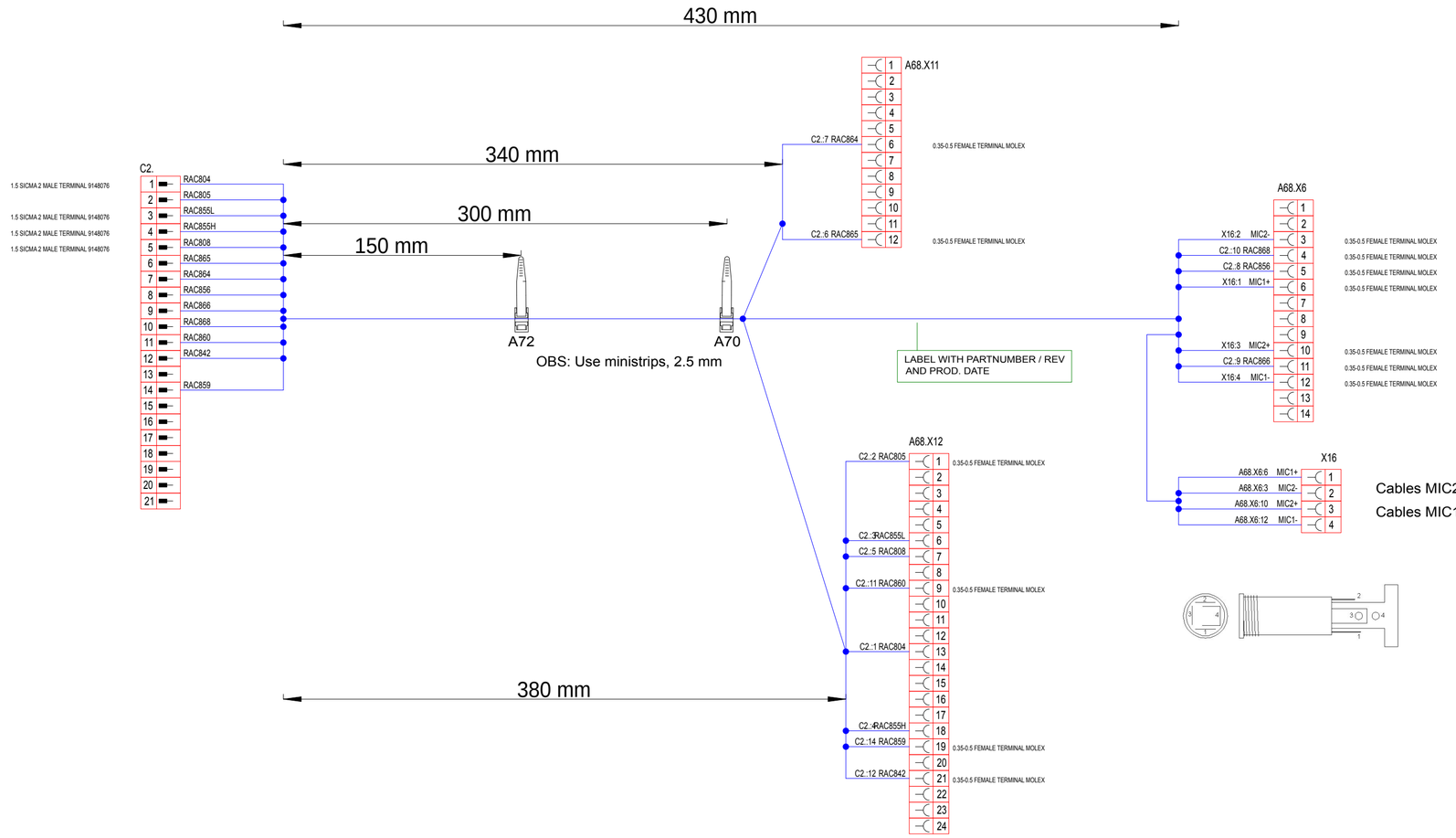
Wire Id	Type	Colour	Size	From		Loc.	To		Loc.	Lenght (mm) (Cu)
MIC1-	R2	BK	0.35 mm²	A68.X6	12	/1.E81E8	X16	4	/1.E81E8	150
MIC1+	R2	RD	0.35 mm²	A68.X6	6	/1.D81D8	X16	1	/1.E81E8	150
MIC2-	R2	BN	0.35 mm²	A68.X6	3	/1.D81D8	X16	2	/1.E81E8	150
MIC2+	R2	GN	0.35 mm²	A68.X6	10	/1.E81E8	X16	3	/1.E81E8	150
RAC804	R2	WH	0.50 mm²	A68.X12	13	/1.F61F6	C2.	1	/1.D31D3	395
RAC805	R2	WH	0.50 mm²	A68.X12	1	/1.E61E6	C2.	2	/1.D31D3	395
RAC808	R2	WH	0.50 mm²	A68.X12	7	/1.F61F6	C2.	5	/1.D31D3	395
RAC842	R2	WH	0.50 mm²	A68.X12	21	/1.G61G6	C2.	12	/1.E31E3	395
RAC855H	R2	WH	0.50 mm²	A68.X12	18	/1.F61F6	C2.	4	/1.D31D3	395
RAC855L	R2	WH	0.50 mm²	A68.X12	6	/1.F61F6	C2.	3	/1.D31D3	395
RAC856	R2	WH	0.50 mm²	A68.X6	5	/1.D81D8	C2.	8	/1.D31D3	445
RAC859	R2	WH	0.50 mm²	A68.X12	19	/1.G61G6	C2.	14	/1.E31E3	395
RAC860	R2	WH	0.50 mm²	A68.X12	9	/1.F61F6	C2.	11	/1.E31E3	395
RAC864	R2	WH	0.50 mm²	A68.X11	6	/1.D61D6	C2.	7	/1.D31D3	355
RAC865	R2	WH	0.50 mm²	A68.X11	12	/1.D61D6	C2.	6	/1.D31D3	355
RAC866	R2	WH	0.50 mm²	A68.X6	11	/1.E81E8	C2.	9	/1.D31D3	445
RAC868	R2	WH	0.50 mm²	A68.X6	4	/1.D81D8	C2.	10	/1.D31D3	445

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A70,A72	2	CHIP MARKETING AB/JETPRESS LIMITED	CAT054-BLK	Strips	
A68.X11	1	MOLEX	43025-1200		
A68.X6	1	MOLEX	43025-1400		
A68.X12	1	MOLEX	43025-2400		
A68.X11,A68.X12,A68.X6	17	MOLEX	43031-0001	0.35-0.5 TERMINAL FEMALE MICROFIT	
X16	1	REMTRAK.COM	CONNIJS25C08573	EXTENSION JACK SOCKET 4 POLE 2.5MM	
X17	13	TYCO	1-962841-1	0.5-1.0 TERMINAL MALE JPT 1-962841-1	
X17	1	TYCO	2-967630-1	CONNECTOR 21PIN MALE 2-967630-1	

LABEL LAYOUT

Think PartNo
Think
Manufacturer Part No



Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

Rev.	Description	Change Req.	Date	Prepared	Approved
C	Added new mic-connector+ removed two nets	-	20/02/2007	OBJ	EFP

Document type: HARNESS	Prepared by: OBJ	File name: A306 MY2011 Pre-series	
Approved by: EFP	Sheet Size: A2	Created: 29.07.2008 Change Date	Page: 1 of 1
Description: A306 REMOTE ACQUSITION SYSTEM HARNESS		Drawing no: 541.2050.F	Status: R

Plotted: 16.05.2011 13:35 msv

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Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)

Plotted: 16.05.2011 13.35
msv

HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A2 Sheet Size	Created 20100707 Change Date	Page 1 of 1
A306	Description	Drawing no	Status
HARNESS REMOTE ACQUSITION SYSTEM A TPM		54 7765 A	DRAFT

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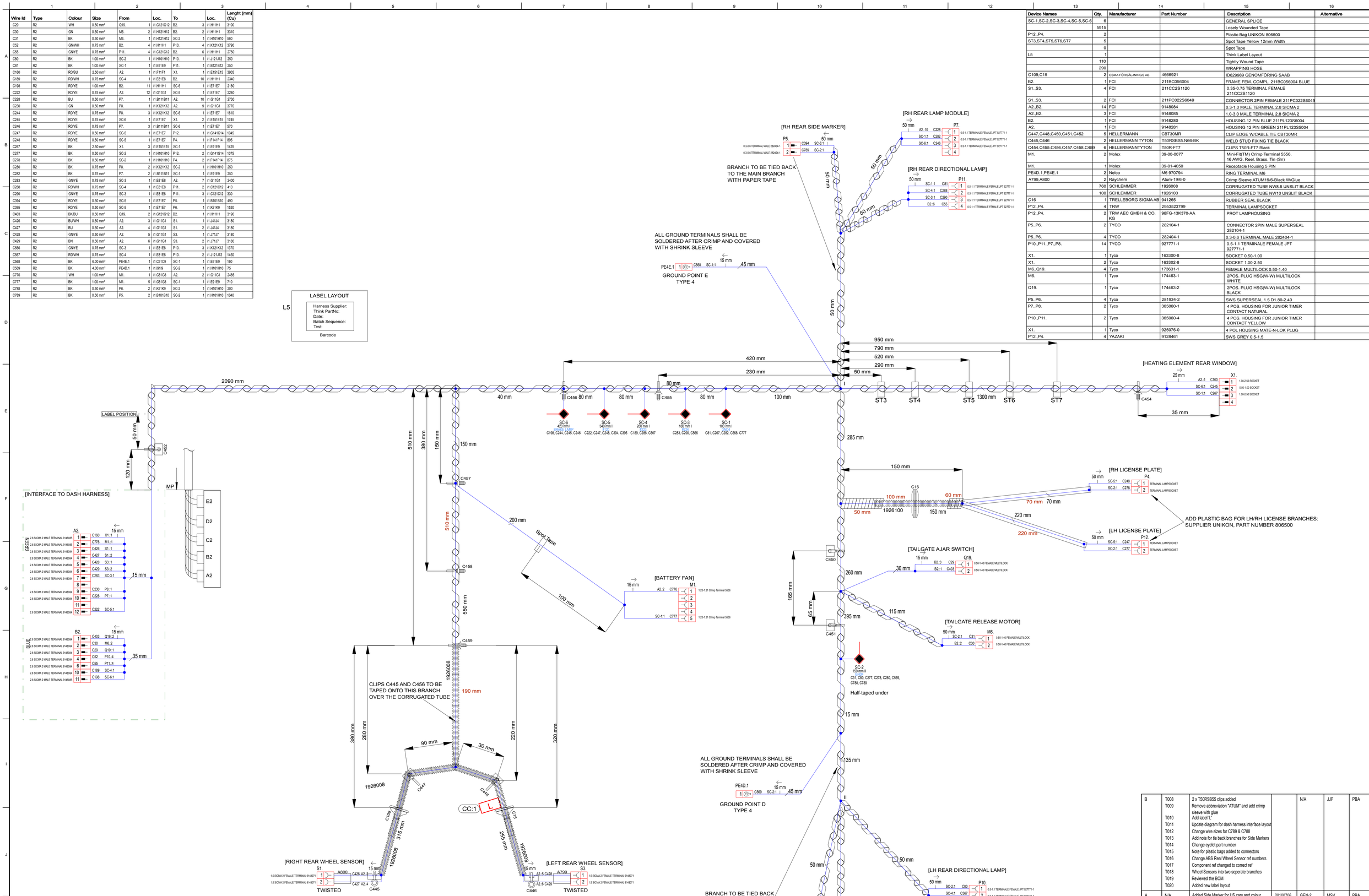
Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
C29	R2	WH	0.50 mm²	Q19.	1	/1.G12/G12	B2.	3	/1.H11/H1	3190
C30	R2	GN	0.50 mm²	M6.	2	/1.H12/H12	B2.	2	/1.H11/H1	3310
C31	R2	BK	0.50 mm²	M6.	1	/1.H12/H12	SC-2	1	/1.H10/H10	560
C52	R2	GN/WH	0.75 mm²	B2.	4	/1.H11/H1	P10.	4	/1.K12/K12	3790
C55	R2	GN/YE	0.75 mm²	P11.	4	/1.C12/C12	B2.	6	/1.H11/H1	2750
C80	R2	BK	1.00 mm²	SC-2	1	/1.H10/H10	P10.	1	/1.J12/J12	250
C81	R2	BK	1.00 mm²	SC-1	1	/1.E9/E9	P11.	1	/1.B12/B12	250
C160	R2	RD/BU	2.50 mm²	A2.	1	/1.F11/F1	X1.	1	/1.E15/E15	3905
C189	R2	RD/WH	0.75 mm²	SC-4	1	/1.E8/E8	B2.	10	/1.H11/H1	2340
C198	R2	RD/YE	1.00 mm²	B2.	11	/1.H11/H1	SC-6	1	/1.E7/E7	2180
C222	R2	RD/YE	0.75 mm²	A2.	12	/1.G1/G1	SC-5	1	/1.E7/E7	2240
C228	R2	BU	0.50 mm²	P7.	1	/1.B11/B1	A2.	10	/1.G1/G1	2730
C230	R2	GN	0.50 mm²	P8.	1	/1.K12/K12	A2.	9	/1.G1/G1	3770
C244	R2	RD/YE	0.75 mm²	P8.	3	/1.K12/K12	SC-6	1	/1.E7/E7	1610
C245	R2	RD/YE	0.75 mm²	SC-6	1	/1.E7/E7	X1.	2	/1.E15/E15	1745
C246	R2	RD/YE	0.75 mm²	P7.	3	/1.B11/B1	SC-6	1	/1.E7/E7	570
C247	R2	RD/YE	0.50 mm²	SC-5	1	/1.E7/E7	P12.	1	/1.G14/G14	1045
C248	R2	RD/YE	0.50 mm²	SC-5	1	/1.E7/E7	P4.	1	/1.F14/F14	895
C267	R2	BK	2.50 mm²	X1.	3	/1.E15/E15	SC-1	1	/1.E9/E9	1425
C277	R2	BK	0.50 mm²	SC-2	1	/1.H10/H10	P12.	2	/1.G14/G14	1075
C278	R2	BK	0.50 mm²	SC-2	1	/1.H10/H10	P4.	2	/1.F14/F14	875
C280	R2	BK	0.75 mm²	P8.	2	/1.K12/K12	SC-2	1	/1.H10/H10	250
C282	R2	BK	0.75 mm²	P7.	2	/1.B11/B1	SC-1	1	/1.E9/E9	250
C283	R2	GN/YE	0.75 mm²	SC-3	1	/1.E8/E8	A2.	7	/1.G1/G1	2400
C288	R2	RD/WH	0.75 mm²	SC-4	1	/1.E8/E8	P11.	2	/1.C12/C12	410
C290	R2	GN/YE	0.75 mm²	SC-3	1	/1.E8/E8	P11.	3	/1.C12/C12	330
C394	R2	RD/YE	0.50 mm²	SC-5	1	/1.E7/E7	P5.	1	/1.B10/B10	490
C395	R2	RD/YE	0.50 mm²	SC-5	1	/1.E7/E7	P6.	1	/1.K9/K9	1530
C403	R2	BK/BU	0.50 mm²	Q19.	2	/1.G1/G1	B2.	1	/1.H11/H1	3190
C426	R2	BU/WH	0.50 mm²	A2.	3	/1.G1/G1	S1.	1	/1.J4/J4	3180
C427	R2	BU	0.50 mm²	A2.	4	/1.G1/G1	S1.	2	/1.J4/J4	3180
C428	R2	GN/YE	0.50 mm²	A2.	5	/1.G1/G1	S3.	1	/1.J7/J7	3180
C429	R2	BN	0.50 mm²	A2.	6	/1.G1/G1	S3.	2	/1.J7/J7	3180
C566	R2	GN/YE	0.75 mm²	SC-3	1	/1.E8/E8	P10.	3	/1.K12/K12	1370
C567	R2	RD/WH	0.75 mm²	SC-4	1	/1.E9/E9	P10.	2	/1.J12/J12	1450
C568	R2	BK	6.00 mm²	PE4E.1	1	/1.C9/C9	SC-1	1	/1.E9/E9	160
C569	R2	BK	4.00 mm²	PE4D.1	1	/1.I9/I9	SC-2	1	/1.H10/H10	75
C776	R2	WH	1.00 mm²	M1.	1	/1.G8/G8	A2.	2	/1.G1/G1	2485
C777	R2	BK	1.00 mm²	M1.	5	/1.G8/G8	SC-1	1	/1.E9/E9	710
C788	R2	BK	0.50 mm²	P6.	2	/1.K9/K9	SC-2	1	/1.H10/H10	200
C789	R2	BK	0.50 mm²	P5.	2	/1.B10/B10	SC-2	1	/1.H10/H10	1040

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
SC-1,SC-2,SC-3,SC-4,SC-5,SC-6	6			GENERAL SPLICE	
	5915			Losely Wounded Tape	
P12.,P4.	2			Plastic Bag UNIKON 806500	
ST3,ST4,ST5,ST6,ST7	5			Spot Tape Yellow 12mm Width	
	0			Spot Tape	
L5	1			Think Label Layout	
	110			Tightly Wound Tape	
	290			WRAPPING HOSE	
C109,C15	2	ESMA FÖRSÄLJNINGS AB	4666921	ID629989 GENOMFÖRING SAAB	
B2.	1	FCI	211BC056004	FRAME FEM. COMPL. 211BC056004 BLUE	
S1.,S3.	4	FCI	211CC2S1120	0.35-0.75 TERMINAL FEMALE 211CC2S1120	
S1.,S3.	2	FCI	211PC022S6049	CONNECTOR 2PIN FEMALE 211PC022S6049	
A2.,B2.	14	FCI	9148084	0.3-1.0 MALE TERMINAL 2.8 SICMA 2	
A2.,B2.	3	FCI	9148085	1.0-3.0 MALE TERMINAL 2.8 SICMA 2	
B2.	1	FCI	9148280	HOUSING 12 PIN BLUE 211PL123S6004	
A2.	1	FCI	9148281	HOUSING 12 PIN GREEN 211PL123S5004	
C447,C448,C450,C451,C452	5	HELLERMANN	CBT30MR	CLIP EDGE W/CABLE TIE CBT30MR	
C445,C446	2	HELLERMANN TYTON	T50RSB55.N66-BK	WELD STUD FIXING TIE BLACK	
C454,C455,C456,C457,C458,C459	6	HELLERMANNTYTON	T50R-FT7	CLIPS T50R-FT7 Black	
M1.	2	Molex	39-00-0077	Mini-Fit(TM) Crimp Terminal 5556, 16 AWG, Reel, Brass, Tin (Sn)	
M1.	1	Molex	39-01-4050	Receptacle Housing 5 PIN	
PE4D.1,PE4E.1	2	Nelco	M6 970794	RING TERMINAL M6	
A799,A800	2	Raychem	Atum-19/6-0	Crimp Sleeve ATUM19/6-Black W/Glue	
	760	SCHLEMMER	1926008	CORRUGATED TUBE NW8.5 UNSLIT BLACK	
	100	SCHLEMMER	1926100	CORRUGATED TUBE NW10 UNSLIT BLACK	
C16	1	TRELLEBORG SIGMA AB	941265	RUBBER SEAL BLACK	
P12.,P4.	4	TRW	2953523799	TERMINAL LAMPSOCKET	
P12.,P4.	2	TRW AEC GMBH & CO. KG	96FG-13K370-AA	PROT LAMPHOUSING	
P5.,P6.	2	TYCO	282104-1	CONNECTOR 2PIN MALE SUPERSEAL 282104-1	
P5.,P6.	4	TYCO	282404-1	0.3-0.6 TERMINAL MALE 282404-1	
P10.,P11.,P7.,P8.	14	TYCO	927771-1	0.5-1.1 TERMINALE FEMALE JPT 927771-1	
X1.	1	Tyco	163300-8	SOCKET 0.50-1.00	
X1.	2	Tyco	163302-8	SOCKET 1.00-2.50	
M6.,Q19.	4	Tyco	173631-1	FEMALE MULTILOCK 0.50-1.40	
M6.	1	Tyco	174463-1	2POS. PLUG HSG(W-W) MULTILOCK WHITE	
Q19.	1	Tyco	174463-2	2POS. PLUG HSG(W-W) MULTILOCK BLACK	
P5.,P6.	4	Tyco	281934-2	SWS SUPERSEAL 1.5 D1.80-2.40	
P7.,P8.	2	Tyco	365060-1	4 POS. HOUSING FOR JUNIOR TIMER CONTACT NATURAL	
P10.,P11.	2	Tyco	365060-4	4 POS. HOUSING FOR JUNIOR TIMER CONTACT YELLOW	
X1.	1	Tyco	925076-0	4 POL HOUSING MATE-N-LOK PLUG	
P12.,P4.	4	YAZAKI	9128461	SWS GREY 0.5-1.5	



Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

GENERAL NOTES:

1. GENERAL TOLERANCE FOR POSITION OF CABLE-TIES: +/- 15mm CABLES C426 + C427, C428 + C429 TWISTED 40 +/- 2 TURNS/m
2. ALL CABLES SHOULD BE MARKED WITH THE PART NUMBER
3. ALL SPOT TAPE TO BE WOUNDED THREE TURNS

CC	Critical Characteristics
1	LABEL ('L') ON LEFT REAR WHEEL SENSOR BRANCH TO BE CHECKED AND CONFIRMED POSTITION DURING THE HARNESS ASSEMBLY PROCESS

Revision	Task Number	Description	Date	Change Req	Prepared	Approved
B	T008	2 x T50RSB55 clips added		N/A	JJF	PBA
	T009	Remove abbreviation "ATUM" and add crimp sleeve with glue				
	T010	Add label 'L'				
	T011	Update diagram for dash harness interface layout				
	T012	Change wire sizes for C789 & C788				
	T013	Add note for tie back branches for Side Markers				
	T014	Change eyelet part number				
	T015	Note for plastic bags added to connectors				
	T016	Change ABS Real Wheel Sensor ref numbers				
	T017	Component ref changed to correct ref				
	T018	Wheel Sensors into two seperate branches				
	T019	Reviewed the BOM				
	T020	Added new label layout				
A	N/A	Added Side Marker for US cars and colour change on wires	20100706	GEN-2	MSV	PBA

HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	Sheet Size: A1	Created: 25/05/2010	Change Date
A306 HARNESS CABIN	Description	Drawing no: 541.3010.B	Status: DRAFT
		Page: 1 of 1	

Plotted: 16.05.2011 13:35 MSV

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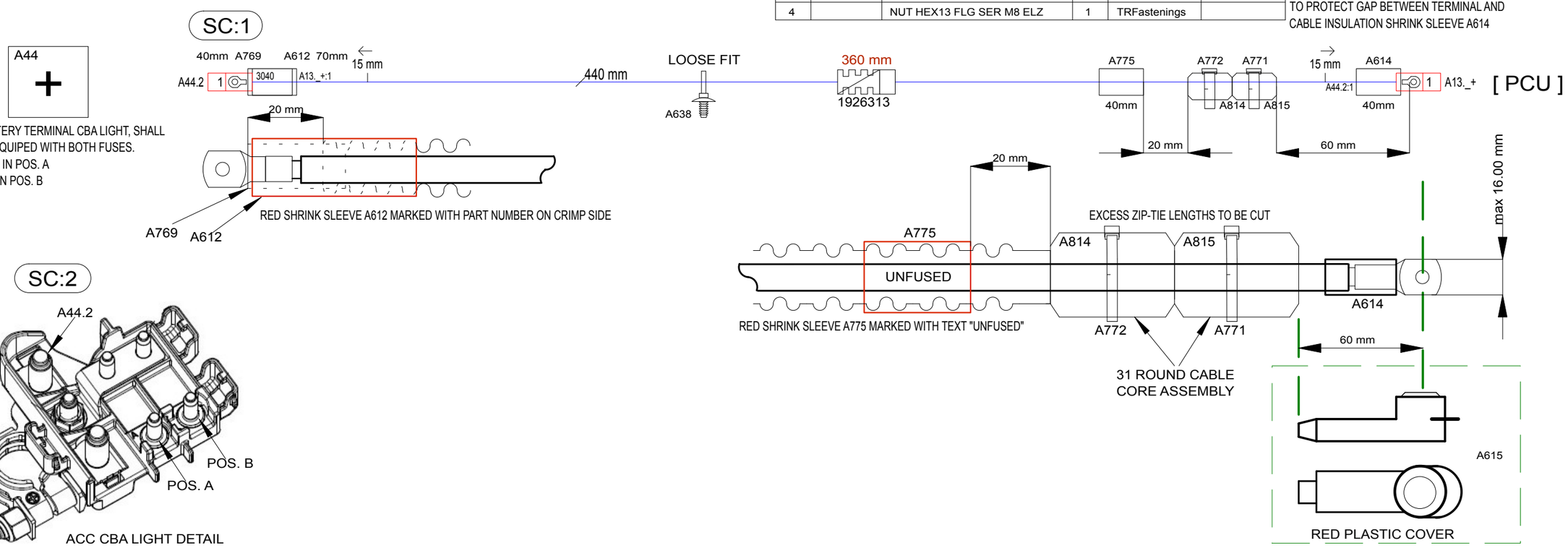
Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
3040	SK90	RD	25.00 mm²	A13._+	1	/1.C61C6	A44.2	1 /1.C21C2	470

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A638	1	HELLERMANN	T50R/FT7	Cable Tie with Pine Tree Clip	
A44	1			Plastic Cover 0300579	
A13._+	1		KR25-6F	RING TERMINAL M6 KR25-6F	
A44.2	1		KR25-8	RING TERMINAL M8	
A814,A815	2	FAIR-RITE PRODUCTS CORP	0431164281	LOWER & BROADBAND FREQUENCIES 1-300MHz (31 MATERIAL)	
A771,A772	2	HELLERMANN TYTON	CABLE TIE T30L SV-500	CABLE TIE T30L SV-500	
A44	1	MTA	0300515 (AQ Part No. 0300575)	CBA light	
A614,A769	2	Raychem	Atum-19/6-0	Crimp Sleeve ATUM19/6-Black W/Glue	
	360	SCHLEMMER	1926313	CORRUGATED TUBE NW13 SLIT BLACK - 1926313	
A612,A775	2	TIBE AB	CPX-160R	Crimp Sleeve CPX-160R	
A615	1	VTE Europe	224N2V02	Red Plastic Cover 224N2V02	

SUPPLEMENTARY PARTS FOR CBA LIGHT ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY	SUPPLIER	SUPPLIER PART NO.
1	543.2131.A	FUSE 125A MIDI	1	MTA	0702125
2	543.2121.A	FUSE 80A MIDI	1	MTA	0702080
3		NUT HEX8 FLG NYLOCK M5 ELZ	4	TRFastenings	
4		NUT HEX13 FLG SER M8 ELZ	1	TRFastenings	

SC:1



SC:2

ACC CBA LIGHT DETAIL

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

SC	Significant Characteristics
1	M8 NUT PULLED WITH TORQUE 20Nm +/-2Nm
2	M5 NUT PULLED WITH TORQUE FROM 3.2Nm TO 4.8Nm

Revision	Task Number	Description	Date	Change Req	Prepared	Approved
B	T001 T002 T003	Added CBA Light detail and SC:2 Add Ferrites on harness BOM corrections		N/A	JJF	PBA
A	N/A	New Distribution Box CBA Light	20100113	V3	MSV	EFP

HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A3 Sheet Size	Created 20091211 Change Date	Page 1 of 1
A306 CABLE AUX BATT (+) TO AUX MAIN FUSE	Description	Drawing no 541.3040.B	Status DRAFT

Plotted: 16.05.2011 13:35 msv

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Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
HFSF814.B	R2	RD	10.00 mm²	RB9	3	/1.E5	Fs103P/S 1S	/1.E2	290
HFSF815	R2	BU	0.75 mm²	-X78.	1	/1.C5	RB9 1	/1.E5	765
HFSF816	R2	BK	0.75 mm²	RB9	2	/1.E5	-X78. 2	/1.C5	765
HFSF817	R2	RD	10.00 mm²	SHFSF-1	1	/1.D8	RB9 5	/1.E5	230
HFSF818	R2	RD	4.00 mm²	SHFSF-1	1	/1.D8	X10 1	/1.D9	80
HFSF819	R2	RD	4.00 mm²	SHFSF-1	1	/1.D8	X11 1	/1.D9	125
HFSF820.A	AWG	BK	AWG 16	SHFSF-2	1	/1.D6	Fs105P/S 1S	/1.D7	70
HFSF820.B	R2	VT	0.75 mm²	SHFSF-2	1	/1.D6	-X78. 3	/1.C5	795
HFSF821	AWG	BK	AWG 16	SHFSF-1	1	/1.D8	Fs105P/S 1P	/1.D7	70
HFSF869	R2	RD	10.00 mm²	Fs103P/S	1P	/1.E2	A44.3 1	/1.G5	700

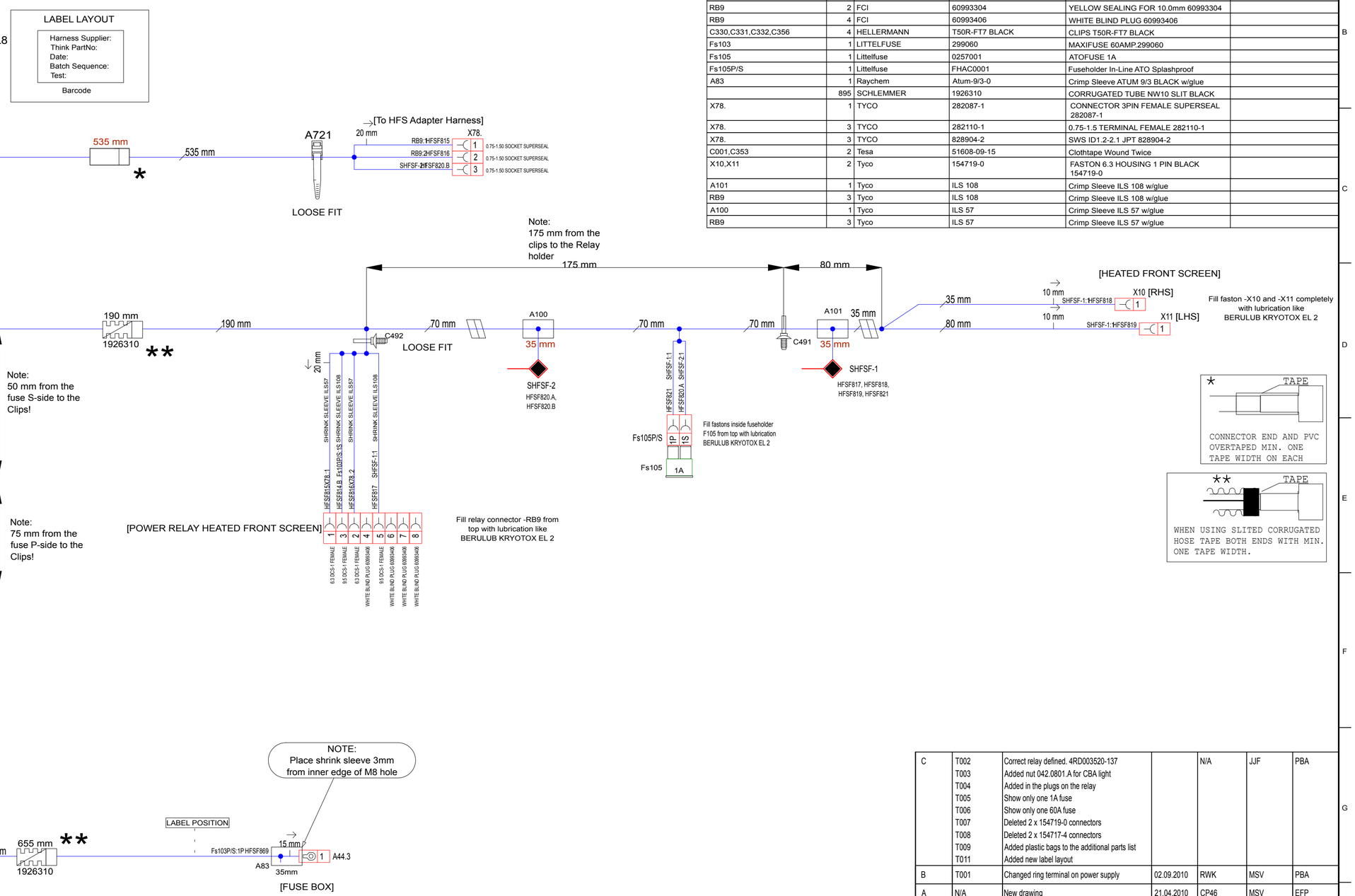
Wires are part of FHAC001 ATO fuseholder

ADDITIONAL PARTS LIST

QTY	SUPPLIER	PART #	DESCRIPTION
1	TR FASTENINGS (BUFAB)	SCREW FUSEHOLDER 145838040301	DIN7985 M4X30 W/TORX PAN HEAD, THINK CPL4 (480 h BEFORE RUST)
1	HELLA	4RD003520-137	RELAY 12V/30A
1	TYCO	1-1414122-0	POWER RELAY 12V
1	LITTELFUSE	297020	MINIFUSE 20A YELLOW
1	TR FASTENINGS	145838060161	PAN TXS30 SCR DIN7985 M6X 16 8.8 ZnCr3+TC Bk
1	HELLERMANN	151-15800	FLAT CABLE CLIPS
1	TR FASTENINGS	042.0801.A	NUT FOR CBA LIGHT

PUT THE HARNESS AND ALL THE ADDITIONAL PARTS IN THE PLASTIC BAG ACCORDING TO THE PACKING INSTRUCTION

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
Fs103P/S	2			A505502 SWS FOR TERMINAL AK03808	
SHFSF-1,SHFSF-2	2			GENERAL SPLICE	
L8	1			Think Label Layout	
	535			Wrapping Hose	
A44.3	1		KR10-8	RING TERMINAL M8	
Fs103P/S	1	AK	AK601 01	Fuseholder In-Line MAXI Splashproof AK	
Fs103P/S	2	AK INDUSTRIES	AK03808	TERMINAL FOR AK60101	
Fs103P/S	2	AK INDUSTRIES	AK05502	SWS FOR TERMINAL AK03808	
Fs105P/S,RB9,X10,X11	8	CARL BECHEM GMBH	KRYOTOX EL 2	BERULUB KRYOTOX EL 2	
A721	1	CHIP MARKETING AB/JETPRESS LIMITED	CAT054-BLK	Strips	
RB9	1	FCI	6 043 10 11	8 SEALED RELAY SOCKET	
RB9	2	FCI	60040031	DCS-1 6.3 0.5-1.0MM	
RB9	2	FCI	60070271	DCS-1 9.5 6.0-10.0MM	
RB9	2	FCI	60992607	GREEN SEALING FOR 0.75mm 60992607	
RB9	2	FCI	60993304	YELLOW SEALING FOR 10.0mm 60993304	
RB9	4	FCI	60993406	WHITE BLIND PLUG 60993406	
C330,C331,C332,C356	4	HELLERMANN	T50R-FT7 BLACK	CLIPS T50R-FT7 BLACK	
Fs103	1	LITTELFUSE	299060	MAXIFUSE 60AMP.299060	
Fs105	1	Littelfuse	0257001	ATOFUSE 1A	
Fs105P/S	1	Littelfuse	FHAC0001	Fuseholder In-Line ATO Splashproof	
A83	1	Raychem	Atum-9/3-0	Crimp Sleeve ATUM 9/3 BLACK w/glue	
	895	SCHLEMMER	1926310	CORRUGATED TUBE NW10 SLIT BLACK	
X78.	1	TYCO	282087-1	CONNECTOR 3PIN FEMALE SUPERSEAL 282087-1	
X78.	3	TYCO	282110-1	0.75-1.5 TERMINAL FEMALE 282110-1	
X78.	3	TYCO	828904-2	SWS ID1.2-2.1 JPT 828904-2	
C001,C353	2	Tesa	51608-09-15	Clothtape Wound Twice	
X10,X11	2	Tyco	154719-0	FASTON 6.3 HOUSING 1 PIN BLACK 154719-0	
A101	1	Tyco	ILS 108	Crimp Sleeve ILS 108 w/glue	
RB9	3	Tyco	ILS 108	Crimp Sleeve ILS 108 w/glue	
A100	1	Tyco	ILS 57	Crimp Sleeve ILS 57 w/glue	
RB9	3	Tyco	ILS 57	Crimp Sleeve ILS 57 w/glue	



Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

ALL CABLES EXCEPT, HFSF820.A, HFSF821 & HFSF869 SHOULD BE MARKED WITH PART NUMBER

Revision	Task Number	Description	Date	Change Req	Prepared	Approved
C	T002	Correct relay defined. 4RD003520-137		N/A	JJF	PBA
	T003	Added nut 042.0801.A for CBA light				
	T004	Added in the plugs on the relay				
	T005	Show only one 1A fuse				
	T006	Show only one 60A fuse				
	T007	Deleted 2 x 154719-0 connectors				
	T008	Deleted 2 x 154717-4 connectors				
	T009	Added plastic bags to the additional parts list				
	T011	Added new label layout				
B	T001	Changed ring terminal on power supply	02.09.2010	RWK	MSV	PBA
A	N/A	New drawing	21.04.2010	CP46	MSV	EFP

Document type: HARNESS	Prepared by: PBR	File name: A306 MY2011 Pre-series	THINK
Approved by	Sheet Size: A2	Created: 20091215	Change Date: 20100716
Description: A306 KIT HARNESS HEATED FRONT SCREEN (HFS)	Drawing no: 541.3060.C	Status: DRAFT	Page 1 of 1

Plotted: 16.05.2011 13:35 msv

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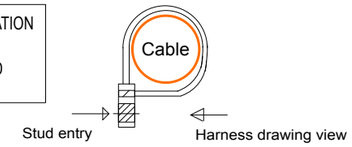
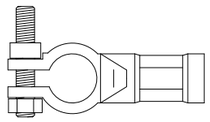
Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
G675	GROUND BRAID2	BARE	25.00 mm²	PE0A.1	1	A13._-	1	
G672	SK90	BK	25.00 mm²	PE0A.	1 /1.C6	A33.	1 /1.C2	770
G673	SK90	BK	25.00 mm²	A33.	1 /1.C2	PE0A.1	1 /1.D4	240

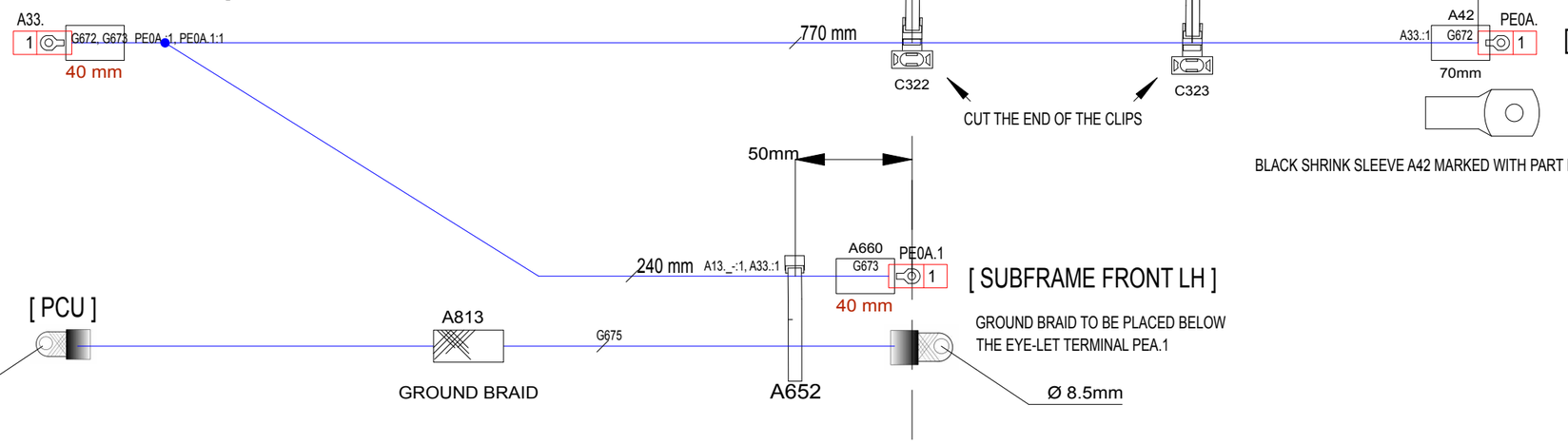
Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A33.	1			BOLT 1308831	
A42	1			Crimp Sleeve without Glue	
A33.	1			NUT 948329	
A33.	1		966819	RING TERMINAL	
PE0A.	1		KR25-6F	RING TERMINAL M6 KR25-6F	
PE0A.1	1		KR25-8	RING TERMINAL M8	
A652	1	HELLERMANN TYTON	CABLE TIE T30L SV-500	CABLE TIE T30L SV-500	
C322,C323	2	HELLERMANNTYTON	133-00391	CLIPS T50SOSWSP5E-2	
A813	1	MERICON	558241	GROUND BRAID TIN PLATED CU BRAID 25MM2 W VINYL, L=330mm, M10/M8	
A660	1	Tyco	ILS 95	Crimp Sleeve ILS 95 w/glue	

FASTENERS AND COVERS ARE GENERALLY THE BASE FOR SPECIFICATION IN THE THINK DRAWING. OTHER MAKES MAY BE SELECTED IF PROPERTIES FROM SPECIFIED PRODUCT IS KEEPT AND DOCUMENTED PRIOR TO RELEASE.





[AUX BATTERY TERMINAL]



[CHASSIS BUMPER]

BLACK SHRINK SLEEVE A42 MARKED WITH PART NUMBER ON CRIMP SIDE

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20

General tolerance for positioning of cable ties and clips: ±5 mm

Revision	Task Number	Description	Date	Change Req	Prepared	Approved
B	T001	Changed the ground braid layout and removed the eyelets		N/A	JJF	PBA
A	N/A	New ground cable, adjusted lengths etc	14.01.2010	V3	MSV	EFP

HARNESS (Document type)		THINK	
MSV (Prepared by)			
A306 MY2011 Pre-series (File name)			
Approved by	A3 (Sheet Size)	Created 11/12/2009 (Change Date)	Page 1 of 1
A306 (Description)		Drawing no 541.3070.A	Status R
CABLE BATT (-) TO PCU AND GND			

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Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
1	R2	BK	10.00 mm²	A17.A 1	/1.B21B2	PE4A.4 1	/1.E21E2	550
2	R2	RD	10.00 mm²	A17.A 2	/1.B21B2	A44.8 1	/1.B51B5	350

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
L10	1			Think Label Layout	
A631	1	CHIP MARKETING AB/JETPRESS LIMITED	CAT054-BLK	Strips	
PE4A.4	1	G&HARTMAN	977971	RING TERMINAL M6 6.1-12.0	
A44.8	1	MTA	1605820	10-16 Ring Terminal M5 MTA Cu-Sn	
A148,A149	2	Raychem	Atum-12/4-0	Crimp Sleeve ATUM 12/4-BLACK w/glue	
	300	SCHLEMMER	1926310	CORRUGATED TUBE NW10 SLIT BLACK	
A17.A	2	TYCO	1544966-1	7.0-10.0 TERMINAL FEMALE 1544966-1	
A17.A	2	TYCO	1544970-3	SWS 10mm2 1544970-3	
A17.A	1	TYCO	1801398-1	CONNECTOR 2PIN FEMALE 1801398-1	

LABEL LAYOUT

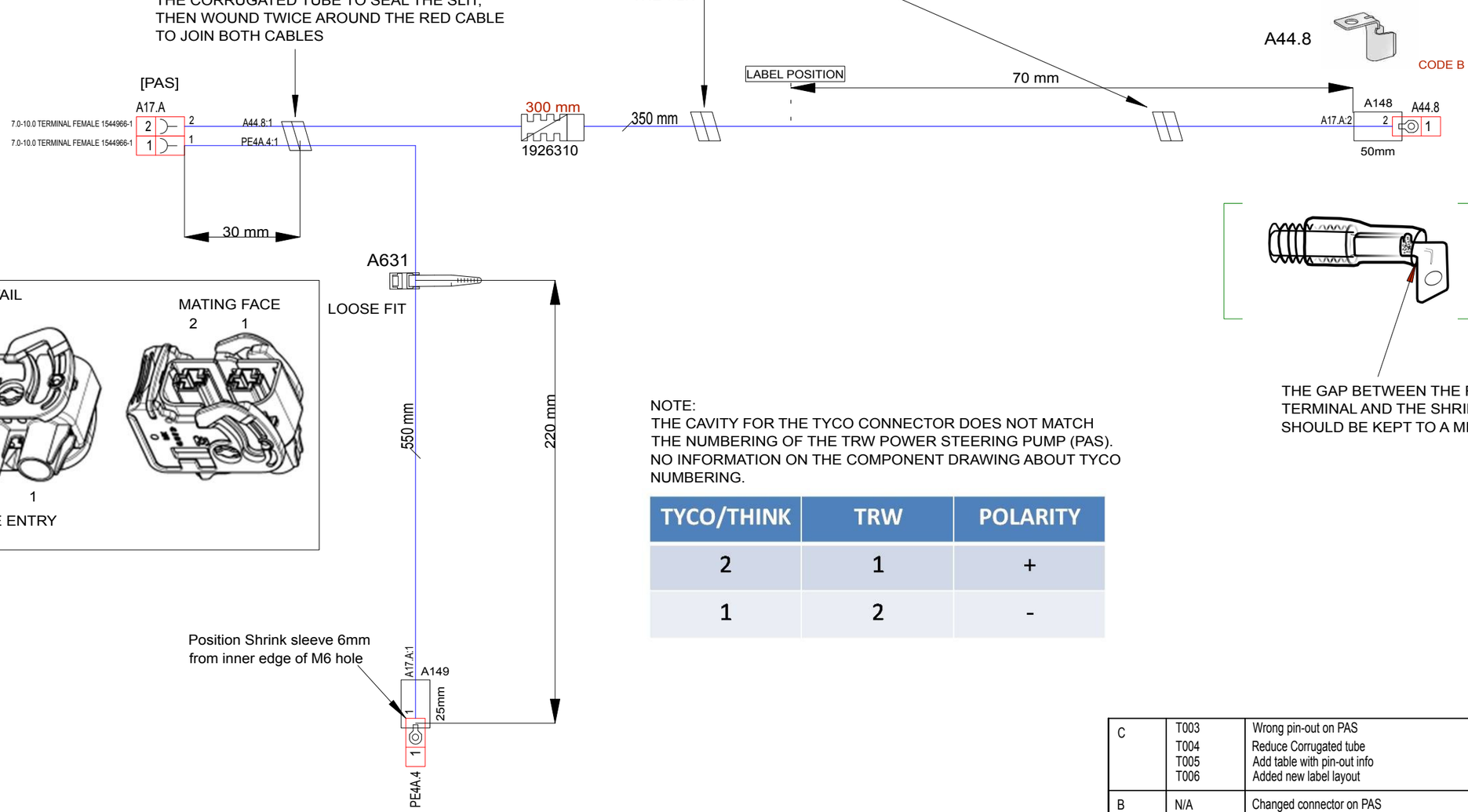
L10

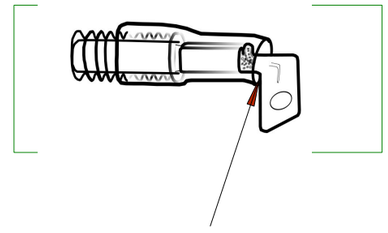
Harness Supplier:
Think PartNo:
Date:
Batch Sequence:
Test:

Barcode

TAPE TO BE WOUND INTIALLY TWICE AROUND THE CORRUGATED TUBE TO SEAL THE SLIT, THEN WOUND TWICE AROUND THE RED CABLE TO JOIN BOTH CABLES

TAPE THE END AND THE MIDDLE OF THE CORRUGATED TUBE TO HOLD THE SLIT





THE GAP BETWEEN THE RING-TERMINAL AND THE SHRINK SLEEVE SHOULD BE KEPT TO A MINIMUM

NOTE:
THE CAVITY FOR THE TYCO CONNECTOR DOES NOT MATCH THE NUMBERING OF THE TRW POWER STEERING PUMP (PAS). NO INFORMATION ON THE COMPONENT DRAWING ABOUT TYCO NUMBERING.

TYCO/THINK	TRW	POLARITY
2	1	+
1	2	-

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20

General tolerance positioning of cable ties and clips: ±5 mm

Revision	Task Number	Description	Date	Change Req	Prepared	Approved
C	T003 T004 T005 T006	Wrong pin-out on PAS Reduce Corrugated tube Add table with pin-out info Added new label layout		N/A	JJF	PBA
B	N/A	Changed connector on PAS	20100706	Gen-2	MSV	PBA
A	N/A	GEN-2 Version	20100129	V3	MSV	EFP

HARNESS (Document type)		THINK	
JJF (Prepared by)			
A306 MY2011 Pre-series (File name)			
Approved by	A3 (Sheet Size)	Created 20100511 (Change Date)	Page 1 of 1
A306 (Description)		Drawing no 541.3080.C	Status DRAFT
CABLE PAS PUMP TO POWER			

Plotted: 16.05.2011 13:35 msv

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Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
SHIELD	MODEM CABLE	BARE	AWG 24	BLUNT_CUT1 1	/1.C5	DSUB SHIELD	/1.C1	980
DSUB2	MODEM CABLE	BN	AWG 24	DSUB 2	/1.C1	SIADIS. 1	/1.C6	1000
DSUB3	MODEM CABLE	BU	AWG 24	DSUB 3	/1.C1	SIADIS. 2	/1.C6	1000
DSUB5	MODEM CABLE	OG	AWG 24	DSUB 5	/1.C1	SIADIS. 4	/1.C6	1000
DSUB7	MODEM CABLE	BU/WH	AWG 24	DSUB 7	/1.C1	SIADIS. 3	/1.C6	1000

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
SIADIS.	4			0.3-0.6 TERMINAL FEMALE 282403-1	
BLUNT_CUT1	1			BLUNT CUT	
DSUB	1	ELFA	44-027-06	D-Sub connector 9 contacts; FEMAL connector; top view	
SIADIS.	1	TYCO	282088-1	CONNECTOR 4PIN FEMALE SUPERSEAL 282088-1	

THIS IS ONLY FOR DIAGNOSTIC AND PRODUCT DEVELOPMENT.

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20

General tolerance positioning of cable ties and clips: ±5 mm

Rev.	Description	Change Req.	Date	Prepared	Approved
A	New harness	GEN_2	20100223	MSV	-

Document type: HARNESS			
Prepared by: MSV			
File name: A306 MY2011 Pre-series			
Approved by	Sheet Size: A3	Created 23/02/2010 Change Date	Page 1 of 1
Description: A306 SIADIS/CHAS DIAG AND PROGR CABL	Drawing no: 74L3095.A	Status: DRAFT	

Plotted: 16.05.2011 13:35 msv

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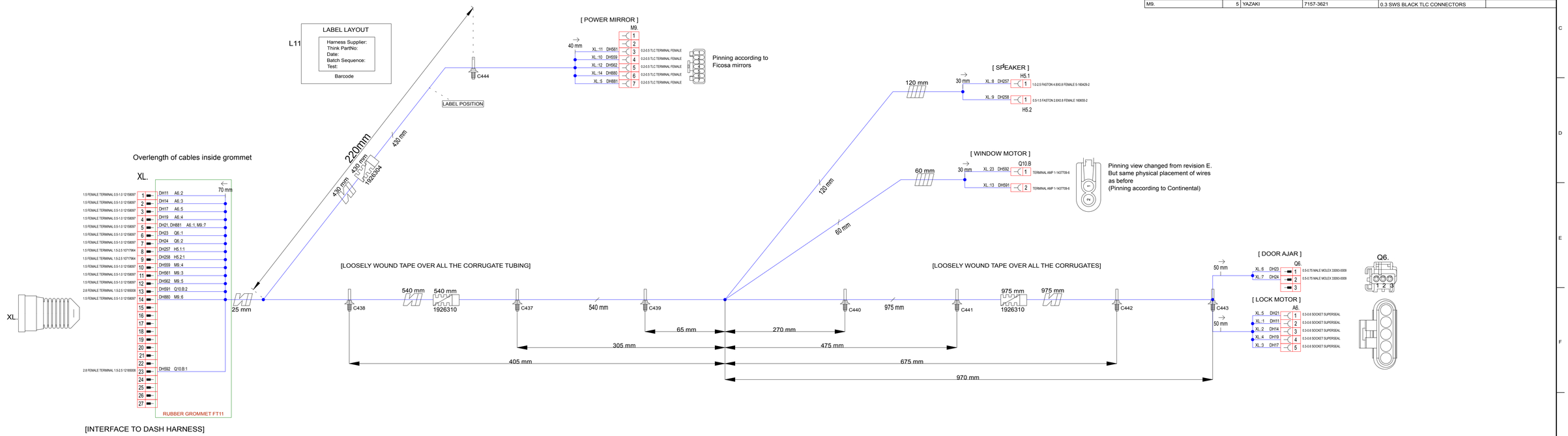
Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
DH11	R2	GNYE	0.50 mm²	A6.	2	/1.F141F14	XL.	1	/1.E31E3	1660
DH14	R2	BUYE	0.50 mm²	A6.	3	/1.F141F14	XL.	2	/1.E31E3	1660
DH17	R2	GN	0.50 mm²	A6.	5	/1.F141F14	XL.	4	/1.E31E3	1660
DH19	R2	GY	0.50 mm²	A6.	4	/1.F141F14	XL.	3	/1.E31E3	1660
DH21	R2	BK	0.50 mm²	A6.	1	/1.F141F14	XL.	5	/1.E31E3	1660
DH23	R2	GN	0.50 mm²	Q6.	1	/1.E141E14	XL.	6	/1.E31E3	1660
DH24	R2	BK	0.50 mm²	Q6.	2	/1.E141E14	XL.	7	/1.E31E3	1660
DH257	R2	WH/GN	1.50 mm²	H5.1	1	/1.D111D11	XL.	8	/1.E31E3	785
DH258	R2	GN	1.50 mm²	XL.	9	/1.E31E3	H5.2	1	/1.D111D11	785
DH559	R2	BUYE	0.50 mm²	M9.	4	/1.C71C7	XL.	10	/1.E31E3	565
DH561	R2	BN	0.50 mm²	XL.	11	/1.E31E3	M9.	3	/1.C71C7	565
DH562	R2	YE	0.50 mm²	XL.	12	/1.E31E3	M9.	5	/1.C71C7	565
DH591	R2	GY	1.50 mm²	Q10.B	2	/1.E111E11	XL.	13	/1.F31F3	725
DH592	R2	YE	1.50 mm²	XL.	23	/1.F31F3	Q10.B	1	/1.D111D11	725
DH880	R2	RD/BU	0.50 mm²	M9.	6	/1.C71C7	XL.	14	/1.F31F3	565
DH881	R2	BK	0.50 mm²	XL.	5	/1.E31E3	M9.	7	/1.D71D7	565

NOTES:
1. All connector diagrams are showing the wire side entry
2. Cables DH257 + DH258 Twisted 40 +/- 2 Turns/m

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
L11	1			Think Label Layout	
XL.	2	DELPHI	10717964	FEMALE TERMINAL 1.5-2.5 SEALED	
XL.	11	DELPHI	12158097	FEMALE TERMINAL 0.5-1.0 SEALED	
XL.	2	DELPHI	12185008	FEMALE TERMINAL 1.5-2.5 SEALED	
H5.2	1	DSG-CANUSA	CPX355-48	SHRINK TUBE CPX355-48-0030	
H5.1	1	DSG-CANUSA	CPX355-64	SHRINK TUBE CPX355-64-0030	
Q6.	1	ENGINEERED PLASTIC COMP. INC	F57B-14A459-HA	PROT HOUSING 3 PIN	
XL.	1	ESMA	15344011	CONNECTOR MALE 27 PIN ESMA 15344011	
XL.	1	ESMA	FT11	RUBBER GROMMET FT11	
C437,C438,C439,C440,C441,C442 C443,C444	8	HELLERMANNTYTON	T50R-FT7	CLIPS T50R-FT7 Black	
Q6.	2	MOLEX	33093-0009	0.5-0.75 TERMINAL MALE	
	430	SCHLEMMER	1926304	CORRUGATED TUBE BLACK Ø 7.1/5.0 SLIT	
	1515	SCHLEMMER	1926310	CORRUGATED TUBE BLACK Ø 12.7/10.1 SLIT	
	2150	TESA	51608-09-15	TAPE TEXTILE TESA 51608-09-15	
Q10.B	2	TYCO	1-1437709-6	1.5-2.5 TERMINAL FEMALE 1-1437709-6	
Q10.B	2	TYCO	1-1437713-3	SWS ID 2.2-2.4 1-1437713-3	
H5.2	1	TYCO	160655-2	0.5-1.5 FASTON 2.8X0.8 FEMALE 160655-2	
A6.	1	TYCO	282089-1	CONNECTOR 5PIN FEMALE 282089-1	
A6.	5	TYCO	282403-1	0.3-0.6 SOCKET SUPERSEAL	
Q10.B	1	TYCO	5-1437710-5	CONNECTOR FEMALE 2PIN 1.6 SYSTEM	
H5.1	1	TYCO	5-160429-2	1.0-2.5 FASTON 4.8X0.8 FEMALE 5-160429-2	
A6.	5	TYCO	828921-1	SWS ID 1.2-2.0 SUPERSEAL 828921-1	
M9.	5	YAZAKI	7115-1591	0.2-0.5 TLC TERMINAL FEMALE	
M9.	1	YAZAKI	7129-6071	HOUSING FEMALE 7PIN TLC SERIES	
M9.	5	YAZAKI	7157-3621	0.3 SWS BLACK TLC CONNECTORS	



Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20

General tolerance positioning of cable ties and clips: ±5 mm

Revision	Task Number	Description	Date	Change Req	Prepared	Approved
B	T001 T002	Swap wires DH17 & DH19 and correct pin out Added new labael layout		N/A	JJF	PBA
A	N/A	New Harness for Gen-2 with new door ajar switch	09.06.2010	Gen-2	MSV	PBA

Document type: HARNESS	Prepared by: MSV		
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Description: A306 HARNESS DOOR CONVENIENCE	Drawing no: 541.3200.B	Page: 1 of 1	Status: DRAFT

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LOOSE FIT
190 mm
C17
100 mm
480 mm
halftape under
480 mm
350 mm
C18
LOOSE FIT
3
C17
XI
10 mm
190 mm
SD-20
190 mm XI
BRAKE
D362, D364, D365, D363
60 mm
SD-68
135 mm XIV
ESP_CAN_H
D658H, D912H, D657H
385 mm
35 mm
SD-69
100 mm XIV
ESP_CAN_L
D658L, D912L, D657L
50 mm
SD-76
50 mm XIV
HOT ALWAYS
D605, D602, D617
50 mm
XIV
50 mm
65 mm
15 mm
SD-33
65mm XIV
ENGINE_CAN_L
D654L, D867L, D855L, D923L
35 mm
SD-37
100 mm XIV
VEHICLE_CAN_H
D654H, D867H, D855H, D923H
15 mm
50 mm
MP
i4.A5A5
160 mm
50 mm
SD-70
50 mm XI
BRAKE
D915, D715, D600, D154, D919, D836
A628
LOOSE FIT
150 mm
50 mm
SD-67
100 mm XI
CLIMATE WAKE UP
D911, D842, D910
600 mm
240 mm
250 mm
SD-19
50 mm XIII
VEHICLE_CAN_H
D438H, D797H, D902H
30 mm
SD-15
20 mm XIII
VEHICLE_CAN_L
D438L, D797L, D902L
20 mm
XIII
C20
80 mm
180 mm
200 mm
50 mm
7
[HEATER]
CTC4
SD-54:1 D834
SD-10:1 D835
SD-8:1 D296
SD-70:1 D836
D2:6 D837
D2:9 D838
D2:7 D839L
D2:8 D839H
SD-15:1 D797L
SD-19:1 D797H
RB8:B1 D785
SD-67:1 D911
RB4:10 D843
RB3:10 D68
Q22:-1 D826
RB4:5 D825
D2:17 D815
RB1:10 D849
A180.B:10 D853
A1:18 D443
D2:11 D537
D2:12 D841
RB1:2 D716
PE4C:1:1
RB1:7 D238
0.50-0.75 SOCKET TERMINAL MQS
PE4C:1:1 2.5-4.0 Q-LOCK FEMALE
[SRS ECU]
A16.B
B
D339 S8.A:2
D338 S8.A:1
D358 A29.:1
D357 A29.:2
D353 A22.1:1
D352 A22.1:2
D341 A31.:2
D342 A31.:1
20 mm
160 mm
140 mm
250 mm
A16.A
D336 S8.A:4
D337 S8.A:3
D354 A22.2:2
D355 A22.2:1
D314 A35.X:18
D356 Q21.:6
D438H SD-19:1
D438L SD-15:1
D798 Q21.:4
D153 FB1:22S
A
340 mm
220 mm
IX
[POWER WINDOW SW. L.]
Ink marked on the connector: L
Q10.A
XL-13 D591
SD-13:1 D586
SD-52:1 D588
SD-52:1 D590
SD-52:1 D589
XL-23 D592
1.5-2.5 TERMINALE FEMALE JPT 927768-1
0.5-1.1 TERMINALE FEMALE JPT 927771-1
130 mm
[POWER WINDOW SW. R.]
Q15.A
XR-13 D596
SD-13:1 D587
SD-52:1 D593
SD-52:1 D595
SD-52:1 D594
XR-23 D597
100 mm
SD-52
200 mm IX
FUSE
D588, D589, D590, D593, D594, D595, D879
300 mm
200 mm
60 mm
170 mm
250 mm
[GEAR SELECTOR]
A7.
SD-9:1
D328 C1:18
D329 C1:17
D330 C1:16
D331 C1:15
D195 FB1:30S
D43 SD-4:1
30 mm
[LOUDSPEAKER HANDSFREE]
H7.1
H7.2
D866 C2:9
D868 C2:10
Faston 1 Pin Insulation Sleeve 2.8 Clear
Faston 1 Pin Insulation Sleeve 2.8 Clear
50 mm
250 mm
15 mm
D341+D342 AND D357+D358 COVERED WITH YELLOW PVC Part No: 90-06-07-Y
1
C21
D
130 mm
1085 mm
1926304
1926307
C463
C464
C465
LOOSE FITx2
LOOSE FITx2
C462
[DRIVER SEAT BELT TENSIONER]
A31.
D342 A16.B:18
D341 A16.B:17
SD-40:1
D33 A180.A:5
25 mm
LABEL
D
[CORRUGATED TUBE FASTENED IN COVER 1452020-1 WITH T18R SV-1000]
C24
160 mm
760 mm
[PASS. SEAT BELT TENSIONER]
A29.
A16.B:9 D358
A16.B:10 D357
SD-40:1 D893
A180.A:22 D894
SD-40:1
A180.A:4 D890
0.5 FEMALE TERMINAL
P
LABEL
CORRUGATED TUBE FASTENED IN COVER 1452020-1 WITH T18R SV-1000
[POWER MIRROR SWITCH]
Q17.
D559 XL:10
D560 XR:10
D561 SD-12:1
SD-47:1, SD-52:1
D555 XR:11
D557 FB1:33S
D564 XL:11
50 mm
25MM SHRINK SLEEVE ON ALL TERMINAL CRIMPS
[HANDBRAKE]
Q13.1
D365
Q13.2
SD-20:1
SD-40:1
0.5-1.0 FAST ON 6.3
[YAW RATE SENSOR]
A183.X1
SD-40:1 D662
SD-69:1 D658L
SD-68:1 D658H
FB1:37S D914
0.2-0.5 MQS RECEPTACLE FEMALE 962885
15 mm
[CTC 4]
MP
CABLE-TIE T30L SV-500
9128331-40
8
25
9
[INTERFACE TO AIC HARNESS]
[INTERFACE TO RAC+ HARNESS]
[INTERFACE TO CABIN HARNESS]
[INTERFACE TO CAN HARNESS]
1.5 SICMA 2 FEMALE TERMINAL 9140071
2.8 SICMA 2 FEMALE TERMINAL 9140079
2.8 SICMA 2 FEMALE TERMINAL 9140080
D621 RB8/A5
D628 RB8:C5
D632 A1:15
D837 CTC4:5
D838L CTC4:7
D839H CTC4:8
D838 CTC4:6
SD-10:1 SD-9:1
D537 CTC4:23
D841 CTC4:24
D820 Q22:.8
D815 CTC4:19
SD-47:1
/RED
D804 SD-10:1
D805 FB1:21S
D923L SD-33:1
D923H SD-37:1
D808 SD-74:1
D864 SD-29:1
D865 SD-36:1
D856 SD-62:1
D866 H7.1:1
D868 H7.2:1
D860 Q23.:4
D842 SD-67:1
D859 Q23.:2
D898L A180.A:20
D898H A180.A:10
/YELLOW
D403 SD-9:1
D30 GEM BR:2
D29 GEM BR:4/5
D52 GEM BL
D55 GEM BR:3
D189 RB7:D5
D194 FB1:30P
/BLUE
D160 RB3:7
D776 FB1:26S
D426 D1:11
D427 D1:10
D428 D1:9
D429 D1:8
D283 Q7.:2
D230 FB1:48S
D228 FB1:47S
/GREEN
D222 SD-59:1
35 mm
60 mm
85 mm
110 mm
9148221
9148265
9148268
9148269
9148272
9148273
MP
[INTERFACE TO LEFT DOOR]
XL
D31 SD-36:1
D34 SD-36:1
D37 SD-7:1
D19 GEM:PR:5
D21 SD-40:1
D23 GEM:PL:22
D24 SD-40:1
D297 A15:B:95
D298 A15:B:96
D299 Q17:1
D294 Q17:7
D262 SD-12:1
D591 Q10.A:1
D862 FB1:14S
Q10.A:7
D592
1.5 FEMALE TERMINAL 0.5-1.0 T018R0
2.8 FEMALE TERMINAL 1.5-2.5 927768-1
Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

CABLES TWISTED 40±2 TURNS/M
D255+D256, D257+D258, D336+D337, D338+D339, D341+D342, D352+D353, D354+D355, D357+D358, D426+D427, D428+D429, D434H+D434L, D438H+D438L, D654H+D654L, D657H+D657L, D658H+D658L, D797H+D797L, D806H+D806L, D839H+D839L, D855H+D855L, D867H+D867L, D898H+D898L, D902H+D902L, D903H+D903L, D912H+D912L

2
CABLES TWISTED 30±2 TURNS/M
D866+D868

CABLES TO BE COVERED BY YELLOW PVC-TUBE

Revision	Task Number	Description	Date	Change Req	Prepared	Approved
B	T021 T022 T025 T026 T027 T028 T030 T031	Shrink Tube only, no soldering for ground terminals Add new label format Changed Fuse 37 to a 10A in assembly view Replaced micro relay holder, current part E387-E Relay-21 now showing as always on Remove cover from drawing (BOM Review) Show the correct fuse box assembly Remove mini diodes from fuse diagram		N/A	JJF	PBA
A	N/A	New Model year and LHD Added	04.11.2010	LHD	MSV	PBA

HARNESS	Document type
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A306 MY2011 Pre-series	File name
Approved by	A1 Sheet Size
A306	Description
HARNESS DASH LHD	Drawing no 541.4020.B
Created 20100708	Change Date 20101104
Page 1 of 6	Status DRAFT

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ALL GROUND LUGS TO BE COVERED BY SHRINKSLEEVE 25MM LONG

[GROUND LHS TYPE 1+2] [GROUND LHS TYPE 4]

PE1&2B.1 PE1&2B.2 PE4B.1 PE4B.2

SI-46.1 D920 D747 SI-46.1 SI-47.1 D921 D750 SI-47.1

80 mm 80 mm

YELLOW GREEN

490 mm

490 mm

[HEAD LAMP SWITCH] FOR DTRL AND FOG

Q7. 50 mm

0.5 FEMALE TERMINAL	1	D918	B1:16
0.75-1.0 FEMALE TERMINAL 918804	2	D283	A2-7
	3		
0.5 FEMALE TERMINAL	4	D612	FB1:57P
	5		
0.75-1.0 FEMALE TERMINAL 918510	6	D271	Q2..8
0.75-1.0 FEMALE TERMINAL 918510	7	D234	FB1:32S
0.75-1.0 FEMALE TERMINAL 918510	8	D147	SD-3:1
0.5 FEMALE TERMINAL	9	D296	SD-8:1
0.5 FEMALE TERMINAL	10	D301	SD-47:1
0.75-1.0 FEMALE TERMINAL 918510	11	D162	FB1:14S
0.75-1.0 FEMALE TERMINAL 918510	12	D272	Q20..2
0.75-1.0 FEMALE TERMINAL 918804	13	D225	SD-71:1
	14		
	15		
0.5 FEMALE TERMINAL	16	D223	SD-59:1

[LIFTGATE RELEASE]

Q3. 50 mm

0.5-1.1 TERMINALE FEMALE JPT 927771-1	1		
	2		
	3		
0.5-1.1 TERMINALE FEMALE JPT 927771-1	4		SD-48:1, SD-53:1
0.5-1.1 TERMINALE FEMALE JPT 927771-1	5	D398	SD-8:1
	6		
0.5-1.1 TERMINALE FEMALE JPT 927771-1	7	D401	GEM:IPR:16

SD-48:1, SD-53:1

[VCU]

A180.A A180.B A180.C

SD-47 100 mm VI GND D82, D281, D301, D380, D521

SD-48 60 mm VI GND D74, D75, D321, D323, D335, D381, D520

SD-64 200 mm VI VEHICLE CAN_H D654H, D902H, D903H

SD-63 160 mm VI VEHICLE CAN_L D654L, D902L, D903L

SD-66 60 mm VI KEY RUN D165, D166, D907

SD-40 30 mm II GND D21, D24, D73, D320, D625, D749, D893, D962

SD-62 60 mm VII POWER SUPPLY D856, D897, D900

SD-8 265 mm III ILLUMINATION D254, D293, D294, D295, D298, D299, D300, D398

SD-5 25 mm III KEY RUN D88, D89, D91, D93, D94, D95, D509, D556

SD-59 40mm III LIGHT SLIDEBRING D46, D222, D223

SD-38 80 mm III KEY RUN D137, D138, D139, D142, D598, D613, D884, D144, D803

SD-11 200 mm VI POWER SUPPLY_H D778, D801, D814

SD-55 200 mm VII POWER D623, D883, D154

SD-3 220 mm II KEY RUN D147, D148, D269

SD-60 270 mm II GND D607, D609, D886

UNIT	CONECTOR	FUNCTION
1	4	12 V
2	3	-
3	2	GND
4	1	CAN HIGH
5	8	-
6	7	-
7	6	-
8	5	CAN LOW

Table: Steering Angle Sensor SAS

NOTE: SEE ILLUSTRATION BELOW

A802

[INSTRUMENT CLUSTER]

A11.X

Cable tie T30L SV-500

[STEERING ANGLE SENSOR]

A182.X

[TURN SIGNAL SWITCH]

Q2. 50 mm

0.5 FEMALE TERMINAL	1	D47	GEM:IPL-17
0.75-1.0 FEMALE TERMINAL 918804	2	D74	SD-48:1
0.5 FEMALE TERMINAL	3	D49	GEM:IPL-19
0.5 FEMALE TERMINAL	4	D72	GEM:IPR:22
0.5 FEMALE TERMINAL	5	D75	SD-48:1
0.75-1.0 FEMALE TERMINAL 918804	6	D148	SD-3:1
0.75-1.0 FEMALE TERMINAL 918804	7	D270	RB7:A1
0.75-1.0 FEMALE TERMINAL 918804	8	D271	Q7..6
0.75-1.0 FEMALE TERMINAL 918804	9	D607	SD-60:1
	10		

[KEY SWITCH]

Q20. 50 mm

4.1-6.0 STD TIMER	1	D88	SD-5:1
0.75-1.0 FEMALE TERMINAL 918804	2	D272	Q7..12
0.5 FEMALE TERMINAL	3	D626	SD-4:1
4.1-6.0 STD TIMER	4	D85	FB1:1S
0.5 FEMALE TERMINAL	5	D41	GEM:IPL-8
0.75-1.0 FEMALE TERMINAL 918804	6	D86	FB1:31P
0.5-1.0 STD TIMER	7	D735	FB1:40P

C32

TAPE 20mm UNDER 98AG-14A390-VD

MP

[INDICATOR BAR]

A35.X

[RADIO]

A15.A [GREY] A15.B [BROWN]

C122 LOOSE FIT

C31 LOOSE FIT

[PASS. AIRBAG STAGE 1] [BLACK CODE A]

A22.2

C123 C55 C124 Loose Fit

TAPE TO COVER END OF CONNECTOR AND PVC-TUBE

[PASS. AIRBAG STAGE 2] [BROWN CODE B]

A22.1

D352+D353 AND D354+355 COVERED WITH YELLOW PVC Part No: 90-06-07-Y

[CLOCK SPRING]

S8.A

YELLOW PVC Part No: 90-06-07-Y

[WIPER SWITCH]

A3.

[PATS TRANSCEIVER]

A36.X

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

CABLES TWISTED 40±2 TURNS/M
D255+D256, D257+D258, D336+D337, D338+D339, D341+D342, D352+D353, D354+D355, D357+D358, D426+D427, D428+D429, D434H+D434L, D438H+D438L, D654H+D654L, D657H+D657L, D658H+D658L, D797H+D797L, D806H+D806L, D839H+D839L, D855H+D855L, D867H+D867L, D898H+D898L, D902H+D902L, D903H+D903L, D912H+D912L

CABLES TWISTED 30±2 TURNS/M
D866+D868

CABLES TO BE COVERED BY YELLOW PVC-TUBE

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	MSV		Prepared by		
	A306 MY2011 Pre-series		File name		
	Approved by	A1	Sheet Size	Created 20100708 Change Date 20101104	Page 2 of 6
	A306	HARNESS DASH LHD	Description	Drawing no 541.4020.B	Status DRAFT

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[DISTRIBUTION CONNECTOR B+]

A14.B

[ILLUM. POWER SOCKET]

[POWER SOCKET]

G1.1

[SW. HEATED FRONT SCREEN] Q22

[SW. ASSISTANCE] Q23

[SW. HAZARD SWITCH] Q18

[TPMS RESET] Q32.1 Q32.2

[BMI RESET] Q4.2 Q4.1

Q21.

[PASS. AIRBAG DISABLE SWITCH]

[DIAGNOSTIC]

Cable

Stud entry

Harness drawing view

LOOSE FIT

C325

ANTENNA1

D512 GEM.IPR..23

SD-54 30 mm X HOT ALWAYS D96, D545, D774, D834, D870, D871, D872

SD-14 110 mm XI HOT ALWAYS D100, D102, D128, D922, D631

SD-45 99mm XII HOT ALWAYS D125, D125A, D125B, D241, D125C

SD-21 70 mm XII HOT ALWAYS D84, D84A, D84B, D84C, D812

SD-18 55 mm XII HOT ALWAYS D28, D2C, D104, D112, D115, D510, D2A

SD-16 45 mm XII HOT ALWAYS D4, D105, D615, D652, D630

SD-65 60 mm XII HOT ALWAYS D108, D117, D118, D608, D905

SD-56 60 mm XII HOT ALWAYS D67, D423, D541

SD-22 150 mm XII HOT ALWAYS D136, D136A, D136B, D136C

SD-24 120 mm XII HOT ALWAYS D511, D511B, D603, D235, D630, D631, D511A

SD-25 90 mm XII HOT ALWAYS D3, D106, D109, D110A, D110B, D111, D604

SD-34 40 mm X VEHICLE_CAN_L D867L, D434L, D809H

SD-26 80 mm X VEHICLE_CAN_H D867H, D434H, D809L

[FUSEHOLDER FB1]

WIRES ROUTED IN TO FUSE-HOLDER ACC, TO FIGURE

SPOT-TAPE TO SEPARATE BRANCHES

ASSEMBLY FUSE-HOLDER VIEWED FROM FUSE-SIDE

ASSEMBLY FUSE-HOLDER VIEWED FROM CABLE-SIDE

* These are additional circuits and not part of the base vehicle

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20

CABLES TWISTED 40±2 TURNS/M
D255+D256, D257+D258, D336+D337, D338+D339, D341+D342, D352+D353, D354+D355, D357+D358, D426+D427, D428+D429, D434H+D434L, D438H+D438L, D654H+D654L, D657H+D657L, D658H+D658L, D797H+D797L, D806H+D806L, D839H+D839L, D855H+D855L, D867H+D867L, D898H+D898L, D902H+D902L, D903H+D903L, D912H+D912L

CABLES TWISTED 30±2 TURNS/M
D866+D868

CABLES TO BE COVERED BY YELLOW PVC-TUBE

HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	Sheet Size A1	Created 20100820 Change Date 20101104	Page 3 of 6
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Plotted: 16.05.2011 13.35 msv

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MODULE, ASSEMBLY, E-6038 INCLUDES:
E-379/E-386 (4x)
E-380/E-387 (4x)
E-453 (1x)
E-819 (1x)
4RD003520137 (6x)
4RD007814017 (9x)

6

[RELAY BRACKET]

RB1
[RLY1-CABIN BLOWER SPEED 2]
[RLY2-CABIN BLOWER]

RB2
[RLY3-RADIATOR FULL SPEED]
[RLY4-RADIATOR LOW SPEED]

RB3
[RLY5-HEATED REAR WINDOW]
[RLY6-RUN/START]

RB4
[RLY7-COND. FAN A/C ONLY]
[RLY8-HEATED FRONT SCREEN]

RB5
[RLY11-SPARE]
[RLY12-SPARE]
[RLY13-SPARE]
[RLY14-SPARE]

RB6
[RLY15-WIPER MOTOR PARK]
[RLY16-WIPER MOTOR]
[RLY17-BATTERY SAVER]
[RLY18-ALARM HORN]

RB7
[RLY19-HIGH BEAM]
[RLY20-LOW-BEAM]
[RLY21-DTRL REAR]
[RLY22-REVERSE LAMP]

RB8
[RLY23-BATTERY CHILL 1]
[RLY24-CABIN W.PUMP]
[RLY25-BATTERY CHILL 2]
[RLY26-COOL. W. PUMPS]

SD-35 20 mm IV HOT RUN/IV D126, D742, D743
SD-43 KEY RUN D205, D206, D734
SD-42 KEY RUN D200, D201, D733
SD-44 KEY RUN D34, D35, D731
SD-46 KEY RUN D180, D181, D264
SD-71 GND4 D225, D888, D916

SD-32 50 mm II GND3 /1.A16A16
SD-58 200 mm V KEY RUN D184 Di-4 CATHODE
SD-57 100 mm V KEY RUN Di-4 ANODE
D174 947778 D184 D4
SD-9 50 mm V GND3 D22, D26, D403, D522, D827, D858
SD-23 100 mm V GND3 D9, D273, D304, D523, D611, D548
SD-53 200mm V GND4 D802, D848, D860
SD-10 100 mm VIII GND3 D8, D99, D130, D179, D721, D748, D804, D824, D835, D921
SD-74 50 mm VIII KEY RUN D808, D904, D919
SD-29 140 mm VIII UNLOCK 2 ROW LOCKS D10, D11, D12, D864
SD-36 170 mm VIII LOCK 4+4 LOCKS D13, D14, D15, D865
SD-17 80 mm VIII D16, D17, D18
SD-6 40 mm VII GND4 D674, D736, D737, D750
/2.C16C16
/3.D16D16
ANTENNA1#1

[INTERFACE TO TO FRONT HARNESS]
E2 /WHITE
D1 /RED
C1 /YELLOW
B1/BLUE
A1 /GREEN

[SUNROOF] FB1:36S D828 SD-53:1 D848 X15 AWG16-20 Female 070 MLC
[HEATED FRONT SCREEN] PE4C.4:1 D822 RB4:4 D823 X84 3.0-6.0 FASTON FEMALE
[INTERIOR DOME LAMP] GEM.BL:3 D53 RB6:C5 D601 SD-53:1 D802 X61 0.5-1.0 MICROTIMER 1.40 - 2.10

ALL GROUND LUGS TO BE COVERED BY SHRINKSLEEVE 25MM LONG
RED: SD-10:1 D748 A15.A-A8 D259 SD-9:1 D522 Q32.2:1 D908 → PE1&2C.1, PE3C.1, PE1&2C.2, PE3C.2
YELLOW: CTC4:26 RB4:3 D809 SD-23:1 D523 → PE4C.1, PE4C.3, PE4C.2
GREEN: X84:1 D822 SD-53:1 D880 SD-52:1 D879 → PE4C.4, PE4C.5, PE4C.6

LABEL LAYOUT
L12
Harness Supplier: Think PartNo:
Date:
Batch Sequence:
Test:
Barcode

[GEM]
GEM.BR /GREEN
GEM.BL /GREY
GEM.IPR /BROWN
GEM.IPL /BEIGE
GEM.EN /BLUE
LABEL HERE
LOOSE FIT
HOUSING TO BE FIT ON CLIP F57B-14A163-MA ON BRANCH NEXT TO GEM
SIADIS C1:11 D483 C1:12 D484 C1:13 D485 C1:14 D486
FB1:53S D806 → AUX_EQUIPMENT_12V_POWER

[TPMS] A190
SD-74:1 D904
SD-10:1 D921
SD-37:1 D855H
SD-33:1 D855L
0.2-0.5 MQS RECEPTACLE FEMALE 962885
TPMS Connector to be Tied-back (with paper tape) to the main branch

[INTERFACE TO RIGHT DOOR] XR
SD-29:1 D12
SD-36:1 D15
SD-17:1 D18
GEM.IPR:1 D20
SD-9:1 D22
GEM.IPL:21 D25
SD-9:1 D26
A15.B:B3 D255
A15.B:B4 D256
Q17.:2 D560
Q17.:5 D565
SD-12:1 D563
Q15.A:1 D596
FB1:24S D881
Q15.A:7 D597
1.5 FEMALE TERMINAL 0.5-1.0 12158097
2.8 FEMALE TERMINAL 1.5-2.5 12185008

FULLTAPED OVER 40 mm
ARROW ON GROMMET SHALL POINT BETWEEN POS. 26 AND 27 IN CONNECTOR

[GEM] 120 mm, 40 mm, 190, 35, 35, 35, 35, 120, 50, IPR, IPL, EN, BR, BL

[EXTERNAL ANTENNA] EXTERNAL ANTENNA SPOT-TAPED OUTSIDE MAIN BRANCH. MIN. DISTANCE BETWEEN SPOT-TAPES: 150MM

[RELAY-BRACKET VIEWED FROM WIRE-SIDE PIN-NUMBERS ACC, TO FIGURE]
RLY12 RLY14 RLY16 RLY18 RLY20 RLY22 RLY24 RLY26
RLY11 RLY13 RLY15 RLY17 RLY19 RLY21 RLY23 RLY25
RLY2 RLY4 RLY6 RLY8 RLY1 RLY3 RLY5 RLY7

[RELAY-BRACKET VIEWED FROM RELAY-SIDE RELAYS ASSEMBLED ACC. TO FIGURE]
RLY1 RLY3 RLY5 RLY7 RLY2 RLY4 RLY6 RLY8 RLY11 RLY13 RLY15 RLY17 RLY19 RLY21 RLY23 RLY25 RLY12 RLY14 RLY16 RLY18 RLY20 RLY22 RLY24 RLY26

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

CABLES TWISTED 40±2 TURNS/M
D255+D256, D257+D258, D336+D337, D338+D339, D341+D342, D352+D353, D354+D355, D357+D358, D426+D427, D428+D429, D434H+D434L, D438H+D438L, D654H+D654L, D657H+D657L, D658H+D658L, D797H+D797L, D806H+D806L, D839H+D839L, D855H+D855L, D867H+D867L, D898H+D898L, D902H+D902L, D903H+D903L, D912H+D912L

2

CABLES TWISTED 30±2 TURNS/M
D866+D868

CABLES TO BE COVERED BY YELLOW PVC-TUBE

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A306 HARNESS DASH LHD	Description	Drawing no 541.4020.B	Status DRAFT

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Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
D2A	R2	RD	2.50 mm²	SD-18	1	/3.D113D11	A14.B	13
D2B	R2	RD	2.50 mm²	SD-18	1	/3.D113D11	A14.B	11
D2C	R2	RD	2.50 mm²	SD-18	1	/3.D113D11	A14.B	12
D3	R2	RD	1.50 mm²	SD-25	1	/3.C113C11	FB1	16P
D4	R2	RD	1.50 mm²	SD-16	1	/3.D113D11	FB1	15P
D5	R2	RD	1.50 mm²	FB1	16S	/3.E73E7	GEM.EN	5
D6	R2	RD	1.50 mm²	FB1	15S	/3.E73E7	GEM.EN	1
D8	R2	BK	0.75 mm²	SD-10	1	/4.F84F8	GEM.IPL	1
D9	R2	BK	1.50 mm²	SD-23	1	/4.E104E10	GEM.BL	5
D10	R2	GN/YE	0.50 mm²	GEM.BR	16	/4.F104F10	SD-29	1
D11	R2	GN/YE	0.50 mm²	SD-29	1	/4.G84G8	XL	1
D12	R2	GN/YE	0.50 mm²	SD-29	1	/4.G84G8	XR	1
D13	R2	BU/YE	0.50 mm²	GEM.BL	19	/4.F124F12	SD-36	1
D14	R2	BU/YE	0.50 mm²	SD-36	1	/4.G84G8	XL	2
D15	R2	BU/YE	0.50 mm²	SD-36	1	/4.G84G8	XR	2
D16	R2	GN	1.00 mm²	GEM.BR	3	/4.F94F9	SD-17	1
D17	R2	GN	0.50 mm²	SD-17	1	/4.G84G8	XL	3
D18	R2	GN	0.50 mm²	SD-17	1	/4.G84G8	XR	3
D19	R2	GY	0.50 mm²	XL	4	/1.G11G1	GEM.IPR	5
D20	R2	GY	0.50 mm²	XR	4	/4.I124I12	GEM.IPR	1
D21	R2	BK	0.50 mm²	XL	5	/1.G11G1	SD-40	1
D22	R2	BK	0.50 mm²	XR	5	/4.I124I12	SD-9	1
D23	R2	GN	0.50 mm²	GEM.IPL	22	/4.G124G12	XL	6
D24	R2	BK	0.50 mm²	XL	7	/1.G21G2	SD-40	1
D25	R2	YE	0.50 mm²	GEM.IPL	21	/4.G124G12	XR	6
D26	R2	BK	0.50 mm²	SD-9	1	/4.E94E9	XR	7
D29	R2	WH	0.50 mm²	B2	3	/1.I151I15	GEM.BR	15
D30	R2	GN	1.00 mm²	GEM.BR	2	/4.F94F9	B2	1
D33	R2	YE	0.50 mm²	A180.A	5	/2.B62B6	A31.	6
D34	R2	GN	1.50 mm²	SD-44	1	/4.E44E4	GEM.EN	2
D35	R2	GN	1.50 mm²	RB6	B4	/4.B54B5	SD-44	1
D36	R2	BU	1.00 mm²	GEM.IPL	4	/4.G114G11	A3.	10
D37	R2	BN/BK	1.00 mm²	GEM.IPL	5	/4.G114G11	A3.	2
D38	R2	BN/BK	1.50 mm²	A3.	2	/2.J92J9	A1	6
D39	R2	GN	0.50 mm²	GEM.IPR	4	/4.G94G9	A3.	1
D40	R2	GY	0.50 mm²	GEM.IPR	21	/4.G104G10	RB6	B2
D41	R2	YE	0.50 mm²	Q20.	5	/2.I828	GEM.IPL	8
D42	R2	RD/GY	0.50 mm²	SD-4	1	/1.G41G4	GEM.IPL	15
D43	R2	RD/GY	0.50 mm²	SD-4	1	/1.G41G4	A7.	7
D44	R2	RD/GY	0.50 mm²	D1	7	/4.A144A11	SD-4	1
D45	R2	BU	0.50 mm²	A180.A	8	/2.B62B6	GEM.IPL	9
D46	R2	RD/YE	0.50 mm²	SD-59	1	/2.C152C15	GEM.IPL	14
D47	R2	GY	0.50 mm²	GEM.IPL	17	/4.G124G12	Q2.	1
D48	R2	GN	0.50 mm²	Q2.	3	/2.G82G8	GEM.IPL	19
D51	R2	GN/YE	0.50 mm²	Q18.	1	/2.E23E2	GEM.IPL	23
D52	R2	GN/WH	0.75 mm²	GEM.BL	2	/4.F114F11	B2	4
D53	R2	BU/WH	0.75 mm²	GEM.BL	3	/4.F114F11	X61.	1
D54	R2	YE/BU	0.50 mm²	GEM.BR	1	/4.F94F9	RB6	D2
D55	R2	GN/YE	0.75 mm²	B2	6	/1.I151I15	GEM.BR	4
D62	R2	BU	0.75 mm²	GEM.EN	3	/4.G134G13	B1	1
D63	R2	GN	0.75 mm²	GEM.EN	4	/4.G134G13	B1	18
D67	R2	GN	0.75 mm²	Q18.	5	/2.E23E2	GEM.EN	4
D75	R2	BU/YE	0.50 mm²	A11.X	5	/2.E62E6	GEM.IPL	2
D76	R2	BU/WH	0.50 mm²	SD-56	1	/D.I153D15	GEM.IPL	16
D77	R2	VT	0.50 mm²	RB3	10	/4.D14D1	CTC4	16
D78	R2	GN/RD	0.50 mm²	SD-3	1	/2.F102F10	Q7.	8
D79	R2	GN/RD	0.50 mm²	SD-3	1	/2.F102F10	Q2.	6
D80	R2	RD/GN	0.50 mm²	C1	8	/4.A124A12	FB1	35S
D81	R2	RD/GN	0.50 mm²	FB1	35S	/3.E103E10	A180.A	12
D82	R2	RD/GN	0.75 mm²	FB1	37S	/3.E103E10	D1	1
D83	R2	RD/GN	1.00 mm²	FB1	22S	/3.E83E8	A16.A	24
D84	R2	RD/GN	0.50 mm²	SD-70	1	/1.C91C9	SD-55	1
D85	R2	BU	0.50 mm²	RB2	1	/4.C24C2	A1	14
D86	R2	BN	2.50 mm²	RB2	4	/4.C24C2	Q2.	4
D87	R2	BU	0.50 mm²	RB8	D2	/4.E54E5	A1	12
D88	R2	WH/RD	0.75 mm²	RB8	D5	/4.E54E5	A1	11
D89	R2	RD	2.50 mm²	RB3	9	/4.D14D1	FB1	4S
D90	R2	RD/BU	2.50 mm²	A2	1	/1.I151I15	RB3	7
D91	R2	RD	1.50 mm²	FB1	20S	/3.E83E8	A15.A	A4
D92	R2	RD	1.00 mm²	FB1	14S	/3.E73E7	Q7.	11
D93	R2	RD	2.50 mm²	G1.1	1	/3.B23B2	FB1	38S

Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
D164	R2	GN	0.50 mm²	A180.A	11	/2.B72B7	A35.X	14
D165	R2	RD	0.50 mm²	SD-66	1	/2.C82C8	FB1	21S
D166	R2	RD	0.50 mm²	A11.X	31	/2.E62E6	SD-66	1
D169	R2	RD	1.50 mm²	FB1	41S	/3.E103E10	RB6	C3
D171	R2	YE/BU	0.50 mm²	S8.A	13	/2.J92J9	RB6	D2
D172	R2	RD	1.50 mm²	FB1	42S	/3.E103E10	RB6	D3
D173	R2	YE/GN	1.00 mm²	A1	10	/4.A154A15	RB6	D5
D174	R2	RD/YE	1.50 mm²	FB1	8S	/3.E63E6	SD-57	1
D175	R2	RD/YE	1.50 mm²	FB1	8S	/3.E63E6	RB6	B5
D178	R2	RD/WH	1.50 mm²	RB6	B3	/4.B54B5	A3.	7
D179	R2	BK	1.50 mm²	SD-10	1	/4.F84F8	RB6	A4
D180	R2	RD/YE	0.50 mm²	SD-46	1	/4.E44E4	RB6	A5
D181	R2	RD/YE	1.50 mm²	FB1	43S	/3.E103E10	SD-46	1
D182	R2	BN	0.50 mm²	A1	9	/4.A154A15	RB6	A2
D183	R2	RD	1.50 mm²	SD-58	1	/4.A84A8	A1	4
D184	R2	RD/YE	0.75 mm²	FB1	44S	/3.E103E10	RB7	D3
D185	R2	RD/WH	0.75 mm²	B2	10	/1.I151I15	RB7	D5
D186	R2	RD	1.50 mm²	FB1	30S	/3.E93E9	B1	12
D187	R2	RD/YE	0.75 mm²	FB1	30S	/3.E93E9	B1	12
D188	R2	WH/GN	1.50 mm²	SD-42	1	/4.E44E4	FB1	49P
D189	R2	WH/GN	1.50 mm²	SD-42	1	/4.E44E4	FB1	50P
D190	R2	WH/GN	1.50 mm²	B1	17	/4.A144A14	FB1	49S
D191	R2	BU/GN	1.50 mm²	B1	14	/4.A144A14	FB1	50S
D192	R2	BU/GN	0.50 mm²	Q35.	6			
D193	R2	WH	1.50 mm²	FB1	51P	/3.G113G11	SD-43	1
D194	R2	WH	1.50 mm²	SD-43	1	/4.E44E4	FB1	52P
D195	R2	WH/GN	1.50 mm²	B1	7	/4.A144A14	FB1	51S
D196	R2	WH	1.50 mm²	B1	4	/4.A134A13	FB1	52S
D197	R2	WH/RD	0.50 mm²	FB1	30S	/3.E93E9	B1	12
D198	R2	WH/GN	1.50 mm²	SD-42	1	/4.E44E4	FB1	49P
D199	R2	WH/GN	1.50 mm²	SD-42	1	/4.E44E4	FB1	50P
D200	R2	WH/GN	1.50 mm²	B1	17	/4.A144A14	FB1	49S
D201	R2	WH/GN	1.50 mm²	B1	14	/4.A144A14	FB1	50S
D202	R2	BU/GN	1.50 mm²	Q35.	6			
D203	R2	BU/GN	1.50 mm²	B1	14	/4.A144A14	FB1	50S
D204	R2	BU/GN	0.50 mm²	Q35.	6			
D206	R2	WH	1.50 mm²	SD-43	1	/4.E44E4	FB1	52P
D207	R2	WH	1.50 mm²	B1	7	/4.A144A14	FB1	51S
D208	R2	WH	1.50 mm²	B1	4	/4.A134A13	FB1	52S
D222	R2	RD/YE	0.75 mm²	A2	12	/1.J151J15	SD-59	1
D223	R2	RD/YE	0.75 mm²	SD-59	1	/2.C152C15	Q7.	16
D225	R2	RD/GN	0.50 mm²	SD-51	1	/4.F54F5	Q7.	13
D226	R2	RD/GN	0.75 mm²	FB1	47P	/3.G113G11	FB1	48P
D228	R2	BU	0.75 mm²	FB1	47S	/3.E13E11	A2	10
D229	R2	BU	0.75 mm²	FB1	48S	/3.E13E11	A2	9
D230	R2	GN	0.75 mm²	FB1	48S	/3.E13E11	A2	9
D231	R2	GN	0.75 mm²	B1	10	/4.A144A14	FB1	48S
D234	R2	RD/GN	0.75 mm²	FB1	32S	/3.E93E9	Q7.	7
D235	R2	RD	2.50 mm²	SD-24	1	/3.B113B11	A14.B	9
D238	R2	YE/RD	4.00 mm²	CTC4	27	/1.G111G11	RB1	7
D240	R2	RD	0.75 mm²	RB8	B5	/4.D24D2	A1.	3
D241	R2	RD	2.50 mm²	SD-45	1	/3.D103D10	FB1	10P
D242	R2	RD	0.75 mm²	SD-8	1	/2.C142C14	A15.A	A6
D243	R2	WH/GN	1.50 mm²	A15.B	B3	/2.H142H14	XR	8
D244	R2	YE/BU	0.50 mm²	RB6	D2	/4.C54C5	740	
D246	R2	GN	0.75 mm²	SD-8	1	/2.H82H8	C2	6
D247	R2	GY	0.50 mm²	GEM.IPR	19	/4.G104G10	A35.X	11
D248	R2	GN	0.50 mm²	Q2.	7	/2.H82H8	RB7	A1
D249	R2	BU	0.50 mm²	SD-8	1	/2.C142C14	A11.X	11
D250	R2	BU/GY	0.75 mm²	SD-8	1	/2.C142C14	Q7.	6
D251	R2	GN	0.50 mm²	Q20.	2	/2.H82H8	Q7.	12
D252	R2	GN/WH	0.75 mm²	SD-8	1	/2.C142C14	A11.X	15
D253	R2	BU/WH	0.75 mm²	SD-8	1	/2.C142C14	A180.A	18
D254	R2	GY	0.50 mm²	SD-8	1	/2.C142C14	A11.X	11
D255	R2	BU/GY	0.50 mm²	SD-8	1	/2.C142C14	Q7.	9
D256	R2	GN	1.50 mm²	A15.B	B4	/2.H142H14	XR	9
D257	R2	YE/GN	1.50 mm²	A15.B	B5	/2.H142H14	XR	6
D258	R2	YE	1.50 mm²	A15.B	B6	/2.H142H14	XL	9
D259	R2	BK	1.50 mm²	A15.A	A8	/2.H132H13	PE3C.1	1
D260	R2	BK	1.50 mm²	A3.	3	/2.H82H8	SD-47	1
D261	R2	BK	1.50 mm²	A3.	9	/2.J102J10	A1	8
D262	R2	RD/YE	1.50 mm²	A3.	9	/2.J102J10	A1	8
D263	R2	RD/GN	1.50 mm²	A1	7	/4.A154A15	A3.	8
D264	R2	RD/YE	1.50 mm²	SD-46	1	/4.E44E4	A3.	6
D265	R2	BK	0.75 mm²	SD-24	1	/3.B113B11	A14.B	9
D266	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	8
D267	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	9
D268	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	6
D269	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	7
D270	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	8
D271	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	9
D272	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	10
D273	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	11
D274	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	12
D276	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	13
D277	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	14
D278	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	15
D279	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	16
D280	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	17
D281	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	18
D282	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	19
D283	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	20
D284	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	21
D285	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	22
D286	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	23
D287	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	24
D288	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	25
D289	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	26
D290	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	27
D291	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	28
D292	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	29
D293	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	A180.B	30
D294	R2	GY	0.50 mm²	SD-8	1	/2.C142C14	A11.X	11
D295	R2	BU/OG	0.50 mm²	SD-8	1	/2.C142C14	Q7.	9
D296	R2	GY	0.50 mm²	SD-8	1	/2.C142C14	Q7.	10
D297	R2	BK	2.50 mm²	G1.1	2	/3.B23B2	SD-23	1
D298	R2	GY	0.50 mm²	SD-8	1	/2.C142C14	A11.X	12
D299	R2	GY	0.50 mm²	SD-8	1	/2.C142C14	A11.X	13
D300	R2	BK	2.50 mm²	SD-8	1	/2.C142C14	Q7.	11
D301	R2	BK	0.50 mm²	Q7.	10	/2.D22D2	SD-47	1
D302	R2	BK	2.50 mm²	SD-23	1	/4.E104E10	995	
D303	R2	BK	2.50 mm²	A35.X	5	/2.G112G11	A180.B	14
D304	R2	GY	0.50 mm²	A35.X	3	/2.G112G11	A180.B	16
D305	R2	BU	0.50 mm²	A35.X	3	/2.G112G11	A180.B	15
D306	R2	GN/WH	0.50 mm²	A35.X	2	/2.G112G11	A180.B	1
D307	R2	GY	0.50 mm²	A35.X	1	/2.G112G11	A180.B	2
D308	R2	BU	0.50 mm²	A35.X	1	/2.G112G11	A180.B	3
D309	R2	BU	0.50 mm²	A35.X	4	/2.G112G11	A180.B	4
D310	R2	GN/WH	0.50 mm²	A35.X	2	/2.G112G11	A180.B	1
D311	R2	BU	0.50 mm²	A35.X	1	/2.G112G11	A180.B	2
D312	R2	BN	0.50 mm²	A35.X	6	/2.G112G11	A180.B	13
D313	R2	GN/YE	0.50 mm²	A35.X	7	/2.G112G11	A180.C	9
D314	R2	ON	0.50 mm²	A35.X	16	/2.G122G12	A16.A	17
D315	R2	YE	0.50 mm²	A35.X	9	/2.G122G12	A180.C	3
D316	R2	BU	0.50 mm²	A35.X	10	/2.G122G12	A180.C	2
D317	R2	GY	0.50 mm²	A35.X	12	/2.G122G12	A180.C	8
D318	R2	GY	0.50 mm²	A35.X	16	/2.G122G12	SD-40	1
D320	R2	BK	0.50 mm²	A180.A	14	/2.B72B7	SD-48	1
D321	R2	BK	0.50 mm²	A180.C	7	/2.B102B10	A36.X	1
D322	R2	WH	0.35 mm²	A36.X	2	/2.J112J11	SD-48	1
D323	R2	WH	0.35 mm²	A180.A	6	/2.B62B6	A36.X	3
D324	R2	WH	0.35 mm²	A180.A	7	/2.B62B6	A36.X	4
D325	R2	WH	0.35 mm²	A7.	2	/1.H21H2	C1	18
D326	R2	WH	0.35 mm²	A7.	3	/1.H21H2	C1	17
D327	R2	WH	0.35 mm²	A7.	4	/1.H21H2	C1	16
D328	R2	BN	0.50 mm²	A7.	5	/1.H21H2	C1	15
D329	R2	BU	0.50 mm²	A7.	3	/1.H21H2	C1	17
D330	R2	GN	0.50 mm²	A7.	4	/1.H21H2	C1	16
D331	R2	BN	0.50 mm²	A7.	5	/1.H21H2	C1	15
D335	R2	BK	0.50 mm²	S8.A	14	/2.J92J9	SD-48	1
D336	R2	GY/OG	0.50 mm²	S8.A	4	/2.J82J8	A16.A	3
D337	R2	GY/WH	0.50 mm²	A16.A	4	/1.E61E6	S8.A	3
D338	R2	YE/WH	0.50 mm²	S8.A	3	/2.J82J8	A16.B	1
D339	R2	RD/OG	0.50 mm²	A16.B	1	/1.B61B6	S8.A	2
D341	R2	LTGN/RD	0.50 mm²	A31.	2	/1.J21J2	A16.B	17
D342	R2	LTGN/BK	0.50 mm²	A16.B	18	/1.C61C6	A31.	1
D350	R2	OG/GN	0.50 mm²	A11.X	17	/2.E72E7	A180.C	5
D352	R2	YE/BK	0.50 mm²	A16.B	12	/1.C61C6	A22.1	2
D353	R2	YE/GN	0.50 mm²	A16.B	11	/1.C61C6	A22.1	1
D354	R2	WH/BK	0.50 mm²	A16.A	9	/1.F61F6	A22.2	2
D355	R2	WH/GN	0.50 mm²	A16.A	10	/1.F61F6	A22.2	1
D356	R2	WH/BU	0.50 mm²	Q21.	6	/3.G23G2	A16.A	18
D357	R2	YE/RD	0.50 mm²	A16.B	10	/1.C61C6	A29.	2
D358	R2	YE/BK	0.50 mm²	A16.B	9	/1.C61C6	A29.	1
D360	R2	BU	0.50 mm²	A11.X	6	/2.E62E6	A180.B	3
D361	R2	GN	0.50 mm²	A11.X	9	/2.E62E6	A180.B	8
D362	R2	WH	0.50 mm²	SD-20	1	/1.A91A9	A11.X	12
D363	R2	WH	0.50 mm²	B1	5	/1.A134A13	SD-20	1
D364	R2	WH	0.50 mm²	SD-20	1	/1.A91A9	A180.C	10
D365	R2	WH	0.50 mm²	Q13.1	1	/1.K61K6	SD-20	1
D368	R2	WH/GN	0.50 mm²	A11.X	13	/2.E72E7	A180.B	4
D369	R2	BU/GY	0.50 mm²	A11.X	16	/2.E72E7	A180.B	9
D370	R2	GN/WH	0.50 mm²	A11.X	18	/2.E72E7	A180.B	7
D371	R2	YE	0.50 mm²	A11.X	19	/2.E72E7	A180.B	6
D374	R2	VT/YE	0.50 mm²	A11.X	25	/2.E82E8	A180.C	11
D377	R2	BU	0.50 mm²	A11.X	28	/2.E82E8	A180.C	12
D378	R2	WH/YE	0.50 mm²	A180.A	9	/2.B62B6	GEM.IPL	12
D379	R2	VT	0.50 mm²	A11.X	30	/2.E82E8	A180.C	6
D380	R2	BK	0.50 mm²	A11.X	8	/2.E62E6	SD-47	1
D381	R2	BK	0.75 mm²	A11.X	32	/2.E82E8	SD-48	1
D398	R2	GY	0.50 mm²	SD-8	1	/2.C142C14	Q3.	5
D401	R2	WH/VT	0.50 mm²	GEM.IPR	16	/4.G104G10	Q3.	7
D403	R2	BK	0.50 mm²	B2	1	/1.I151I15	SD-9	1
D408	R2	RD	0.75 mm²	B1	9	/4.A144A14	FB1	12S
D410	R2	GN	0.50 mm²	S8.A	8	/2.J82J8	D1	15
D413	R2	YE	0.50 mm²	S8.A	8	/2.J82J8	D1	14
D416	R2	RD	2.50 mm²	E2	1	/4.A94A9	FB1	3S
D418	R2	RD	4.00 mm²	E2	2	/4.A94A9	FB1	2S
D419	R2	BU/WH	0.50 mm²	D1	2	/4.A104A10	SD-56	1
D426	R2	BU/WH	0.50 mm²	A2	3	/1.J151J15	D1	11
D427	R2	BU	0.50 mm²	A2	4	/1.J151J15	D1	10
D428	R2	GN/YE	0.50 mm²	D1	9	/4.A114A11	A2	5

Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
D429	R2	BN	0.50 mm²	D1	8	/4.A114A11	A2	6
D434H	R2	WH	0.50 mm²	D1	5	/4.A104A10	SD-26	1
D434L	R2	BU	0.50 mm²	SD-34	1	/3.E43E4	D1	6
D438L	R2	BU	0.50 mm²	SD-19	1	/1.G81G8	A16.A	19
D438J	R2	BU	0.50 mm²	SD-15	1	/1.E81E8	A16.A	20
D438K	R2	WH/BU	0.50 mm²	A1	18	/4.A164A16	CTC4	22
D443	R2	WH/BU	0.50 mm²	A1	18	/4.A164A16	CTC4	22
D456	R2	RD	1.50 mm²	A1	1	/4.A154A15	FB1	18S
D463	R2	RD	0.50 mm²	Q4.2	1	/3.F13F1	A1	2
D464	R2	RD/YE	0.50 mm²	D1	4	/4.A104A10	A180.C	1
D485	R2	GN	0.50 mm²	C1	11	/4.A124A12	SIADIS	2
D486	R2	BK/GN	0.50 mm²	C1	12	/4.A124A12	SIADIS	2
D487	R2	WH	0.50 mm²	C1	13	/4.A124A12	SIADIS	2
D488	R2	BK/GN	0.50 mm²	C1	14	/4.A124A13	SIADIS	4
D492	R2	YE/RD	0.50 mm²	A21.X	6	/1.C41C4	C1	6
D493	R2	BN/BK	0.50 mm²	C1	5	/4.A124A12	A21.X	1
D494	R2	YE/WH	0.50 mm²	C1	4	/4.A124A12	A21.X	2
D495	R2	VT/GN	0.50 mm²	C1	3	/4.A124A12	A21.X	7
D496	R2	BK/GN	0.50 mm²	C1	2	/4.A124A12	A21.X	3
D497	R2	WH	0.50 mm²	C1	1	/4.A124A12	A21.X	5
D498	R2	GN	0.50 mm²	C1	7	/4.A124A13	A21.X	8
D499	R2	RD/YE	0.50 mm²	C1	10	/4.A124A12	FB1	40S
D500	R2	RD	0.75 mm²	SD-5	1	/2.C152C15	FB1	12P
D501	R2	RD	2.50 mm²	SD-18	1	/D.I113D11	FB1	3P
D502	R2	RD	2.50 mm²	SD-24	1	/3.B113B11	A14.B	7
D503	R2	RD	2.50 mm²	SD-24	1	/3.B113B11	A14.B	8
D504	R2	BK	4.00 mm²	PE1&2B.1	1	/2.A32A3	SD-48	1
D505	R2	BK	1.50 mm²	PE4B.1	1	/2.A42A4	SD-47	1
D506	R2	BK	1.50 mm²	PE1&2C.2	1	/4.D144D14	SD-9	1
D507	R2	BK	4.00 mm²	PE4C.2	1	/4.E144E14	SD-23	1
D508	R2	WH/VT	0.50 mm²	CTC4	23	/1.I111F11	D2	11
D509	R2	BU/WH	0.75 mm²	SD-56	1	/D.I153D15	A5.X	7
D510	R2	RD	2.50 mm²	SD-18	1	/D.I113D11	FB1	3P
D511	R2	RD	4.00 mm²	SD-24	1	/3.B113B11	FB1	2P
D512	R2	RD	2.50 mm²	SD-24	1	/3.B113B11	A14.B	7
D516	R2	BN	4.00 mm²	SD-24	1	/3.B113B11	A14.B	8
D526	R2	BK	4.00 mm²	PE1&2C.2	1	/4.D144D14	SD-9	1
D527	R2	BK	4.00 mm²	PE4C.2	1	/4.E144E14	SD-23	1
D537	R2	WH/VT	0.50 mm²	CTC4	23	/1.I111F11	D2	11
D541	R2	BU/WH	0.75 mm²	SD-56	1	/D.I153D15	A5.X	7
D545	R2	RD	0.75 mm²	SD-54	1	/D.I053D5	FB1	19S
D546	R2	BK	0.75 mm²	A5.X	4	/3.G43G4	SD-23	1
D547	R2	RD/BU	0.75 mm²	SD-21	1	/3.C113C11	FB1	13P
D548	R2	RD/WH	1.00 mm²	SD-5	1	/2.C152C15	FB1	33P
D550	R2	RD/GN	0.50 mm²	FB1	33S	/3.E93E9	Q17.	6
D552	R2	BU/YE	0.50 mm²	Q17.	1	/1.K21K2	XL	10
D553	R2	RD	1.50 mm²	E2	9	/4.A94A9	FB1	23S
D554	R2	RD	0.50 mm²	RB2	5	/4.C24C2	RB2	10
D555	R2	BK	1.50 mm²	SD-47	1	/2.E72E7	SD-43	1
D556	R2	RD/YE	2.50 mm²	RB4	7	/4.D14D1	E2	5
D557	R2	RD/YE	1.50 mm²	RB4	6	/4.D14D1	A1	13
D558	R2	RD/YE	2.50 mm²	RB4	7	/4.D14D1	E2	5
D559	R2	WH/BU	0.50 mm²	RB2	6	/4.C14C1	A1	13
D560	R2	RD	1.50 mm²	E2	9	/4.A94A9	FB1	23S
D561	R2	RD	0.50 mm²	RB2	5	/4.C24C2	RB2	10
D562	R2	YE	0.50 mm²	XL	12	/1.G21G2	SD-12	1
D563	R2	YE	0.50 mm²	SD-12	1	/1.F41F4	Q17.	3
D564	R2	YE	0.50 mm²	XL	12	/1.G21G2	SD-12	1
D565	R2	YE	0.50 mm²	SD-12	1	/1.F41F4	Q17.	2
D566	R2	Y

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Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
SIADIS	4			0.3-0.5 TERMINAL MALE 282404-1	
FB1	1			02400113 MINI DIODE 1.0A	
A16.A,A16.B	12			0413-204-2005 Blind Plug Deutsch GMBH	
G1.1	1			964167	
A190.	1			Cover PBT-GF0	
A5.X	6			DELPHI SOCKET TERMINAL 12129484	
FB1	2			E-1579 MAXIFUSE WEDGE	
FB1	4			E-439 MINIFUSE WEDGE FOR E-433	
A29.	1			ETI20X75 Polyester Label	
ANTENNA1	1			End Point	
	480			Foam Tape	
SD-10,SD-11,SD-12,SD-13,SD-14 SD-15,SD-16,SD-17,SD-18,SD-19 SD-20,SD-21,SD-22,SD-23,SD-24 SD-25,SD-26,SD-29,SD-3,SD-32 SD-33,SD-34,SD-35,SD-36,SD-37 SD-38,SD-4,SD-40,SD-42,SD-43 SD-44,SD-45,SD-46,SD-47,SD-48 SD-5,SD-52,SD-53,SD-54,SD-55 SD-56...	58			GENERAL SPLICE	
	1470			Losely Wound Tape	
A190.	1			Sealing MVQ-30	
	0			Spot Tape	
L12	1			Think Label Layout	
A183.X1,A190.	8			Tyco Sealing Green 0.75mm 967067-1	
	795			Wrapping Hose	
RB5,RB6,RB7,RB8	4		E-387-E	SPACER MICRO-ISO RELAY WEDGE E-387-E	
XL_XR	4	DELPHI	10717964	FEMALE TERMINAL 1.5-2.5 SEALED	
XL_XR	22	DELPHI	12158097	FEMALE TERMINAL 0.5-1.0 SEALED	
XL_XR	4	DELPHI	12185008	FEMALE TERMINAL 1.5-2.5 SEALED	
Q17.	1	DSG-CANUSA	CPX355-48	SHRINK TUBE CPX355-48	
D4	1	ELFA	70-042-11	DIODE 70-042-11	
RB1,RB2,RB3,RB4	4	EPC	E-379	ISO RELAY WEDGE E-379	
RB5,RB6,RB7,RB8	4	EPC	E-380	MICRO-ISO RELAY WEDGE E-380	
RB1,RB2,RB3,RB4	4	EPC	E-386	SPACER ISO RELAY WEDGE E-386	
FB1	1	EPC	R64100-001	FUSE PANEL ASSEMBLY	
A5.X	1	ESMA	12110250	HOUSING 16 PIN ID613256	
A5.X	2	ESMA	12110251	SECONDARY LOCK ID613257	
XL_XR	2	ESMA	15344010	CONNECTOR FEMALE 27 PIN ESMA 15344010	
XL_XR	2	ESMA	FT10	RUBBER GROMMET FT10	
A22.2	1	FCI	14005601	CONNECTOR 2PIN FEMALE BLACK 14005601	
A22.1	1	FCI	14005611	CONNECTOR 2PIN FEMALE BROWN 14005611	
A1	1	FCI	211BC051004	FRAME FEM. COMPL. 211BC051004 BEIGE	
A2	1	FCI	211BC056004	FRAME FEM. COMPL. 211BC056004 BLUE	
A1,B1,C1,C2,D1,D2	89	FCI	211CC2S1120	0.35-0.75 TERMINAL FEMALE 211CC2S1120	
A2	1	FCI	211PC123S5004	CONNECTOR 12PIN FEMALE 211PC123S5004 GREEN	9148269 (VOLVO)
B2	1	FCI	211PC123S6004	CONNECTOR 12PIN FEMALE 211PC123S6004 BLUE	9148268 (VOLVO)
E2	1	FCI	211PC123S9004	CONNECTOR 12PIN FEMALE 211PC123S9004 WHITE	9148265 (VOLVO)
D1,D2	2	FCI	211PC182S2004	CONNECTOR 18PIN FEMALE 211PC182S2004 RED	9148272 (VOLVO)
C1,C2	2	FCI	211PC182S4004	CONNECTOR 18PIN FEMALE 211PC182S4004 YELLOW	9148273 (VOLVO)
A1	1	FCI	211PC182S5004	CONNECTOR 18PIN FEMALE 211PC182S5004 GREEN	9148275 (VOLVO)
B1	1	FCI	211PC182S6004	CONNECTOR 18PIN FEMALE 211PC182S6004 BLUE	9148274 (VOLVO)
Q3.	1	FCI	60210401	CONNECTOR 7PIN FEMALE 60210401	
Q10.A,Q15.A	2	FCI	60211501	CONNECTOR 7PIN FEMALE 60211501	
Q20.	1	FCI	60231111	CONNECTOR 7PIN FEMALE 60231111	
A1,B1,C1	7	FCI	9148072	1. 0-2.0 FEMALE TERMINAL 1.5 SICMA 2	
A2,B2	14	FCI	9148079	0.3-1.0 SICMA 2 FEMALE TERMINAL	
A2,B2,E2	8	FCI	9148080	1.0-3.0 FEMALE TERMINAL 2.8 SICMA 2	
E2	3	FCI	9148081	3.0-5.0 FEMALE TERMINAL 2.8 SICMA 2	
Q20.	1	G&HARTMAN	949678	0.5-1.0 TERMINAL FEMALE STD TIMER 949678	
Q20.	2	G&HARTMAN	949681	4.1-6.0 TERMINAL FEMALE STD TIMER 949681	
PE3C.2	1	G&HARTMAN	970783	0.35-1.0 Terminal Ring M6 970783	
PE1&2C.2,PE3C.1,PE4B.1,PE4C.6	5	G&HARTMAN	970789	1.5-2.5 TERMINAL RING M6 970789	
PE1&2B.1,PE1&2B.2,PE1&2C.1 PE4B.2,PE4C.1,PE4C.2,PE4C.3 PE4C.4	8	G&HARTMAN	970794	RING TERMINAL M6 2.6-6.0	
C117,C122,C123,C124,C17,C18 C20,C21,C24,C31,C54,C55	12	HELLERMANN	CBT30MR	CLIP EDGE W/CABLE TIE CBT30MR	
A29.,A31.	2	HELLERMANN	T18R SV-1000	CABLE TIE T18R SV-1000	
C401,C402	2	HELLERMANN TYTON	156-00049	Clip Edge	
A602	1	HELLERMANN TYTON	CABLE TIE T30L SV-500	CABLE TIE T30L SV-500	
A628	1	HELLERMANNTYTON	117-05000	Strips	
C325	1	HELLERMANNTYTON	133-00391	CLIPS T50SOSWSP5E-2	
C462,C463,C464,C465,C466	5	HELLERMANNTYTON	T50R-FT7	CLIPS T50R-FT7 Black	
Q23.	1	JETPRESS	434.00.22.0	CONNECTOR 8 PIN FEMALE 434.00.22.0	
Q22.	1	JETPRESS	434.00.22.5	CONNECTOR 8 PIN FEMALE 434.00.22.5	
Q18.	1	JETPRESS	434.00.22.6	CONNECTOR 8 PIN FEMALE 434.00.22.6	
G1.1	1	KB COMPONENTS	5516410	CONNECTOR 2PIN FEMALE FASTON 5516410	
X84.	1	KB COMPONENTS	5518520	FASTON HOUSING BLACK 2 PIN FEMALE	
RLY1,RLY2,RLY3,RLY4,RLY5,RLY6	6	KG KNUTSSON HANDELS AB	HELLA 4RD003520137	12V Relay MINI	
RLY15,RLY16,RLY17,RLY18,RLY19 RLY20,RLY21,RLY22,RLY24,RLY26	10	KG KNUTSSON HANDELS AB	HELLA 4RD007814017	12V Relay MICRO w Resistor	TYCO V23074-A1001-A403
Q17.	1	LEAR	16840.562.699	CONNECTOR FEMALE 8PIN 16840.562.699	
SD-57,SD-58	2	LEAR	25770.123.178	SPLICE LEAR 25770.123.178	
Q7.	1	LEAR	98AG-14489-TTB	CONNECTOR 16PIN FEMALE LEAR	
FB1	1	LEAR	F2DB-14474-AA	MINIFUSE TERMINAL 4.0-6.0	
FB1	55	LEAR	F2DB-14474-CA	MINIFUSE TERMINAL 1.5-2.5	
FB1	36	LEAR	F2DB-14474-DA	MINIFUSE TERMINAL 0.5-1.0	
RB1,RB2,RB3,RB4	10	LEAR	F4UB-14474-AA	ISO TERMINAL 4.0-6.0	
SD-57	1	LITEON	LT10A04	DIODE 10A 400V	
Fs26,Fs46	2	LITTELFUSE	029707.5	MINIFUSE 7,5AMP.029707.5	
Fs13,Fs19,Fs21,Fs24,Fs27,Fs30 Fs31,Fs33,Fs35,Fs39,Fs40,Fs41 Fs47,Fs48,Fs54	15	LITTELFUSE	297005	MINIFUSE 5AMP.297005	
Fs11,Fs12,Fs14,Fs17,Fs18,Fs22 Fs32,Fs37,Fs44,Fs49,Fs50,Fs51 Fs52,Fs53	14	LITTELFUSE	297010	MINIFUSE 10AMP .297010	
Fs107,Fs16,Fs20,Fs36,Fs38,Fs42 Fs43	7	LITTELFUSE	297015	MINIFUSE 15AMP .297015	
Fs15,Fs23,Fs28,Fs45	4	LITTELFUSE	297020	MINIFUSE 20AMP.297020	
Fs10,Fs4,Fs7,Fs8,Fs9	5	LITTELFUSE	299020	MAXIFUSE 20AMP .299020	
Fs3	1	LITTELFUSE	299025	MAXIFUSE 25A .299025	
Fs1	1	LITTELFUSE	299030	MAXIFUSE 30AMP.299030	
Fs2	1	LITTELFUSE	299040	MAXIFUSE 40AMP.299040	
Q18.,Q22..Q23.	13	MOLEX	0988952014	0.35.1.0 TERMINAL FEMALE 0988952014	
A35.X	1	MOLEX	43020-2000	CONNECTOR FEMALE 20PIN MICROFIT	
A35.X	18	MOLEX	43031-0001	0.35-0.5 TERMINAL FEMALE MICROFIT	
RB2,RB3,RB4	7	REPRO	F2AB-14474-BA	ISO TERMINAL 1.5-2.5	
RB1,RB2,RB3,RB4	16	REPRO	F2AB-14474-CA	ISO TERMINAL 0.5-1.0	
FB1	8	REPRO	F65B-14474-HA	MAXIFUSE TERMINAL 1.5-2.5	
FB1	8	REPRO	F65B-14474-JA	MAXIFUSE TERMINAL 4.0-6.0	
RB6,RB7,RB8	22	REPRO	F65B-14474-MA	½-ISO SMALL TERM. 0.5-0.75	
RB6,RB7,RB8	14	REPRO	F65B-14474-NA	½-ISO LARGE TERM. 1.5-2.5	
RB6,RB7	4	REPRO	F65B-14474-RA	½-ISO SMALL TERM. 1.5-2.5	
RB6,RB7,RB8	10	REPRO	F65B-14474-SA	½-ISO LARGE TERM. 0.5-0.75	
	2170	SCHLEMMER	1926304	CORRUGATED TUBE BLACK Ø 7.1/5.0 SLIT	
	130	SCHLEMMER	1926307	CORRUGATED TUBE BLACK Ø 9.9/6.9 SLIT	
C36	1	SCHLEMMER	8207366	P-CLIPS 40mm	
C32	1	SIEFVERT SKRUFV	98AG-14A390-VD	CABLE PROTECTOR Y SHAPE	
A7.	1	Sasco Holz GmbH	1096618	HOUSING 8 PIN BLACK VT92PH08BK*T	
	10695	TESA	51608-09-15	TAPE TEXTILE TESA 51608-09-15	
Q21.	1	TYCO	0-1419158-6	CONNECTOR 6PIN FEMALE 0-1419158-6	

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
GEM.IPL	1	TYCO	1-1419158-8	GEM CONNECTOR 23 SOCKET HARNESS ASSEMBLY D	
GEM.EN	1	TYCO	1-1419158-9	GEM CONNECTOR 23 SOCKET HARNESS ASSEMBLY C	
A14.B	21	TYCO	1-968851-1	1.0-2.5 TERMINAL FEMALE 1-968851-1	
A182.X	4	TYCO	1123343-1	0.35-0.5 TERMINAL FEMALE 1123343-1	
CTC4	1	TYCO	1241728-1	SOCKETHOUSING 3xPQ+24xMQS	
CTC4	1	TYCO	1355543-1	COVER WITH SLIDE 42POS MQS 1355543-1	
S8.A	1	TYCO	1355915-1	CONNECTOR 14PIN FEMALE 1355915-1	
A182.X	1	TYCO	1379659-5	CONNECTOR 8PIN FEMALE 1379659-5	
A16.A,A16.B,GEM.BL,GEM.BR GEM.IPL,GEM.IPR,Q21.	45	TYCO	1393366-1	0.5-0.75 TERMINAL FEMALE GET 1393366-1	
A36.X	1	TYCO	1393382-2	CONNECTOR FEMALE 4PIN 1393382-2	
A16.A	1	TYCO	1438103-9	24 WAY ARM PLUG ASSEMBLY WITHOUT SHORTING BARS	
A16.B	1	TYCO	1438435-1	40 WAY ARM PLUG ASSEMBLY WITHOUT SHORTING BARS	
A29.,A31.	2	TYCO	1452018-1	CONNECTOR FEMALE 6PIN BU-GEH	
H7.1,H7.2,Q32.1,Q32.2,Q4.1 Q4.2	6	TYCO	160684-2	0.5-1.0 TERMINAL FEMALE FASTON 2.8x0.5	
Q13.2	1	TYCO	160915-2	0.5-1.0 TERMINAL FEMALE FASTON 6.3 160915-2	
G1.2,Q1.1,Q1.2,Q13.1	4	TYCO	160915-2	0.5-1.0 TERMINAL FEMALE FASTON 6.3 160915-2	
G1.1	2	TYCO	160917-2	1.0-2.5 TERMINAL FEMALE FASTON 160917-2	
GEM.BR	1	TYCO	2-1419158-0	GEM CONNECTOR 23 SOCKET HARNESS ASSEMBLY B	
GEM.BL	1	TYCO	2-1419158-1	GEM CONNECTOR 23 SOCKET HARNESS ASSEMBLY A	
GEM.IPR	1	TYCO	2-1419158-2	GEM CONNECTOR 23 SOCKET HARNESS ASSEMBLY E	
SIADIS	1	TYCO	282106-1	CONNECTOR 4PIN MALE SUPERSEAL 282106-1	
A14.B	1	TYCO	8-968975-1	CONNECTOR 21PIN FEMALE 8-968975-1	
A21.X	1	TYCO	828922-1	CAVITY PLUG 1.5/2.5/4.0MM PIN 828922-1	
AUX_EQUIPMENT_12V_POWER,G1.2,5 Q1.1,Q1.2,Q13.1	7	TYCO	926539-6	HOUSING FEMALE 1PIN FASTON 6.3	
A15.A,A15.B,Q10.A,Q15.A	16	TYCO	927768-1	1.1-2.5 TERMINALE FEMALE JPT 927768-1	
A15.A,A7.,Q10.A,Q15.A,Q17.,Q3.	23	TYCO	927771-1	0.5-1.1 TERMINALE FEMALE JPT 927771-1	
A11.X	1	TYCO	929053-1	SHIELD CONNECTOR 32PIN FEMALE MQS	
A15.A	1	TYCO	963120-1	CONNECTOR 8PIN FEMALE GREY 963120-1	
A15.B	1	TYCO	963121-1	CONNECTOR 8PIN FEMALE BROWN 963121-1	
A183.X1,A190.	2	TYCO	967640-1	CONNECTOR 4PIN FEMALE 967640-1	
A11.X	1	TYCO	968265-1	CONNECTOR 32PIN FEMALE MQS	
X61.	1	Tyco	1-962343-1	HOUSING 3 PIN 4113015	
S8.A	10	Tyco	1326028-5	FEMALE TERMINAL 0.5-1.0	
A29.,A31.	2	Tyco	1452020-1	COVER BU-GEH	
A29.,A31.	2	Tyco	1452021-1	FRAME BU-GEH	
X15	2	Tyco	173631-1	AWG16-20 Female 070 MLC	
X15	1	Tyco	174921-1	MLC 070 3 Pin Female	
A180.A,A180.B	30	Tyco	175265-1	0.40II AWG22-AWG18 Terminal Female	
A180.A,A180.C	20	Tyco	175268-1	0.70II AWG22-AWG18 Terminal Female	
X84.	2	Tyco	180351-5	3.0-6.0 FASTON FEMALE	
A180.C	1	Tyco	917978-1	CONNECTOR TYCO 12 PIN FEMALE	
A180.B	1	Tyco	917981-1	CONNECTOR TYCO 16 PIN FEMALE	
A180.A	1	Tyco	917992-1	CONNECTOR TYCO 26 PIN FEMALE	
H7.1,H7.2,Q32.1,Q32.2,Q4.1 Q4.2	6	Tyco	925387-1	Faston 1 Pin Insulation Sleeve 2.8 Clear	
A183.X1,A190.	8	Tyco	962885	0.2-0.5 MQS RECEPTACLE FEMALE 962885	
X61.	3	Tyco	962943-2	MICROTIMER 0.5-1.0	
A11.X,CTC4	43	Tyco	963715-1	SOCKET TERMINAL MQS 0.50-0.75	
CTC4	3	Tyco	968073-2	Q-LOCK FEMALE 2.5-4.0	
A21.X	7	YAZAKI	7116-4102-02	0.35-0.5 TERMINAL FEMALE 7116-4102-02	
A21.X	7	YAZAKI	7158-3030-50	SWS YAZAKI ID1.19-1.70 7158-3030-50	
A21.X	1	YAZAKI	7283-5685-10	HOUSING 8 PIN	
Q2.	1	YAZAKI	7283-6455-40	CONNECTOR 10PIN FEMALE 7283-6455-40	
A3.	1	YAZAKI	7283-6457-40	CONNECTOR 10PIN FEMALE 7283-6457-40	
A29.,A31.,Q2.,Q20.,Q7.	21	YAZAKI	9168502	0.5 TERMINAL FEMALE 9168502	
Q2.,Q20.,Q7.	9	YAZAKI	9168504	0.75-1.0 TERMINAL FEMALE 9168504	
GEM.BL,GEM.BR,GEM.EN,GEM.IPL GEM.IPR,Q7.	18	YAZAKI	9168510	FEMALE TERMINAL 0.75-1.0	
A3.,GEM.BL,GEM.EN	13	YAZAKI	9168512	FEMALE TERMINAL 1.5-2.5	

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msv

HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A1 Sheet Size	Created 20100708 Change Date 20101104	Page 6 of 6
A306 HARNESS DASH LHD	Description	Drawing no 541.4020.B	Status DRAFT

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CABLES TWISTED 40±2 TURNS/M
255+256, 257+258, 336+337, 338+339, 341+342, 352+353, 354+355, 357+358, 426+427, 428+429, 434H+434L, 438H+438L, 654H+654L, 657H+657L, 658H+658L, 797H+797L, 806H+806L, 839H+839L, 855H+855L, 867H+867L, 898H+898L, 902H+902L, 903H+903L, 912H+912L

CABLES TWISTED 30±2 TURNS/M
866+868

CABLES TO BE COVERED BY YELLOW PVC-TUBE
336+ 337,338+339

takeout for the power distribution box should be at the halfway point of the fusebox

[DISTRIBUTION CONNECTOR B+]
A14.B
1-1-25 TERMINAL FEMALE 1-968851-1
1 D136A SD-22:1
2 D136B SD-22:1
3 D136C SD-22:1
4 D84A SD-21:1
5 D84B SD-21:1
6 D84C SD-21:1
7 D511A SD-24:1
8 D511B SD-24:1
9 D235 SD-24:1
10 D603 SD-24:1
11 D2B SD-18:1
12 D2C SD-18:1
13 D2A SD-18:1
14 D125A SD-45:1
15 D125B SD-45:1
16 D125C SD-45:1
17 D108 SD-65:1
18 D118 SD-65:1
19 D107 FB138P
20 D110A SD-25:1
21 D110B SD-25:1

SD-22 150 mm XII HOT ALWAYS D136, D136A, D136B, D136C
SD-24 120 mm XII HOT ALWAYS D511, D511B, D235, D630, D631, D511A
SD-65 50 mm XII HOT ALWAYS D108, D117, D118, D608, D905
SD-25 80 mm XII HOT ALWAYS D3, D106, D109, D110A, D110B, D111, D604
210 mm
340 mm
IV

[GROUND LHS TYPE 1+2]
PE1&2C.1 1 D748 SD-10:1
PE1&2B.2 1 D749 SD-40:1
80 mm
50 mm
RED

[GROUND LHS TYPE 4]
PE4C.1 1 D723 SD-23:1
PE4C.2 1 D809 R84:3
PE4C.3 1 D739 SD-61:1
PE4B.2 1 D739 SD-61:1
PE4C.6 1 D879 SD-58:1
80 mm
C01x4.26
YELLOW
50 mm
50 mm
GREEN
80 mm
SD-6 40 mm VII GND3 D674, D736, D737, D750
SD-40 30 mm II GND3 D21, D24, D73, D320, D625, D749, D893, D862
50 mm
150 mm

ALL GROUND LUGS SHALL HAVE SOLDERED CRIMP AND COVERED BY SHRINK TUBE 25MM LONG

100 mm
40
FULLTAPED OVER
ARROW ON GROMMET SHALL POINT BETWEEN POS. 1 AND 2 IN CONNECTOR
125 mm
XL1
XL
D11 SD-29:1
D14 SD-36:1
D17 SD-77:1
D19 GEM.IPR.5
D20 SD-61:1
D21 GEM.IPL.22
D24 SD-40:1
D257 A15.B85
D258 A15.B86
D559 Q77:1
D564 Q77:7
D562 SD-74:1
D560 Q10:1
D561 FB138S
D562 Q10:A7
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
1-5 FEMALE TERMINAL 0.5-1.0 D2000F
2-4 FEMALE TERMINAL 1.5-2.5 D3000B
[INTERFACE TO LEFT DOOR]

[FUSEHOLDER FB1]
SD-16 40 mm XII HOT ALWAYS D4, D105, D615, D652, D630
SD-21 70 mm XII HOT ALWAYS D84, D84A, D848, D84C, D812
SD-45 90mm XII HOT ALWAYS D125, D125A, D125B, D241, D125C
SD-14 110 mm XII HOT ALWAYS D100, D102, D128, D902, D631
SD-18 55 mm XII HOT ALWAYS D2B, D2C, D104, D112, D115, D510, D2A
SD-5 25 mm III D88, D89, D91, D93, D94, D95, D509, D556
SD-38 80 mm III D137, D138, D139, D142, D598, D613, D884, D144, D803
15 mm
15 mm
15 mm
170 mm
15 mm
60 mm
FB1
SD-10 100 mm VIII GND3 D8, D99, D130, D179, D721, D748, D804, D824, D835, D921
SD-70 50 mm XI GND3 D915, D715, D650, D154, D919, D836
SD-17 80 mm VIII GND3 D16, D17, D18
SD-74 50 mm VIII GND3 D808, D904, D919
SD-29 140 mm VIII UNLOCKED HOUS D10, D11, D12, D864
SD-36 170 mm VIII LOCKED HOUS D13, D14, D15, D865
SD-12 280 mm XII POWER SUPPLY SW. D561, D862, D563
SD-67 [HEATER] CTC4 D911, D842, D910
SD-60 270 mm II D607, D609, D886
SD-23 100 mm V D9, D273, D304, D523, D611, D548
SD-54 30 mm X HOT ALWAYS D96, D545, D774, D834, D870, D871, D872
SD-26 80 mm X HOT ALWAYS D867H, D434H, D806H
SD-34 40 mm X MEDIA GND3 D867L, D434L, D806H
SD-56 50 mm XII HOT ALWAYS D67, D423, D541
110 mm
190 mm
60 mm
175 mm
125 mm
170 mm
115 mm
II
I
III
/2.C15C15
/2.A12A12
G1.1#10:1
/3.D2D2
ANTENNA1#10:1
/3.D2D2

[CTC 4]
MP
CABLE-TIE T30L SV-500
9128331-40

[DIAGNOSTIC] A5.X
DELPHI SOCKET TERMINAL 12124464
D548 SD-23:1
SD-9:1
TPM585B2 D585 SD-26:1
D541 SD-56:1
TPM585B2 D867 SD-34:1
TPM585C2 D434 SD-26:1

[PASS. AIRBAG STAGE 2]
A22.1 [BROWN CODE B] 1 2 D553 D552 A18.B.11 A18.B.12 30 mm

[PASS. AIRBAG STAGE 1]
A22.2 [BLACK CODE A] 1 2 D555 D554 A18.A.10 A18.A.9 30 mm
320 mm
190 mm
60
228

[PASS. AIRBAG DISABLE SWITCH] Q21.
0.5-0.75 TERMINAL FEMALE GET 1393066-1
1
2
3
4 D798 A16.A.21
5 D625 SD-40:1
6 D356 A16.A.18

EXTERNAL ANTENNA SPOTTAPED OUTSIDE MAINBRANCH. MIN. DISTANCE BETWEEN SPOTTAPES: 150MM

[TPMS RESET] Q32.1 1 D909 A180.A:1 Q32.2 1 D908 PE3C.2:1, SD-10:1 130 mm 130 mm
[BMI RESET] A12 D463 1 Q4.2 SD-54:1 D774 1 Q4.1

D3524+D353 AND D3544+355 COVERED WITH YELLOW PVC

ASSEMBLY FUSE-HOLDER VIEWED FROM CABLE-SIDE
P S 53 P S 47 P S 41 P S 35 P S 29 P S 23 P S 17 P S 11
P S 54 P S 48 P S 42 P S 36 P S 30 P S 24 P S 18 P S 12
P S 55 P S 49 P S 43 P S 37 P S 31 P S 25 P S 19 P S 13
P S 56 P S 50 P S 44 P S 38 P S 32 P S 26 P S 20 P S 14
P S 57 P S 51 P S 45 P S 39 P S 33 P S 27 P S 21 P S 15
P S 58 P S 52 P S 46 P S 40 P S 34 P S 28 P S 22 P S 16
P S 6 P S 1
P S 7 P S 2
P S 8 P S 3
P S 9 P S 4
P S 10 P S 5

ASSEMBLY FUSE-HOLDER VIEWED FROM FUSE-SIDE
1 10A 2 15A 3 20A 4 25A 5 30A 6 40A 7 5A 8 20A 9 20A 10 20A
60
SPOT-TAPE TO SEPARATE BRANCHES
100
250
WIRES ROUTED IN TO FUSE-HOLDER ACC. TO FIGURE

[GEM]
GEM.BR /GREEN
GEM.BL /GREY
GEM.IPR /BROWN
GEM.IPL /BEIGE
GEM.EN /BLUE
0.5-0.75 TERMINAL FEMALE GET 1393066-1
0.75-1.0 FEMALE TERMINAL 918810
1.5-2.5 FEMALE TERMINAL 742040

Spot Tape 300 mm
120 mm
120 mm
15 mm
FB1.5B2
AUX_EQUIPMENT_12V_POWER 1
A190.1 1 2 3 4
SIADIS 1 2 3 4
[TPMS]
TPMS Connector to be Tied-back (with paper tape) to the main branch

120 to SIADIS
25 25 25 25 115
60 60 60 60 60
GREY GREEN BLUE BEIGE BROWN
[GEM]

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0.5%	2%	0	±20

General tolerance positioning of cable ties and clips: ±5 mm

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A	New Harness for RHD	-	20101102	MSV	

HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	Sheet Size A1	Created / Change Date 20101102	Page 1 of 6
A306 RHD HARNESS DASH	Description	Drawing no 541.4025.A	Status DRAFT

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[SRS ECU]

A16.B

1	D339	S8.A:2	0.5-0.75 TERMINAL FEMALE GET 1393366-1
2	D338	S8.A:1	0.5-0.75 TERMINAL FEMALE GET 1393366-1
3			
4			
5			
6			
7			
8			
9	D358	A29::1	0.5-0.75 TERMINAL FEMALE GET 1393366-1
10	D357	A29::2	0.5-0.75 TERMINAL FEMALE GET 1393366-1
11	D353	A22.1:1	0.5-0.75 TERMINAL FEMALE GET 1393366-1
12	D352	A22.1:2	0.5-0.75 TERMINAL FEMALE GET 1393366-1
13			
14			
15			
16			
17	D341	A31::2	0.5-0.75 TERMINAL FEMALE GET 1393366-1
18	D342	A31::1	0.5-0.75 TERMINAL FEMALE GET 1393366-1
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			

A16.A

1			
2			
3	D336	S8.A:4	0.5-0.75 TERMINAL FEMALE GET 1393366-1
4	D337	S8.A:3	0.5-0.75 TERMINAL FEMALE GET 1393366-1
5			
6			
7			
8			
9	D354	A22.2:2	0.5-0.75 TERMINAL FEMALE GET 1393366-1
10	D355	A22.2:1	0.5-0.75 TERMINAL FEMALE GET 1393366-1
11			
12			
13			
14			
15			
16			
17	D314	A35.X-18	0.5-0.75 TERMINAL FEMALE GET 1393366-1
18	D356	Q21.6	0.5-0.75 TERMINAL FEMALE GET 1393366-1
19	D438H	SD-19:1	0.5-0.75 TERMINAL FEMALE GET 1393366-1
20	D438L	SD-15:1	0.5-0.75 TERMINAL FEMALE GET 1393366-1
21	D798	Q21.4	0.5-0.75 TERMINAL FEMALE GET 1393366-1
22			
23			
24	D153	FB1:22S	0.5-0.75 TERMINAL FEMALE GET 1393366-1

NOTE!
EMPTY CAVITIES
PLUGGED IN
CONNECTORS:
1438435-1 AND
1438103-9
0413-204-2005 X12

D336+D337 AND
D338+D339
D352+D353 AND
D354+D355
D341+D342 AND
D357+D358
COVER WITH
YELLOW PVC

SD-15
20 mm XIII
ACT_POWER_3
D438L, D797L, D902L

SD-19
50 mm XIII
ACT_POWER_3
D438H, D797H, D902H

605 mm

STUD CLIP

/1.F15F15

165mm

103

312 to node

C147

20

60 mm

V

200 mm

180 mm

[YAW RATE SENSOR]

15 mm

A183.X1

SD-40:1	D662	1	0.2-0.5 MQS RECEPTACLE FEMALE 962895
SD-69:1	D658L	2	0.2-0.5 MQS RECEPTACLE FEMALE 962895
SD-68:1	D658H	3	0.2-0.5 MQS RECEPTACLE FEMALE 962895
FB1:37S	D914	4	0.2-0.5 MQS RECEPTACLE FEMALE 962895

SD-77
ACT_POWER_3
GND3

40 mm

40 mm

SPLICES UNDER THE RELAY BRACKET

SD-44
ACT_POWER_3
D34, D36, D731

SD-46
ACT_POWER_3
D786, D787, D894

SD-71
ACT_POWER_3
D825, D868, D916

SD-42
ACT_POWER_3
D269, D826, D733

SD-43
ACT_POWER_3
D268, D206, D734

SD-35
HOT_STARTER_3
D126, D742, 20 mm W

SD-76
HOT_STARTER_3
D405, D682, D917

0 mm

/1.F12F12

35mm

[GEAR SELECTOR]

A7.

1	D328	C1:18	0.5-1.1 TERMINALE FEMALE JPT 927771-1
2	D329	C1:17	0.5-1.1 TERMINALE FEMALE JPT 927771-1
3	D330	C1:16	0.5-1.1 TERMINALE FEMALE JPT 927771-1
4	D331	C1:15	0.5-1.1 TERMINALE FEMALE JPT 927771-1
5	D195	FB1:30S	0.5-1.1 TERMINALE FEMALE JPT 927771-1
6	D43	SD-4:1	0.5-1.1 TERMINALE FEMALE JPT 927771-1
7			
8		SD-9:1	

30 mm

D341+D342 AND D357+358
COVERED WITH YELLOW PVC

170 mm

GND3
200 mm IX
SD-52
D588, D589, D590, D593, D594, D595, D879

C148

VI

140 mm

SD-13
220 mm XIII
ACT_POWER_3
D585, D586, D587

[POWER WINDOW SW. L.]
Ink marked on the
connector: L

Q10.A

XL:13	D591	1	1.1-2.5 TERMINALE FEMALE JPT 927768-1
SD-13:1	D586	2	1.1-2.5 TERMINALE FEMALE JPT 927768-1
SD-52:1	D588	3	1.1-2.5 TERMINALE FEMALE JPT 927768-1
SD-52:1	D590	4	0.5-1.1 TERMINALE FEMALE JPT 927771-1
SD-52:1	D589	5	
XL:23	D592	6	1.1-2.5 TERMINALE FEMALE JPT 927768-1
		7	1.1-2.5 TERMINALE FEMALE JPT 927768-1

[POWER WINDOW SW. R.]

Q15.A

XR:13	D596	1	1.1-2.5 TERMINALE FEMALE JPT 927768-1
SD-13:1	D587	2	1.1-2.5 TERMINALE FEMALE JPT 927768-1
SD-52:1	D593	3	1.1-2.5 TERMINALE FEMALE JPT 927768-1
SD-52:1	D595	4	0.5-1.1 TERMINALE FEMALE JPT 927771-1
		5	
SD-52:1	D594	6	1.1-2.5 TERMINALE FEMALE JPT 927768-1
XR:23	D597	7	1.1-2.5 TERMINALE FEMALE JPT 927768-1

1085 mm
1926304

1085 mm
1926304

100 mm

130 mm
1926307

130 mm

C151

[DRIVER SEAT BELT TENSIONER]

A31.

1	D342	A16.B:18	0.5 FEMALE TERMINAL
2	D341	A16.B:17	0.5 FEMALE TERMINAL
3			
4			
5		SD-40:1	0.5 FEMALE TERMINAL
6	D33	A180.A:5	0.5 FEMALE TERMINAL

25 mm

LABEL

LOOSE FITx2

250 mm

[CORR. TUBE FASTENED IN
COVER 1452020-1
WITH T18R SV-1000]

LOOSE FITx2

[PASS. SEAT BELT TENSIONER]

A29.

A16.B:9	D358	1	0.5 FEMALE TERMINAL
A16.B:10	D357	2	0.5 FEMALE TERMINAL
SD-40:1	D893	3	0.5 FEMALE TERMINAL
A180.A:22	D894	4	0.5 FEMALE TERMINAL
SD-40:1		5	0.5 FEMALE TERMINAL
A180.A:4	D890	6	0.5 FEMALE TERMINAL

25 mm

LABEL

CORR. TUBE FASTENED IN
COVER 1452020-1
WITH T18R SV-1000

[LOUDSPEAKER
HANDSFREE]

H7.1 1 D866 C2:9

H7.2 1 D868 C2:10

50 mm

[POWER MIRROR SWITCH]

Q17.

D559	XL:10	1	0.5-1.1 TERMINALE FEMALE JPT 927771-1
D560	XR:10	2	0.5-1.1 TERMINALE FEMALE JPT 927771-1
D561	SD-12:1	3	0.5-1.1 TERMINALE FEMALE JPT 927771-1
	SD-47:1, SD-52:1	4	0.5-1.1 TERMINALE FEMALE JPT 927771-1
D565	XR:11	5	0.5-1.1 TERMINALE FEMALE JPT 927771-1
D557	FB1:33S	6	0.5-1.1 TERMINALE FEMALE JPT 927771-1
D564	XL:11	7	0.5-1.1 TERMINALE FEMALE JPT 927771-1
		8	

50 mm

110 mm

760 mm

25mm SHRINK
SLEEVE ON ALL
TERMINAL CRIMPS

25 mm

SD-20:1 D365

Q13.1

1 0.5-1.0 FAST ON 6.3

[HANDBRAKE]

SD-40:1

Q13.2

RELAY-BRACKET VIEWED FROM WIRE-SIDE
PIN-NUMBERS ACC. TO FIGURE

R12 R14 R16 R18 R20 R22 R24 R26
R11 R13 R15 R17 R19 R21 R23 R25
R1 R2 R3 R4 R5 R6 R7 R8

RELAY-BRACKET VIEWED FROM RELAY-SIDE
RELAYS ASSEMBLED ACC. TO FIGURE

R1 RLY1 R3 RLY3 R5 RLY5 R7
R2 RLY2 R4 RLY4 R6 RLY6 R8
R11 R13 R15 RLY15 R17 RLY17 R19 RLY19 R21 R23 RLY24 R25 RLY26
R12 R14 R16 RLY16 R18 RLY18 R20 RLY20 R22 R24 RLY26

130
100
MP

[R26-COOL. W. PUMPS]

A1:11	D158	D5	0.5-0.75 ½ISO LARGE TERM.
		D4	
RB8:D1, FB1:13	B97, D103	D3	1.5-2.5 ½ISO LARGE TERM.
A1:12	D157	D2	0.5-0.75 ½ISO SMALL TERM.
RB8:D3	D97	D1	0.5-0.75 ½ISO SMALL TERM.
B1:3	D240	B5	0.5-0.75 ½ISO LARGE TERM.
		B4	
FB1:27S	D129	B3	0.5-0.75 ½ISO LARGE TERM.
SD-10:1	D130	B2	0.5-0.75 ½ISO SMALL TERM.
CTC4:13	D785	B1	0.5-0.75 ½ISO SMALL TERM.

[R24-CABIN W.PUMP]

[R25-BATTERY CHILL 2]

D2:2	D628	C5	0.5-0.75 ½ISO LARGE TERM.
		C4	
RB8:C1, SD-76:1, RB8:B3	B20, D617	C3	1.5-2.5 ½ISO LARGE TERM.
A1:17	D622	C2	0.5-0.75 ½ISO SMALL TERM.
RB8:C3	D620	C1	0.5-0.75 ½ISO SMALL TERM.
D2:1	D621	A5	0.5-0.75 ½ISO LARGE TERM.
		A4	
SD-76:1, RB8:B3	B65, D619	A3	0.5-0.75 ½ISO LARGE TERM.
A1:16	D624	A2	0.5-0.75 ½ISO SMALL TERM.
RB8:A3	D619	A1	0.5-0.75 ½ISO SMALL TERM.

RB8

[R23-BATTERY CHILL 1]

FB1:48P	D887	C5	1.5-2.5 ½ISO LARGE TERM.
		C4	
FB1:14S	D885	C3	1.5-2.5 ½ISO LARGE TERM.
RB7:B2	D610	C2	0.5-0.75 ½ISO SMALL TERM.
SD-71:1	D888	C1	0.5-0.75 ½ISO SMALL TERM.
SD-42:1	D733	A5	1.5-2.5 ½ISO LARGE TERM.
		A4	
SD-65:1	D117	A3	0.5-0.75 ½ISO LARGE TERM.
SD-23:1	D273	A2	0.5-0.75 ½ISO SMALL TERM.
Q2::7, FB1:5	D370, D878	A1	0.5-0.75 ½ISO SMALL TERM.

[R19-HIGH BEAM]

[R22-REVERSE LAMP]

RB7:D1, FB1:42	B41, D188	D5	1.5-2.5 ½ISO LARGE TERM.
B1:15	D187	D4	0.5-0.75 ½ISO SMALL TERM.
RB7:D3	D141	D3	0.5-0.75 ½ISO SMALL TERM.
SD-43:1	D734	D2	1.5-2.5 ½ISO LARGE TERM.
		D1	
SD-65:1	D608	B5	1.5-2.5 ½ISO LARGE TERM.
RB7:C2, SD-23	D610, D611	B4	1.5-2.5 ½ISO SMALL TERM.
SD-60:1	D609	B3	0.5-0.75 ½ISO LARGE TERM.
		B2	0.5-0.75 ½ISO SMALL TERM.
		B1	0.5-0.75 ½ISO SMALL TERM.

[R20-LOW BEAM]

[R21-DTRL]

X61.2	D601	C5	0.5-0.75 ½ISO LARGE TERM.
		C4	
RB6:C1, FB1:4	B13, D169	C3	1.5-2.5 ½ISO LARGE TERM.
GEM.IPR:20	D71	C2	0.5-0.75 ½ISO SMALL TERM.
RB6:C3	D133	C1	0.5-0.75 ½ISO SMALL TERM.
SD-46:1, RB6:B	B80, D732	A5	0.5-0.75 ½ISO LARGE TERM.
SD-10:1	D179	A4	1.5-2.5 ½ISO LARGE TERM.
SD-44:1	D731	A3	1.5-2.5 ½ISO LARGE TERM.
A1:9	D182	A2	0.5-0.75 ½ISO SMALL TERM.
RB6:A5	D732	A1	0.5-0.75 ½ISO SMALL TERM.

[R15-WIPER MOTOR PARK]

A1:10	D173	D5	1.5-2.5 ½ISO LARGE TERM.
		D4	
RB6:D1, FB1:42	B14, D172	D3	1.5-2.5 ½ISO LARGE TERM.
GEM.BR:1, SB.A:1	B54, D171	D2	0.5-0.75 ½ISO SMALL TERM.
RB6:D3	D114	D1	0.5-0.75 ½ISO SMALL TERM.
FB1:8S, RB6:B	B175, D730	B5	1.5-2.5 ½ISO LARGE TERM.
SD-44:1	D35	B4	1.5-2.5 ½ISO SMALL TERM.
A3::7	D178	B3	1.5-2.5 ½ISO LARGE TERM.
GEM.IPR:21	D40	B2	0.5-0.75 ½ISO SMALL TERM.
RB6:B5	D730	B1	0.5-0.75 ½ISO SMALL TERM.

[R16-WIPER MOTOR]

RB6

[R17-BATTERY SAVER]

		D5	
		D4	
		D3	
		D2	
		D1	

[R14-SPARE]

		C5	
		C4	
		C3	
		C2	
		C1	

[R13-SPARE]

		B5	
		B4	
		B3	
		B2	
		B1	

[R12-SPARE]

		A5	
		A4	
		A3	
		A2	
		A1	

[R11-SPARE]

RB5

[R8-HEATED FRONT SCREEN]

CTC4:18	D825	5	0.5-1.0 ISO TERMINAL
		4	4.0-6.0 ISO TERMINAL
X84.2	D823	3	4.0-6.0 ISO TERMINAL
PE4C.3:1	D809	2	1.5-2.5 ISO TERMINAL
FB1:45S	D813	1	0.5-1.0 ISO TERMINAL
RB4:6, SD-10:5	D576, D824		

[R7-COND. FAN A/C ONLY]

CTC4:15	D843	10	0.5-1.0 ISO TERMINAL
FB1:10S	D575	9	1.5-2.5 ISO TERMINAL
		8	
		7	1.5-2.5 ISO TERMINAL
E2:5	D577	6	0.5-1.0 ISO TERMINAL
RB4:1	D576		

RB4

[R5-HEATED REAR WINDOW]

FB1:35S	D98	5	0.5-1.0 ISO TERMINAL
SD-22:1	D136	4	4.0-6.0 ISO TERMINAL
		3	
SD-38:1	D137	2	4.0-6.0 ISO TERMINAL
SD-6:1	D674	1	0.5-1.0 ISO TERMINAL
A21, FB1:28	D660, D877		

[R6-RUN/START]

CTC4:16	D68	10	0.5-1.0 ISO TERMINAL
FB1:4S	D159	9	1.5-2.5 ISO TERMINAL
		8	
		7	1.5-2.5 ISO TERMINAL
SD-10:1	D20	6	0.5-1.0 ISO TERMINAL

RB3

[R4-RADIATOR LOW SPEED]

SD-54:1, RB2:1	D96, D581	5	0.5-1.0 ISO TERMINAL
E2:4	D156	4	1.5-2.5 ISO TERMINAL
		3	
		2	4.0-6.0 ISO TERMINAL
SD-6:1	D737	1	0.5-1.0 ISO TERMINAL
A1:14	D155		

[R3-RADIATOR FULL SPEED]

RB2:5	D581	10	0.5-1.0 ISO TERMINAL
E2:3	D516	9	4.0-6.0 ISO TERMINAL
		8	
		7	4.0-6.0 ISO TERMINAL
SD-6:1	D736	6	0.5-1.0 ISO TERMINAL
A1:13	D579		

RB2

[R2-CABIN BLOWER]

SD-70:1	D715	5	0.5-1.0 ISO TERMINAL
		4	4.0-6.0 ISO TERMINAL
SD-35:1	D126	3	
		2	4.0-6.0 ISO TERMINAL
CTC4:25	D716	1	0.5-1.0 ISO TERMINAL
RB1:6	D850		

[R1-CABIN BLOWER SPEED 2]

CTC4:20	D849	10	0.5-1.0 ISO TERMINAL
		9	4.0-6.0 ISO TERMINAL
SD-35:1	D742	8	
		7	4.0-6.0 ISO TERMINAL
CTC4:27	D238	6	0.5-1.0 ISO TERMINAL
RB1:1, SD-10:1	D850		

RB1

MODUL. ASS. E-6038 INCLUDES:
E-379/E-386 (4x)
E-380/E-387 (4x)
E-413 (1x)
E-83 (1x)
4RD003520137 (6x)
4RD007814017 (9x)

CABLES TWISTED 40±2 TURNS/M
255+256, 257+258, 336+337, 338+339, 341+342, 352+353, 354+355, 357+358, 426+427, 428+429, 434H+434L, 438H+438L, 654H+654L, 657H+657L, 658H+658L, 797H+797L, 806H+806L, 839H+839L, 855H+855L, 867H+867L, 898H+898L, 902H+902L, 903H+903L, 912H+912L

CABLES TWISTED 30±2 TURNS/M
866+868

CABLES TO BE COVERED BY YELLOW PVC-TUBE
336+ 337,338+339

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20

General tolerance positioning of cable ties and clips: ±5 mm

Rev.	Description	Change Req.	Date	Prepared	Approved
A	New Harness for RHD	-	20101102	MSV	———

HARNESS — Document type
MSV — Prepared by
A306 MY2011 Pre-series — File name
Approved by — A1 — Sheet Size
A306 — Description
RHD HARNESS DASH

Created 18.11.2010 — Change Date 20101121 — Page 2 of 6
Drawing no 541.4025.A — Status DRAFT

THINK

Protect 16.05.2011 13.35 msv

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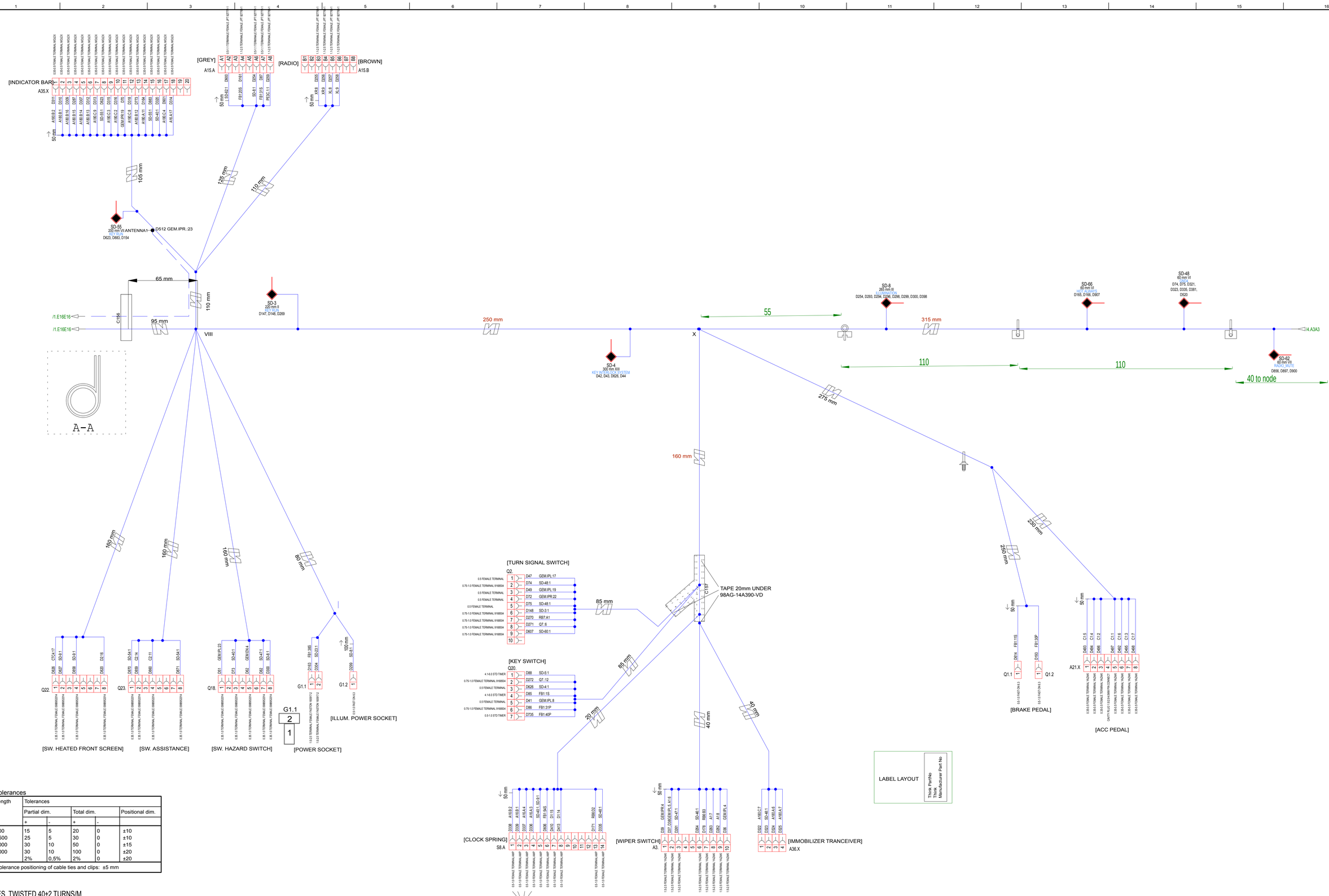

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

CABLES TWISTED 40±2 TURNS/M
255+256, 257+258, 336+337, 338+339, 341+342, 352+353, 354+355, 357+358, 426+427, 428+429, 434H+434L, 438H+438L, 654H+654L, 657H+657L, 658H+658L, 797H+797L, 806H+806L, 839H+839L, 855H+855L, 867H+867L, 898H+898L, 902H+902L, 903H+903L, 912H+912L

CABLES TWISTED 30±2 TURNS/M
866+868

CABLES TO BE COVERED BY YELLOW PVC-TUBE
336+ 337,338+339

Rev.	Description	Change Req.	Date	Prepared	Approved
A.	New Harness for RHD	-	20101102	MSV	____

HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	Sheet Size: A1	Created: 18.11.2010 Change Date: 20101121	Page: 3 of 6
A306 RHD HARNESS DASH	Description	Drawing no: 541.4025.A	Status: DRAFT

Plotted: 16.03.2011 13:35 msv

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[VCU]

A180.C
50 mm
0.3-0.85 Terminal Female 172265-1 6 D379 A11.X.30
0.3-0.85 Terminal Female 172265-1 5 D350 A11.X.17
0.3-0.85 Terminal Female 172265-1 4 D901 A35.X.17
0.3-0.85 Terminal Female 172265-1 3 D315 A35.X.9
0.3-0.85 Terminal Female 172265-1 2 D316 A35.X.10
0.3-0.85 Terminal Female 172265-1 1 D464 D1:4
0.3-0.85 Terminal Female 172265-1 12 D377 A11.X.28
0.3-0.85 Terminal Female 172265-1 11 D374 A11.X.25
0.3-0.85 Terminal Female 172265-1 10 D364 SD-20:1
0.3-0.85 Terminal Female 172265-1 9 D313 A35.X.7
0.3-0.85 Terminal Female 172265-1 8 D318 A35.X.12
0.3-0.85 Terminal Female 172265-1 7 D322 A36.X.1

A180.B
50 mm
0.3-0.85 Terminal Female 172265-1 8 D361 A11.X.9
0.3-0.85 Terminal Female 172265-1 7 D370 A11.X.18
0.3-0.85 Terminal Female 172265-1 6 D371 A11.X.19
0.3-0.85 Terminal Female 172265-1 5
0.3-0.85 Terminal Female 172265-1 4 D368 A11.X.13
0.3-0.85 Terminal Female 172265-1 3 D360 A11.X.6
0.3-0.85 Terminal Female 172265-1 2 D311 A35.X.1
0.3-0.85 Terminal Female 172265-1 1 D310 A35.X.2
0.3-0.85 Terminal Female 172265-1 16 D309 A35.X.3
0.3-0.85 Terminal Female 172265-1 15 D287 A35.X.4
0.3-0.85 Terminal Female 172265-1 14 D307 A35.X.5
0.3-0.85 Terminal Female 172265-1 13 D312 A35.X.6
0.3-0.85 Terminal Female 172265-1 12 D773 A35.X.13
0.3-0.85 Terminal Female 172265-1 11 D69 A11.X.4
0.3-0.85 Terminal Female 172265-1 10 D853 CTC4:21
0.3-0.85 Terminal Female 172265-1 9 D369 A11.X.16

A180.A
50 mm
0.3-0.85 Terminal Female 172265-1 13 D907 SD-66:1
0.3-0.85 Terminal Female 172265-1 12 D150 FB1:36S
0.3-0.85 Terminal Female 172265-1 11 D164 A35.X.14
0.3-0.85 Terminal Female 172265-1 2
0.3-0.85 Terminal Female 172265-1 1 D909 Q32:1:1
0.3-0.85 Terminal Female 172265-1 26 D801 SD-11:1
0.3-0.85 Terminal Female 172265-1 25 D852 D1:12
0.3-0.85 Terminal Female 172265-1 24 D910 SD-67:1
0.3-0.85 Terminal Female 172265-1 15
0.3-0.85 Terminal Female 172265-1 14 D321 SD-48:1
0.3-0.85 Terminal Female 172265-1 10 D888H C2:18
0.3-0.85 Terminal Female 172265-1 9 D378 GEM.IPL.12
0.3-0.85 Terminal Female 172265-1 8 D45 GEM.IPL.9
0.3-0.85 Terminal Female 172265-1 7 D325 A36.X.4
0.3-0.85 Terminal Female 172265-1 6 D324 A36.X.3
0.3-0.85 Terminal Female 172265-1 5 D33 A31:6
0.3-0.85 Terminal Female 172265-1 4 D890 A29:.6
0.3-0.85 Terminal Female 172265-1 3 D903H SD-64:1
0.3-0.85 Terminal Female 172265-1 23 D888L C2:17
0.3-0.85 Terminal Female 172265-1 22 D894 A29:.4
0.3-0.85 Terminal Female 172265-1 21 D800 GEM.IPL.18
0.3-0.85 Terminal Female 172265-1 20 D897 SD-62:1
0.3-0.85 Terminal Female 172265-1 19
0.3-0.85 Terminal Female 172265-1 18 D293 SD-8:1
0.3-0.85 Terminal Female 172265-1 17
0.3-0.85 Terminal Female 172265-1 16 D903L SD-63:1

/3.D16D16
65 mm
15 mm
70 mm
15 mm
30 mm
15 mm
20 mm
80mm
280 mm
120 mm
TAPE TOGETHER WITH RIPTAPE
185 mm
180 mm
500 mm
170 mm

SD-63
160 mm VI
VEHICLE SPEED
D654L, D902L, D903L

SD-64
200 mm VI
VEHICLE SPEED
D654H, D902H, D903H

SD-68
135 mm XIV
ESP_CAN_H
D658H, D912H, D957H

SD-69
100 mm XIV
ESP_CAN_L
D658L, D912L, D957L

SD-11
200 mm VI
CHECK ENGINE LAMP
D778, D801, D814

SD-59
40mm III
LIGHT SENSING
D46, D222, D223

SD-53
200mm V
ORDI
D802, D848, D880

SD-47
100 mm VI
ORDI
D82, D261, D301, D380, D521

SD-20
160 mm XI
ORDI
D362, D364, D365, D363

100 mm
IX
X
III
MP

SD-9
50 mm V
ORDI
D22, D26, D403, D522, D827, D858

SD-57
150 mm V
KEY ON
D174
Di-4 ANODE

SD-58
200 mm V
KEY ON
D184
Di-4 CATODE

SD-33
65mm XIV
VEHICLE SPEED
D654L, D867L, D655L, D923L

SD-37
100 mm XIV
VEHICLE SPEED_H
D654H, D867H, D655H, D923H

D174
967778
DIODE 4
70-042-11
967778
D184

200 mm
90 mm
120 mm
100 mm
50 mm
15 mm
60 mm
85 mm
105 mm
135 mm

FULLTAPED OVER
40
XR
125 mm
ARROW ON GROMMET SHALL POINT BETWEEN POS. 26 AND 27 IN CONNECTOR

[INTERFACE TO RIGHT DOOR]
XR
SD-29:1 D12 1 1.5 FEMALE TERMINAL 0.5-1.0 12158097
SD-36:1 D15 2 1.5 FEMALE TERMINAL 0.5-1.0 12158097
SD-17:1 D18 3 1.5 FEMALE TERMINAL 0.5-1.0 12158097
GEM.IPR:1 D20 4 1.5 FEMALE TERMINAL 0.5-1.0 12158097
SD-9:1 D22 5 1.5 FEMALE TERMINAL 0.5-1.0 12158097
GEM.IPL.21 D25 6 1.5 FEMALE TERMINAL 0.5-1.0 12158097
SD-9:1 D26 7 1.5 FEMALE TERMINAL 0.5-1.0 12158097
A15:B:B3 D255 8 1.5 FEMALE TERMINAL 1.5-2.5 10717644
A15:B:B4 D256 9 1.5 FEMALE TERMINAL 1.5-2.5 10717644
Q17:.2 D560 10 1.5 FEMALE TERMINAL 0.5-1.0 12158097
Q17:.5 D565 11 1.5 FEMALE TERMINAL 0.5-1.0 12158097
SD-12:1 D563 12 1.5 FEMALE TERMINAL 0.5-1.0 12158097
Q15.A:1 D596 13 2.8 FEMALE TERMINAL 1.5-2.5 12158008
FB1:24S D881 14 1.5 FEMALE TERMINAL 0.5-1.0 12158097
15
16
17
18
19
20
21
22
Q15.A:7 D597 23 2.8 FEMALE TERMINAL 1.5-2.5 12158008
24
25
26
27

ALL GROUND LUGS SHALL HAVE SOLDERED CRIMP AND COVERED BY SHRINKSLEEVE 25MM LONG

RED
50 mm
SD-48:1 D520 1 PE1&2B.1
A15:A:A8 D259 1 PE3C.1
SD-9:1 D522 1 PE1&2C.2
YELLOW
Q32:2:1 D908 1 PE3C.2
70 mm
SD-47:1 D521 1 PE4B.1
GREEN
90 mm
X84:.1 D822 1 PE4C.4
SD-53:1 D880 1 PE4C.5
80 mm
80 mm
80 mm

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

CABLES TWISTED 40±2 TURNS/M
255+256, 257+258, 336+337, 338+339, 341+342, 352+353, 354+355, 357+358, 426+427, 428+429, 434H+434L, 438H+438L, 654H+654L, 657H+657L, 658H+658L, 797H+797L, 806H+806L, 839H+839L, 855H+855L, 867H+867L, 898H+898L, 902H+902L, 903H+903L, 912H+912L

CABLES TWISTED 30±2 TURNS/M
866+868

CABLES TO BE COVERED BY YELLOW PVC-TUBE
336+ 337,338+339

[INTERFACE TO FRONT HARNESS]
2.8 SICMA 2 FEMALE TERMINAL 9140800
E2 /WHITE
D418 FB1:3S
D419 FB1:2S
D516 RB2:9
D156 RB2:4
D677 RB4:7
D101 FB1:28S
D580 FB1:23S
D775 FB1:26P

1.5 SICMA 2 FEMALE TERMINAL 9140871
D1 /RED
D152 FB1:37S
D423 SD-56:1
D814 SD-11:1
D464 A180.C:1
D434H SD-26:1
D434L SD-34:1
D44 SD-4:1
D429 A2:6
D428 A2:5
D427 A2:4
D426 A2:3
D852 A180.A:25
D702 FB1:46S
D413 S8.A:8
D410 S8.A:7
D191 FB1:54S
D912L SD-69:1
D912H SD-68:1

C1 /YELLOW
D497 A21.X:5
D496 A21.X:3
D495 A21.X:7
D494 A21.X:2
D493 A21.X:1
D492 A21.X:6
D498 A21.X:8
D149 FB1:39S
D503 FB1:40S
D483 SIADIS:1
D484 SIADIS:2
D485 SIADIS:3
D486 SIADIS:4
D331 A7:.5
D330 A7:.4
D329 A7:.3
D328 A7:.2

[INTERFACE TO FRONT HARNESS]

B1 /BLUE
D56 GEM.EN:3
D703 FB1:25S
D240 RB8:B5
D208 FB1:52S
D363 SD-20:1
D207 FB1:51S
D408 FB1:12S
D231 FB1:48S
D229 FB1:47S
D197 FB1:30S
D203 FB1:50S
D187 RB7:D2
D918 Q7.:1
D202 FB1:49S
D59 GEM.EN:4

A/GREEN
D456 FB1:18S
D463 Q4.2:1
D851 FB1:33S
D184 SD-58:1
D38 A3:.2
D263 A3:.8
D262 A3:.9
D182 RB6:A2
D173 RB6:D5
D158 RB8:D5
D157 RB8:D2
D579 RB2:6
D155 RB2:1
D632 D2:3
D624 RB8:A2
D622 RB8:C2
D443 CTC4:22

[INTERFACE TO FRONT HARNESS]

RB8:A5 D521 1
RB8:C5 D628 2
A1:15 D632 3
4
5
CTC4:5 D837 6
CTC4:7 D839L 7
CTC4:8 D839H 8
CTC4:6 D838 9
SD-10:1, SD-9:1 10
CTC4:23 D537 11
CTC4:24 D841 12
13
14
15
Q22:.8 D820 16
CTC4:19 D815 17
SD-47:1 18

C2 /YELLOW
SD-10:1 D804 1
FB1:21S D805 2
SD-33:1 D923L 3
SD-37:1 D923H 4
SD-7A:1 D808 5
SD-29:1 D864 6
SD-36:1 D865 7
SD-62:1 D856 8
H7.1:1 D866 9
H7.2:1 D868 10
Q23:.4 D860 11
SD-67:1 D842 12
13
Q23:.2 D859 14
15
16
A180.A:23 D898L 17
A180.A:10 D898H 18

B2 /BLUE
SD-9:1 D403 1
GEM.BR:2 D30 2
GEM.BR:15 D29 3
GEM.BL:2 D52 4
5
GEM.BR:4 D55 6
7
8
9
RB7:D5 D189 10
FB1:30P D194 11
12

A2 /GREEN
RB3:7 D160 1
FB1:26S D778 2
D1:11 D426 3
D1:10 D427 4
D1:9 D428 5
D1:8 D429 6
Q7.:2 D283 7
8
FB1:48S D230 9
FB1:47S D228 10
11
SD-59:1 D222 12

[INTERFACE TO CABIN HARNESS]

Interface to A/C Harness
Interface to Heater Harness
Interface to RAC Harness
9148221
9148265
9148268
9148269
9148273
9148272
MP
Interface to Cabin Harness

[INTERIOR DOME LAMP]
X61
0.5-1.0 MICROTIMER 1.40 - 2.10 1 D53 GEM.BL:3
0.5-1.0 MICROTIMER 1.40 - 2.10 2 D801 RB6:C5
0.5-1.0 MICROTIMER 1.40 - 2.10 3 D802 SD-53:1

[SUNROOF]
40 mm
X15
FB1:36S D828 1
SD-53:1 D848 2
3
AWG16-20 Female STO MLC
AWG16-20 Female STO MLC

[HEATED FRONT SCREEN]
40 mm
X84
PE4C.4:1 D822 1
RB4:4 D823 2
3.0-6.0 FASTON FEMALE
3.0-6.0 FASTON FEMALE

40 mm
40 mm

[VCU]
A180.A A180.B A180.C
-AMP 11390
-AMP 11391
-AMP 11424

A11.X
Cable tie T30L SV-500
[INSTRUMENT CLUSTER]
0.50-0.75 SOCKET TERMINAL MQS
1
2
3
4 D69 A180.B:11
5 D65 GEM.IPL:2
6 D360 A180.B:3
7 D707 GEM.IPL:3
8 D380 SD-47:1
9 D361 A180.B:8
10 D204 Q35:.6
11 D294 SD-8:1
12 D362 SD-20:1
13 D368 A180.B:4
14
15
16 D369 A180.B:9
17 D350 A180.C:5
18 D370 A180.B:7
19 D371 A180.B:6
20 D600 SD-70:1
21
22
23
24 D778 SD-11:1
25 D374 A180.C:11
26
27
28 D377 A180.C:12
29
30 D379 A180.C:6
31 D166 SD-66:1
32 D381 SD-48:1

225 mm
115 mm
130 mm
40 mm
75 mm

[HEAD LAMP SWITCH]
FOR DTRL AND FOG
50 mm
Q7.
B1:16 D918 1 0.5 FEMALE TERMINAL
A2:7 D283 2 0.75-1.0 FEMALE TERMINAL 9168004
3
FB1:57P D612 4 0.5 FEMALE TERMINAL
5
Q2.:8 D271 6 0.75-1.0 FEMALE TERMINAL 9168510
FB1:32S D234 7 0.75-1.0 FEMALE TERMINAL 9168510
SD-3:1 D147 8 0.75-1.0 FEMALE TERMINAL 9168510
SD-8:1 D296 9 0.5 FEMALE TERMINAL
SD-47:1 D301 10 0.5 FEMALE TERMINAL
FB1:14S D162 11 0.75-1.0 FEMALE TERMINAL 9168510
Q20:.2 D272 12 0.75-1.0 FEMALE TERMINAL 9168510
SD-71:1 D225 13 0.75-1.0 FEMALE TERMINAL 9168504
14
15
SD-59:1 D223 16 0.5 FEMALE TERMINAL

[LIFTGATE RELEASE]
Q3.
50 mm
SD-48:1 SD-53:1
SD-48:1 SD-53:1
SD-48:1
D288
D401
GEM.PR:18
1 0.5-1.5 TERMINAL FEMALE JPT 827771-1
2 0.5-1.5 TERMINAL FEMALE JPT 827771-1
3 0.5-1.5 TERMINAL FEMALE JPT 827771-1
4 0.5-1.5 TERMINAL FEMALE JPT 827771-1
5 0.5-1.5 TERMINAL FEMALE JPT 827771-1
6 0.5-1.5 TERMINAL FEMALE JPT 827771-1
7 0.5-1.5 TERMINAL FEMALE JPT 827771-1

[STEERING ANGLE SENSOR]
A182.X
50 mm
SD-48:1 SD-53:1
SD-48:1 SD-53:1
FB1:37S
SD-69:1
D913
D657H
D657L
1 0.64-0.7 TERMINAL FEMALE 1123041
2 0.64-0.7 TERMINAL FEMALE 1123041
3 0.64-0.7 TERMINAL FEMALE 1123041
4 0.64-0.7 TERMINAL FEMALE 1123041
5 0.64-0.7 TERMINAL FEMALE 1123041
6 0.64-0.7 TERMINAL FEMALE 1123041
7 0.64-0.7 TERMINAL FEMALE 1123041
8 0.64-0.7 TERMINAL FEMALE 1123041

UNIT	CONECTOR	FUNCTION
1	4	12 V
2	3	-
3	2	GND
4	1	CAN HIGH
5	8	-
6	7	-
7	6	-
8	5	CAN LOW

Table: Steering Angle Sensor SAS

A1.1
A
B
C
D
E
9162008
9148271
9148272
9148273
9148274
9148275

Rev.	Description	Change Req.	Date	Prepared	Approved
A	New Harness for RHD	-	20101102	MSV	

HARNESS
MSV
A306 MY2011 Pre-series
Approved by A1
Sheet Size
Created 18.11.2010 Change Date 20101103
Page 4 of 6
A306
RHD HARNESS DASH
Drawing no 541.4025.A
Status DRAFT

Plotted: 16.05.2011 13:35 msv

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Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
D2A	R2	RD	2.50 mm²	SD-18	1 /1.C41C4	A14.B	13 /1.D11D1	130
D2B	R2	RD	2.50 mm²	SD-18	1 /1.C41C4	A14.B	11 /1.C11C1	130
D2C	R2	RD	2.50 mm²	SD-18	1 /1.C41C4	A14.B	12 /1.C11C1	130
D3	R2	RD	1.50 mm²	SD-25	1 /1.D31D3	FB1	16P /1.C71C7	50
D4	R2	RD	1.50 mm²	SD-16	1 /1.C31C3	FB1	15P /1.C81C8	120
D5	R2	RD	1.50 mm²	FB1	16S /1.D71D7	GEM.EN	5 /1.I121I12	405
D6	R2	RD	1.50 mm²	FB1	15S /1.D81D8	GEM.EN	1 /1.I121I12	405
D8	R2	BK	0.75 mm²	SD-10	1 /1.D31D3	GEM.IPL	1 /1.I101I10	475
D9	R2	BK	1.50 mm²	SD-23	1 /1.E11E13	GEM.BL	5 /1.H101H10	465
D10	R2	GN/YE	0.50 mm²	GEM.BR	16 /1.H91H9	SD-29	1 /1.G131G3	800
D11	R2	GN/YE	0.50 mm²	XL	1 /1.J151J5	XL	1 /1.J151J5	315
D12	R2	GN/YE	0.50 mm²	SD-29	1 /1.G131G3	XR	1 /A.A164A16	1595
D13	R2	BU/YE	0.50 mm²	GEM.BL	19 /1.H101H12	SD-36	1 /1.G131G13	305
D14	R2	BU/YE	0.50 mm²	SD-36	1 /1.G131G13	XL	2 /1.J151J1	845
D15	R2	BU/YE	0.50 mm²	SD-36	1 /1.G131G13	XR	2 /A.A164A16	1285
D16	R2	GN	1.00 mm²	GEM.BR	3 /1.H81H8	SD-17	1 /1.E121E12	330
D17	R2	GN	0.50 mm²	SD-17	1 /1.E121E12	XL	3 /1.J151J1	785
D18	R2	GN	0.50 mm²	SD-17	1 /1.E121E12	XR	3 /A.A164A16	1225
D19	R2	GY	0.50 mm²	XL	1 /1.J151J1	GEM.IPR	5 /1.I191I9	1010
D20	R2	GY	0.50 mm²	XR	4 /A.A164A16	GEM.IPR	1 /1.I181I8	1450
D21	R2	BK	0.50 mm²	XL	5 /1.J151J1	SD-40	1 /1.F21F2	335
D22	R2	BK	0.50 mm²	XR	5 /A.A164A16	SD-9	1 /A.B124B12	225
D23	R2	GN	0.50 mm²	GEM.IPL	22 /1.I121I12	XL	6 /1.J151J1	1045
D24	R2	BK	0.50 mm²	XL	7 /1.J151J1	SD-40	1 /1.F21F2	335
D25	R2	YE	0.50 mm²	GEM.IPL	21 /1.I121I12	XR	6 /A.A164A16	1485
D26	R2	BK	0.50 mm²	SD-9	1 /A.B124B12	XR	7 /A.A164A16	225
D29	R2	WH	0.50 mm²	B2	3 /A.I134I13	GEM.BR	15 /1.H91H9	1530
D30	R2	GN	0.50 mm²	GEM.BR	2 /1.H81H8	B2	2 /A.I134I13	1530
D32	R2	YE	0.50 mm²	A180.A	5 /A.E24E2	A31.	6 /2.I5I25	3445
D34	R2	GN	1.50 mm²	SD-44	1 /1.F81F8	GEM.EN	2 /1.I121I12	275
D35	R2	GN	1.50 mm²	RB6	B4 /1.G51G5	SD-44	1 /1.F81F8	60
D36	R2	BU	1.00 mm²	GEM.IPL	4 /1.I101I10	A3.	10 /3.J93J9	1095
D37	R2	BN/BK	1.00 mm²	GEM.IPL	5 /1.I101I10	A3.	2 /3.J93J9	1095
D38	R2	BN/BK	1.50 mm²	A3.	2 /A.J104J10	A1	6 /A.J104J10	1055
D39	R2	GN	0.50 mm²	GEM.IPR	4 /1.I191I9	A3.	1 /3.J83J8	1060
D40	R2	GY	0.50 mm²	GEM.IPR	21 /1.I101I10	RB6	B2 /1.G51G5	265
D41	R2	VT	0.50 mm²	Q20.	5 /3.H73H7	GEM.IPL	8 /1.I111I11	1140
D42	R2	RD/GY	0.50 mm²	SD-4	1 /2.G72G7	GEM.IPL	15 /1.I111I11	1305
D43	R2	RD/GY	0.50 mm²	SD-4	1 /2.G72G7	A7.	7 /2.H52H5	260
D44	R2	RD/GY	0.50 mm²	D1	7 /A.F104F10	SD-4	1 /2.G72G7	2555
D45	R2	BU	0.50 mm²	A180.A	8 /A.E24E2	GEM.IPL	9 /1.I111I11	1530
D46	R2	RD/YE	0.50 mm²	SD-59	1 /3.D133D13	GEM.IPL	14 /1.I111I11	1045
D47	R2	GY	0.50 mm²	GEM.IPL	17 /1.I111I11	SD-4	1 /3.G72G7	1140
D49	R2	GN	0.50 mm²	Q2.	3 /3.G73G7	GEM.IPL	19 /1.I121I12	1140
D51	R2	GN/YE	0.50 mm²	Q18.	1 /3.H33H3	GEM.IPL	23 /1.I121I12	755
D52	R2	GN/WH	0.75 mm²	GEM.BL	2 /1.H101H10	B2	4 /A.I134I13	1565
D53	R2	BU/WH	0.75 mm²	GEM.BL	3 /1.H101H10	X61.	1 /A.F34F3	1730
D54	R2	YE/BU	0.50 mm²	GEM.BR	1 /1.H81H8	RB6	D2 /1.G51G5	370
D55	R2	GN/YE	0.75 mm²	B2	6 /A.I134I13	GEM.BR	4 /1.H91H9	1530
D56	R2	BU	0.75 mm²	GEM.EN	3 /1.I121I12	B1	4 /A.H104H10	1685
D59	R2	GN	0.75 mm²	GEM.EN	4 /1.I121I12	B1	18 /A.J104J10	1685
D62	R2	GN	0.75 mm²	O18.	5 /3.H63H4	GEM.EN	4 /1.I121I12	790
D65	R2	BU/YE	0.50 mm²	A11.X	5 /A.H24H2	GEM.IPL	2 /1.I101I10	2180
D67	R2	BU/WH	0.50 mm²	SD-56	1 /1.D161D16	GEM.IPL	16 /1.I111I11	650
D68	R2	VT	0.50 mm²	RB3	10 /1.K81K6	CTC4	16 /1.B141B14	320
D69	R2	GN	0.50 mm²	A11.X	4 /A.G24G2	A180.B	11 /A.C24C2	1510
D70	R2	YE	0.50 mm²	GEM.IPR	19 /1.I101I10	A35.X	11 /3.A23A2	880
D71	R2	BU	0.50 mm²	GEM.IPR	20 /1.I101I10	RB6	C2 /1.H51H5	265
D72	R2	BU	0.50 mm²	GEM.IPR	22 /1.I101I10	Q2	4 /3.G73G7	1105
D73	R2	BK	0.50 mm²	O18.	3 /3.H43H4	SD-40	1 /1.F23F2	845
D74	R2	BK	0.50 mm²	Q2.	2 /3.G73G7	SD-48	1 /A.A124A12	710
D75	R2	BK	0.50 mm²	SD-48	1 /A.A124A12	Q2.	5 /3.G73G7	710
D82	R2	BK	0.50 mm²	Q18.	7 /3.H43H4	SD-47	1 /A.A94A9	765
D84	R2	RD	4.00 mm²	SD-21	1 /1.D21D2	FB1	1P /1.C91C9	120
D84A	R2	RD	2.50 mm²	A14.B	4 /1.C11C1	SD-21	1 /1.D21D2	60
D84B	R2	RD	2.50 mm²	SD-21	1 /1.D21D2	A14.B	5 /1.C11C1	60
D84C	R2	RD	2.50 mm²	SD-21	1 /1.D21D2	A14.B	6 /1.C11C1	60
D85	R2	RD	0.75 mm²	FB1	1S /1.D91D9	Q20.	4 /3.H73H7	890
D86	R2	RD/YE	0.75 mm²	Q20.	6 /3.H73H7	FB1	31P /1.C61C6	890
D87	R2	RD/GN	0.75 mm²	FB1	31S /1.D61D6	A15.A	7 /3.A43A4	630
D88	R2	RD/WH	4.00 mm²	SD-5	1 /1.E11E11	Q20.	1 /3.H73H7	850
D89	R2	RD/WH	1.00 mm²	SD-5	1 /1.E11E11	FB1	32P /1.C61C6	40
D91	R2	RD/WH	1.00 mm²	SD-5	1 /1.E11E11	FB1	35P /1.C61C6	40
D93	R2	RD/WH	1.00 mm²	SD-5	1 /1.E11E11	FB1	37P /1.C61C6	40
D94	R2	RD/WH	1.00 mm²	SD-5	1 /1.E11E11	FB1	22P /1.C71C7	40
D95	R2	RD/WH	1.00 mm²	SD-5	1 /1.E11E11	FB1	39P /1.C61C6	40
D96	R2	RD	0.50 mm²	SD-54	1 /1.E15E15	RB2	5 /1.J51J5	350
D97	R2	RD	0.50 mm²	RB8	D3 /1.G71G7	RB8	D1 /1.G71G7	120
D98	R2	RD/GN	0.50 mm²	FB1	35S /1.D61D6	RB3	5 /1.J61J6	270
D99	R2	BK	0.50 mm²	SD-10	1 /1.D31D3	RB3	6 /1.K61K6	375
D100	R2	RD	1.50 mm²	SD-14	1 /1.D31D3	FB1	28P /1.C71C7	120
D101	R2	RD	1.50 mm²	E2	8 /A.E13E13	FB1	28S /1.D71D7	1210
D102	R2	RD	0.75 mm²	SD-14	1 /1.D31D3	FB1	13P /1.C81C8	120
D103	R2	RD	0.75 mm²	FB1	13S /1.D81D8	RB8	D3 /1.G71G7	270
D104	R2	RD	2.50 mm²	SD-18	1 /1.C41C4	FB1	4P /1.C81C8	50
D105	R2	RD	1.50 mm²	SD-16	1 /1.C31C3	FB1	29P /1.C71C7	120
D106	R2	RD	1.50 mm²	FB1	14P /1.C81C8	SD-25	1 /1.D31D3	50
D107	R2	RD	2.50 mm²	A14.B	19 /1.D11D1	FB1	38P /1.C91C9	180
D108	R2	RD	2.50 mm²	A14.B	17 /1.D11D1	SD-65	1 /1.C21C2	60
D109	R2	RD	1.50 mm²	SD-25	1 /1.D31D3	FB1	21P /1.C71C7	50
D110A	R2	RD	2.50 mm²	SD-25	1 /1.D31D3	A14.B	20 /1.D11D1	130
D110B	R2	RD	2.50 mm²	SD-25	1 /1.D31D3	A14.B	21 /1.D11D1	130
D111	R2	RD	1.50 mm²	SD-25	1 /1.D31D3	FB1	18P /1.C71C7	50
D112	R2	RD	1.50 mm²	SD-18	1 /1.C41C4	FB1	41P /1.C51C5	50
D113	R2	RD	0.50 mm²	RB6	C3 /1.H51H5	RB6	C1 /1.H51H5	120
D114	R2	RD	0.50 mm²	RB6	D3 /1.G51G5	RB6	D1 /1.G51G5	120
D115	R2	RD	1.50 mm²	SD-18	1 /1.C41C4	FB1	42P /1.C31C3	50
D117	R2	RD	2.50 mm²	SD-65	1 /1.C21C2	RB7	A3 /1.H61H6	390
D118	R2	RD	2.50 mm²	SD-65	1 /1.C21C2	A14.B	18 /1.D11D1	60
D125	R2	RD	4.00 mm²	SD-45	1 /1.E81E8	FB1	7P /1.C81C8	210
D125A	R2	RD	2.50 mm²	SD-45	1 /1.E81E8	A14.B	14 /1.D11D1	390
D125B	R2	RD	2.50 mm²	SD-45	1 /1.E81E8	A14.B	15 /1.D11D1	390
D125C	R2	RD	2.50 mm²	SD-45	1 /1.E81E8	A14.B	16 /1.D11D1	390
D126	R2	RD/WH	4.00 mm²	SD-35	1 /1.F71F7	RB1	4 /1.J41J4	60
D128	R2	RD	0.75 mm²	SD-14	1 /1.D31D3	FB1	27P /1.C71C7	120
D129	R2	RD	0.75 mm²	FB1	27S /1.D71D7	RB8	B3 /1.G71G7	270
D130	R2	BK	0.50 mm²	RB8	B2 /1.G61G6	SD-10	1 /1.D31D3	375
D136	R2	RD	4.00 mm²	SD-22	1 /3.D23D12	RB3	4 /1.J61J6	895
D136A	R2	RD	2.50 mm²	A14.B	1 /1.C11C1	SD-22	1 /3.D23D12	925
D136B	R2	RD	2.50 mm²	SD-22	1 /3.D23D12	A14.B	2 /1.C11C1	925
D136C	R2	RD	2.50 mm²	SD-22	1 /3.D23D12	A14.B	3 /1.C11C1	925
D137	R2	RD	4.00 mm²	SD-38	1 /1.D101D10	RB3	2 /1.J61J6	260
D138	R2	RD	2.50 mm²	FB1	8P /1.C81C8	SD-38	1 /1.D101D10	260
D139	R2	RD	1.50 mm²	SD-38	1 /1.D101D10	FB1	43P /1.C51C5	20
D141	R2	RD/YE	0.50 mm²	RB7	D3 /1.G61G6	RB7	D1 /1.G61G6	120
D142	R2	RD	0.75 mm²	SD-38	1 /1.D101D10	FB1	44P /1.C51C5	20
D144	R2	RD	1.50 mm²	SD-38	1 /1.D101D10	FB1	36P /1.C61C6	20
D147	R2	RD/GN	0.50 mm²	SD-3	1 /3.D43D4	Q7.	8 /4.H74H7	1125
D148	R2	RD/GN	0.50 mm²	SD-3	1 /3.D43D4	Q2.	6 /3.G73G7	495
D149	R2	RD/GN	0.50 mm²	C1	8 /4.G104G10	FB1	35S /1.D61D6	1400
D150	R2	RD/GN	0.50 mm²	FB1	36S /1.D61D6	A180.A	12 /4.I120I12	1530
D152	R2	RD/GN	0.75 mm²	FB1	37S /1.D61D6	D1	1 /4.E104E10	1400
D153	R2	RD/GN	1.00 mm²	FB1	22S /1.D71D7	A16.A	24 /2.G92G9	1115
D154	R2	RD/GN	0.50 mm²	SD-70	1 /1.D121D12	SD-55	1 /3.C23C2	500
D155	R2	BU	0.50 mm²	RB2	1 /1.J51J5	A1	14 /4.K104K10	1550
D156	R2	BU	0.50 mm²	RB2	4 /1.J51J5	E2	4 /4.E13E13	1650
D157	R2	BU	0.50 mm²	RB8	D2 /1.G71G7	A1	12 /4.K104K10	1550
D158	R2	WH/RD	0.75 mm²	RB8	D5 /1.G71G7	A1	11 /4.K104K10	1550
D159	R2	RD	2.50 mm²	RB3	9 /1.K61K6	FB1	4S /1.D81D8	270
D160	R2	RD/BU	2.50 mm²	A2	1 /4.J134J13	RB3	7 /1.K61K6	1360
D161	R2	RD	1.50 mm²	FB1	20S /1.D71D7	A15.A	A4 /3.A43A4	630
D162	R2	RD	1.00 mm²	FB1	14S /1.D81D8	Q7.	11 /4.I7417	1670
D163	R2	RD	2.50 mm²	G1.1	1 /3.H43H4	FB1	38S /1.D61D6	475
D2F	R2	RD	2.50 mm²	A180.A	11 /4.D24D2	A35.X	14 /3.A23A2	1755
D2G	R2	RD	0.50 mm²	SD-66	1 /4.D54D5	FB1	21S /1.D71D7	1130
D2H	R2	RD	0.50 mm²	A11.X	31 /4.I24I2	SD-66	1 /4.D54D5	1000
D3A	R2	RD	1.50 mm²	FB1	16P /1.D51D5	RB6	C3 /1.H51H5	270
D3B	R2	RD	1.50 mm²	FB1	8S /1.D81D8	RB6	D2 /1.G51G5	1025
D3C	R2	RD	1.50 mm²	FB1	8S /1.D81D8	SD-57	1 /4.C114C11	1200
D3D	R2	RD/YE	1.50 mm²	FB1	8S /1.D81D8	RB6	B5 /1.G51G5	270
D3E	R2	RD/WH	0.75 mm²	RB6	B3 /1.G51G5	A3.	7 /3.J93J9	995
D3F	R2	RD	1.50 mm²	SD-10	1 /1.D31D3	RB6	A4 /1.H51H5	375
D3G	R2	RD/YE	0.50 mm²	SD-46	1 /1.F81F8	RB6	A5 /1.H51H5	60
D3H	R2	RD/YE	1.50 mm²	FB1	43S /1.D51D5	SD-46	1 /1.F81F8	210
D3I	R2	BN	0.50 mm²	A1	9 /A.J104J10	RB6	A2 /1.H51H5	1550
D3J	R2	RD	1.50 mm²	SD-58	1 /1.D41D4	FB1	30P /1.C61C6	B2
D3K	R2	WH/RD	0.75 mm²	B2	10 /A.I134I13	RB7	D5 /1.G61G6	1360
D3L	R2	GY/WH	0.50 mm²	SD-61	1 /1.D91D9	SD-58	1 /1.D41D4	1360
D3M	R2	GY/OG	0.50 mm²	SD-59	1 /3.D133D13	Q7.	16 /4.I7417	975
D3N	R2	BU/GN	0.50 mm²	SD-71	1 /1.F71F7	Q7.	13 /4.I7417	1860
D3O	R2	RD/GN	0.75 mm²	FB1	47P /1.C51C5	FB1	48P /1.C51C5	0
D3P	R2	BU	0.75 mm²	FB1	47S /1.D51D5	A2	10 /4.J134J13	1210
D3Q	R2	BU	0.75 mm²	FB1	5S /1.D51D5	B1	11 /4.I104I10	1400
D3R	R2	BU	0.75 mm²	FB1	48S /1.D51D5	A2	9 /4.J134J13	1210
D3S	R2	BK	0.75 mm²	SD-24	1 /1.E13E13	A14.B	9 /1.F71F7	1210
D3T	R2	BK	0.75 mm²	A35.X	7 /3.A23A2	A180.C	9 /4.B24B2	1360
D3U	R2	BK	1.50 mm²	A35.X	6 /3.A23A2	A180.B	13 /4.C24C2	1525
D3V	R2	BK	1.50 mm²	A35.X	5 /3.A23A2	A180.B	14 /4.C24C2	1525
D3W	R2	BK	1.50 mm²	A35.X	4 /3.A23A2	A180.B	15 /4.C24C2	1525
D3X	R2	BK	1.50 mm²	A35.X	3 /3.A23A2	A180.B	16 /4.C24C2	1525
D3Y	R2	BK	1.50 mm²	A35.X	2 /3.A23A2	A180.B	17 /4.C24C2	1525
D3Z	R2	BK	1.50 mm²	A35.X	1 /3.A13A1	A180.B	2 /4.C24C2	1625
D4A	R2	BN	0.50 mm²	A35.X	6 /3.A23A2	A180.B	13 /4.C24C2	1525
D4B	R2	GN/YE	0.50 mm²	A35.X	7 /3.A23A2	A180.C	9 /4.B24B2	1470
D4C	R2	BU	0.50 mm²	A35.X	8 /3.A23A2	A180.C	8 /4.B24B2	1320
D4D	R2	BU	0.50 mm²	A35.X	9 /3.A23A2	A180.C	7 /4.B24B2	1270
D4E	R2	BU	0.50 mm²	A35.X	10 /3.A23A2	A180.C	6 /4.B24B2	1220
D4F	R2	BU/OG	0.50 mm²	Q2.	8 /3.G73G7	Q7.	6 /4.I7417	1120
D4G	R2	BU/GY	0.50 mm²	Q20.	2 /3.H73H7	Q7.	12 /4.I7417	1420
D4H	R2	BK	0.50 mm²	RB7	A2 /1.H51H5	SD-23	1 /1.E13E13	260
D4I	R2	GN/YE	0.75 mm²	Q7.	2 /4.I7417	A2	7 /4.J134J13	860
D4J	R2	WH	0.50 mm²	A35.X	4 /3.A23A2	A180.B	15 /4.C24C2	1525
D4K	R2	BK	0.50 mm²	SD-8	1 /3.D113D11	A180.A	18 /4.E24E2	635
D4L	R2	GY	0.50 mm²	SD-8	1 /3.D113D11	A11.X	11 /4.H24H2	935
D4M	R2	GY	0.50 mm²	A14.B	4 /1.C11C1	SD-21	1 /3.D113D11	Q7.
D4N	R2	GY	0.50 mm²	SD-8	1 /3.D113D11	CTC4	3 /1.A141A14	745
D4O	R2	GY	0.50 mm²	G1.2	1 /3.H43H4	SD-8	1 /3.D113D11	530
D4P	R2	BK	0.50 mm²	SD-8	1 /3.D113D11	SD-8	1 /3.H43H4	510
D4Q	R2	BK	0.50 mm²	Q7.	10 /4.I7417	SD-47	1 /4.A94A9	770
D4R	R2	BK	2.50 mm²	G1.1	2 /3.H43H4	SD-23	1 /1.E13E13	415
D4S	R2	BK	0.50 mm²	A35.X	5 /3.A23A2	A180.B	14 /4.C24C2	1525
D4T	R2	BK	0.50 mm²	A35.X	3 /3.A23A2	A180.B	16 /4.C24C2	1525
D4U	R2	GN/WH	0.50 mm²	A35.X	2 /3.A23A2	A180.B	1 /4.C24C2	1575
D4V	R2	BU	0.50 mm²	A35.X	1 /3.A13A1	A180.B	2 /4.C24C2	1625
D4W	R2	BN	0.50 mm²	A35.X	6 /3.A23A2	A180.B	13 /4.C24C2	1525
D4X	R2	GN/YE	0.50 mm²	A35.X	7 /3.A23A2	A180.C	9 /4.B24B2	1470
D4Y	R2	GN	0.50 mm²	A35.X	8 /3.A23A2	A180.C	8 /4.B24B2	1320
D4Z	R2	BU	0.50 mm²	A35.X	9 /3.A23A2	A180.C	7 /4.B24B2	1270
D5A	R2	BU	0.50 mm²	A35.X	10 /3.A23A2	A180.C	6 /4.B24B2	1220
D5B	R2	BK	0.50 mm²	A35.X	12 /3.A23A2	A180.C	5 /4.B24B2	1320
D5C	R2	BK	0.50 mm²	A35.X	16 /3.A33A3	SD-40	1 /1.F21F2	1205
D5D	R2	BK	0.50 mm²	A180.A	14 /4.D24D2	SD-48	1 /4.A124A12	620
D5E	R2	WH	0.35 mm²	A180.C	7 /4.B24B2	A36.X	1 /3.J103J10	1000
D5F	R2	WH	0.35 mm²	A36.X	2 /3.J103J10	SD-48	1 /4.A124A12	665
D5G	R2	WH	0.35 mm²	A180.A	6 /4.E24E2	A36.X	3 /3.J103J10	885
D5H	R2	WH	0.35 mm²	A180.A	7 /4.E24E2	A36.X	4 /3.J103J10	885
D5I	R2	YE	0.50 mm²	A7.	2 /2.H52H5	C1	16 /4.H104H10	2815
D5J	R2	BU	0.50 mm²	A7.	3 /2.H52H5	C1	17 /4.H104H10	2785
D5K	R2	BK	0.50 mm²	A7.	4 /2.H52H5	C1	16 /4.H104H10	2755
D5L	R2	BN	0.50 mm²	A7.	5 /2.H52H5	C1	15 /4.H104H10	2785
D5M	R2	BK	0.50 mm²	SD-9	1 /4.B124B12	A7.	1 /2.H52H5	2425
D5N	R2	BK	0.50 mm²	S8.A	14 /3.J83J8	SD-48	1 /4.A124A12	695
D5O	R2	BU/GN	0.50 mm²	B1	14 /4.I104I10	SD-9	1 /4.B124B12	1400
D5P	R2	BU/GN	0.50 mm²	B1	5S /1.D51D5	A11.X	10 /4.H24H2	1680
D5Q	R2	WH	1.50 mm²	GY/WH	1 /4.E24E2	S8.A	3 /3.J73J7	1750
D5R	R2	WH	1.50 mm²	YE/WH	1 /4.E24E2	S8.A	3 /3.J73J7	1730
D5S	R2	WH	1.50 mm²	RD/WH	1 /4.E24E2	A16.B	2 /2.B92B9	1730
D5T	R2	WH	1.50 mm²	GY/WH	1 /4.E24E2	S8.A	3 /3.J73J7	1750
D5U	R2	WH	1.50 mm²	YE/WH	1 /4.E24E2	S8.A	3 /3.J73J7	1730
D5V	R2	WH	1.50 mm²	RD/WH	1 /4.E24E2	A16.B	2 /2.B92B9	1730
D5W	R2	WH	1.50 mm²	GY/WH	1 /4.E24E2	S8.A	3 /3.J73J7	1750
D5X	R2	WH	1.50 mm²	YE/WH	1 /4.E24E2	S8.A	3 /3.J73J7	1730
D5Y	R2	WH	1.50 mm²	RD/WH	1 /4.E24E2	A16.B	2 /2.B92B9	1730
D5Z	R2	WH	1.50 mm²	LTGN/RD	1 /2.C92C9	A16.B	17 /2.C92C9	1650
D6A	R2	WH	1.50 mm²	LTGN/BK	1 /2.C92C9	A16.B	18 /2.C92C9	1610
D6B	R2	BK	0.50 mm²	OG/GN	1 /2.C92C9	A11.X	17 /4.H24H2	A180.C
D6C	R2	BK	0.50 mm²	YE/BK	1 /2.C92C9	A16.B	12 /2.C92C9	A22.1
D6D	R2	BK	0.50 mm²	YE/GN	1 /2.C92C9	A16.B	11 /2.C92C9	A22.1
D6E	R2	BK	0.50 mm²	WH/BK	1 /2.C92C9	A16.A	9 /2.F92F9	A22.2
D6F	R2	BK	0.50 mm²	WH/GN	1 /2.C92C9	A16.A	10 /2.F92F9	A22.2
D6G	R2	BK	0.50 mm²	Q21.	6 /1.F151F15	A16.A	16 /2.F92F9	1290
D6H	R2	BK	0.50 mm²	YE/RD	1 /2.C92C9	A16.B	10 /2.C92C9	A29.
D6I	R2	BK	0.50 mm²	A11.X	6 /4.H24H2	A180.B	3 /4.C24C2	1360
D6J	R2	BK	0.50 mm²	A11.X	9 /4.H24H2	A180.B	8 /4.B24B2	1360
D6K	R2	BK	0.50 mm²	SD-20	1 /4.A104A10	A11.X	12 /4.H24H2	750
D6L	R2	BK	0.50 mm²	SD-20	1 /4.A104A10	A180.B	8 /4.B24B2	1360
D6M	R2	BK	0.50 mm²	SD-20	1 /4.A104A10	A180.C	10 /4.B24B2	415
D6N	R2	BK	1.50 mm²	A15.A	A6 /3.A43A4	PE3C.1	4 /4.C164C16	1150
D6O	R2	BK	1.50 mm²	A15.A	B3 /3.A43A4	XR	8 /4.A164A16	1160
D6P	R2	BK	1.50 mm²	A15.A	B4 /3.A53A5	XR	9 /4.A164A16	1160
D6Q	R2	BK	1.50 mm²	A15.A	B5 /3.A53A5	XL	9 /1.J21J2	1290
D6R	R2	BK	1.50 mm²	A15.A	B6 /3.A53A5	XL	9 /1.J21J2	1290
D6S	R2	BK	1.50 mm²	A15.A	A8 /3.A43A4	PE3C.1	4 /4.C164C16	1130
D6T	R2	BK	1.50 mm²	A3.	3 /3.J93J9	SD-47	1 /4.I9441	625
D6U	R2	BK	1.50 mm²	A3.	9 /3.J93J9	A1	8 /4.J104J10	1055
D6V	R2	BK	1.50 mm²	A1	7 /4.J104J10	A3.	8 /3.J93J9	1055
D6W	R2	BK	1.50 mm²	A1	1 /1.F81F8	A3.	6 /3.J93J9	935
D6X	R2	BK	0.50 mm²	Q2.	7 /3.G73G7	RB7	A1 /1.H51H5	1040
D6Y	R2	BU/OG	0.50 mm²	Q2.	8 /3.G73G7	Q7.	6 /4.I7417	1120
D6Z	R2	BU/GY	0.50 mm²	Q20.	2 /3.H73H7	Q7.	12 /4.I7417	1420
D7A	R2	BK	0.50 mm²	RB7	A2 /1.H51H5	SD-23	1 /1.E13E13	260
D7B	R2	GN/YE	0.75 mm²	Q7.	2 /4.I7417	A2	7 /4.J134J13	860
D7C	R2	WH	0.50 mm²	A35.X	4 /3.A23A2	A180.B	15 /4.C24C2	1525
D7D	R2	BK	0.50 mm²	SD-8	1 /3.D113D11	A180.A	18 /4.E24E2	635
D7E	R2	GY	0.50 mm²	SD-8	1 /3.D113D11	A11.X	11 /4.H24H2	935
D7F	R2	GY	0.50 mm²	A14.B	4 /1.C11C1	SD-21	1 /3.D113D11	Q7.
D7G	R2	GY	0.50 mm²	SD-8	1 /3.D113D11	CTC4	3 /1.A141A14	745
D7H	R2	GY	0.50 mm²	G1.2	1 /3.H43H4	SD-8	1 /3.D113D11	530
D7I	R2	BK	0.50 mm²	SD-8	1 /3.D113D11	SD-8	1 /3.H43H4	510
D7J	R2	BK	0.50 mm²	Q7.	10 /4.I7417	SD-47	1 /4.A94A9	770
D7K	R2	BK	2.50 mm²	G1.1	2 /3.H43H4	SD-23	1 /1.E13E13	415
D7L	R2	BK	0.50 mm²	A35.X	5 /3.A23A2	A180.B	14 /4.C24C2	1525
D7M	R2	BU	0.50 mm²	A35.X	3 /3.A23A2	A180.B	16 /4.C24C2	1525
D7N	R2	GN/WH	0.50 mm²	A35.X	2 /3.A23A2	A180.B	1 /4.C24C2	1575
D7O	R2	BU	0.50 mm²	A35.X	1 /3.A13A1	A180.B	2 /4.C24C2	1625
D7P	R2	BN	0.50 mm²	A35.X	6 /3.A23A2	A180.B	13 /4.C24C2	1525
D7Q	R2	GN/YE	0.50 mm²	A35.

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Device Names	Qty.	Manufacturer	Part Number	Description	Alternative

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A190.	4			0.2-0.5 MQS RECEPTICLE FEMALE 962885	
SIADIS	4			0.3-0.5 TERMINAL MALE 282404-1	
A15.A,A7.,Q10.A,Q15.A,Q3.	16			0.5-1.0 JPT	
A183.X1,A190.	2			Cover PBT-GF0	
A5.X	16			DELPHI SOCKET TERMINAL 12129484	
ANTENNA1	1			End Point	
SD-10,SD-11,SD-12,SD-13,SD-14 SD-15,SD-16,SD-17,SD-18,SD-19 SD-20,SD-21,SD-22,SD-23,SD-24 SD-25,SD-26,SD-29,SD-3,SD-32 SD-33,SD-34,SD-35,SD-36,SD-37 SD-38,SD-4,SD-40,SD-42,SD-43 SD-44,SD-45,SD-46,SD-47,SD-48 SD-5,SD-52,SD-53,SD-54,SD-55 SD-56...	58			GENERAL SPLICE	
FB1,SD-19	160			Losely Wound Tape	
A183.X1,A190.	2			Sealing MVQ-30	
FB1	0			Spot Tape	
FB1	675			Wrapping Hose	
XL,XR	21	DELPHI	ID400529	FEMALE TERMINAL 0.5-1.0	
XL,XR	4	DELPHI	ID400530	FEMALE TERMINAL 1.5-2.5	
XL,XR	4	DELPHI	ID400792	FEMALE TERMINAL 1.5-2.5	
Q17.	1	DSG-CANUSA	CPX355-48	SHRINK TUBE CPX355-48	
RB1,RB2,RB3,RB4	4	EPC	E-379	ISO RELAY WEDGE E-379	
RB5,RB6,RB7,RB8	4	EPC	E-380	MICRO-ISO RELAY WEDGE E-380	
RB1,RB2,RB3,RB4	4	EPC	E-386	SPACER ISO RELAY WEDGE E-386	
RB5,RB6,RB7,RB8	4	EPC	E-387	SPACER MICRO-ISO RELAY WEDGE E-387	
FB1	1	EPC	E-6037	FUSE PANEL ASSEMBLY	
A5.X	1	ESMA	12110250	HOUSING 16 PIN ID613256	
A5.X	1	ESMA	12110251	SECONDARY LOCK ID613257	
A5.X	1	ESMA	12146933	SEALING 12146933	
XL,XL1,XR	3	ESMA	15344010	CONNECTOR FEMALE 27 PIN ESMA 15344010	
XL,XL1,XR	3	ESMA	FT10	RUBBER GROMMET FT10	
A22.2	1	FCI	14005601	CONNECTOR 2PIN FEMALE BLACK 14005601	
A22.1	1	FCI	14005611	CONNECTOR 2PIN FEMALE BROWN 14005611	
A1	1	FCI	211BC051004	FRAME FEM. COMPL. 211BC051004 BEIGE	
A2	1	FCI	211BC056004	FRAME FEM. COMPL. 211BC056004 BLUE	
A1.1	1	FCI	211BL051004	FRAME MALE COMPL. 211BL051004 BEIGE	
A1,B1,C1,C2,D1,D2	89	FCI	211CC2S1120	0.35-0.75 TERMINAL FEMALE 211CC2S1120	
A2	1	FCI	211PC123S5004	CONNECTOR 12PIN FEMALE 211PC123S5004 GREEN	9148269 (VOLVO)
B2	1	FCI	211PC123S6004	CONNECTOR 12PIN FEMALE 211PC123S6004 BLUE	9148268 (VOLVO)
E2	1	FCI	211PC123S9004	CONNECTOR 12PIN FEMALE 211PC123S9004 WHITE	9148265 (VOLVO)
D1,D2	2	FCI	211PC182S2004	CONNECTOR 18PIN FEMALE 211PC182S2004 RED	9148272 (VOLVO)
C1,C2	2	FCI	211PC182S4004	CONNECTOR 18PIN FEMALE 211PC182S4004 YELLOW	9148273 (VOLVO)
A1	1	FCI	211PC182S5004	CONNECTOR 18PIN FEMALE 211PC182S5004 GREEN	9148275 (VOLVO)
B1	1	FCI	211PC182S6004	CONNECTOR 18PIN FEMALE 211PC182S6004 BLUE	9148274 (VOLVO)
Q3.	1	FCI	60210401	CONNECTOR 7PIN FEMALE 60210401	
Q10.A,Q15.A	2	FCI	60211501	CONNECTOR 7PIN FEMALE 60211501	
Q20.	1	FCI	60231111	CONNECTOR 7PIN FEMALE 60231111	
A1,B1,C1	7	FCI	9148072	1. 0-2.0 FEMALE TERMINAL 1.5 SICMA 2	
A2,B2	14	FCI	9148079	0.3-1.0 SICMA 2 FEMALE TERMINAL	
A2,B2,E2	8	FCI	9148080	1.0-3.0 FEMALE TERMINAL 2.8 SICMA 2	
E2	3	FCI	9148081	3.0-5.0 FEMALE TERMINAL 2.8 SICMA 2	
A1.1	1	FCI	9148287	CONNECTOR 18PIN MALE 211PL182S5004 GREEN	
Q20.	1	G&HARTMAN	949678	0.5-1.0 TERMINAL FEMALE STD TIMER 949678	
Q20.	2	G&HARTMAN	949681	4.1-6.0 TERMINAL FEMALE STD TIMER 949681	
PE3C.1,PE3C.2,PE4C.5,PE4C.6	4	G&HARTMAN	970789	1.5-2.5 TERMINAL RING M6 970789	
PE1&2B.1,PE1&2B.2,PE1&2C.1 PE1&2C.2,PE4B.1,PE4B.2,PE4C.1 PE4C.2,PE4C.3,PE4C.4	10	G&HARTMAN	970794	RING TERMINAL M6 2.6-6.0	
C144,C145,C146,C147,C148,C151 C163,C170	8	HELLERMANN	CBT30MR	CLIP EDGE W/CABLE TIE CBT30MR	
A29.,A31.	2	HELLERMANN	T18R SV-1000	CABLE TIE T18R SV-1000	
C149,C150,C152,C153,C161,C162 C164	7	HELLERMANN	T50R-FT7 BLACK	CLIPS T50R-FT7 BLACK	
C159,C160	2	HELLERMANN TYTON	981163	CLIPS T30MRT2.5	
C165,C167,C169	3	HELLERMANN TYTON	T50RSBS5.N66-BK	WELD STUD FIXING TIE BLACK	
Q23.	1	JETPRESS	434.00.22.0	CONNECTOR 8 PIN FEMALE 434,00,22,0	
Q22.	1	JETPRESS	434.00.22.5	CONNECTOR 8 PIN FEMALE 434.00.22.5	
Q18.	1	JETPRESS	434.00.22.6	CONNECTOR 8 PIN FEMALE 434.00.22.6	
G1.1	1	KB COMPONENTS	5516410	CONNECTOR 2PIN FEMALE FASTON 5516410	
X84.	1	KB COMPONENTS	5518520	FASTON HOUSING BLACK 2 PIN FEMALE	
RLY1,RLY2,RLY3,RLY4,RLY5,RLY6	6	KG KNUTSSON HANDELS AB	HELLA 4RD003520137	12V Relay MINI	
RLY15,RLY16,RLY17,RLY18,RLY19 RLY20,RLY22,RLY24,RLY26	9	KG KNUTSSON HANDELS AB	HELLA 4RD007814017	12V Relay MICRO w Resistor	TYCO V23074-A1001-A403
Q17.	1	LEAR	16840.562.699	CONNECTOR FEMALE 8PIN 16840.562.699	
SD-57,SD-58	2	LEAR	25770.123.178	SPLICE LEAR 25770.123.178	
Q7.	1	LEAR	98AG-14489-TTB	CONNECTOR 16PIN FEMALE LEAR	
FB1	1	LEAR	F2DB-14474-AA	MINIFUSE TERMINAL 4.0-6.0	
FB1	55	LEAR	F2DB-14474-CA	MINIFUSE TERMINAL 1.5-2.5	
FB1	36	LEAR	F2DB-14474-DA	MINIFUSE TERMINAL 0.5-1.0	
RB1,RB2,RB4	10	LEAR	F4UB-14474-AA	ISO TERMINAL 4.0-6.0	
Fs131,Fs149	2	LITTELFUSE	029707.5	MINIFUSE 7,5AMP.029707.5	
Fs119,Fs125,Fs127,Fs130,Fs132 Fs134,Fs135,Fs137,Fs138,Fs142 Fs143,Fs144,Fs150,Fs151,Fs157	15	LITTELFUSE	297005	MINIFUSE 5AMP.297005	
Fs117,Fs118,Fs120,Fs123,Fs124 Fs128,Fs136,Fs140,Fs147,Fs152 Fs153,Fs154,Fs155,Fs156	14	LITTELFUSE	297010	MINIFUSE 10AMP .297010	
Fs122,Fs126,Fs139,Fs141,Fs145 Fs146,Fs158	7	LITTELFUSE	297015	MINIFUSE 15AMP .297015	
Fs121,Fs129,Fs133,Fs148	4	LITTELFUSE	297020	MINIFUSE 20AMP.297020	
Fs112,Fs113,Fs114,Fs115,Fs116	5	LITTELFUSE	299020	MAXIFUSE 20AMP .299020	
Fs111	1	LITTELFUSE	299025	MAXIFUSE 25A .299025	
Fs109	1	LITTELFUSE	299030	MAXIFUSE 30AMP.299030	
Fs110	1	LITTELFUSE	299040	MAXIFUSE 40AMP.299040	
Q18.,Q22.,Q23.	13	MOLEX	0988952014	0.35.1.0 TERMINAL FEMALE 0988952014	
A35.X	1	MOLEX	43020-2000	CONNECTOR FEMALE 20PIN MICROFIT	
A35.X	18	MOLEX	43031-0001	0.35-0.5 TERMINAL FEMALE MICROFIT	
RB3,RB4	7	REPRO	F2AB-14474-BA	ISO TERMINAL 1.5-2.5	
RB1,RB2,RB3,RB4	16	REPRO	F2AB-14474-CA	ISO TERMINAL 0.5-1.0	
FB1	8	REPRO	F65B-14474-HA	MAXIFUSE TERMINAL 1.5-2.5	
FB1	8	REPRO	F65B-14474-JA	MAXIFUSE TERMINAL 4.0-6.0	
RB6,RB7,RB8	20	REPRO	F65B-14474-MA	½-ISO SMALL TERM. 0.5-0.75	
RB6,RB7,RB8	16	REPRO	F65B-14474-NA	½-ISO LARGE TERM. 1.5-2.5	
RB6,RB7,RB8	10	REPRO	F65B-14474-RA	½-ISO SMALL TERM. 1.5-2.5	
RB7,RB8	4	REPRO	F65B-14474-SA	½-ISO LARGE TERM. 0.5-0.75	
SD-19	2170	SCHLEMMER	1926304	CORRUGATED TUBE BLACK Ø 7.1/5.0 SLIT	
SD-19	130	SCHLEMMER	1926307	CORRUGATED TUBE BLACK Ø 9.9/6.9 SLIT	
C156	1	SCHLEMMER	8207366	P-CLIPS 40mm	
C157	1	SIEFVERT SKRUFV	98AG-14A390-VD	CABLE PROTECTOR Y SHAPE	
A7.	1	Sasco Holz GmbH	1096618	HOUSING 8 PIN BLACK VT92PH08BK*T	
FB1,PE4B.1,SD-19,SD-60	11065	TESA	51608-09-15	TAPE TEXTILE TESA 51608-09-15	
Q21.	1	TYCO	0-1419158-6	CONNECTOR 6PIN FEMALE 0-1419158-6	
GEM.IPL	1	TYCO	1-1419158-8	GEM CONNECTOR 23 SOCKET HARNESS ASSEMBLY D	
GEM.EN	1	TYCO	1-1419158-9	GEM CONNECTOR 23 SOCKET HARNESS ASSEMBLY C	
A14.B	21	TYCO	1-968851-1	1.0-2.5 TERMINAL FEMALE 1-968851-1	
A182.X	4	TYCO	1123343-1	0.35-0.5 TERMINAL FEMALE 1123343-1	
CTC4	1	TYCO	1241728-1	SOCKETHOUSING 3xPQ+24xMQS	
CTC4	1	TYCO	1355543-1	COVER WITH SLIDE 42POS MQS 1355543-1	
S8.A	1	TYCO	1355915-1	CONNECTOR 14PIN FEMALE 1355915-1	
A182.X	1	TYCO	1379659-5	CONNECTOR 8PIN FEMALE 1379659-5	
A16.A,A16.B,GEM.BL,GEM.BR GEM.EN,GEM.IPL,GEM.IPR,Q21.	48	TYCO	1393366-1	0.5-0.75 TERMINAL FEMALE GET 1393366-1	
A36.X	1	TYCO	1393382-2	CONNECTOR FEMALE 4PIN 1393382-2	
A16.A	1	TYCO	1438103-9	24 WAY ARM PLUG ASSEMBLY WITHOUT SHORTING BARS	
A16.B	1	TYCO	1438435-1	40 WAY ARM PLUG ASSEMBLY WITHOUT SHORTING BARS	
A29.,A31.	2	TYCO	1452018-1	CONNECTOR FEMALE 6PIN BU-GEH	
H7.1,H7.2,Q32.1,Q32.2,Q4.1 Q4.2	6	TYCO	160684-2	0.5-1.0 TERMINAL FEMALE FASTON 2.8x0.5	
Q13.2	1	TYCO	160915-2	0.5-1.0 TERMINAL FEMALE FASTON 6.3 160915-2	
G1.2,Q13.1	2	TYCO	160915-2	0.5-1.0 TERMINAL FEMALE FASTON 6.3 160915-2	
G1.1	2	TYCO	160917-2	1.0-2.5 TERMINAL FEMALE FASTON 160917-2	
GEM.BR	1	TYCO	2-1419158-0	GEM CONNECTOR 23 SOCKET HARNESS ASSEMBLY B	
GEM.BL	1	TYCO	2-1419158-1	GEM CONNECTOR 23 SOCKET HARNESS ASSEMBLY A	
GEM.IPR	1	TYCO	2-1419158-2	GEM CONNECTOR 23 SOCKET HARNESS ASSEMBLY E	
SIADIS	1	TYCO	282106-1	CONNECTOR 4PIN MALE SUPERSEAL 282106-1	
A14.B	1	TYCO	8-968975-1	CONNECTOR 21PIN FEMALE 8-968975-1	
A21.X	1	TYCO	828922-1	CAVITY PLUG 1.5/2.5/4.0MM PIN 828922-1	
AUX_EQUIPMENT_12V_POWER,G1.2 Q1.1,Q1.2,Q13.1	5	TYCO	926539-6	HOUSING FEMALE 1PIN FASTON 6.3	
A15.A,A15.B,Q10.A,Q15.A	16	TYCO	927768-1	1.5-2.5 TERMINAL FEMALE 927768-1	
Q17.	7	TYCO	927771-1	0.5-1.1 TERMINALE FEMALE JPT 927771-1	
A11.X	1	TYCO	929053-1	SHIELD CONNECTOR 32PIN FEMALE MQS	
A15.A	1	TYCO	963120-1	CONNECTOR 8PIN FEMALE GREY 963120-1	
A15.B	1	TYCO	963121-1	CONNECTOR 8PIN FEMALE BROWN 963121-1	
A183.X1	4	TYCO	965906-1	0.5-0.75 TERMINAL FEMALE MQS 965906-1	
A183.X1,A190.	2	TYCO	967640-1	CONNECTOR 4PIN FEMALE 967640-1	
A11.X	1	TYCO	968265-1	CONNECTOR 32PIN FEMALE MQS	
X61.	1	Tyco	1-962343-1	HOUSING 3 PIN 4113015	
S8.A	10	Tyco	1326028-5	FEMALE TERMINAL 0,5-1.0	
A29.,A31.	2	Tyco	1452020-1	COVER BU-GEH	
A29.,A31.	2	Tyco	1452021-1	FRAME BU-GEH	
Q1.1,Q1.2	2	Tyco	160916-2	F.ON 6.3 1.1-2.5	
X15	2	Tyco	173631-1	AWG16-20 Female 070 MLC	
X15	1	Tyco	174921-1	MLC 070 3 Pin Female	
A180.A,A180.B	30	Tyco	175265-1	0.40II AWG22-AWG18 Terminal Female	
A180.A,A180.C	20	Tyco	175268-1	0.70II AWG22-AWG18 Terminal Female	
X84.	2	Tyco	180351-5	3.0-6.0 FASTON FEMALE	
A180.C	1	Tyco	917978-1	CONNECTOR TYCO 12 PIN FEMALE	
A180.B	1	Tyco	917981-1	CONNECTOR TYCO 16 PIN FEMALE	
A180.A	1	Tyco	917992-1	CONNECTOR TYCO 26 PIN FEMALE	
H7.1,H7.2,Q32.1,Q32.2,Q4.1 Q4.2	6	Tyco	925387-1	Faston 1 Pin Insulation Sleeve 2.8 Clear	
X61.	3	Tyco	962943-2	MICROTIMER 0.5-1.0	
A11.X,CTC4	47	Tyco	963715-1	SOCKET TERMINAL MQS 0.50-0.75	
CTC4	3	Tyco	968073-2	Q-LOCK FEMALE 2.5-4.0	
A21.X	7	YAZAKI	7116-4102-02	0.35-0.5 TERMINAL FEMALE 7116-4102-02	
A21.X	7	YAZAKI	7158-3030-50	SWS YAZAKI ID1.19-1.70 7158-3030-50	
A21.X	1	YAZAKI	7283-5685-10	HOUSING 8 PIN	
Q2.	1	YAZAKI	7283-6455-40	CONNECTOR 10PIN FEMALE 7283-6455-40	
A3.	1	YAZAKI	7283-6457-40	CONNECTOR 10PIN FEMALE 7283-6457-40	
A29.,A31.,Q2.,Q20.,Q7.	19	YAZAKI	9168502	0.5 TERMINAL FEMALE 9168502	
Q2.,Q20.,Q7.	9	YAZAKI	9168504	0.75-1.0 TERMINAL FEMALE 9168504	
GEM.BL,GEM.BR,GEM.EN,GEM.IPL GEM.IPR,Q7.	18	YAZAKI	9168510	FEMALE TERMINAL 0.75-1.0	
A3.,GEM.BL,GEM.EN	13	YAZAKI	9168512	FEMALE TERMINAL 1.5-2.5	

Rev.	Description	Change Req.	Date	Prepared	Approved
A	New Harness for RHD	-	20101102	MSV	____

Document type	HARNESS		
Prepared by	MSV		
File name	A306 MY2011 Pre-series		
Approved by		Sheet Size	A1
Created	18.11.2010	Change Date	20101102
Page	6 of 6		
Description	A306 RHD HARNESS DASH		
Drawing no	541.4025.A	Status	DRAFT

Plotted: 16.05.2011 13:35 msv

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LABEL LAYOUT
Harness Supplier: Think Part No:
Date:
Batch Sequence:
Test:
Barcode
L1

LABEL HERE

[INTERFACE TO DASH HARNESS]
E2. E2/WHITE
SEE VIEW E1 (BEIGE)
D1/RED
C1. /YELLOW
B1. /BLUE
A1. /GREEN

[PCU] A13.J1

A13.J1

A805 CABLE TIE
COVER FOR TYCO 62 PIN 1418882-1

CONNECTOR END AND CORR. HOSE OR PVC OVERTAPED MIN. ONE TAPE WIDTH ON EACH

CORRUGUAL HOSE END OVERTAPED MINIMUM ONE TAPE-WIDTH AND THERE AFTER CROSS-TAPED OVER THE T-BRANCH

[SIDE REP. RF.] H3.
[SIDE REP. LF] H6
[HEAD LAMP LEVELING RH] A192
[HEAD LAMP LEVELING LH] A191
Head-lamp levelling connector to be tied-back (with paper tape) to the main branch
[HEAD LAMP RH] P2.
[HEAD LAMP LH] P9.

MAKE CRIMP SLEEVE A644 MINIMUM 70mm TO COVER THE BOLT, NUT, TERMINAL AND WIRE
Sleeve
120°
[DASH CONNECTION]
SC:1

[VACUUM PUMP] M5.
[TRACTION MOTOR SENS.] A24.SIG
A605
[WIPER MOTOR] M10.
Harness drawing view
Stud entry
Cable

[RADIATOR FAN 2]
[RADIATOR.. FAN 1] M3. M4.
[RESISTOR] A28.
[INERTIA SWITCH] Q14.

[ABS WHEEL SENSOR RF] S4.
[ABS WHEEL SENSOR LF] S2.
[ABS CONTROL UNIT] A10-2.X
[BMS] A23.X2
[PAS] A17.B
POS A
BMS
30°
(OVERLAP CRIMP SLEEVE AND CORRUGATED TUBE WITH MINIMUM 30mm)

[HORN I] A9.
[HORN II] A18.
[WASHER PUMP] M12.
[BRAKE FLUID SENSOR] Q8.
[COOLANT WATER PUMP #1] M8.
[COOLANT WATER PUMP #2] M2.

[AMBIENT AIR TEMP SENSOR] S7.
[FLUID HEATER] [CABIN WATER PUMP] X5
A806
Fluid Heater and Cabin Water Pump Connectors to be Tied-back (with paper tape) to the main branch

DO NOT CUT CABLE TIES, POSITION OF LOCKING WILL BE DECIDED LATER

CABLE TIE SHALL BE PLACED AROUND ALL BRANCHES

Head-Lamp Levelling Connector to be Tied-back (with paper tape) to the main branch

ALL CONNECTOR VIEWS ARE SEEN FROM THE WIRE SIDE IF NOTHING ELSE IS STATED

CABLES F430+F431, F432+F433, F483+F484, F424+F425, F426+F427, F428+F429, F791+F792, F487+F488, F653H + F653L TWISTED 40±2 TURNS/M
CABLES F434L+F434H, F436H+F436L, F570H+F570L, F839H+F839L TWISTED 40±2 TURNS/M
CABLES F326+F327, F751+F752 TWISTED 30±2 TURNS/m

WIRES THAT ENTER THE Y OR T-PIECE WITHOUT CORRUGATED HOSE SHALL BE PROTECTED WITH TAPE
ALL DIMENSIONS FROM Y AND T-PIECES SHALL BE MEASURED FROM CENTER/CROSSING POINT
IF NOTHING ELSE IS GIVEN THE GENERAL TOLERANCE FOR CABLE TIES IS ±5mm

SC	Significant Characteristics
1	TORQUE TO 8Nm +/-1Nm WASHER SHOULD FLATTEN COMPLETLY

ALL GROUND TERMINALS SHALL BE SOLDERED AFTER CRIMP AND COVERED WITH SHRINK SLEEVE

A	N/A	New Model Year	04.11.2010	ESP	MSV	PBA
Revision	Task Number	Description	Date	Change Req	Prepared	Approved

HARNESS — Document type
MSV — Prepared by
A306 MY2011 Pre-series — File name
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A306 — Description
HARNESS FRONT — Drawing no 541.4030.B — Status DRAFT

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Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Length (mm) (Cu)
F1	SK90	RD	25.00 mm²	A44.6	1	/1.G111G11	A14.A	1	/1.D41D4	2050
F38	R2	BN/BK	1.50 mm²	M12.	2	/1.I111111	A1.	6	/1.B101B10	3290
F44	R2	GY/RD	0.50 mm²	D1.	7	/1.B61B6	A13.J1	37	/1.C121C13	1608
F56	R2	BU	0.75 mm²	B1.	1	/1.B91B9	SF-9	1	/1.C31C3	545
F57	R2	BU	0.50 mm²	SF-9	1	/1.C33C3	P2.	4	/1.E11E1	680
F58	R2	BU	0.50 mm²	SF-9	1	/1.C33C3	H3.	1	/1.C11C1	230
F59	R2	GN	0.75 mm²	B1.	18	/1.B101B10	SF-5	1	/1.D121D12	2545
F60	R2	GN	0.50 mm²	SF-5	1	/1.D121D12	P9.	4	/1.H151H15	410
F61	R2	GN	0.50 mm²	SF-5	1	/1.D121D12	H6.	1	/1.F151F15	190
F76	R2	BK	0.50 mm²	SF-4	1	/1.F131F13	H6.	2	/1.F151F15	190
F78	R2	BK	0.50 mm²	SF-11	1	/1.E41E4	H3.	2	/1.C11C1	590
F101	R2	RD	1.50 mm²	E2.	8	/1.B41B4	M3.	2	/1.E91E9	1835
F149	R2	RD/GN	0.50 mm²	A13.J1	47	/1.C131C13	C1.	8	/1.B81B8	1631
F152	R2	RD/YE	0.75 mm²	A10-2.X	32	/1.K41K4	D1.	1	/1.B61B6	2063
F155	R2	BU	0.50 mm²	A13.J1	21	/1.B141B14	A1.	14	/1.B111B11	1675
F156	R2	BN	2.50 mm²	A28.	2	/1.E10E10	E2.	4	/1.B41B4	1895
F157	R2	BU	0.50 mm²	A1.	12	/1.B111B11	A13.J1	22	/1.B141B14	1675
F158	R2	WH/RD	0.75 mm²	SF-6	1	/1.H131H13	A1.	11	/1.B111B11	3030
F173	R2	YE/GN	1.00 mm²	SF-14	1	/1.H81H8	A1.	10	/1.B111B11	1840
F182	R2	BN	0.50 mm²	A1.	9	/1.B111B11	M10.	1	/1.D91D9	1830
F184	R2	RD	1.50 mm²	M12.	1	/1.I111111	A1.	4	/1.B101B10	3290
F187	R2	YE	0.50 mm²	B1.	15	/1.B101B10	A13.J1	23	/1.B141B14	1655
F191	R2	RD/YE	0.50 mm²	D1.	16	/1.B71B7	A17.B	3	/1.J31J3	2533
F196	R2	WH/RD	0.50 mm²	A13.J1	46	/1.C131C13	SF-19	1	/1.E31E3	840
F197	R2	WH/RD	0.50 mm²	SF-19	1	/1.E31E3	B1.	12	/1.B91B9	815
F199	R2	WH/RD	0.50 mm²	SF-19	1	/1.E33E3	A10-2.X	30	/1.K41K4	1295
F202	R2	WH/GN	1.50 mm²	B1.	17	/1.B101B10	P9.	1	/1.H151H15	2955
F203	R2	BU/GN	1.50 mm²	B1.	14	/1.B101B10	P2.	1	/1.E11E1	1225
F207	R2	BU/WH	1.50 mm²	B1.	7	/1.B91B9	P9.	3	/1.H151H15	2955
F208	R2	WH	1.50 mm²	B1.	4	/1.B91B9	P2.	3	/1.E11E1	1225
F229	R2	BU	0.75 mm²	P2.	6	/1.E11E1	B1.	11	/1.B91B9	1225
F231	R2	GN	0.75 mm²	B1.	10	/1.B91B9	P9.	6	/1.H151H15	2955
F240	R2	RD	0.75 mm²	B1.	3	/1.B91B9	SF-20	1	/1.G41G4	1135
F241	R2	RD	0.75 mm²	SF-20	1	/1.G41G4	M7.	1	/1.I616	310
F260	R2	BK	1.50 mm²	SF-4	1	/1.F131F13	M10.	4	/1.D91D9	1355
F262	R2	RD/YE	1.50 mm²	M10.	2	/1.D91D9	A1.	8	/1.B111B11	1830
F263	R2	RD/GN	1.50 mm²	A1.	7	/1.B111B11	M10.	3	/1.D91D9	1830
F275	R2	BK	1.50 mm²	P9.	2	/1.H151H15	SF-4	1	/1.F131F13	410
F276	R2	BK	1.50 mm²	P2.	2	/1.E11E1	SF-11	1	/1.E41E4	1040
F279	R2	BK	0.75 mm²	P9.	5	/1.H151H15	SF-4	1	/1.F131F13	410
F281	R2	BK	0.75 mm²	P2.	5		X125	4		
F328	R2	YE	0.50 mm²	A13.J1	53	/1.C141C14	C1.	18	/1.B81B8	1631
F329	R2	BU	0.50 mm²	A13.J1	49	/1.C131C13	C1.	17	/1.B91B8	1631
F330	R2	GN	0.50 mm²	A13.J1	45	/1.C131C13	C1.	16	/1.B81B8	1631
F331	R2	BN	0.50 mm²	A13.J1	41	/1.C131C13	C1.	15	/1.B81B8	1631
F334	R2	BK	1.00 mm²	SF-11	1	/1.E41E4	SF-23	1	/1.H81H8	945
F363	R2	WH	0.50 mm²	Q8.	2	/1.E151E15	B1.	5	/1.B91B9	3115
F366	R2	BK	0.50 mm²	SF-15	1	/1.F131F13	Q8.	1	/1.E151E15	640
F408	R2	RD/YE	0.75 mm²	M5.	2	/1.D71D7	B1.	9	/1.B91B9	1775
F409	R2	BK	0.75 mm²	SF-4	1	/1.F131F13	M5.	1	/1.D71D7	2110
F410	R2	GN	0.50 mm²	A17.B	4	/1.J31J3	D1.	15	/1.B71B7	2533
F413	R2	YE	0.50 mm²	A17.B	5	/1.J31J3	D1.	14	/1.B71B7	2533
F418	R2	RD	2.50 mm²	A10-2.X	25	/1.K31K3	E2.	1	/1.B41B4	2040
F419	R2	RD	4.00 mm²	A10-2.X	1	/1.K11K1	E2.	2	/1.B41B4	2040
F421	R2	BK	4.00 mm²	A10-2.X	13	/1.K21K2	PE1&2A.3	1	/1.K141K14	3645
F423	R2	BU/WH	0.50 mm²	A10-2.X	17	/1.K21K2	D1.	2	/1.B61B6	2063
F425H	R2	WH	0.50 mm²	A10-2.X	26	/1.K31K3	SF-7	1	/1.I1111	45
F425L	R2	BU	0.50 mm²	A10-2.X	14	/1.K21K2	SF-3	1	/1.I1111	105
F426	R2	BU/WH	0.50 mm²	D1.	11	/1.B61B6	A10-2.X	19	/1.K31K3	2063
F427	R2	BU	0.50 mm²	D1.	10	/1.B61B6	A10-2.X	31	/1.K41K4	2063
F428	R2	GN/YE	0.50 mm²	D1.	9	/1.B61B6	A10-2.X	33	/1.K41K4	2063
F429	R2	BN	0.50 mm²	D1.	8	/1.B61B6	A10-2.X	20	/1.K31K3	2063
F430	R2	GY/YE	0.50 mm²	A10-2.X	18	/1.K31K3	S4.	2	/1.F21F2	865
F431	R2	GY	0.50 mm²	A10-2.X	6	/1.K21K2	S4.	1	/1.F21F2	865
F432	R2	BN	0.50 mm²	A10-2.X	22	/1.K31K3	S2.	1	/1.H21H2	400
F433	R2	YE/VT	0.50 mm²	A10-2.X	34	/1.K41K4	S2.	2	/1.H21H2	380
F434H	R2	WH	0.50 mm²	SF-2	1	/1.G31G3	D1.	5	/1.B61B6	2503
F434L	R2	BU	0.50 mm²	SF-1	1	/1.H31H3	D1.	6	/1.B61B6	2543
F436H	R2	WH	0.50 mm²	SF-7	1	/1.I1111	A13.J1	8	/1.B131B13	1850
F436L	R2	BU	0.50 mm²	SF-3	1	/1.I1111	A13.J1	7	/1.B131B13	1790
F440H	R2	WH	0.50 mm²	SF-18	1	/1.I1212	A17.B	1	/1.I1313	70
F440L	R2	BU	0.50 mm²	SF-22	1	/1.I1111	A17.B	2	/1.I1313	120
F441H	R2	WH	0.50 mm²	SF-2	1	/1.G31G3	SF-18	1	/1.I1212	1840
F441L	R2	BU	0.50 mm²	SF-1	1	/1.H31H3	SF-22	1	/1.I1111	1630
F442	R2	BK	0.50 mm²	X5	1	/1.I515	SF-11	1	/1.E41E4	790
F443	R2	WH/BU	0.50 mm²	X5	3	/1.I616	A1.	18	/1.B111B11	1855
F444	R2	RD	0.50 mm²	SF-20	1	/1.G41G4	X5	2	/1.I616	500
F456	R2	RD	1.50 mm²	A1.	1	/1.B101B10	A23.X2	11	/1.H41H4	2700
F461	R2	BN	1.00 mm²	A24.SIG	8	/1.D81D8	A13.J1	50	/1.C131C13	765
F462	R2	BU/RD	1.00 mm²	A13.J1	1	/1.B121B12	A23.X2	9	/1.H41H4	2465
F463	R2	RD	0.50 mm²	A1.	2	/1.B101B10	A23.X2	2	/1.H41H4	2700
F464	R2	RD/YE	0.50 mm²	D1.	4	/1.B61B6	A13.J1	2	/1.B121B12	1608
F480	R2	BK	1.00 mm²	A23.X2	1	/1.H41H4	SF-15	1	/1.F131F13	3525
F483	R2	GN	0.50 mm²	A13.J1	6	/1.B121B12	C1.	11	/1.B81B8	1631
F484	R2	GN/WH	0.50 mm²	A13.J1	5	/1.B121B12	C1.	12	/1.B81B8	1631
F485	R2	WH	0.50 mm²	A13.J1	4	/1.B121B12	C1.	13	/1.B81B8	1631
F486	R2	BK/GN	0.50 mm²	C1.	14	/1.B81B8	A13.J1	3	/1.B121B12	1631
F487	R2	GY	0.50 mm²	A13.J1	12	/1.B131B13	A24.SIG	2	/1.C81C8	825
F488	R2	BK/WH	0.50 mm²	SF-17	1	/1.B111B11	A24.SIG	4	/1.D81D8	615
F492	R2	YE/RD	0.50 mm²	A13.J1	59	/1.C141C14	C1.	6	/1.B71B7	1631
F493	R2	BN/BK	0.50 mm²	A13.J1	60	/1.C141C14	C1.	5	/1.B71B7	1631
F494	R2	YE/WH	0.50 mm²	A13.J1	17	/1.B131B13	C1.	4	/1.B71B7	1631
F495	R2	VT/GN	0.50 mm²	A13.J1	61	/1.C141C14	C1.	3	/1.B71B7	1631
F496	R2	BK/GN	0.50 mm²	A13.J1	62	/1.C141C14	C1.	2	/1.B71B7	1631
F497	R2	WH	0.50 mm²	A13.J1	16	/1.B131B13	C1.	1	/1.B71B7	1631
F498	R2	GN	0.50 mm²	A13.J1	15	/1.B131B13	C1.	7	/1.B81B8	1631
F499	FLRT3 ZHXL	BN	0.50 mm²	A13.J1	56	/1.C141C14	A24.SIG	9	/1.D81D8	765
F500	FLRT3 ZHXL	DKGN	0.50 mm²	A13.J1	55	/1.C141C14	A24.SIG	6	/1.D81D8	765
F501	FLRT3 ZHXL	YE	0.50 mm²	A13.J1	52	/1.C141C14	A24.SIG	1	/1.C81C8	825
F502	FLRT3 ZHXL	WH	0.50 mm²	A13.J1	51	/1.C141C14	A24.SIG	3	/1.C81C8	805
F503	R2	RD/YE	0.50 mm²	A13.J1	48	/1.C131C13	C1.	10	/1.B81B8	1631
F507	R2	GN	0.50 mm²	A13.J1	10	/1.B131B13	S7.	1	/1.I515	1315
F508	R2	GY/BK	0.50 mm²	A13.J1	9	/1.B131B13	S7.	2	/1.I515	1315
F516	R2	BN	4.00 mm²	SF-10	1	/1.G91G9	E2.	3	/1.B41B4	1535
F519	R2	BK	0.75 mm²	SF-11	1	/1.E41E4	M7.	2	/1.I616	600
F570H	R2	WH	0.50 mm²	SF-18	1	/1.I1212	SF-7	1	/1.I1111	655
F570L	R2	BU	0.50 mm²	SF-22	1	/1.I1111	SF-3	1	/1.I1111	545
F571	R2	WH/RD	0.75 mm²	SF-6	1	/1.H131H13	M8.	1	/1.J10J10	430
F572	R2	BK	0.75 mm²	SF-4	1	/1.F131F13	M8.	2	/1.J10J10	775
F573	R2	WH/RD	0.75 mm²	SF-6	1	/1.H131H13	M2.	1	/1.K101K10	330
F574	R2	BK	0.75 mm²	M2.	2	/1.K101K10	SF-4	1	/1.F131F13	675
F579	R2	WH/BU	0.50 mm²	A13.J1	20	/1.B141B14	A1.	13	/1.B111B11	1675
F580	R2	GN	1.50 mm²	E2.	9	/1.B51B5	M4.	2	/1.E101E10	1845
F582	R2	BK	1.50 mm²	SF-15	1	/1.F131F13	PE1&2A.1	1	/1.K31K13	600
F583	R2	BK	6.00 mm²	SF-4	1	/1.F131F13	PE4A.1	1	/1.K131K13	685
F600	R2	BU	0.50 mm²	A13.J1	34	/1.C121C12	A1.	16	/1.B111B11	1675
F601	R2	WH	0.50 mm²	A13.J1	36	/1.C121C12	A1.	17	/1.B111B11	1675
F651	R2	BK	6.00 mm²	SF-11	1	/1.E41E4	PE4A.3	1	/1.K131K13	2305
F652	R2	BK	2.50 mm²	A10-2.X	38	/1.K41K4	PE1&2A.2	1	/1.K131K13	3630
F653H	R2	YE	0.50 mm²	D1.	18	/1.B71B7	A10-2.X	37	/1.K41K4	2063
F653L	R2	WH	0.50 mm²	D1.	17	/1.B71B7	A10-2.X	24	/1.K31K3	2063
F700	R2	BU	1.00 mm²	A24.SIG	5	/1.D81D8	Q14.	1	/1.F71F7	1535
F702	R2	RD	1.00 mm²	D1.	13	/1.B71B7	Q14.	3	/1.F71F7	1598
F739	R2	BN	1.50 mm²	SF-10	1	/1.G91G9	M4.	1	/1.E101E10	310
F740	R2	BN	1.50 mm²	M3.	1	/1.E91E9	SF-10	1	/1.G91G9	300
F741	R2	BN	2.50 mm²	SF-10	1	/1.G91G9	A28.	1	/1.E101E10	360
F751	R2	WH	0.50 mm²	A13.J1	13	/1.B131B13	A24.SIG	10	/1.D81D8	765
F752	R2	BK/WH	0.50 mm²	A24.SIG	7	/1.D81D8	SF-17	1	/1.B111B11	595
F775	R2	WH	1.50 mm²	A23.X2	4	/1.H41H4	E2.	10	/1.B51B5	2610
F778	R2	YE	0.50 mm²	SF-16	1	/1.E31E3	D1.	3	/1.B61B6	828
F792H	R2	WH	0.50 mm²	A23.X2	8	/1.H41H4	SF-2	1	/1.G31G3	130
F792L	R2	BU	0.50 mm²	SF-1	1	/1.H31H3	A23.X2	5	/1.H41H4	90
F810	R2	BK/WH	0.50 mm²	SF-17	1	/1.B111B11	A13.J1	11	/1.B131B13	170

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A13.J1	5			0.5-1.0 AMP MCP 2.8 CONTACT FEMALE 1-968855-3	
Q14.	2			0.75-2.0 TERMINAL FEMALE 345806-1	
SF-1,SF-10,SF-11,SF-14,SF-15 SF-16,SF-17,SF-18,SF-19,SF-2 SF-20,SF-22,SF-23,SF-3,SF-4 SF-5,SF-6,SF-7,SF-9	19			GENERAL SPLICE	
X5	1			Rubber Cover 3 Pole Black 975287	
A24.SIG	10			SWS 0.5-1.0mm 1080044522	
	8030			Wrapping Hose	
A203	1		GET14-20	GROMMET M32 IP-67	
A18.,A9.	2	AFL/EPC	XR3T-14A464-AA	CONNECTOR FEMALE 2PIN 1.5 SEALED	
A10-2.X	1	Bosch	1 928 301 083	SWS GREY 0.5-0.75 BTL 1.5 1 928 301 083	
A10-2.X	2	Bosch	1 928 301 085	SWS ORANGE 2.5 BTL 2.8 1 928 301 085	
A10-2.X	2	Bosch	1 928 301 086	SWS BLUE 2.5 BTL 4.8 1 928 301 086	
A10-2.X	19	Bosch	1 928 301 087	DUMMY PLUG 0.5-0.75 BTL 1.5 1 928 301 087	
A10-2.X	14	Bosch	1 928 301 118	SWS RED 0.35-0.5 BTL 1.5 1 928 301 118	
A10-2.X	1	Bosch	1 928 404 982	COVER for Bosch 38 pin 1 928 404 982	
A10-2.X	1	Bosch	1 928 405 167	HOUSING 38 PIN	
A10-2.X	1	Bosch	1 928 498 650	0.5-0.75 FEMALE TERMINAL BTL 1.5	
A10-2.X	2	Bosch	1 928 498 651	2.5 FEMALE TERMINAL BTL 2.8	
A10-2.X	2	Bosch	1 928 498 652	2.5-4.0 FEMALE TERMINAL BTL 4.8	
A10-2.X	14	Bosch	1 928 498 690	0.35-0.5 FEMALE TERMINAL BTL 1.5	
S2.,S4.	2	CHIP MARKETING AB/JETPRESS LIMITED	E9DB-14A163-CA	CLIP EPX E9DB-14A163-CA	
C239	1	DELPHI	12047835-B	CLIP FIR-TREE 12047835-B	
SF-25,SF-26	2	DSG-CANUSA	CPX355-30	SHRINK TUBE CPX355-30	
A191.,A192.	2	Delphi	12147424	HOUSING 3 PIN Delphi	
S7.	1	ENGINEERED PLASTIC COMP. INC	D9AB-14A468-EB	PROT SPAC	
S7.	1	ENGINEERED PLASTIC COMP. INC	F2AB-14A464-JA	PROT HOUSING 2 PIN F2AB-14A464-JA	
C240,C241,C242	3	EPC	E5296	EPC TREE CLIP	
A1.	1	FCI	211BL051004	FRAME MALE COMPL. 211BL051004 BEIGE	
A17.B	5	FCI	211CC2S1120	0.35-0.75 TERMINAL FEMALE 211CC2S1120	
A17.B	1	FCI	211PC052S0081	CONNECTOR 5PIN FEMALE 211PC052S0081	
E2.	1	FCI	211PL123S9004	CONNECTOR 12PIN MALE 211PL123S9004 WHITE	9148277 (VOLVO)
M12.	1	FCI	60400601	CONNECTOR 2PIN FEMALE 60400601	
A1..B1..C1..D1.	52	FCI	9148075	0.3-1.0 MALE TERMINAL 1.5 SICMA 2	
B1..C1.	15	FCI	9148076	1.0-2.0 MALE TERMINAL 1.5 SICMA 2	
E2.	5	FCI	9148085	1.0-3.0 MALE TERMINAL 2.8 SICMA 2	
E2.	2	FCI	9148086	3.0-5.0 MALE TERMINAL 2.8 SICMA 2	
D1.	1	FCI	9148284	CONNECTOR 18PIN MALE 211PL182S2004 RED	
C1.	1	FCI	9148285	CONNECTOR 18PIN MALE 211PL182S4004 YELLOW	
B1.	1	FCI	9148286	CONNECTOR 18PIN MALE 211PL182S6004 BLUE	
A1.	1	FCI	9148287	CONNECTOR 18PIN MALE 211PL182S5004 GREEN	
PE1&2A.1,PE1&2A.2	2	G&HARTMAN	970789	1.5-2.5 TERMINAL RING M6 970789	
PE1&2A.3,PE4A.1,PE4A.3	3	G&HARTMAN	970794	RING TERMINAL M6 2.6-6.0	
C212,C215	2	HARNESSFLEX	TPS322532	T-PIECE NW29-22-29 TPS322532	
A805,A806	2	HELLERMANN TYTON	T30R	CABLE TIE T30R SV-1000	
C218,C219,C220,C221,C229,C231 C232	7	HELLERMANN TYTON	T50RSBS5.N66-BK	WELD STUD FIXING TIE BLACK	
C467,C468,C469,C470,C471,C472 C473,C474,C475,C476,C477,C478 C479,C480,C481,C483,C484,C485 C486,C487,C488	21	HELLERMANNTYTON	T50R-FT7	CLIPS T50R-FT7 Black	
A605,A606	2	HELLERMANTYTON	318-32400	CRIMP SLEEVE HELLERMANTYTON 20/8 W GLUE	
A24.SIG	1	KOSTAL	09 4310 91	CONNECTOR KOSTAL 10 PIN FEMALE	
A24.SIG	10	KOSTAL	2 21 24 44463 0	0.5-1.0 TERMINAL FEMALE 2 21 24 44463 0	
Q8.	1	LEAR	17075.050.000	CONNECTOR 2PIN FEMALE 17075.050.000	
SF-25,SF-26	2	LEAR	25770.123.178	SPLICE LEAR 25770.123.178	
A191.,A192.	4	Lear	25703.123.178	0.35-0.6 TERMINAL SOCKET 1.6 FEMALE 25703.123.178	
A191.,A192.	2	Lear	25704.123.178	0.75-1.5 TERMINAL SOCKET 1.6 FEMALE 25704.123.178	
A44.6	1	MTA	1605910	25-35mm2 Ring Terminal M5 Cu-Sn	
A14.A	1	NELCO	KR25-6	25.0 TERMINAL RING M6	
S7.	2	REPRO	33118-0010	TERMINAL 0.5-0.75	
A645	1	Raychem	Atum-12/4-0	Crimp Sleeve ATUM 12/4-BLACK w/glue	
A644	1	Raychem	RNF-3000-18/6-2-SP	SHRINK SLEEVE 18/6 WO GLUE RED	
	1445	SCHLEMMER		CORRUGATED TUBE NW13 UNSLIT BLACK	
	230	SCHLEMMER	1926100	CORRUGATED TUBE NW10 UNSLIT BLACK	
	1335	SCHLEMMER	1926170	CORRUGATED TUBE NW17 UNSLIT BLACK	
	560	SCHLEMMER	1926229	CORRUGATED TUBE NW29 UNSLIT BLACK	
	415	SCHLEMMER	1926310	CORRUGATED TUBE NW10 SLIT BLACK	
10	1	SCHLEMMER	1926322	CORRUGATED TUBE NW22 SLIT BLACK	
	1885	SCHLEMMER	1926322	CORRUGATED TUBE NW22 SLIT BLACK	
	820	SCHLEMMER	1926326	CORRUGATED TUBE NW26 SLIT BLACK	
C47	1	SCHLEMMER	9806094	T-PIECE NW17-10-17 9806094	
C51	1	SCHLEMMER	9806141	T-PIECE NW17-13-17 9806141	
	740	TESA	51608-09-15	TAPE TEXTILE TESA 51608-09-15	
C285	1	TRELLEBORG AB	1578151	RUBBER CAP 90 DEG	
A13.J1	37	TYCO	1-1241380-3	0.5-1.0 AMP MCP 1.5K CONTACT FEMALE 1-1241380-3	
M10.	1	TYCO	1-1437709-2	0.5-1.0 TERMINAL FEMALE 1-1437709-2	
M10.	3	TYCO	1-1437709-3	1.5-2.5 TERMINAL MALE 1-1437709-3	
S2.,S4.	4	TYCO	1-1437709-5	0.5-1.0 TERMINAL FEMALE 1-1437709-5	
M10.	3	TYCO	1-1437713-3	SWS ID 2.2-2.4 1-1437713-3	
A23.X2	4	TYCO	1-66359-4	0.8-2.0 TERMINAL MALE 1-66359-4	
M2.,M7.,M8.	3	TYCO	1-967412-2	CONNECTOR 2PIN FEMALE JPT 1-967412-2	
A13.J1	1	TYCO	1418882-1	COVER FOR TYCO 62 PIN 1418882-1	
A207	1	TYCO	1534188-1	DISTRIBUTION BOX 21PIN 1534188-1	
Q14.	1	TYCO	172748-2	CAVITY PLUG ECONOSEAL 172748-2	
A23.X2	6	TYCO	2-66102-5	0.2-0.6 TERMINAL MALE 2-66102-5	
M3.,M4.	2	TYCO	282080-1	CONNECTOR 2PIN FEMALE SUPERSEAL 282080-1	
H3.,H6.	2	TYCO	282104-1	CONNECTOR 2PIN MALE SUPERSEAL 282104-1	
H3.,H6.	4	TYCO	282109-1	0.75-1.5 TERMINAL MALE SUPERSEAL 282109-1	
M3.,M4.	4	TYCO	282110-1	0.75-1.5 TERMINAL FEMALE 282110-1	
M10.	1	TYCO	3-1437712-3	CONNECTOR 4PIN FEMALE 3-1437712-3	
P2.,P9.	2	TYCO	344267-1	CONNECTOR 6PIN FEMALE ECONOSEAL III	
Q14.	1	TYCO	344273-1	3 WAY REC. HSG. ASSY. ECONOSEAL 3 LOW CURRENT	
Q14.	1	TYCO	345256-1	LOCK PLATE 3PIN ECONOSEAL 345256-1	
P2.,P9.	2	TYCO	345260-1	LOCK PLATE 6PIN ECONOSEAL 345260-1	
P2.,P9.	12	TYCO	345806-1	0.75-2.0 TERMINAL FEMALE 345806-1	
P2.,P9.,Q14.	14	TYCO	348989-1	SWS ID1.5-2.4 ECONOSEAL III 348989-1	
S2.,S4.	2	TYCO	5-1437710-6	CONNECTOR FEMALE 2 POLE 1.6 SYSTEM	
A23.X2	1	TYCO	796271-1	CONNECTOR 14PIN MALE 796271-1	
X5	1	TYCO	828748-3	CONNECTOR 3PIN FEMALE JPT 828748-3	
A13.J1,M2.,M5.,M7.,M8.	13	TYCO	828904-2	SWS ID1.2-2.1 JPT 828904-2	
M12.	2	TYCO	828905-1	SWS ID2.21-3.9 JPT 828905-1	
H3.,H6.,M3.,M4.	8	TYCO	828921-1	SWS ID 1.2-2.0 SUPERSEAL 828921-1	
A13.J1	1	TYCO	828922-1	CAVITY PLUG 1.5/2.5/4.0MM PIN 828922-1	
X5	3	TYCO	927771-1	0.5-1.1 TERMINALE FEMALE JPT 927771-1	
M12.	2	TYCO	929937-1	1.5-2.5 TERMINAL FEMALE JPT 929937-1	
M2.,M5.,M7.,M8.	8	TYCO	929939-1	0.5-1.0 TERMINAL FEMALE JPT 929939-1	
Q8.	2	TYCO	962876-1	0.5-1.0 TERMINAL FEMALE MCTII 962876-1	
M5.	1	TYCO	963040-3	CONNECTOR 2PIN FEMALE JPT 963040-3	
A13.J1,Q8.	39	TYCO	963530-1	SWS ID1.4-1.9 MCTII 963530-1	
A13.J1	19	TYCO	963531-1	CAVITY PLUG 2.5 SERIES 963531-1	

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A13.J1	1	Tyco	1-1418883-1	CONNECTOR TYCO 62 PIN MALE	
M10.,S2.,S4.	5	Tyco	1-1437713-2	SWS AMP 1-1437713-2	
A18.,A9.	4	YAZAKI	7116-4103-02	TERMINAL YAZAKI	
A28.	2	YAZAKI	7116-4142-02	0.35-0.6 TERMINAL FEMALE 7116-4142-02	
A18.,A9.	4	YAZAKI	7158-3031-90	SWS YAZAKI 7158-3031-90	
A28.	2	YAZAKI	7158-3083	SWS YAZAKI 7158-3083	
A28.	1	YAZAKI	7283-5596-10	CONNECTOR 2PIN FEMALE 7283-5596	

Rev.	Description	Change Req.	Date	Prepared	Approved
A	New Model Year	ESP	20101104	MSV	PBD

HARNESS — Document type
MSV — Prepared by
A306 MY2011 Pre-series — File name
Approved by | A1 | Sheet Size
Created 20100708 | Change Date 20100929 | Page 2 of 2
A306 — Description
HARNESS FRONT — Drawing no 541.4030.B — Status DRAFT

Plotted: 16.05.2011 13:35 MSV

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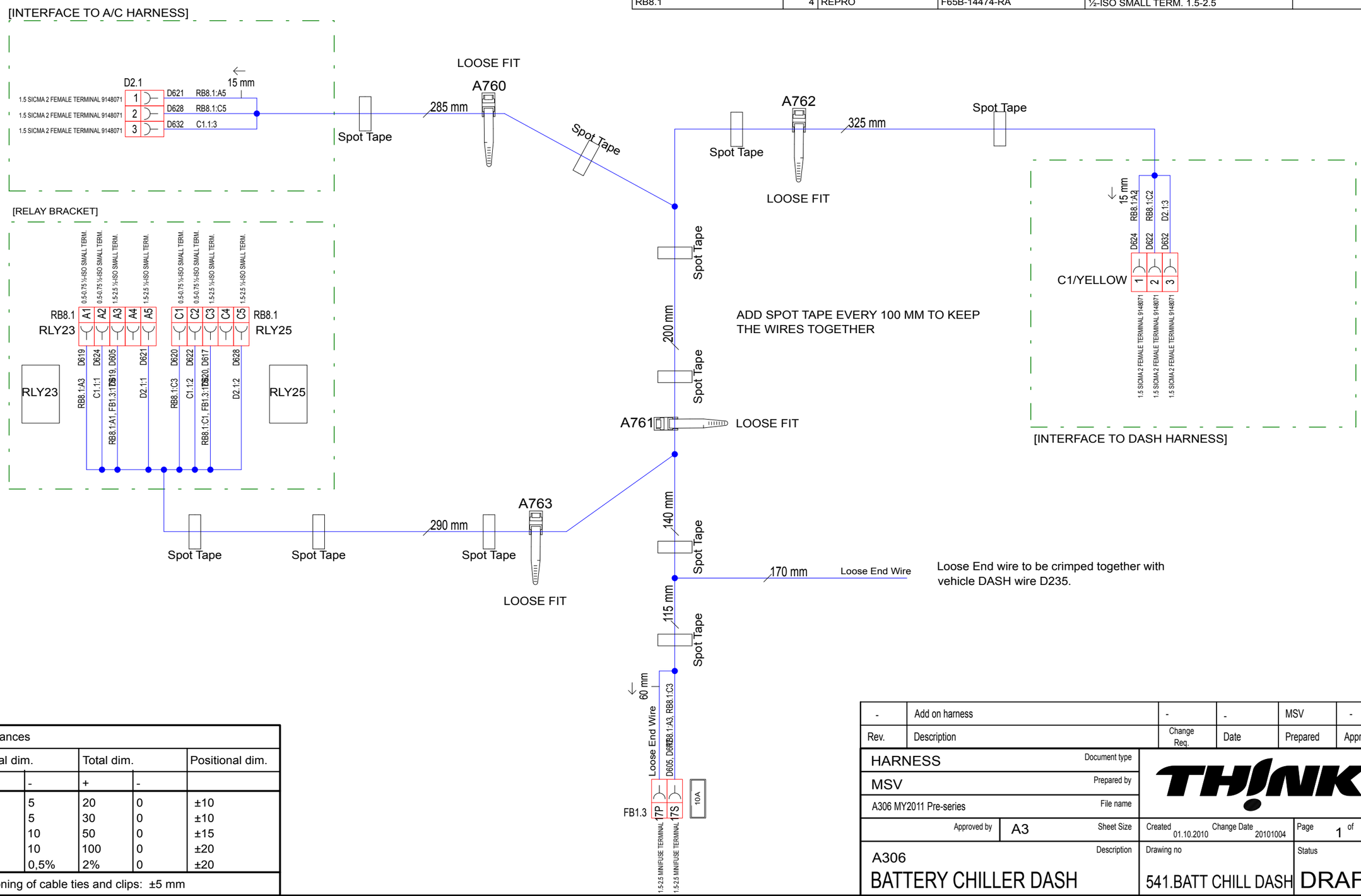
Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
Loose End Wire	R2	RD	2.50 mm²	FB1.3	17P	/1.F41F4	Loose End Wire	/1.E51E5	345
D605	R2	RD	0.75 mm²	RB8.1	A3	/1.C21C2	FB1.3	17S	/1.F41F4	605
D617	R2	RD	0.75 mm²	RB8.1	C3	/1.C21C2	FB1.3	17S	/1.F41F4	605
D619	R2	RD	0.50 mm²	RB8.1	A3	/1.C21C2	RB8.1	A1	/1.C11C1	100
D620	R2	RD	0.50 mm²	RB8.1	C3	/1.C21C2	RB8.1	C1	/1.C21C2	100
D621	R2	RD	0.75 mm²	RB8.1	A5	/1.C21C2	D2.1	1	/1.B21B2	790
D622	R2	WH	0.50 mm²	C1.1	2	/1.B61B6	RB8.1	C2	/1.C21C2	845
D624	R2	BU	0.50 mm²	C1.1	1	/1.B61B6	RB8.1	A2	/1.C11C1	845
D628	R2	RD	0.75 mm²	RB8.1	C5	/1.C21C2	D2.1	2	/1.B21B2	790
D632	R2	WH	0.50 mm²	C1.1	3	/1.B61B6	D2.1	3	/1.B21B2	655

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
Fs108	165			Spot Tape	
A760,A761,A762,A763	4	CHIP MARKETING AB/JETPRESS LIMITED	CAT054-BLK	Strips	
RB8.1	1	EPC	E-380	MICRO-ISO RELAY WEDGE E-380	
RB8.1	1	EPC	E-387	SPACER MICRO-ISO RELAY WEDGE E-387	
C1.1,D2.1	6	FCI	211CC2S1120	0.35-0.75 TERMINAL FEMALE 211CC2S1120	
RLY23,RLY25	2	KG KNUTSSON HANDELS AB	HELLA 4RD007814017	12V Relay MICRO w Resistor	TYCO V23074-A1001-A403
FB1.3	2	LEAR	F2DB-14474-CA	MINIFUSE TERMINAL 1.5-2.5	
Fs108	1	LITTELFUSE	297010	MINIFUSE 10AMP .297010	
RB8.1	4	REPRO	F65B-14474-MA	½-ISO SMALL TERM. 0.5-0.75	
RB8.1	4	REPRO	F65B-14474-RA	½-ISO SMALL TERM. 1.5-2.5	



Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20

General tolerance positioning of cable ties and clips: ±5 mm

Rev.	Description	Change Req.	Date	Prepared	Approved
-	Add on harness	-	-	MSV	-

HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A3 Sheet Size	Created 01.10.2010 Change Date 20101004	Page 1 of 1
A306 BATTERY CHILLER DASH	Description	Drawing no 541.BATT CHILL DASH	Status DRAFT

Plotted: 16.05.2011 13:35 msv

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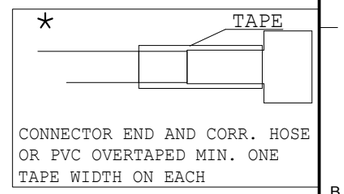
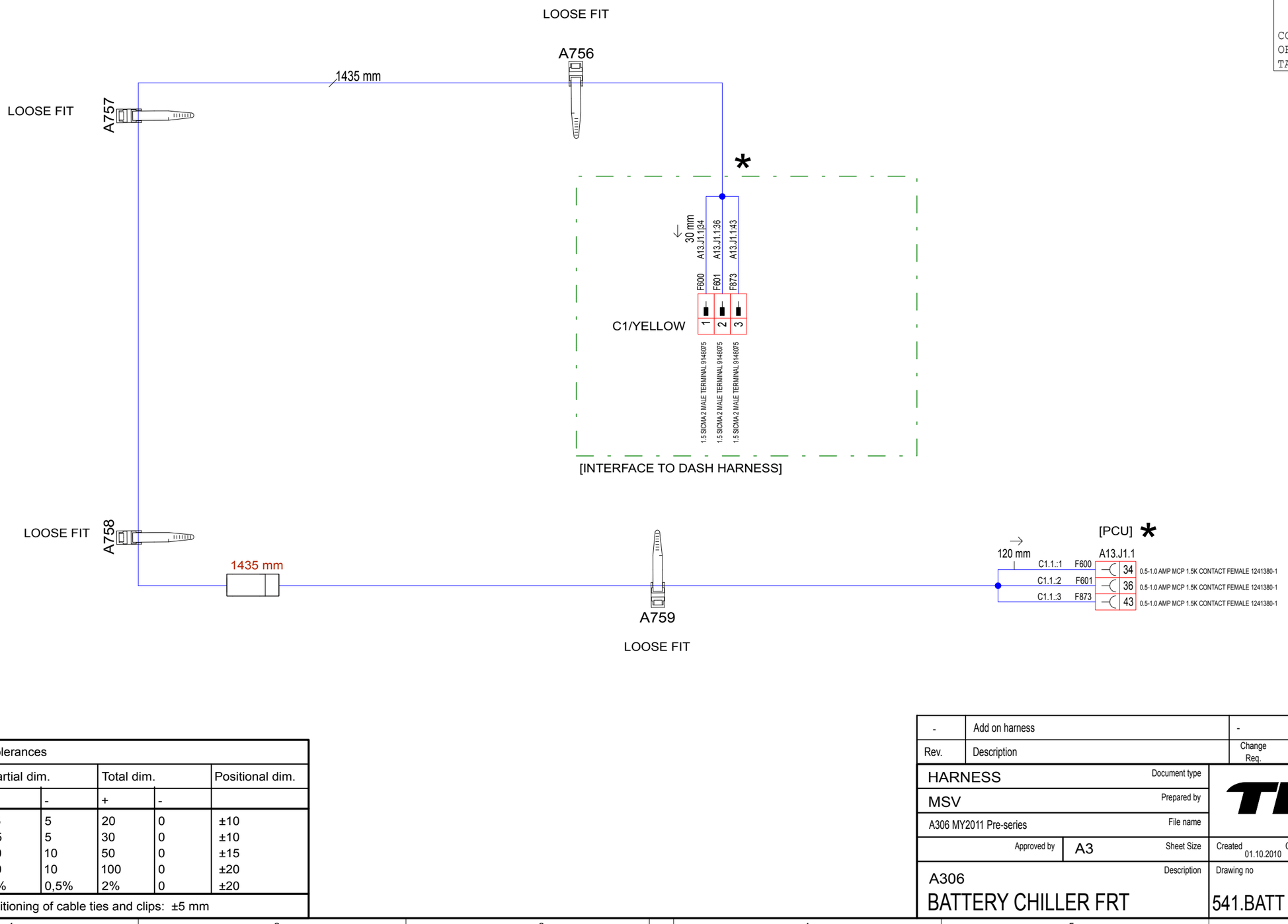
Wire Id	Type	Colour	Size	From		Loc.	To		Loc.	Lenght (mm) (Cu)
F600	R2	BU	0.50 mm²	A13.J1.1	34	/1.E51E5	C1.1.	1	/1.C41C4	1585
F601	R2	WH	0.50 mm²	A13.J1.1	36	/1.E51E5	C1.1.	2	/1.C41C4	1585
F873	R2	WH	0.50 mm²	A13.J1.1	43	/1.E51E5	C1.1.	3	/1.C41C4	1585

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A13.J1.1	1			COVER FOR TYCO 62 PIN 1418882-1	
	1435			Wrapping Hose	
A756,A757,A758,A759	4	CHIP MARKETING AB/JETPRESS LIMITED	CAT054-BLK	Strips	
C1.1.	3	FCI	9148075	MALE TERMINAL 1.5 SICMA 2	
A13.J1.1	3	TYCO	1-1241380-1	0.5-1.0 AMP MCP 1.5K CONTACT FEMALE 1241380-1	
A13.J1.1	1	Tyco	1-1418883-1	CONNECTOR TYCO 62 PIN MALE	





Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

Rev.	Description	Change Req.	Date	Prepared	Approved
-	Add on harness	-	-	MSV	-

HARNESS (Document type)			
MSV (Prepared by)			
A306 MY2011 Pre-series (File name)			
Approved by	A3 (Sheet Size)	Created 01.10.2010 Change Date	Page 1 of 1
A306 (Description)		Drawing no 541.BATT CHILL FRT	Status DRAFT
BATTERY CHILLER FRT			

Plotted: 16.05.2011 13:35 msv

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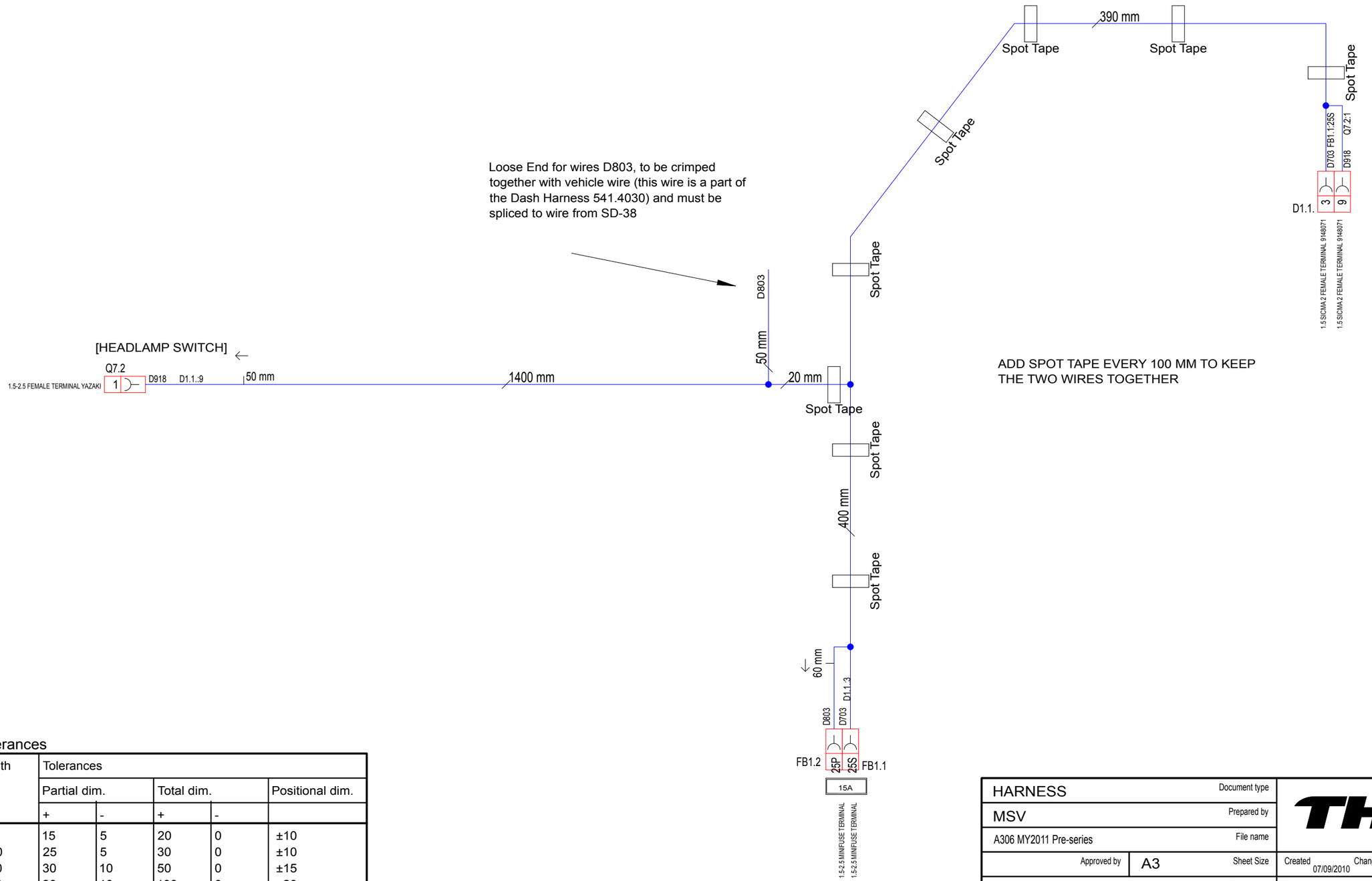
Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
D803	R2	RD	2.50 mm²	FB1.2	25P	/1.E41E4	LOOSE END	1 /1.C41C4	530
D703	R2	RD/YE	1.50 mm²	FB1.1	25S	/1.E41E4	D1.1.	3 /1.C61C6	850
D918	R2	GY	1.50 mm²	Q7.2	1	/1.D11D1	D1.1.	9 /1.C61C6	1860

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
Fs25	0			Spot Tape	
D1.1.	2	FCI	211CC2S1120	0.35-0.75 TERMINAL FEMALE 211CC2S1120	
FB1.1,FB1.2	2	LEAR	F2DB-14474-CA	MINIFUSE TERMINAL 1.5-2.5	
Fs25	1	LITTELFUSE	297015	MINIFUSE 15AMP .297015	
Q7.2	1	YAZAKI	9168512	FEMALE TERMINAL 1.5-2.5	



Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20

General tolerance positioning of cable ties and clips: ±5 mm

Plotted: 16.05.2011 13:35 msv

HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A3 Sheet Size	Created 07/09/2010 Change Date 20100923	Page 1 of 1
A306 HEAD LAMP LEVELLING DASH	Description	Drawing no 541.HEAD LAMP LEV DH	Status DRAFT

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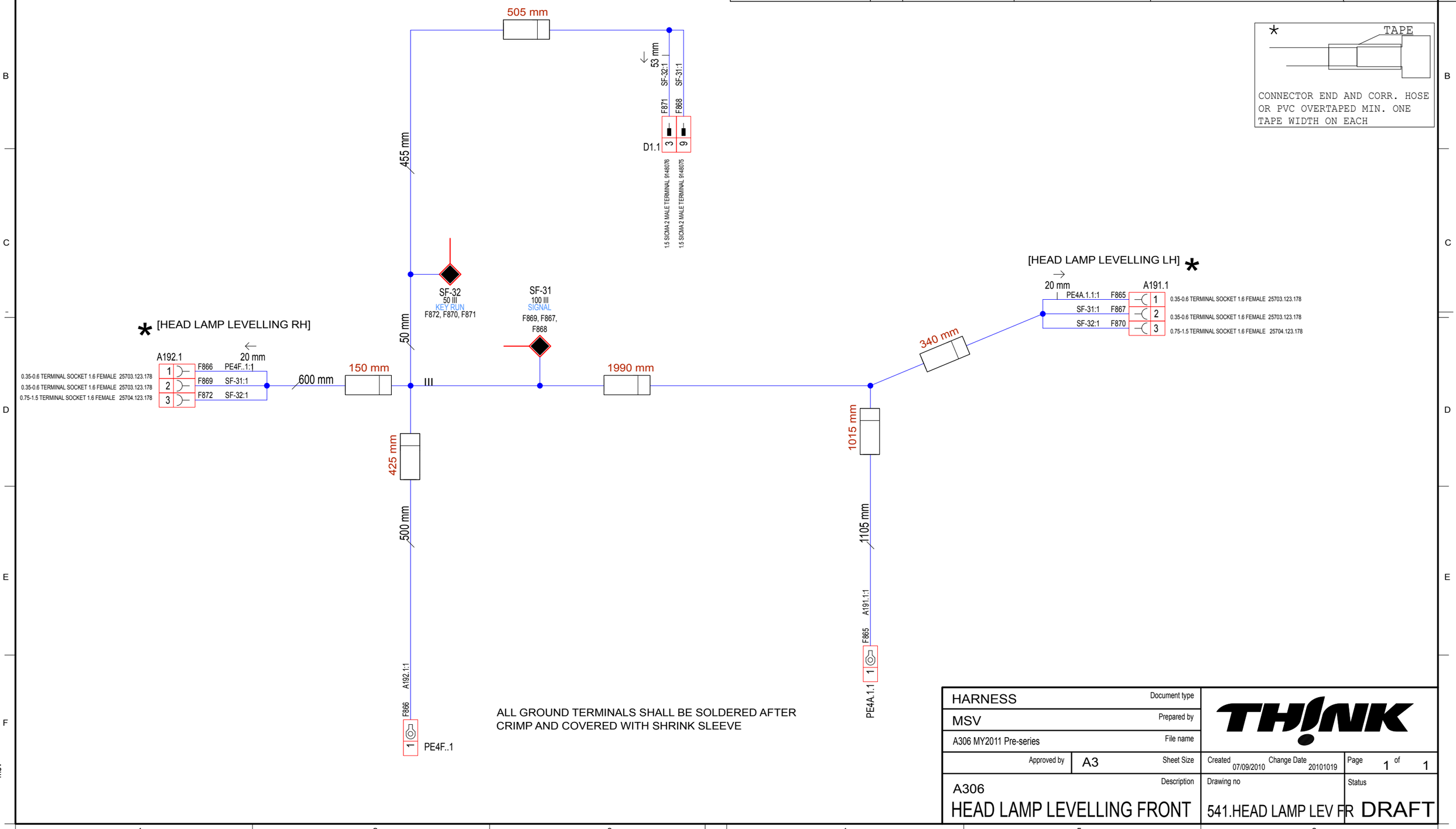
Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
F865	R2	BK	0.50 mm²	A191.1	1	/1.C51C5	PE4A.1.1	1 /1.E41E4	1465
F866	R2	BK	0.50 mm²	A192.1	1	/1.D11D1	PE4F..1	1 /1.F21F2	1120
F867	R2	GY	0.50 mm²	SF-31	1	/1.D31D3	A191.1	2 /1.C51C5	2250
F868	R2	GY	0.50 mm²	D1.1	9	/1.B31B3	SF-31	1 /1.D31D3	658
F869	R2	GY	0.50 mm²	SF-31	1	/1.D31D3	A192.1	2 /1.D11D1	720
F870	R2	RD/YE	1.50 mm²	SF-32	1	/1.C21C2	A191.1	3 /1.D51D5	2400
F871	R2	RD/YE	1.50 mm²	D1.1	3	/1.B31B3	SF-32	1 /1.C21C2	508
F872	R2	RD/YE	1.50 mm²	SF-32	1	/1.C21C2	A192.1	3 /1.D11D1	670

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
	4425			Wrapping Hose	
SF-31,SF-32	2	DSG-CANUSA	CPX355-30	SHRINK TUBE CPX355-30	
A191.1,A192.1	2	Delphi	12147424	HOUSING 3 PIN Delphi	
D1.1	1	FCI	9148075	MALE TERMINAL 1.5 SICMA 2	
D1.1	1	FCI	9148076	MALE TERMINAL 1.5 SICMA 2	
D1.1	1	FCI	9148284	CONNECTOR 18PIN MALE 211PL182S2004 RED	
PE4A.1.1,PE4F..1	2	G&HARTMAN	970783	0.35-1.0 Terminal Ring M6 970783	
SF-31,SF-32	2	LEAR	25770.123.178	SPLICE LEAR 25770.123.178	
A191.1,A192.1	4	Lear	25703.123.178	0.35-0.6 TERMINAL SOCKET 1.6 FEMALE 25703.123.178	
A191.1,A192.1	2	Lear	25704.123.178	0.75-1.5 TERMINAL SOCKET 1.6 FEMALE 25704.123.178	



HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A3 Sheet Size	Created 07/09/2010 Change Date 20101019	Page 1 of 1
A306 HEAD LAMP LEVELLING FRONT	Description	Drawing no 541.HEAD LAMP LEV FR	Status DRAFT

Plotted: 16.05.2011 13:35 msv

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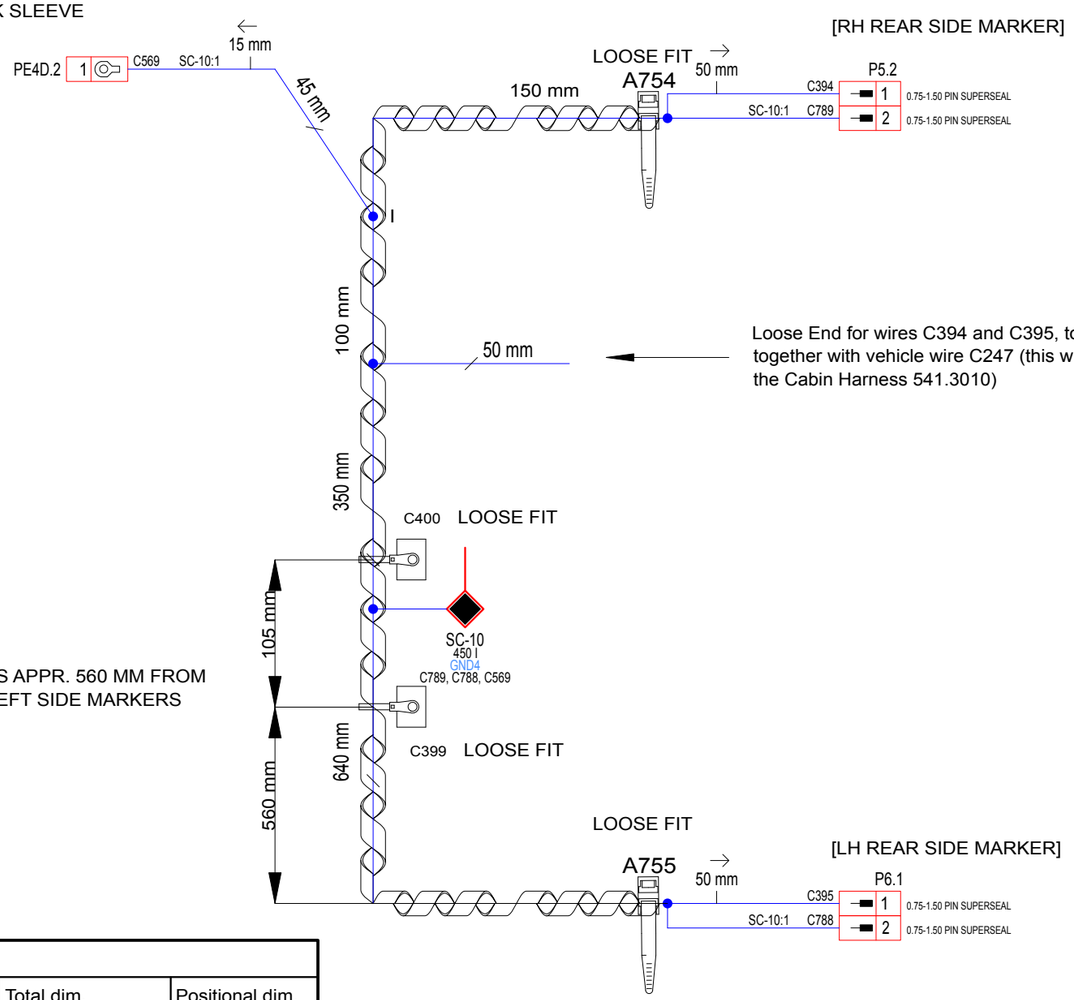
Wire Id	Type	Colour	Size	From		Loc.	To		Loc.	Lenght (mm) (Cu)
C789	R2	BK	0.50 mm²	P5.2	2	/1.C31C3	SC-10	1	/1.D21D2	650
C788	R2	BK	0.50 mm²	P6.1	2	/1.F31F3	SC-10	1	/1.D21D2	690
C394	R2	RD/YE	0.50 mm²	P5.2	1	/1.C31C3	Loose End	1	/1.D31D3	350
C395	R2	RD/YE	0.50 mm²	P6.1	1	/1.F31F3	Loose End	1	/1.D31D3	1090
C569	R2	BK	0.75 mm²	PE4D.2	1	/1.C21C2	SC-10	1	/1.D21D2	510

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
P5.2,P6.1	5			1.80-2.39 SWS SUPERSEAL	
SC-10	1			GENERAL SPLICE	
A755	1980			Losely Wounded Tape	
A754,A755	2	CHIP MARKETING AB/JETPRESS LIMITED	CAT054-BLK	Strips	
PE4D.2	1	G&HARTMAN	970783	0.35-1.0 Terminal Ring M6 970783	
C399,C400	2	HELLERMANN TYTON	156-00049	Clip Edge	
P5.2,P6.1	2	TYCO	282104-1	CONNECTOR 2PIN MALE SUPERSEAL 282104-1	
P5.2,P6.1	4	TYCO	282109-1	0.75-1.5 TERMINAL MALE SUPERSEAL 282109-1	

ALL GROUND TERMINALS SHALL BE SOLDERED AFTER CRIMP AND COVERED WITH SHRINK SLEEVE



Loose End for wires C394 and C395, to be crimped together with vehicle wire C247 (this wire is a part of the Cabin Harness 541.3010)

PUT THE EDGE CLIPS APPR. 560 MM FROM THE BACK OF THE LEFT SIDE MARKERS CONNECTOR.

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

Rev.	Description	Change Req.	Date	Prepared	Approved
-	Add on harness	-	-	MSV	-

HARNESS	Document type		
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
- Approved by	A3 Sheet Size	Created 20100901 Change Date 20101001	Page 1 of 1
A306 Side Marker US	Description	Drawing no 541.SIDE MARKER	Status DRAFT

Plotted: 16.05.2011 13:35 msv

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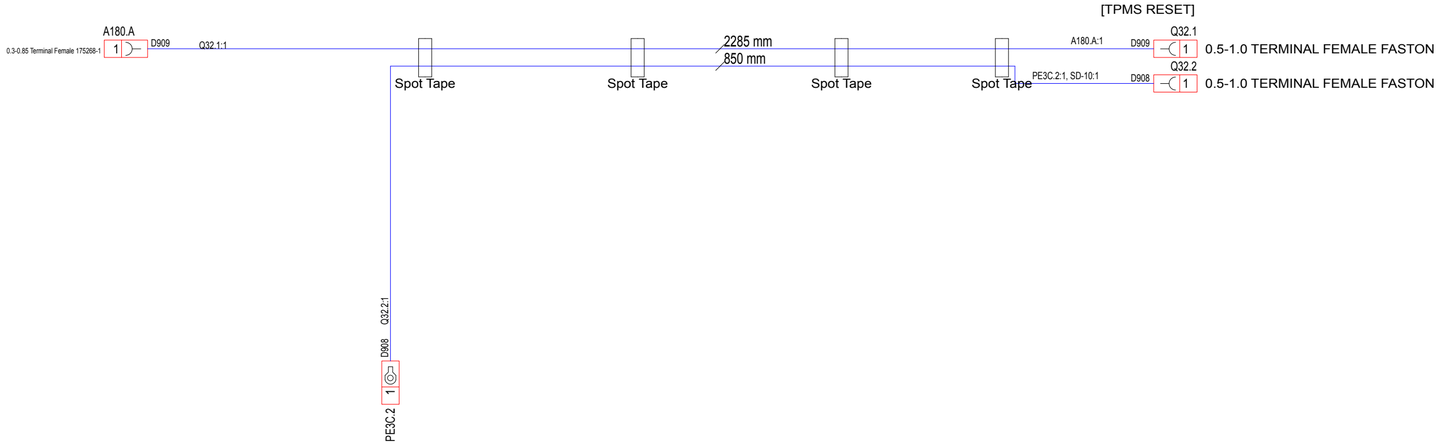
Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
D908	R2	BK	0.50 mm²	SD-23	1 /1.F51F5	Q32.2	1 /1.E71E7	850
D909	R2	GY	0.50 mm²	A180.A	1 /1.E31E3	Q32.1	1 /1.E71E7	2285

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
PE3C.2	1	G&HARTMAN	970789	1.5-2.5 TERMINAL RING M6 970789	
Q32.1,Q32.2	2	TYCO	160684-2	0.5-1.0 TERMINAL FEMALE FASTON 2.8x0.5	
A180.A	1	Tyco	175268-1	0.70II AWG22-AWG18 Terminal Female	
A180.A	1	Tyco	917992-1	CONNECTOR TYCO 26 PIN FEMALE	
Q32.1,Q32.2	2	Tyco	925387-1	Faston 1 Pin Insulation Sleeve 2.8 Clear	

ADD SPOT TAPE EVERY 100 MM TO KEEP
THE TWO WIRES TOGETHER



ALL GROUND TERMINALS SHALL BE
SOLDERED AFTER CRIMP AND COVERED
WITH SHRINK SLEEVE

CABLES TPMS855H and TPMS855L TWISTED 40 +/- 2 TURNS/m

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20

General tolerance positioning of cable ties and clips: ±5 mm

Rev.	Description	Change Req.	Date	Prepared	Approved
-	Rework Harness for TPMS US market	US	20100815	MSV	-

Document type: HARNESS	Prepared by: MSV		
File name: A306 MY2011 Pre-series			
Approved by	Sheet Size: A2	Created: 20100901 Change Date: 20101012	Page: 1 of 1
Description: A306 TPMS DASH	Drawing no: 541.TPMS DASH	Status: DRAFT	

Plotted: 16.05.2011 13:35 msv

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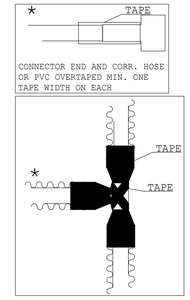
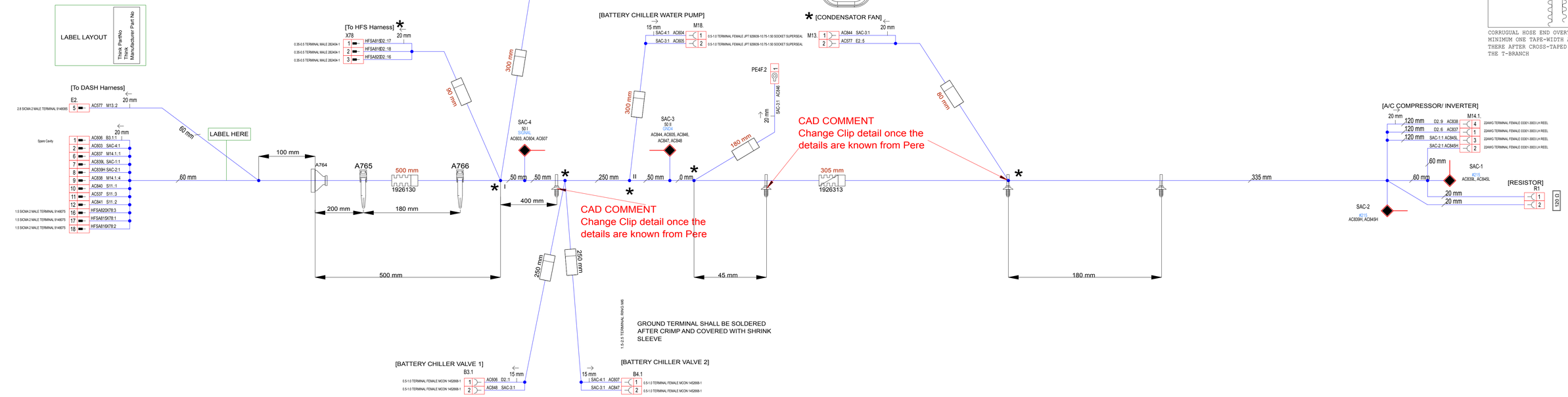
Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
AC837	R2	WHRD	0.50 mm²	M14.1.	1	/1.F151F15	D2.	6 /1.F21F2 2165
AC838	R2	BK	0.50 mm²	M14.1.	4	/1.F151F15	D2.	9 /1.F21F2 2145
AC837	R2	WHVT	0.50 mm²	D2.	11	/1.G21G2	S11.	3 /1.E71E7 1000
AC577	R2	YE/BK	2.50 mm²	E2.	5	/1.F21F2	M13.	2 /1.E91E9 1770
AC603	R2	RD	0.75 mm²	SAC-4	1	/1.F61F6	D2.	2 /1.F21F2 750
AC604	R2	RD	0.75 mm²	SAC-4	1	/1.F61F6	M18.	1 /1.E71E7 615
AC605	R2	BK	0.75 mm²	M18.	2	/1.E71E7	SAC-3	1 /1.F71F7 365
AC606	R2	RD	0.75 mm²	D2.	1	/1.F21F2	B3.1	1 /1.H51H5 815
AC607	R2	RD	0.75 mm²	SAC-4	1	/1.F61F6	B4.1	1 /1.H71H7 65
AC832	R2	WH	0.50 mm²	D2.	3			
AC839H	R2	WH	0.50 mm²	D2.	8	/1.F21F2	SAC-2	1 /1.G141G14 2005
AC839L	R2	BU	0.50 mm²	SAC-1	1	/1.F151F15	D2.	7 /1.F21F2 2065
AC840	R2	BK	0.50 mm²	D2.	12	/1.G21G2	S11.	1 /1.D71D7 1000
AC841	R2	WH/OG	0.50 mm²	S11.	2	/1.E71E7	D2.	10 /1.G21G2 1000
AC844	R2	BK	2.50 mm²	SAC-3	1	/1.F71F7	M13.	1 /1.E91E9 690
AC846	R2	BK	4.00 mm²	SAC-3	1	/1.F71F7	PE4F.2	1 /1.F81F8 200
AC847	R2	BK	0.75 mm²	SAC-3	1	/1.F71F7	B4.1	2 /1.H71H7 315
AC848	R2	BK	0.75 mm²	SAC-3	1	/1.F71F7	B3.1	2 /1.H51H5 315
AC845H	R2	WH	0.50 mm²	SAC-2	1	/1.G141G14	M14.1.	2 /1.F151F15 140
AC845L	R2	BU	0.50 mm²	SAC-1	1	/1.F151F15	M14.1.	3 /1.F151F15 200
HFSA820	R2	VT	0.50 mm²	D2.	16	/1.G21G2	X78	3 /1.E41E4 790
HFSA816	R2	BK	0.50 mm²	D2.	18	/1.G21G2	X78	2 /1.E41E4 790
HFSA815	R2	GY	0.50 mm²	D2.	17	/1.G21G2	X78	1 /1.E41E4 790
HFSA820	R2	VT	0.50 mm²	D2.	16	/1.G21G2	X78	3 /1.E41E4 790
HFSA816	R2	BK	0.50 mm²	D2.	18	/1.G21G2	X78	2 /1.E41E4 790
HFSA815	R2	GY	0.50 mm²	D2.	17	/1.G21G2	X78	1 /1.E41E4 790

Additional parts added in kit

QTY	SUPPLIER	PART#	DESCRIPTION
1	Little Fuse	299025	25A Maxi Fuse

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
B3..B4.1	4			0.5-1.0 TERMINAL FEMALE MCON 1452668-1	
SAC-1.SAC-2	2			GENERAL SPLICE	
R1	1			Resistor 120 Ohm min. (0.3W, +/-5%)	ELFA 60-103-83
	1400			Wrapping Hose	
A720	1		GET14-20	GROMMET M32 IP-67	
-X78	1	AMP	282105-1	SUPERSEAL 1.5 SERIES 3PIN MALE	
S11.	3	DELPHI	153 26 266	0.35-0.5 FEMALE TERMINAL DELPHI	
S11.	3	Delphi	153 05 351	SWS 3.6 mm Yellow 153 05 351	
S11.	1	Delphi	153 97 275	HOUSING 3 PIN Delphi 153 97 275	
E2.	1	FCI	211PL123S9004	CONNECTOR 12PIN MALE 211PL123S9004 WHITE	9148277 (VOLVO)
E2.	1	FCI	9148085	MALE TERMINAL 2.8 SICMA 2	
D2.	1	FCI	9148284	CONNECTOR 18PIN MALE 211PL182S2004 RED	
PE4F.2	1	G&HARTMAN	970789	1.5-2.5 TERMINAL RING M6 970789	
C354.C355	2	HELLERMANN	T50R-FT7 BLACK	CLIPS T50R-FT7 BLACK	
M14.1.	4	MOLEX	03301-3003	22AWG TERMINAL FEMALE 03301-3003 LH REEL	
M14.1.	1	MOLEX	33471-0401	CONNECTOR 4PIN FEMALE 33471-0401	
	285	SCHLEMMER		CORRUGATED TUBE NW13 UNSLIT BLACK	
	1445	SCHLEMMER	1926313	CORRUGATED TUBE NW13 SLIT BLACK - 1926313	
	125	TESA	51608-09-15	TAPE TEXTILE TESA 51608-09-15	
M18.	1	TYCO	1-967412-2	CONNECTOR 2PIN FEMALE JPT 1-967412-2	
B3..B4.1	2	TYCO	1670916-1	CONNECTOR 2PIN FEMALE 1670916-1	
M13.	1	TYCO	282080-1	CONNECTOR 2PIN FEMALE SUPERSEAL 282080-1	
-X78	3	TYCO	282109-1	0.75-1.5 TERMINAL MALE SUPERSEAL 282109-1	
M13.	2	TYCO	282110-1	0.75-1.5 TERMINAL FEMALE 282110-1	
M18.	2	TYCO	828904-2	SWS ID1.2-2.1 JPT 828904-2	
M18.	2	TYCO	929939-1	0.5-1.0 TERMINAL FEMALE JPT 929939-1	





ALL CONNECTOR VIEWS ARE SEEN FROM THE WIRE SIDE WHEN NOTHING ELSE IS STATED

CABLES AC839H+AC839L, AC845H+AC845L, TWISTED 40±2 TURNS/M

WIRES THAT ENTERS Y OR T-PIECE WITHOUT CORRUGATED HOSE SHALL BE PROTECTED WITH TAPE
ALL DIMENSIONS FROM Y AND T-PIECES SHALL BE MEASURED FROM CENTER/CROSSING POINT
IF NOTHING ELSE GIVEN GENERAL TOLERANCE FOR CABLE TIES ±5mm

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20

General tolerance positioning of cable ties and clips: ±5 mm

Rev.	Description	Change Req.	Date	Prepared	Approved
B	Corrections	Gen-2	20101122	JJF	PBA
A	New harness	Gen-2	20100707	MSV	PBA

HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A1 Sheet Size	Created 22.11.2010 Change Date 20100913	Page 1 of 1
A306 KIT HARNESS A/C	Description	Drawing no 541.XXXX.A	Status DRAFT

Protect 16.05.2011 msv 13:35

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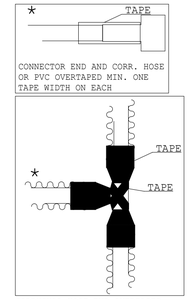
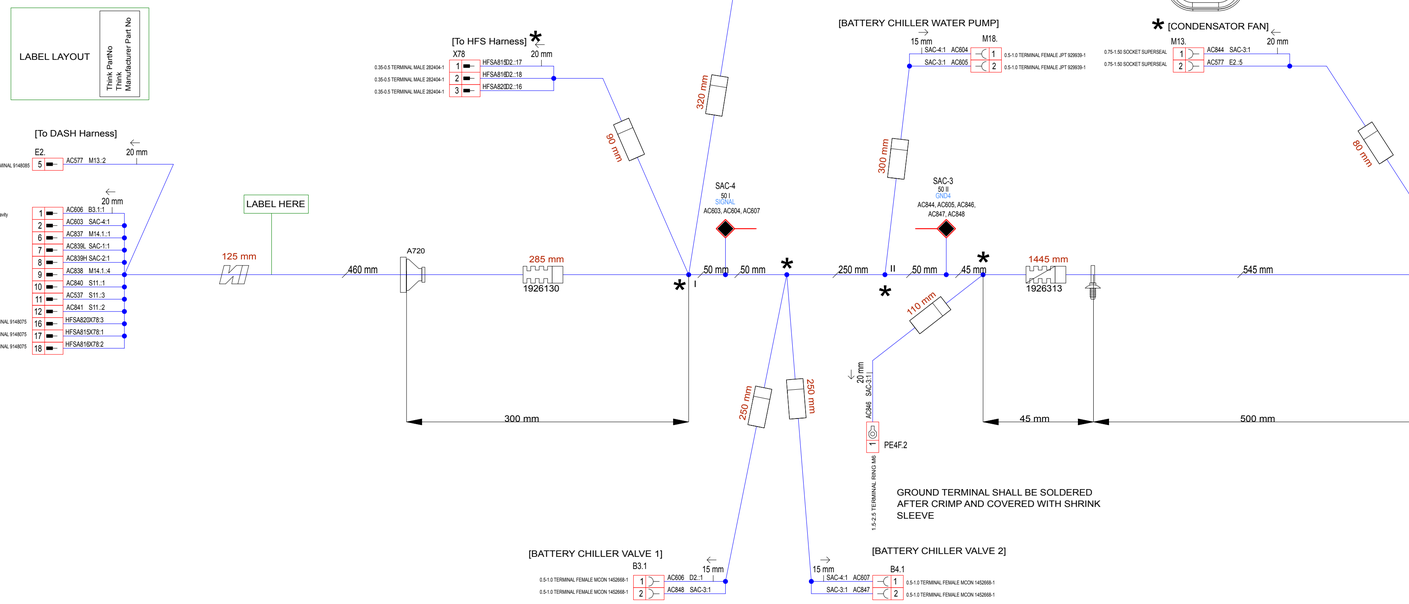
Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
AC837	R2	WHRD	0.50 mm²	M14.1.	1	/1.F151F15	D2.	6 /1.F21F2	1965
AC838	R2	BK	0.50 mm²	M14.1.	4	/1.F151F15	D2.	9 /1.F21F2	1945
AC837	R2	WHVT	0.50 mm²	D2.	11	/1.G21G2	S11.	3 /1.E71E7	820
AC577	R2	YE/BK	2.50 mm²	E2.	5	/1.F21F2	M13.	2 /1.E91E9	1570
AC603	R2	RD	0.75 mm²	SAC-4	1	/1.F61F6	D2.	2 /1.F21F2	550
AC604	R2	RD	0.75 mm²	SAC-4	1	/1.F61F6	M18.	1 /1.E71E7	615
AC605	R2	BK	0.75 mm²	M18.	2	/1.E71E7	SAC-3	1 /1.F71F7	365
AC606	R2	RD	0.75 mm²	D2.	1	/1.F21F2	B3.1	1 /1.H51H5	615
AC607	R2	RD	0.75 mm²	SAC-4	1	/1.F61F6	B4.1	1 /1.H71H7	65
AC839H	R2	WH	0.50 mm²	D2.	8	/1.F21F2	SAC-2	1 /1.G141G14	1805
AC839L	R2	BU	0.50 mm²	SAC-1	1	/1.F151F15	D2.	7 /1.F21F2	1865
AC840	R2	BK	0.50 mm²	S11.	2	/1.E71E7	D2.	10 /1.G21G2	820
AC841	R2	WH/OG	0.50 mm²	D2.	12	/1.G21G2	S11.	1 /1.D71D7	820
AC844	R2	BK	2.50 mm²	SAC-3	1	/1.F71F7	M13.	1 /1.E91E9	690
AC846	R2	BK	4.00 mm²	SAC-3	1	/1.F71F7	PE4F.2	1 /1.G71G7	175
AC847	R2	BK	0.75 mm²	SAC-3	1	/1.F71F7	B4.1	2 /1.H71H7	315
AC848	R2	BK	0.75 mm²	SAC-3	1	/1.F71F7	B3.1	2 /1.H51H5	315
AC845H	R2	WH	0.50 mm²	SAC-2	1	/1.G141G14	M14.1.	2 /1.F151F15	140
AC845L	R2	BU	0.50 mm²	SAC-1	1	/1.F151F15	M14.1.	3 /1.F151F15	200
HFSA820	R2	VT	0.50 mm²	D2.	16	/1.G21G2	-X78	3 /1.E41E4	590
HFSA816	R2	BK	0.50 mm²	D2.	18	/1.G21G2	-X78	2 /1.E41E4	590
HFSA815	R2	GY	0.50 mm²	D2.	17	/1.G21G2	-X78	1 /1.E41E4	590

Additional parts added in kit

QTY	SUPPLIER	PART#	DESCRIPTION
1	Hella	4RA 007 865 031	Relay Solid State 12V 18 (12)A

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
B3..B4.1	4			0.5-1.0 TERMINAL FEMALE MCON 1452668-1	
SAC-1,SAC-2	2			GENERAL SPLICE	
R1	1			Resistor 120 Ohm min. (0.3W, +/-5%)	ELFA 60-103-83
	1400			Wrapping Hose	
A720	1		GET14-20	GROMMET M32 IP-67	
-X78	1	AMP	282105-1	SUPERSEAL 1.5 SERIES 3PIN MALE	
S11.	3	DELPHI	153 26 266	0.35-0.5 FEMALE TERMINAL DELPHI	
S11.	3	Delphi	153 05 351	SWS 3.6 mm Yellow 153 05 351	
S11.	1	Delphi	153 97 275	HOUSING 3 PIN Delphi 153 97 275	
E2.	1	FCI	211PL123S9004	CONNECTOR 12PIN MALE 211PL123S9004 WHITE	9148277 (VOLVO)
E2.	1	FCI	9148085	MALE TERMINAL 2.8 SICMA 2	
D2.	1	FCI	9148284	CONNECTOR 18PIN MALE 211PL182S2004 RED	
PE4F.2	1	G&HARTMAN	970789	1.5-2.5 TERMINAL RING M6 970789	
C354,C355	2	HELLERMANN	T50R-FT7 BLACK	CLIPS T50R-FT7 BLACK	
M14.1.	4	MOLEX	03301-3003	22AWG TERMINAL FEMALE 03301-3003 LH REEL	
M14.1.	1	MOLEX	33471-0401	CONNECTOR 4PIN FEMALE 33471-0401	
	285	SCHLEMMER		CORRUGATED TUBE NW13 UNSLIT BLACK	
	1445	SCHLEMMER	1926313	CORRUGATED TUBE NW13 SLIT BLACK - 1926313	
	125	TESA	51608-09-15	TAPE TEXTILE TESA 51608-09-15	
M18.	1	TYCO	1-967412-2	CONNECTOR 2PIN FEMALE JPT 1-967412-2	
B3..B4.1	2	TYCO	1670916-1	CONNECTOR 2PIN FEMALE 1670916-1	
M13.	1	TYCO	282080-1	CONNECTOR 2PIN FEMALE SUPERSEAL 282080-1	
-X78	3	TYCO	282109-1	0.75-1.5 TERMINAL MALE SUPERSEAL 282109-1	
M13.	2	TYCO	282110-1	0.75-1.5 TERMINAL FEMALE 282110-1	
M18.	2	TYCO	828904-2	SWS ID1.2-2.1 JPT 828904-2	
M18.	2	TYCO	929939-1	0.5-1.0 TERMINAL FEMALE JPT 929939-1	





ALL CONNECTOR VIEWS ARE SEEN FROM THE WIRE SIDE WHEN NOTHING ELSE IS STATED

CABLES AC839H+AC839L, AC845H+AC845L, TWISTED 40±2 TURNS/M

WIRES THAT ENTERS Y OR T-PIECE WITHOUT CORRUGATED HOSE SHALL BE PROTECTED WITH TAPE
ALL DIMENSIONS FROM Y AND T-PIECES SHALL BE MEASURED FROM CENTER/CROSSING POINT
IF NOTHING ELSE GIVEN GENERAL TOLERANCE FOR CABLE TIES ±5mm

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20

General tolerance positioning of cable ties and clips: ±5 mm

Rev.	Description	Change Req.	Date	Prepared	Approved
B	New function Battery Chiller	Gen-4	20100913	MSV	-
A	New harness	Gen-2	20100707	MSV	PBA

HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A1 Sheet Size	Created 20100316 Change Date 20100913	Page 1 of 1
A306 KIT HARNESS A/C	Description	Drawing no 541.XXXX.B	Status DRAFT

Printed: 16.05.2011 13:35 msv

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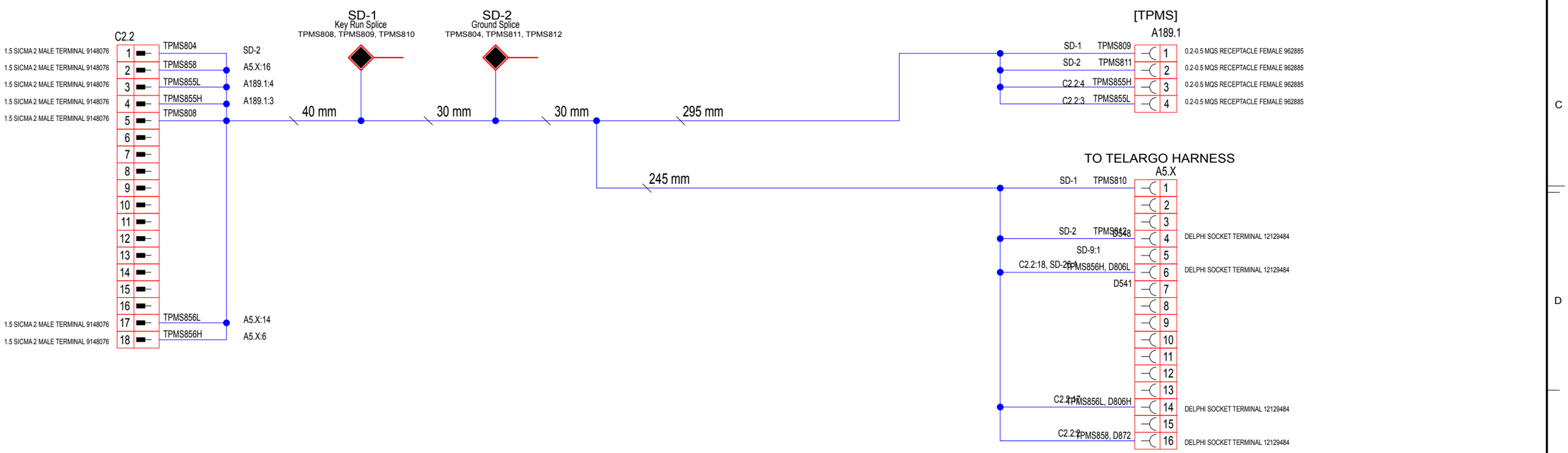
Wire Id	Type	Colour	Size	From		Loc.	To		Loc.	Length (mm) (Cu)
TPMS804	R2	WH	0.50 mm²	C2.2	1		SD-2			1965
TPMS858	R2	WH	0.50 mm²	C2.2	2		A5.X	16		1965
TPMS855L	R2	WH	0.50 mm²	C2.2	3		A189.1	4		1965
TPMS855H	R2	WH	0.50 mm²	C2.2	4		A189.1	3		1965
TPMS808	R2	WH	0.50 mm²	C2.2	5		SD-1			1965
TPMS856L	R2	WH	0.50 mm²	C2.2	17		A5.X	14		1965
TPMS856H	R2	WH	0.50 mm²	C2.2	18		A5.X	6		1965
TPMS809	R2	WH	0.50 mm²	A189.1	1		SD-1			1965
TPMS810	R2	WH	0.50 mm²	A5.X	1		SD-1			1965
TPMS811	R2	WH	0.50 mm²	A189.1	2		SD-2			1965
TPMS812	R2	WH	0.50 mm²	A5.X	4		SD-2			1965

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A5.X	1	DELPHI	12110250	HOUSING 16 PIN ID613256	
A5.X	5	DELPHI	12129484	DELPHI SOCKET TERMINAL 12129484	
A5.X	2	DELPHI	12110251	SECONDARY LOCK ID613257	
A189.1	1	TYCO	967640-1	CONNECTOR 4PIN FEMALE 967640-1	
A189.1	4	TYCO	962885-1	0.2-0.5 MQS RECEPTACLE FEMALE 962885-1	
A189.1	4	TYCO	967067-2	SEALING MVQ-30	
C2.2	1	FCI	211PL182S4004	CONNECTOR 18PIN MALE 211PL182S4004	
C2.2	7	FCI	9148076	1.5 SICMA 2 MALE TERMINAL 9148076	
SD-1, SD-2	2			GENERAL SPLICES	



HARNESS	Document type		
JJF	Prepared by		
A306 MY2011 Pre-series	File name		
PBA Approved by	A3 Sheet Size	Created 30.11.2010 Change Date	Page of 1
A306 TPMS TELARGO	Description	Drawing no 541.XXXX.C	Status DRAFT

Plotted: 16.05.2011 13:35 msy

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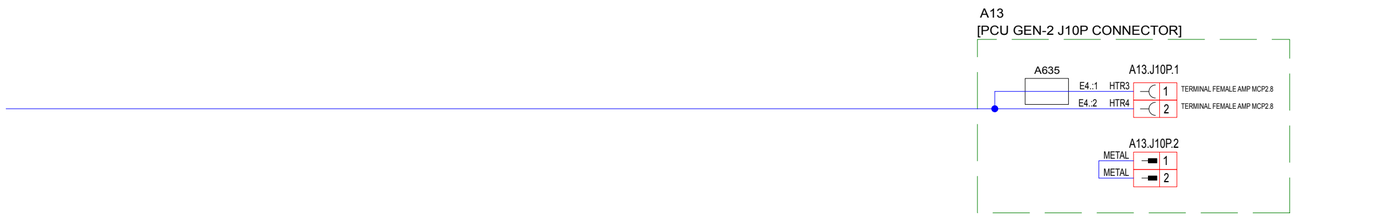
Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
HTR3	R2	OG	4.00 mm²	A13.J10P.1	1	E4	H1	700
HTR4	R2	OG	4.00 mm²	A13.J10P.1	2	E4	H2	700

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A635	1	Raychem	RNF-3000-12/4-2-SP	SHRINK SLEEVE 12/04 WO GLUE RED	
A13.J10P.1	2	TYCO	1-968859-1	TERMINAL FEMALE AMP MCP2.8	
A13.J10P.1	1	TYCO	HVA280 (KEY A) 1587819-1	HIGH VOLTAGE HOUSING 2PIN 2PH	

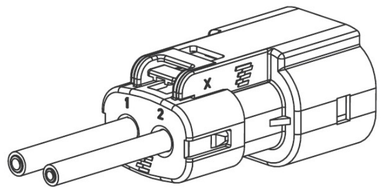
CRIMP SLEEVES ARE GENERALLY THE BASE FOR SPECIFICATION IN THE THINK DRAWING. OTHER MAKES MAY BE SELECTED IF PROPERTIES FROM SPECIFIED PRODUCT IS KEEPT AND

PIGTAIL FOR FLUID HEATER MOUNTED ON THE HEATER.



RED SHRINK SLEEVE OVER CAVITY 1 TO INDICATE POLARITY

MOUNTING INSTRUCTIONS FOR
HV280 2PH CONNECTOR SEE
INSTRUCTION SHEET 408-10299



A13

SUBPARTS SIZE B ACCORDING TO
CUSTOMER DRAWING SUITABLE
FOR 4mm2 SHIELDED WIRES

(Fluid Heater)

Rev.	Description	Change Req.	Date	Prepared	Approved
B	GEN-2 PCU SUPPORT	-	20100526	MSV	-

HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	Sheet Size: A2	Created 15/12/2009 Change Date	Page 1 of 1
Description: A306 CABLE ASSY HVA280 4Q SHIELD 5412050.B	Drawing no: 5412050	Status: DRAFT	

Plotted: 16.05.2011 13.35 msv

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Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Length (mm) (Cu)
1	RADOX 125 HALOGEN-FREE	BK	2.50 mm²	A40B	L1	/1.D21D2	A13.J7P.1	1 /1.D101D10	1920
2	RADOX 125 HALOGEN-FREE	BU	2.50 mm²	A40B	L2/N	/1.D21D2	A13.J7P.1	10 /1.D101D10	1920
3	RADOX 125 HALOGEN-FREE	GN/YE	2.50 mm²	A40B	PE	/1.D21D2	A13.J7P.1	15 /1.E101E10	1920
4	RADOX 125 HALOGEN-FREE	GN/YE	2.50 mm²	A40B	PE	/1.D21D2	X85.1.1	1 /1.E41E4	305
5	RADOX 125 HALOGEN-FREE	WH	0.50 mm²	A40B	CP	/1.D21D2	A13.J7P.1	14 /1.E101E10	1920
6	RADOX 125 HALOGEN-FREE	RD	0.50 mm²	A40B	PD	/1.D21D2	A13.J7P.1	11 /1.D101D10	1920

NOTE:
1. CABLE QUALITY ACCORDING TO ISO 6722:2006 AND/OR SAE J1654.
2. CABLE DIMENSIONS ACCORDING TO ISO 6722:2006, HALOGEN FREE INSULATION PREFERED.
3. MATERIALS USED IN THIS ASSEMBLY SHALL BE IN CONFORMITY WITH EU ELV 2000/53/EC DIRECTIVE.

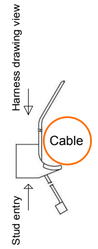
Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A13.J7P.1	3			0.8-2.0 TERMINAL FEMALE 2-66358-1 ENHANCED HIGH CUR	
A13.J7P.1	3			2.0-3.0 TERMINAL FEMALE 213847-1 Ag PLT 125 PWRBND	
X85.1.1	1	G&HARTMAN	970794	RING TERMINAL M6 2.6-6.0	
C397	1	HELLERMANN TYTON	150-10144	CLIPS T50SSB5-MC2-BK-R1	
C393,C394,C395	3	HELLERMANN TYTON	T50RSBS5.N66-BK	WELD STUD FIXING TIE BLACK	
C489,C490	2	HELLERMANNTYTON	T50R-FT7	CLIPS T50R-FT7 Black	
A745	1	Raychem		Crimp Sleeve ATUM 9/3 BLACK w/o glue	
	1755	SCHLEMMER	1227012	CORRUGATED TUBE 15.7/12.2 UNSLIT ORANGE	
A13.J7P.1	1	TYCO	1-206138-0	CABLE CLAMP SIZE23 CPC 1-206138-0	
A13.J7P.1	1	TYCO	796203-1	CONNECTOR 16PIN FEMALE 796203-1	
A40B	1	Yazaki	7325-8646-3W	CHARGE INLET Yazaki, CAP LH	

FASTENERS AND COVERS ARE GENERALLY THE BASE FOR SPECIFICATION IN THE THINK DRAWING. OTHER MAKES MAY BE SELECTED IF PROPERTIES FROM SPECIFIED PRODUCT IS KEEPT AND DOCUMENTED PRIOR TO RELEASE.

LABEL LAYOUT

Think PartNo
Think Manufacturer Part No

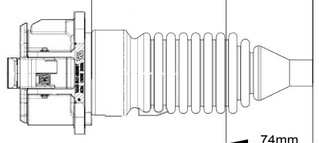
Harness drawing view



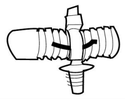
SC:1

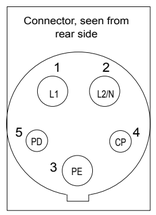
There is an over-length of 40mm on the wires to protect them from Pull-Force. Over-length to be kept inside grommet.

Thread the grommet onto the corrugated tube with an over-length of 40 mm.



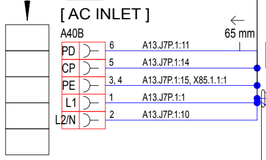
Make a drain slit 40 to 90mm (50mm in total) from the end of the corrugated tube.

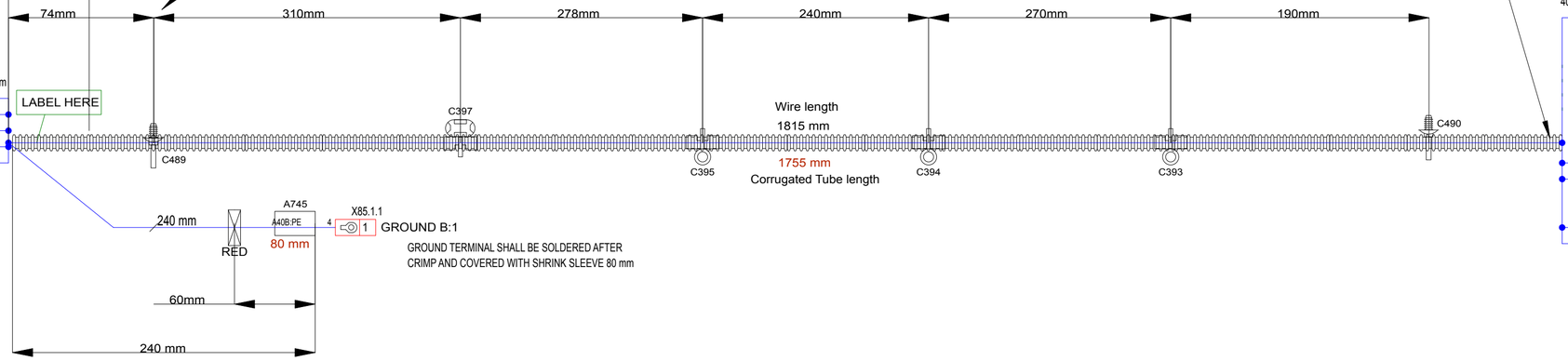




SC:3 SC:2

[AC INLET]

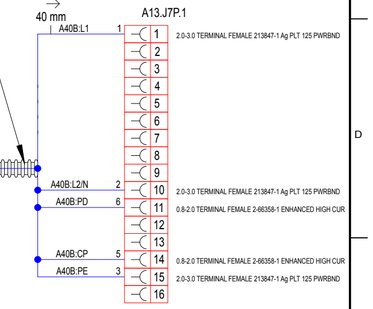




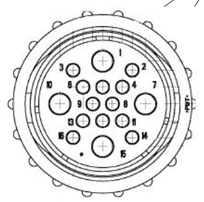
GROUND TERMINAL SHALL BE SOLDERED AFTER CRIMP AND COVERED WITH SHRINK SLEEVE 80 mm

ADD 40 MM OF SHRINK TUBE OVER CORRUGATE SLEEVE IN CABLE CLAMP

[PCU]



NOTE:
It is IMPORTANT that the cavity 1 is at the top and cavity 15 is at the bottom, as in the Drawing.



Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

SC	Significant Characteristics
1	THERE IS AN OVER-LENGHT OF 40mm ON THE WIRES TO PROTECT THEM FROM PULL FORCE. OVER-LENGTH TO BE KEPT INSIDE GROMMET. (ASSEMBLIES INCLUDING ALTERNATIVE RECEPTACLE WITHOUT GROMMET, THE STANDARD OVER-LENGTH SHOULD BE AT LEAST 20mm PR m, +2%).
2	CORRUGATED TUBE MUST BE PROPERLY FASTENED IN EACH END.
3	THE GAP INBETWEEN TERMINAL AND WIRE ISOLATION ARE TO BE PROTECTED BY TRANSPARENT CRIMP SLEEVES ON ALL TERMINALS CRIMPED IN THE J1772 RECEPTACLE END.
4	TOOLING FOR HEX CRIMPING TERMINALS ACCORDING TO CORRESPONDING SPECIFICATIONS FROM RECEPTACLE MANUFACTURER.
CC	Critical Characteristics
1	HV ISOLATION TEST TO BE PERFORMED AFTER FULL ASSEMBLY. COMMON MODE BETWEEN L1+N TOWARDS PE+PD+CP. REQUIREMENT: NO FLASH OVER (OR SIGN OF ISOLATION BREACH) WHEN APPLYING 1500V AC FOR 1 MINUTE.

Revision	Task Number	Description	Date	Change Req	Prepared	Approved
F	N/A	New Harness	10.01.2011	N/A	JJF	PBA

HARNESS	Document type	THINK	
JJF	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A2 Sheet Size	Created 20100830 Change Date 20110110	Page 1 of 1
A306 MAINS INLET ASSY Yazaki	Description	Drawing no 542.1080.F	Status R

Plotted: 16.05.2011 13:35 msv

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Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
1	RADOX 125 HALOGEN-FREE	BK	2.50 mm²	A40B1	L1	/1.D21D2	A13.J7P.2 1	/1.D101D10 2140
2	RADOX 125 HALOGEN-FREE	BU	2.50 mm²	A40B1	L2/N	/1.D21D2	A13.J7P.2 10	/1.D101D10 2140
3	RADOX 125 HALOGEN-FREE	GN/YE	2.50 mm²	A40B1	PE	/1.D21D2	A13.J7P.2 15	/1.E101E10 2140
4	RADOX 125 HALOGEN-FREE	GN/YE	2.50 mm²	A40B1	PE	/1.D21D2	X85.3 1	/1.E41E4 310
5	RADOX 125 HALOGEN-FREE	WH	0.50 mm²	A40B1	CP	/1.D21D2	A13.J7P.2 14	/1.E101E10 2140
6	RADOX 125 HALOGEN-FREE	RD	0.50 mm²	A40B1	PD	/1.D21D2	A13.J7P.2 11	/1.D101D10 2140

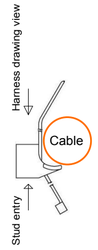
NOTE:
1. CABLE QUALITY ACCORDING TO ISO 6722:2006 AND/OR SAE J1654.
2. CABLE DIMENSIONS ACCORDING TO ISO 6722:2006, HALOGEN FREE INSULATION PREFERED.
3. MATERIALS USED IN THIS ASSEMBLY SHALL BE IN CONFORMITY WITH EU ELV 2000/53/EC DIRECTIVE.
4. THE LENGHTS BACK TO BACK ON THE CONNECTORS IS 2020 mm.

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
C403,C407	2	HELLERMANN	T50R-FT7 BLACK	CLIPS T50R-FT7 BLACK	
C409	1	HELLERMANN TYTON	156-00049	Clip Edge	
C404,C405,C406	3	HELLERMANN TYTON	T50RSBS5.N66-BK	WELD STUD FIXING TIE BLACK	
A745	1	Raychem		Crimp Sleeve ATUM 9/3 BLACK w/o glue	
	2020	SCHLEMMER	1227012	CORRUGATED TUBE 15.7/12.2 UNSLIT ORANGE	
A40B1	1	FCI	F344700	CHARGE INLET FCI, CAP RH (Adiator Part No. 9011000	
A13.J7P.2	2			0.8-2.0 TERMINAL FEMALE 2-66358-1 ENHANCED HIGH CUR	
A13.J7P.2	3			2.0-3.0 TERMINAL FEMALE 213847-1 Ag PLT 125 PWRBND	
A13.J7P.2	1	TYCO	1-206138-0	CABLE CLAMP SIZE23 CPC 1-206138-0	
A13.J7P.2	1	TYCO	796203-1	CONNECTOR 16PIN FEMALE 796203-1	
X85.2	1	G&HARTMAN	970794	RING TERMINAL M6 2.6-6.0	
	90			CRIMP SLEEVE HF W/GLUE Transparant	

FASTENERS AND COVERS ARE GENERALLY THE BASE FOR SPECIFICATION IN THE THINK DRAWING. OTHER MAKES MAY BE SELECTED IF PROPERTIES FROM SPECIFIED PRODUCT IS KEEPT AND DOCUMENTED PRIOR TO RELEASE.

LABEL LAYOUT

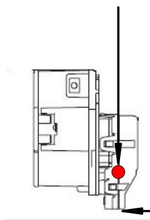
Think PartNo
Think
Manufacturer Part No



SC:1

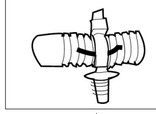
There is an over-length of 40mm on the wires to protect them from Pull-Force. Over-length to be kept inside connector A40B1

MP1 for Ground Wire 4
(cut out to be performed in rear cover to let ground wire protude; leftside from cable entry view)

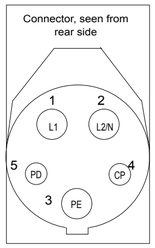


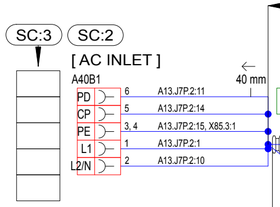
MP2 for main branch

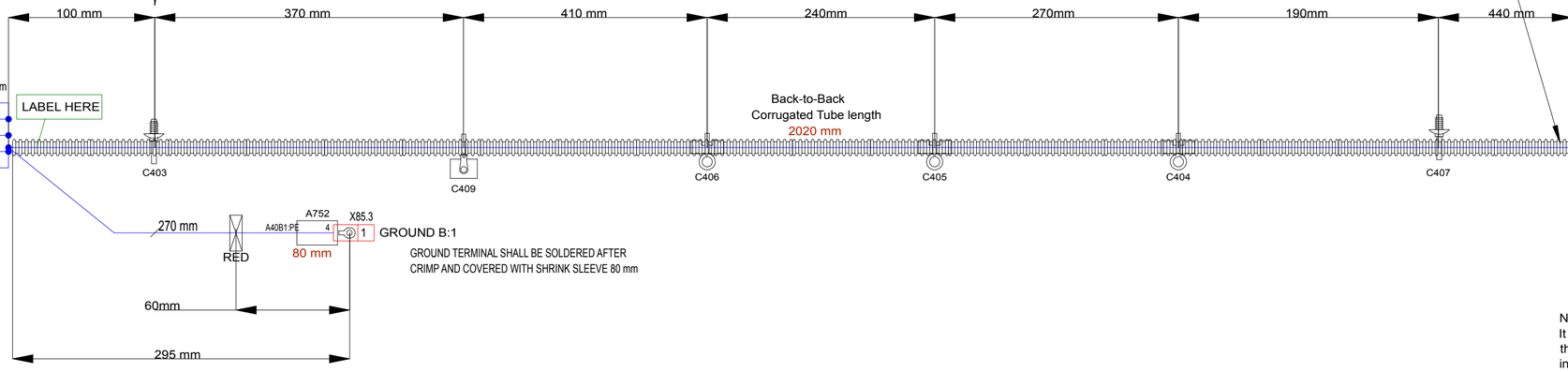
Make a drain slit 75 to 125 mm (50 mm in total) from the end of the corrugated tube.



Connector, seen from rear side

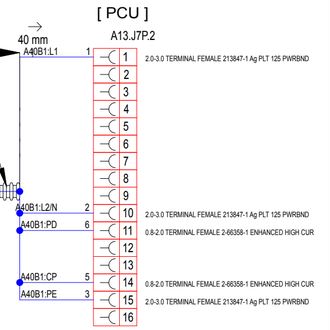




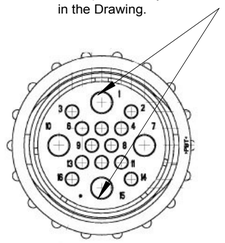


GROUND TERMINAL SHALL BE SOLDERED AFTER CRIMP AND COVERED WITH SHRINK SLEEVE 80 mm

ADD 40 MM OF SHRINK TUBE OVER CORRUGATE SLEEVE IN CABLE CLAMP



NOTE:
It is IMPORTANT that the cavity 1 is at the top and cavity 15 is at the bottom, as in the Drawing.



Note:
Distance is taken from MP1 to center of the ground eye-let

SC	Significant Characteristics
1	THERE IS AN OVER-LENGHT OF 40mm ON THE WIRES TO PROTECT THEM FROM PULL FORCE. OVER-LENGTH TO BE KEPT INSIDE THE CONNECTOR A40B1. (ASSEMBLIES INCLUDING ALTERNATIVE RECEPTACLE WITHOUT GROMMET, THE STANDARD OVER-LENGTH SHOULD BE AT LEAST 20mm PR m,+ 2%).
2	CORRUGATED TUBE MUST BE PROPERLY FASTENED IN EACH END.
3	THE GAP INBETWEEN TERMINAL AND WIRE ISOLATION ARE TO BE PROTECTED BY TRANSPARENT CRIMP SLEEVES ON ALL TERMINALS CRIMPED IN THE J1772 RECEPTACLE END.
4	TOOLING FOR HEX CRIMPING TERMINALS ACCORDING TO CORRESPONDING SPECIFICATIONS FROM RECEPTACLE MANUFACTURER.
CC	Critical Characteristics
1	HV ISOLATION TEST TO BE PERFORMED AFTER FULL ASSEMBLY. COMMON MODE BETWEEN L1+N TOWARDS PE+PD+CP. REQUIREMENT: NO FLASH OVER (OR SIGN OF ISOLATION BREACH) WHEN APPLYING 1500V AC FOR 1 MINUTE.

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

A	New harness	-	20100830	MSV	-
HARNESS	Document type	THINK			
MSV	Prepared by				
A306 MY2011 Pre-series	File name				
Approved by	A2 Sheet Size	Created 21.09.2010	Change Date 20101026	Page 1 of 1	
A306	Description	Drawing no		Status	
MAINS INLET ASSY FCI		542.1085.A		R	

Plotted: 16.05.2011 13:35 msv

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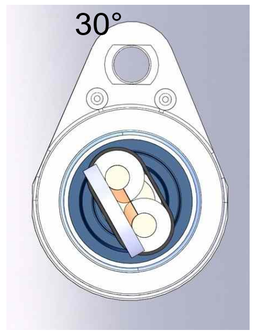
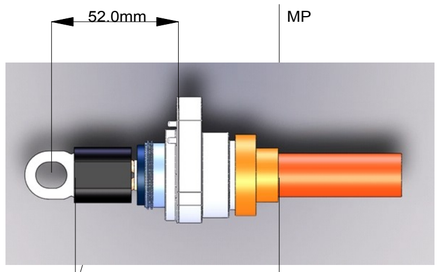
Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
TB200	Nexans	OG	35.00 mm²	-		A13.J1P	1 /1.D2	1680
TB201	Nexans	OG	35.00 mm²	-		A13.J2P	1 /1.D2	1980

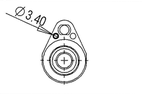
Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A13.J1P2,A13.J2P2	2			Ring Terminal Yasaki 7003-1197-02	
	60			Tightly Wound Tape	
A668,A669	2	SCHLEMMER	PA6 17 OR SLI	CORRUGATED TUBE ORANGE Ø 17 SLIT	SCHLEMMER 1926320
	3045	SCHLEMMER	PA6 17 OR SLI	CORRUGATED TUBE ORANGE Ø 17 SLIT	
A13.J1P2	1	YAZAKI	7335-6310	Yazaki 1POS LET0 Code U	
A13.J2P2	1	YAZAKI	7335-6311	Yazaki 1POS LET0 Code V	

NOTE:
1. CABLE QUALITY ACCORDING TO ISO 6722:2006 AND/OR SAE J1654.
2. CABLE DIMENSIONS ACCORDING TO ISO 6722:2006, HALOGEN FREE INSULATION PREFERED.
3. SHIELD NON-CURRENT CARRYING, FOR EMC AND GROUND PROTECTION ONLY.
4. MATERIALS USED IN THIS ASSEMBLY SHALL BE IN CONFORMITY WITH EU ELV 2000/53/EC DIRECTIVE.



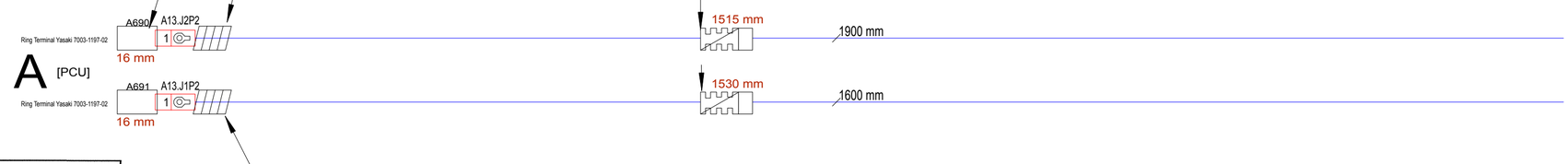


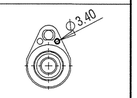
A13.J2P2

V
ELECTRICAL MACHINE "V"
7335-6311

3.9 | -

ORANGE SPOT-TAPE ROUND THE CORRUGATE TO HOLD THE SLIT

THE CORRUGATED TUBES MP IS THE SAME MP AS FOR THE CONNECTOR



U
ELECTRICAL MACHINE "U"
7335-6310

- | 3.9

A13.J1P2

MAKE SURE THAT THE SPOT-TAPE AT THE CORRUGATE END HAVE FOUR TURNS AND THAT THE SPOT-TAPE ONLY ARE OVER THE CORRUGATE AND NOT TOUCHING THE WIRE JACKET.

SUBPART FOR TRACTION CABLE.
CORE, SHIELD AND JACKET TO BE CUT FLUSH AT THE B END.

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

SC	Significant Characteristics
1	TERMINAL EYE-LETS (U, V) DISTANCE FROM SHIELDBASE TO CENTER OF TERMINAL 52.0 MM (+0.2/-0).
2	COMPLETE DESIGN VERIFIED FOR COMPLIANCE IN ACCORDANCE TO TEST METHODS SPECIFIED IN SAE J1742: - VOLTAGE DROP, WITH TEMPERATURE MEASURED AT JUNCTIONS. - ISOLATIONS RESISTANCE

Rev.	Description	Change Req.	Date	Prepared	Approved
?	Updates	-	20100420	MSV	-
A	NEW HARNESS	J1.V3	20100219	MSV	EFP

HARNESS	Document type		
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A2 Sheet Size	Created 01/12/2009 Change Date	Page 1 of 1
A306	Description	Drawing no	Status
CABLE TRACTION SHIELD - YAZAKI 7335-6310		54230110	DRAFT

Plotted: 16.05.2011 13:35 msv

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Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
TB100	Nexans	OG	35.00 mm²	F104S	1 | F10	A13.TB+	1	1620
TB101	SILFIX-SIF	OG	35.00 mm²	A4.X4	1 | F12	F104P	1	510
TB102	Nexans	OG	35.00 mm²	A4.X3	1 | E12	A13.TB-	1	1955

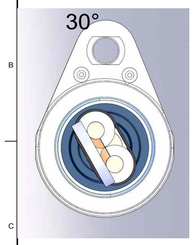
NOTE:
1. CABLE QUALITY ACCORDING TO ISO 6722:2006 AND/OR SAE J1654.
2. CABLE DIMENSIONS ACCORDING TO ISO 6722:2006, HALOGEN FREE INSULATION PREFERED.
3. SHIELD NON-CURRENT CARRYING, FOR EMC AND GROUND PROTECTION ONLY.
4. MATERIALS USED IN THIS ASSEMBLY SHALL BE IN CONFORMITY WITH EU ELV 2000/53/EC DIRECTIVE.

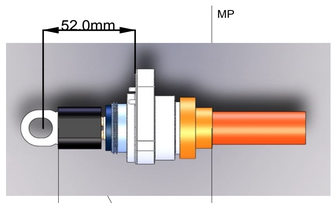
Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A690,A691	2			CRIMP SLEEVE HF W/GLUE BLACK (very thin)	
F104P,F104S	2			RING TERMINAL M8 DIN46235 35MM2	
11,12	2	Elpress	KR6-6	RING TERMINAL M6 KR 6.0 mm2	
Fs104	1	Ferraz Shawmut		FUSE TRACTION NET (125A)	
C299,C300,C304	3	HELLERMANN TYTON	150-10144	CLIPS T50SSB5-MC2-BK-R1	
C275,C276	2	HELLERMANN TYTON	T50RSBS5.N66-BK	WELD STUD FIXING TIE BLACK	
C277	1	HELLERMANNTYTON		CLIPS T50SDSBS5-MC5-BK-D1	
A726	1	KS Terminals		SPLICE TUBE 6.0mm2	
A626,A627	2	Lapp Kabel	83122213	CABLE GLAND WITH MEMBRANE GET 14-20	RUTAB TRS M32 EPDM 15-20 1458237
A726	0	NITTON		ORANGE PVC TAPE	
A4.X4	1	PFISTERER	350 205-001	CONNECTOR 1 POLE 350 205-001	
A4.X3	1	PFISTERER	350 205-004	CONNECTOR 1 POLE 350 205-004	
A706,A709	2	Raychem		Crimp Sleeve ATUM 9/3 BLACK w/o glue	
A621,A705,A707	3	Raychem	Atum-19/6-0	Crimp Sleeve ATUM19/6-Black W/Glue	
A708	1	Raychem	RNF-3000-18/6-2-SP	SHRINK SLEEVE 18/6 WO GLUE RED	
A726	440	SCHLEMMER	1926012	CORRUGATED TUBE 15.7/12.2 UNSLIT ORANGE	
A666,A667	2	SCHLEMMER	PA6 17 OR SLI	CORRUGATED TUBE ORANGE Ø 17 SLIT	SCHLEMMER 1926320
A726	2970	SCHLEMMER	PA6 17 OR SLI	CORRUGATED TUBE ORANGE Ø 17 SLIT	
A13.TB+	1	YAZAKI	7335-6310	Yazaki 1POS LET0 Code U	
A13.TB-	1	YAZAKI	7335-6311	Yazaki 1POS LET0 Code V	

ADDITIONAL PARTS USED FOR FUSE HOLDER ASSEMBLY (SEE ILLUSTRATION BELOW)

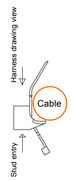
Pos.	Qty.	Supplier	Supplier Part.	THINK Part.	Description
1	2	Hellermann	115-00043	076.0043.A	REZ300 RED RELEASABLE TIE
2	2	TRFastenings	88208-S	042.0801.A	FLG HEX13 NUT DIN6923 M8 A4 SD
3	4	TRFastenings	CV-300SB	076.0010.C	ZIP TIE 4.8X300 BK
4	2	TRFastenings	89808	021.0801.B	SPRING WASHER DIN127B M8 A4 SD
5	4	TRFastenings	88708	020.0802.A	WASHER DIN125A M8.4 A4 SD
6	2	TRFastenings	88108	044.0801.A	HEX13 JAM NUT DIN439B M8 A4 SD
7	1	TPL Labels	-	553.9020.D	LBL HIGH VOLTAGE WARNING
8	1	THINK	-	542.3010.A	CABLE TRACTION SHIELD - YAZAKI - CONN

FASTENERS AND COVERS ARE GENERALLY THE BASE FOR SPECIFICATION IN THE THINK DRAWING. OTHER MAKES MAY BE SELECTED IF PROPERTIES FROM SPECIFIED PRODUCT IS KEEPT AND DOCUMENTED PRIOR TO RELEASE.



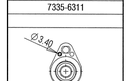


THE FASTENERS ARE DRAWN WITH ENTRY SIDE DOWN



A13.TB-

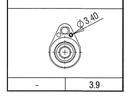
V (-)
ELECTRICAL MACHINE
7335-6311



3.9	-

A13.TB+

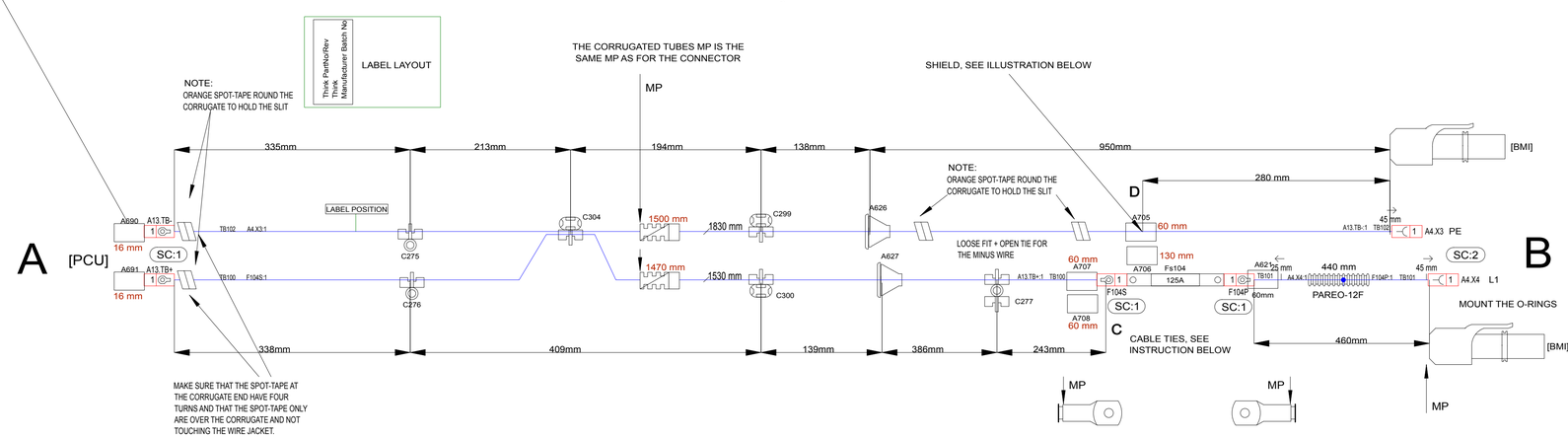
U (+)
ELECTRICAL MACHINE
7335-6310



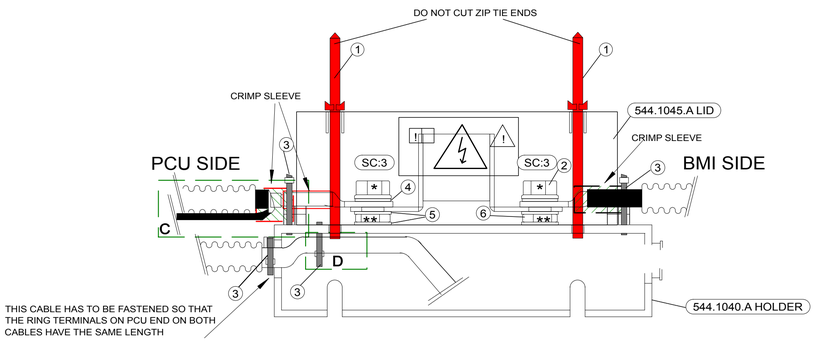
-	3.9

Think Part#or/Rev
Think
Manufacturer Batch No

LABEL LAYOUT



MOUNT THE LID SO THAT WHEN SEEN FROM THIS ANGLE THE "HIGH VOLTAGE" IMPRINT ON TOP OF THE LID WILL BE ON THE RIGHT HAND SIDE.
PLACE LABEL 553.9020.D ON LID. TOP OF LABEL SHOULD BE IN PARALLEL WITH/BELOW THE 4 HOLES IN A ROW ON TOP OF THE LID. (THIS WILL BE ON THE OPPOSITE SIDE OF LID FROM WHATS AS SEEN ON DRAWING.



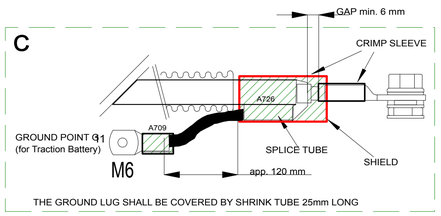
SC	Significant Characteristics
1	RING TERMINALS (-A13TB+, Fs104P, Fs104S) USE CRIMPING TOOL ACCORDING TO DIN 48083
2	PFISTERER CONNECTORS USE CRIMPING TOOL ACCORDING TO DIN46267 PART1 AND PFISTERER DWG NO 040 003 001D
3	* PULL THE NUTS WITH TORQUE 20Nm +/- 1.0Nm ** PULL THE NUTS WITH TORQUE 5Nm +/- 0.5Nm
4	COMPLETE DESIGN VERIFIED FOR COMPLIANCE IN ACCORDANCE TO TEST METHODS SPECIFIED IN SAE J1742: - VOLTAGE DROP, WITH TEMPERATURE MEASURED AT JUNCTIONS. - ISOLATIONS RESISTANCE - DIELECTRIC WITHSTAND VOLTAGE
CC	**Critical Characteristics**
1	MINIMUM REQUIRED MANUFACTURING TEST: COMPLETE CABLE SHALL UNDERGO AND PASS A - DIELECTRIC WITHSTAND VOLTAGE, BETWEEN WIRE CORE AND SHIELD; (NO ISOLATION BREAKDOWN OR FLASHOVER. APPLIED VOLTAGE ≥3kV DC FOR ≥60 sec.) RECORD LEAKAGE CURRENT. HIGH CURRENT CONDUCTIVITY TEST, REQUIREMENTS: - VOLTAGE DROP MEASURED ON CONNECTED CORES, TERMINALS AND CABLE; (TEST CURRENT ≥100A DC, MAXIMUM VOLTAGE DROP ACROSS LENGTHS ACROSS TOTAL LENGHT FROM TERMINAL U TO V, WITH TERMINALS AT THE END SHORT CIRCUITED IN THE END SHALL NOT EXCEED: 370 mV MEASURED AT TEST CURRENT = 120.0A DC.) RECORD RESULT.

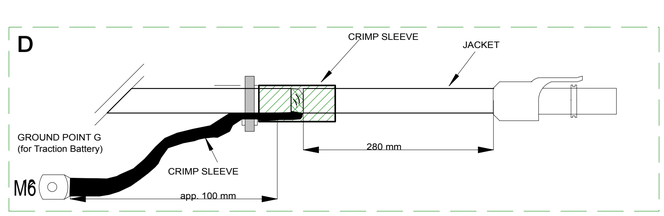
Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20

General tolerance positioning of cable ties and clips: ±5 mm

GROUND WIRE PREPARATION C:
1. PUT THE GROMMET OVER THE CABLE.
2. STRIP THE WIRE 40 mm.
3. FOLD THE SHIELD TO ONE SIDE AND TWIST IT TOGETHER.
4. CRIMP THE SHIELD TO A 6.0 mm2 BLACK WIRE AND A LENGTH OF 110 mm WITH A (CRIMP TUBE).
5. PUT ON A RED SLEEVE WITH A LENGHT OF 60 mm TO COVER THE GAP BETWEEN THE EYE-LET TERMINAL AND THE WIRE, AND THE (CRIMP TUBE).
6. CRIMP ON A M6 EYE-LET TERMINAL.
7. BEND THE SHIELD WITH THE SLEEVE BACKWARDS.





GROUND WIRE PREPARATION D:
1. PUT ON THE GROMMET OVER THE CABLE.
2. STRIP THE WIRE 325 mm AND KEEP THE JACKET (DO NOT CUT TROUGH THE SHIELD AND DO NOT SLIT THE JACKET).
3. REDUCE THE CUT-OFF JACKET TO 305 mm.
4. PREPARE THE SHIELD *).
5. PUT ON THE OUTER 305 mm JACKET FROM (2.) ABOVE OVER THE STRIPPED NON-SHIELDED END.
6. PUT ON A 60 mm SHRINK SLEEVE TO COVER THE GAP, OVERLAPPING THE SLEEVE OF THE SHIELD AND THE JACKET.

*) SHIELD PREPARATION:
1. CUT DOWN THE SHIELD TO 125 mm LENGHT.
2. FOLD THE SHIELD TO ONE SIDE AND TWIST IT TOGETHER.
3. PUT ON A SLEEVE WITH A LENGHT OF 130 mm.
4. CRIMP ON A M6 EYE-LET TERMINAL.
5. BEND THE SHIELD WITH THE SLEEVE BACKWARDS.

Rev.	Description	Change Req.	Date	Prepared	Approved
A	NEW HARNESS	GEN-2	20100429	MSV	EFP

HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A1 Sheet Size	Created 01/12/2009 Change Date	Page 1 of 1
A306	Description	Drawing no 542.3920.A	Status R

CABLE TRACTION FEED TO PCU - 542.3920.A

Plotted: 16.05.2011 13.35 msv

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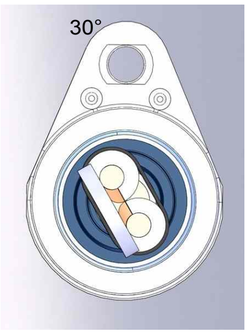
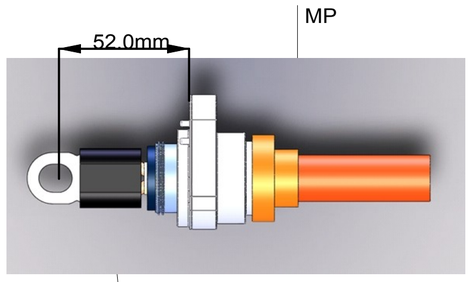
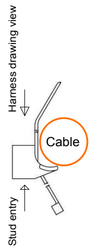
Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
TB200	Nexans	OG	35.00 mm²	A80.X3	1 /1.D8	A13.J1P	1 /1.D2	1415
TB201	Nexans	OG	35.00 mm²	A80.X3	2 /1.D8	A13.J2P	1 /1.D2	1415

NOTES:
1. CABLE QUALITY ACCORDING TO ISO 6722:2006 AND/OR SAE J1654.
2. CABLE DIMENSIONS ACCORDING TO ISO 6722:2006, HALOGEN FREE INSULATION PREFERED.
3. SHIELD NON-CURRENT CARRYING, FOR EMC AND GROUND PROTECTION ONLY.
4. MATERIALS USED IN THIS ASSEMBLY SHALL BE IN CONFORMITY WITH EU ELV 2000/53/EC DIRECTIVE.





THE FASTENERS ARE DRAWN WITH ENTRY SIDE DOWN



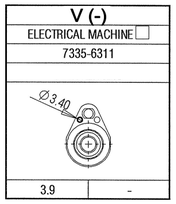
Think PartNo/Rev
Think Manufacturer Batch No

LABEL LAYOUT

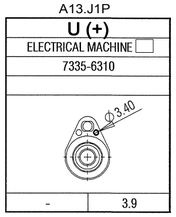
Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A688,A689	2			CRIMP SLEEVE HF W/GLUE BLACK (very thin)	
A80.X3	2			PROTECTION COVER 1719829-2	
A13.J1P,A13.J2P	2			Ring Terminal Yasaki 7003-1197-02	
C301,C302,C303	3	HELLERMANN TYTON	150-10144	CLIPS T50SSB5-MC2-BK-R1	
C58,C59	2	HELLERMANN TYTON	T50RSBS5.N66-BK	WELD STUD FIXING TIE BLACK	A
A114,A115	2	Lapp Kabel	83122213	CABLE GLAND WITH MEMBRANE GET 14-20	RUTAB TRS M32 EPDM 15-20
	0	NITTON		ORANGE PVC TAPE	
A664,A665	2	SCHLEMMER	PA6 17 OR SLI	CORRUGATED TUBE ORANGE Ø 17 SLIT	SCHLEMMER 1926320
	2540	SCHLEMMER	PA6 17 OR SLI	CORRUGATED TUBE ORANGE Ø 17 SLIT	
A80.X3	1	TYCO	1-1719821-1	CONNECTOR 2PIN FEMALE 1-1719821-1	
A80.X3	2	TYCO	1719826-2	SINGLE WIRE SEAL	
A80.X3	2	TYCO	1719830-1	8MM HV. SHIELD EMC BARREL	
A80.X3	2	TYCO	1719831-2	8MM HV. SHIELD EMC CRIMP SLEEVE	
A80.X3	2	TYCO	1719832-2	35MM2 TERMINAL FEMALE 1719832-2	
A13.J1P	1	YAZAKI	7335-6310	Yazaki 1POS LET0 Code U	
A13.J2P	1	YAZAKI	7335-6311	Yazaki 1POS LET0 Code V	

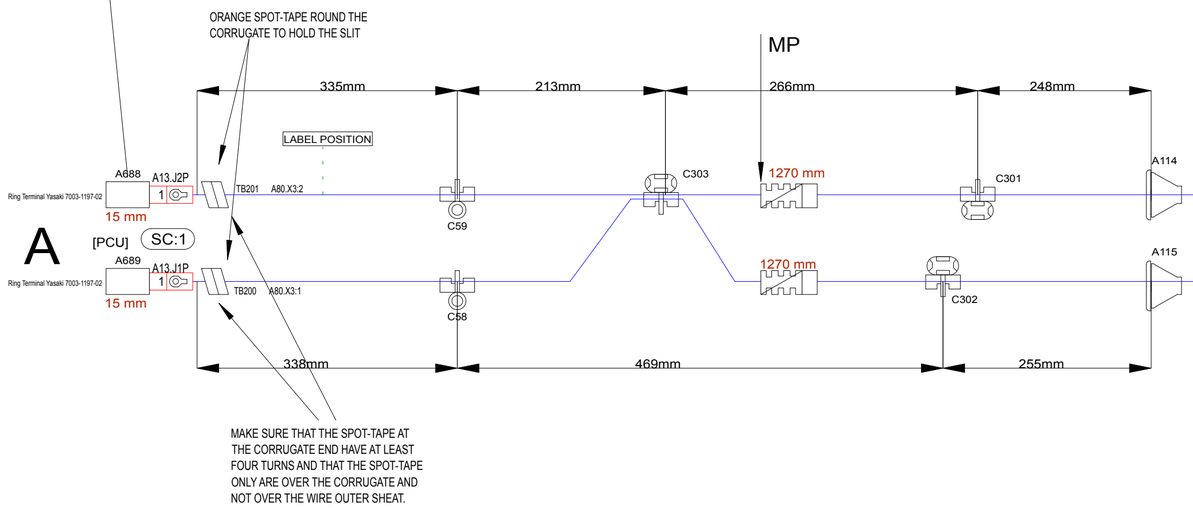
FASTENERS AND COVERS ARE GENERALLY THE BASE FOR SPECIFICATION IN THE THINK DRAWING. OTHER MAKES MAY BE SELECTED IF PROPERTIES FROM SPECIFIED PRODUCT IS KEEPT AND DOCUMENTED PRIOR TO RELEASE.

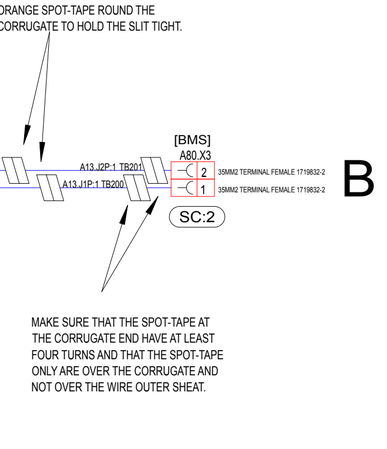
A13.J2P

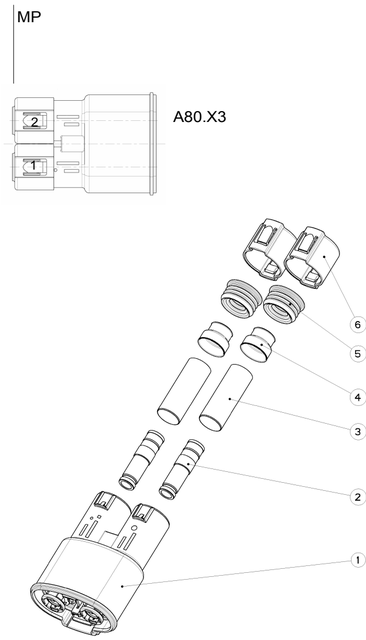


A13.J1P









ORDER OF ASSEMBLY:
1. ENTER TWO X BACK COVER (6) ON TO WIRES.
2. ENTER TWO X SWS (5) ON TO WIRES.
3. STRIP WIRE SHEATING AND INNER ISOLATION.
4. CRIMP ON TWO X TERMINALS (2).
5. FOLD WIRE SHIELD AND THREAD ON EMC CRIMP SLEEVE (4) AND EMC BARREL (3).
6. MOUNT EMC CRIMP SLEEVE (4) AND EMC BARREL (3).
7. ASSEMBLY BY ENTERING TERMINALS (3) IN HOUSING (2).
8. SECURE INSERTED TERMINALS WITH GREY SECUNDARY LOOKING RINGS.
9. PRESS THE SWS (5) INTO POSITION.
10. FIT AND LOCK BACK COVERS (1).

SC	Significant Characteristics
1	TERMINAL RINGS (-A13.J1P AND A13.J2P) M8 EYE-LET TERMINAL WHICH DISTANCE FROM SHIELD BASE TO CENTER OF TERMINAL 52.0mm (+0.2/-0).
2	TYCO HV CONNECTOR (A23.X3) CRIMP ACCORDING TO LATEST VERSION OF TYCO APPLICATION SPESIFICATION MANUAL 114-18669.
3	COMPLETE DESIGN VERIFIED FOR COMPLIANCE IN ACCORDANCE TO TEST METHODS SPECIFIED IN SAE J1742: - VOLTAGE DROP, WITH TEMPERATURE MEASURED AT JUNCTIONS. - ISOLATION RESISTANCE.
CC	Critical Characteristics
1	MINIMUM REQUIRED MANUFACTURING TEST: COMPLETE CABLE SHALL UNDERGO AND PASS A - DIELECTRIC WITHSTAND VOLTAGE, BETWEEN WIRE CORE AND SHIELD; (NO ISOLATION BREAKDOWN OR FLASHOVER: APPLIED VOLTAGE ≥3kV DC FOR ≥60 sec.) RECORD LEAKAGE CURRENT. HIGH CURRENT CONDUCTIVITY TEST, REQUIREMENTS: - VOLTAGE DROP MEASURED ON CONNECTED CORES, TERMINALS AND CABLE; (TEST CURRENT ≥100A DC, MAXIMUM VOLTAGE DROP ACROSS LENGTHS ACROSS TOTAL LENGHT FROM TERMINAL U TO V, WITH TERMINALS AT THE END SHORT CIRCUITED IN THE END SHALL NOT EXCEED: 370 mV MEASURED AT TEST CURRENT = 120.0A DC.) RECORD RESULT.

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

Plotted: 16.05.2011 13.35 msv

Rev.	Description	Change Req.	Date	Prepared	Approved
A	New harness	GEN-2	20100203	MSV	EFP

HARNESS (Document type)
MSV (Prepared by)
A306 MY2011 Pre-series (File name)
Approved by | A2 (Sheet Size) | Created 17.09.2006 Change Date | Page 1 of 1
A306 (Description)
CABLE TRACTION FEED TO PCU 542.308.0.A (Drawing no)
R (Status)

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Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Length (mm) (Cu)
1	Nexans	OG	35.00 mm²	A13.J5P	1	/1.D71D7	A24.3PH	1 /1.D31D3	486
2	Nexans	OG	35.00 mm²	A13.J4P	1	/1.D71D7	A24.3PH	2 /1.D31D3	438
3	Nexans	OG	35.00 mm²	A13.J3P	1	/1.C71C7	A24.3PH	3 /1.D31D3	400
4	R2	WH	1.00 mm²	A24.2PH	1	/1.C31C3	A24.2PH	2 /1.C31C3	100

NOTES:
1. CABLE QUALITY ACCORDING TO ISO 6722:2006 AND/OR SAE J1654.
2. CABLE DIMENSIONS ACCORDING TO ISO 6722:2006, HALOGEN FREE INSULATION PREFERED.
3. SHIELD NON-CURRENT CARRYING, FOR EMC AND GROUND PROTECTION ONLY.
4. MATERIALS USED IN THIS ASSEMBLY SHALL BE IN CONFORMITY WITH EU ELV 2000/53/EC DIRECTIVE.
5. INSTRUCTIONS FOR THE ASSEMBLY ACCORDING TO PFISTERER'S ASSEMBLY INSTRUCTIONS CC-HVC8-3-SF V0.9.pdf

Think PartNo/Rev
Think Manufacturer Batch No

LABEL LAYOUT

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A702,A703,A704	3			CRIMP SLEEVE HF W/GLUE BLACK (very thin)	
A13.J3P,A13.J4P,A13.J5P	3			Ring Terminal Yasaki 7003-1197-02	
A704	892			Tightly Wound Tape	
A209	1	HELLERMAN TYTON	151-24319	MOUNT TYPE MP	
A699,A700,A701	3	HELLERMANN TYTON	111-06206	CABLE TIE T50M UV OUTDOOR	
A24.3PH	1	PFISTERER	HVC8-35_1-3-180-A-SC-ES	CONNECTOR 3PH FEMALE HV HVC8-35	
A24.2PH	1	PHISTERER		CONNECTOR 2PH FEMALE HV	
A661,A662,A663	3	SCHLEMMER	PA6 17 OR SLI	CORRUGATED TUBE ORANGE Ø 17 SLIT	SCHLEMMER 1926320
A704	892	SCHLEMMER	PA6 17 OR SLI	CORRUGATED TUBE ORANGE Ø 17 SLIT	
A24.2PH	2	TYCO	1-1241380-1	0.5-1.0 AMP MCP 1.5K CONTACT FEMALE 1241380-1	
A24.2PH	2	Tyco	963530-1	0.75 SEAL PLUG MICRO-TIMER II AND MCP 963530-1	
A13.J3P	1	YAZAKI	7335-6310	Yazaki 1POS LET0 Code U	
A13.J4P	1	YAZAKI	7335-6311	Yazaki 1POS LET0 Code V	
A13.J5P	1	YAZAKI	7335-6312	Yazaki 1POS LET0 Code W	

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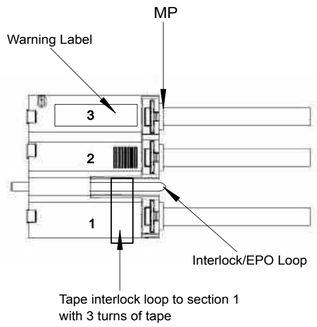
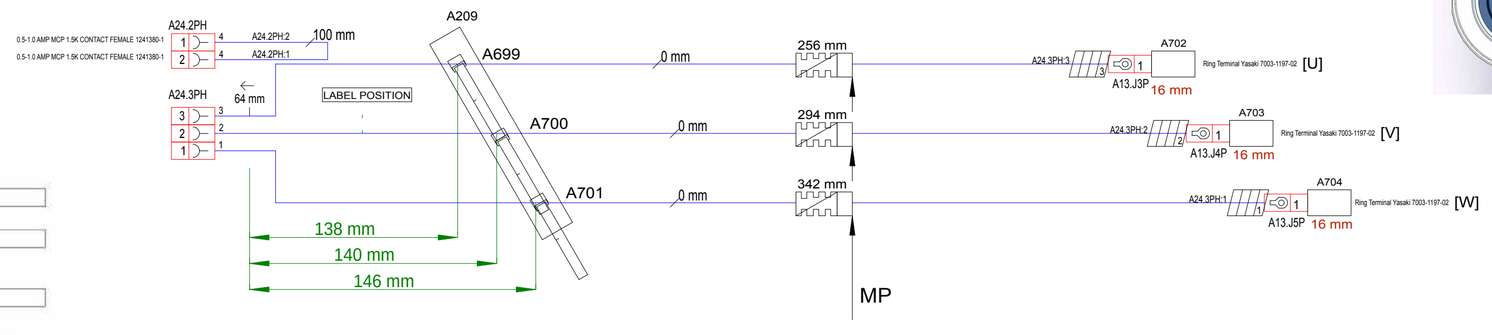
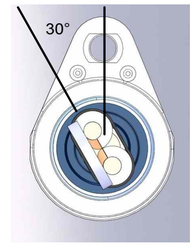
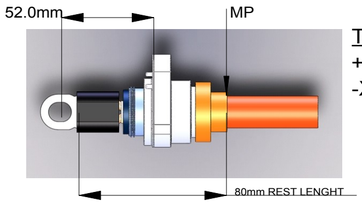
TABLE OF SUBPART FOR PHISTERER 3-PHASE CONNECTOR

Article Number	Description	Quantity	Material	Surface	Additional Info
389001101	Coding sleeve A with O-Ring	3	PA66 GF	Black/Red	
389001001	HICCON II high current contact, pre assembled	3	Cu	Ag/Cu	
389000801	Half-shell spacer sleeve	6	PA66 GF	Black	
389000601	Support crimp	3	Cu	Sn	
389000701	Shield wire crimp	3	Cu	Ni	
389003101	Shield wire contact	3	Cu	Ni	
389003301	Distance sleeve	3	PA66 GF	Black	
389000401	Lamella sealing cable 35_B	3	Silicone	Black	
389000301	Ending sleeve 35_B pre assembled	3	PA66 GF	Black/Green	O-Ring greased
389000201	Secondary lock, Aluminium housing	3	Stainless Steel	---	
389000101	Housing with sealings, centre screw and label	1	Al	---	Tightening Torque centre screw 9Nm
389000901	Pilot contact adapter CC+O-Ring+Secondary lock	1	PBT GF	Black/Pink/Green	O-Ring greased



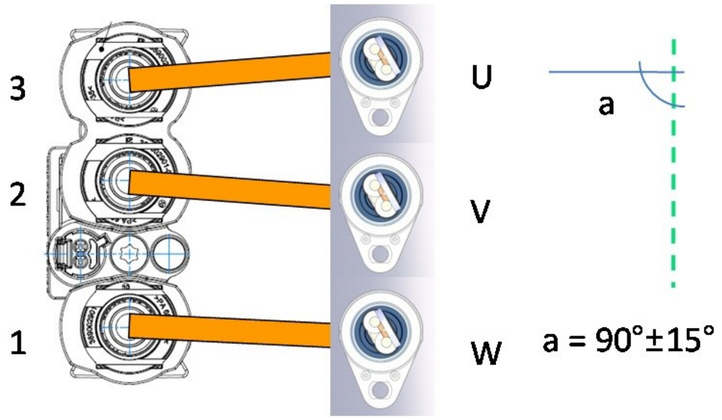






Tolerance
+0
-X.Y mm

U	V	W
ELECTRICAL MACHINE "U"	ELECTRICAL MACHINE "V"	ELECTRICAL MACHINE "W"
7335-6310	7335-6311	7335-6312
7L0.972.982.R	7L0.972.982.S	7L0.972.982.T
Ø3.40	Ø3.40	Ø2.00 Ø2.00
- 3.9	3.9 -	2.6



SC	Significant Characteristics				
1	TERMINAL EYE-LETS (U, V, W) DISTANCE FROM SHIELDBASE TO CENTER OF TERMINAL 52.0 MM (+0.2/-0).				
2	PFISTERER HVC8 CONNECTOR CRIMP ACCORDING TO THE LATEST PFISTERER APPLICATION SPECIFICATION.				
3	COMPLETE DESIGN VERIFIED FOR COMPLIANCE IN ACCORDANCE TO TEST METHODS SPECIFIED IN SAE J1742: SPECIAL ATTENTION ON THE YAZAKI END CONNECTORS WHILE PFISTERER TERMINALS ARE INTRODUCED IN THE ASSEMBLY. YAZAKI END CONNECTORS MUST NOT MOVE APART - VOLTAGE DROP, WITH TEMPERATURE MEASURED AT JUNCTIONS. - ISOLATIONS RESISTANCE - DIELECTRIC WITHSTAND VOLTAGE				
CC	Critical Characteristics				
1	MINIMUM REQUIRED MANUFACTURING TEST: COMPLETE CABLE SHALL UNDERGO AND PASS A - DIELECTRIC WITHSTAND VOLTAGE, BETWEEN WIRE CORE AND SHIELD; (NO ISOLATION BREAKDOWN OR FLASH-OVER: APPLIED VOLTAGE ≥2.5kV DC FOR ≥60 sec.) RECORD LEAKAGE CURRENT. HIGH CURRENT CONDUCTIVITY TEST, REQUIREMENTS: - VOLTAGE DROP MEASURED ON CONNECTED CORES, TERMINALS AND CABLE; (TEST CURRENT ≥100A DC, MAXIMUM VOLTAGE DROP ACROSS SINGLE LENGTH SHALL NOT EXCEED: 110 mV. MEASURED WITH TEST CURRENT = 120.0A DC.) RECORD RESULT.				

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

Rev.	Description	Change Req.	Date	Prepared	Approved
A	CP release	GEN-2	20100219	MSV	EFP

HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A2 Sheet Size	Created 16/11/2009 Change Date	Page 1 of 1
A306 CABLE MOTOR POWER 3PH SHIELD	Description	Drawing no 542.3050.A	Status DRAFT

Plotted: 16.05.2011 13:35 msv

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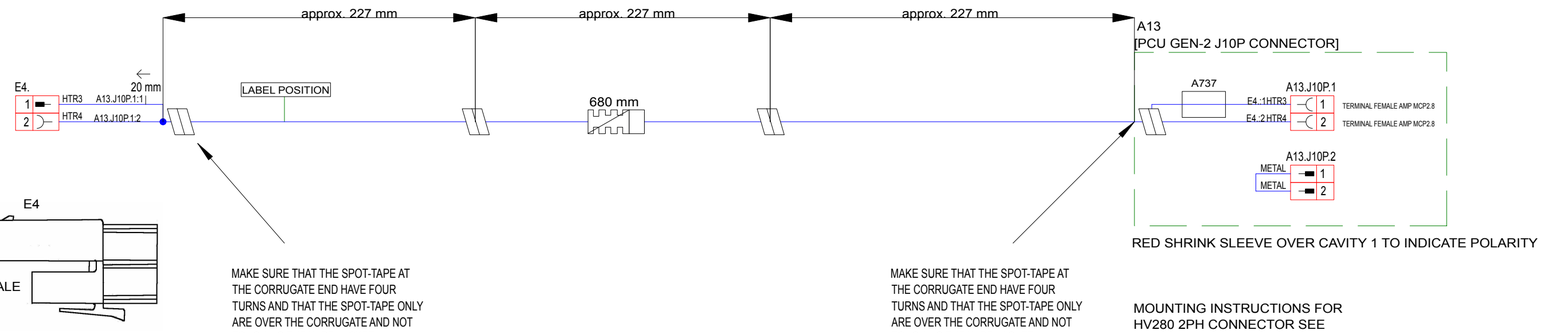
Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
METAL	INTERLOCK	BARE		A13.J10P.2	2 /1.D7	A13.J10P.2	1 /1.D7	0
HTR3	R2	OG	4.00 mm²	E4.	1 /1.D2	A13.J10P.1	1 /1.D7	700
HTR4	R2	OG	4.00 mm²	E4.	2 /1.D2	A13.J10P.1	2 /1.D7	700

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
E4.	1	FCI	60070271	9.5 DCS-1 FEMALE	
E4.	1	FCI	60170271	9.5 DCS-1 MALE	
E4.	1	FCI	DCSHHPE02BKSV	CONNECTOR 2PIN FEMALE /MALE BLACK DCSHHPE02BKSV	
	0	NITTON		ORANGE PVC TAPE	
A737	1	Raychem	RNF-3000-12/4-2-SP	SHRINK SLEEVE 12/04 WO GLUE RED	
A738	1	SCHLEMMER	1227312	CORRUGATED TUBE NW12 SLIT ORANGE	
A13.J10P.1	2	TYCO	1-968859-1	TERMINAL FEMALE AMP MCP2.8	
A13.J10P.2	1	TYCO	HVA280 (KEY A) 1587819-1	HIGH VOLTAGE HOUSING 2PIN	
A13.J10P.1	1	TYCO	HVA280 (KEY A) 1587819-1	HIGH VOLTAGE HOUSING 2PIN 2PH	

CRIMP SLEEVES ARE GENERALLY THE BASE FOR SPECIFICATION IN THE THINK DRAWING. OTHER MAKES MAY BE SELECTED IF PROPERTIES FROM SPECIFIED PRODUCT IS KEEPT AND

A REWORK THAT WAS NOT USED!!!

LABEL LAYOUT

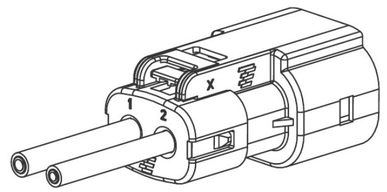


RED SHRINK SLEEVE OVER CAVITY 1 TO INDICATE POLARITY

MAKE SURE THAT THE SPOT-TAPE AT THE CORRUGATE END HAVE FOUR TURNS AND THAT THE SPOT-TAPE ONLY ARE OVER THE CORRUGATE AND NOT TOUCHING THE WIRE JACKET.

MAKE SURE THAT THE SPOT-TAPE AT THE CORRUGATE END HAVE FOUR TURNS AND THAT THE SPOT-TAPE ONLY ARE OVER THE CORRUGATE AND NOT TOUCHING THE WIRE JACKET.

MOUNTING INSTRUCTIONS FOR HV280 2PH CONNECTOR SEE INSTRUCTION SHEET 408-10299



A13

SUBPARTS SIZE C OR SIZE D ACCORDING OUTER JACKET AND TO CUSTOMER DRAWING SUITABLE FOR 4mm2 SHIELDED WIRES

(Fluid Heater)

Rev.	Description	Change Req.	Date	Prepared	Approved
B	New Harness	GEN-2	20100511	MSV	-

HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	Sheet Size: A2	Created 20100511 Change Date	Page 1 of 1
A306 ADAPTER HARNESS FLUID HEATER	Description / Drawing no: 52.3060.A	Status: DRAFT	

Plotted: 16.05.2011 13:35 msv

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Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
METAL	INTERLOCK	BARE		A13.J10P.2	2	/1.D7	A13.J10P.2	1 /1.D7	0
HTR3	R2	OG	4.00 mm²	X86 (E4.)	2	/1.D2	A13.J10P.1	1 /1.D7	700
HTR4	R2	OG	4.00 mm²	X86 (E4.)	3	/1.D2	A13.J10P.1	2 /1.D7	700

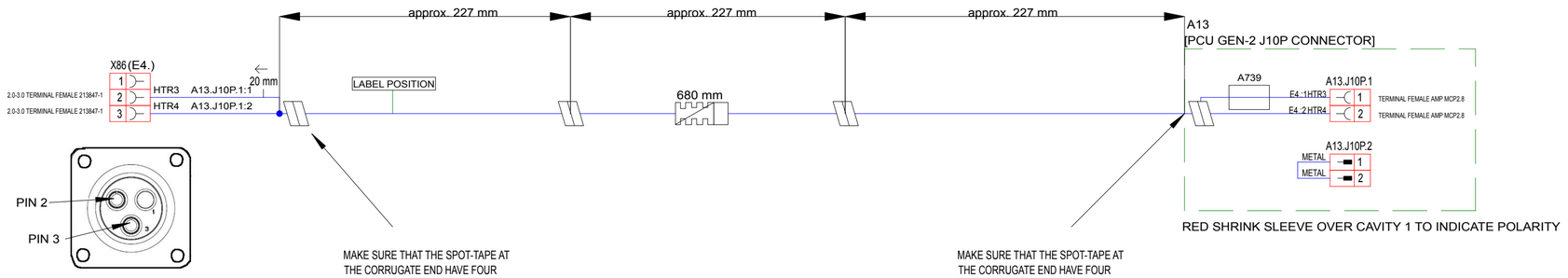
Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
	0	NITTON		ORANGE PVC TAPE	
A739	1	Raychem	RNF-3000-12/4-2-SP	SHRINK SLEEVE 12/04 WO GLUE RED	
A740	1	SCHLEMMER	1227312	CORRUGATED TUBE NW12 SLIT ORANGE	
A13.J10P.1	2	TYCO	1-968859-1	TERMINAL FEMALE AMP MCP2.8	
X86 (E4.)	2	TYCO	213847-1	2.0-3.0 TERMINAL FEMALE 213847-1 Ag PLT 125 PWRBND	
X86 (E4.)	1	TYCO	788189-1	CONNECTOR 3PIN FEMALE 788189-1	
A13.J10P.2	1	TYCO	HVA280 (KEY A) 1587819-1	HIGH VOLTAGE HOUSING 2PIN	
A13.J10P.1	1	TYCO	HVA280 (KEY A) 1587819-1	HIGH VOLTAGE HOUSING 2PIN 2PH	

CRIMP SLEEVES ARE GENERALLY THE BASE FOR SPECIFICATION IN THE THINK DRAWING. OTHER MAKES MAY BE SELECTED IF PROPERTIES FROM SPECIFIED PRODUCT IS KEEPT AND

A REWORK THAT WAS NOT USED!!!

Think PartNoRev
Think
Manufacturer Batch No

LABEL LAYOUT

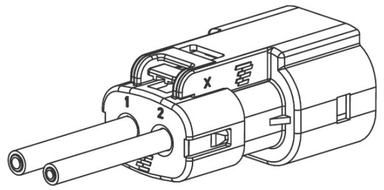


RED SHRINK SLEEVE OVER CAVITY 1 TO INDICATE POLARITY

MAKE SURE THAT THE SPOT-TAPE AT THE CORRUGATE END HAVE FOUR TURNS AND THAT THE SPOT-TAPE ONLY ARE OVER THE CORRUGATE AND NOT TOUCHING THE WIRE JACKET.

MAKE SURE THAT THE SPOT-TAPE AT THE CORRUGATE END HAVE FOUR TURNS AND THAT THE SPOT-TAPE ONLY ARE OVER THE CORRUGATE AND NOT TOUCHING THE WIRE JACKET.

MOUNTING INSTRUCTIONS FOR HV280 2PH CONNECTOR SEE INSTRUCTION SHEET 408-10299



A13

SUBPARTS SIZE C OR SIZE D ACCORDING OUTER JACKET AND TO CUSTOMER DRAWING SUITABLE FOR 4mm2 SHIELDED WIRES

(Fluid Heater)

Rev.	Description	Change Req.	Date	Prepared	Approved
B	New Harness	GEN-2	20100518	MSV	-

HARNESS — Document type
MSV — Prepared by
A306 MY2011 Pre-series — File name
Approved by | A2 — Sheet Size
Created 18/05/2010 — Change Date
Page 1 of 1
A306 — Description
Drawing no
Status
ADAPTER HARNESS FLUID HEATER 5P.A — DRAFT

Plotted: 16.05.2011 13:35 msv

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Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
AC1	R2	OG	3.00 mm²	M14.2.	2	/1.D2	A13.J9P.1	1 /1.D8	420
AC2	R2	OG	3.00 mm²	M14.2.	1	/1.D2	A13.J9P.1	2 /1.D8	420
METAL	INTERLOCK	BARE		A13.J9P.2	1	/1.E8	A13.J9P.2	2 /1.E8	0

The interlock is integrated in the connector

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A719,A733	2	Raychem	RNF-3000-12/4-2-SP	SHRINK SLEEVE 12/04 WO GLUE RED	
A736	300	SCHLEMMER	1926012	CORRUGATED TUBE NW12 UNSLIT ORANGE	
A13.J9P.1	2	TYCO	1-968859-1	TERMINAL FEMALE AMP MCP2.8	
A13.J9P.1	1	TYCO	HVA280 (KEY A) 1587902-1	HIGH VOLTAGE HOUSING 2PIN 2PH	
M14.2.	2	YAZAKI	7116-4122-02	6.3 TERMINAL FEMALE 7116-4122-02	
M14.2.	1	YAZAKI	7125-8351-02	SHIELD TERMINAL YAZAKI 7125-8351-02	
M14.2.	1	YAZAKI	7158-3721-90	SWS YAZAKI 7158-3721-90	
M14.2.	1	YAZAKI	7172-0271-51	REAR HOLDER YAZAKI 7172-0271-51	
M14.2.	1	YAZAKI	7173-0057	SHIELD PIPE YAZAKI 7173-0057	
M14.2.	1	YAZAKI	7225-8338-51	HOUSING 2PIN ASSY	

TYCO CONNECTOR

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A13.J9P.1	1	TYCO	1587827	CABLE SEAL RETAINER	
A13.J9P.1	1	TYCO	1587826	CABLE SEAL	
A13.J9P.1	2	TYCO	1587828	INNER FERRULE	
A13.J9P.1	2	TYCO	1587829	OUTER FERRULE	
A13.J9P.1	1	TYCO	1587819	2 PIN PLUG CONNECTOR ASSY	

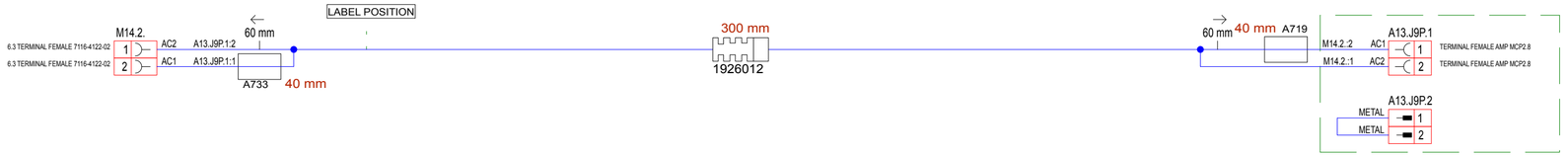
CRIMP SLEEVES ARE GENERALLY THE BASE FOR SPECIFICATION IN THE THINK DRAWING. OTHER MAKES MAY BE SELECTED IF PROPERTIES FROM SPECIFIED PRODUCT IS KEEPT AND

Think PartNo/Rev
Think Manufacturer Batch No

LABEL LAYOUT

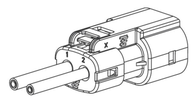
RED SHRINK SLEEVE OVER CAVITY 2 TO INDICATE POLARITY

LABEL POSITION



RED SHRINK SLEEVE OVER CAVITY 1 TO INDICATE POLARITY

MOUNTING INSTRUCTIONS FOR HV280 2PH CONNECTOR SEE INSTRUCTION SHEET 408-10299



A13

SUBPARTS SIZE C ACCORDING TO CUSTOMER DRAWING SUITABLE FOR 3mm2 SHIELDED WIRES

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

(A/C High Voltage)

Rev.	Description	Change Req.	Date	Prepared	Approved
B	New Harness	-	20100525	MSV	PBA

Document type: HARNESS	Prepared by: MSV	File name: A306 MY2011 Pre-series	
Approved by	Sheet Size: A2	Created: 20100422 Change Date	Page: 1 of 1
Description: A306 JUMPER HV A/C COMPRESSOR	Drawing no: 542.3070.A	Status: R	

Plotted: 16.05.2011 13.35 msv

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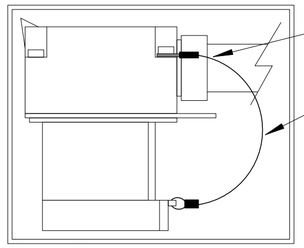
Wire Id	Type	Colour	Size	From		Loc.	To		Loc.	Lenght (mm) (Cu)
1	RADOX 125 HALOGEN-FREE	BK	2.50 mm²	A40	L1	/1.C21C2	A13.J7P.1	1	/1.D91D9	2000
2	RADOX 125 HALOGEN-FREE	BU	2.50 mm²	A40	N	/1.C21C2	A13.J7P.1	10	/1.D91D9	2000
3	RADOX 125 HALOGEN-FREE	GN/YE	2.50 mm²	A40	PE	/1.C21C2	A13.J7P.1	15	/1.E91E9	1990
4	RADOX 125 HALOGEN-FREE	GN/YE	2.50 mm²	A40	PE	/1.C21C2	X85.1.1	1	/1.D41D4	310
5	RADOX 125 HALOGEN-FREE	WH	0.50 mm²	A40	P	/1.D21D2	A13.J7P.1	14	/1.E91E9	2000
6	RADOX 125 HALOGEN-FREE	RD	0.50 mm²	A40	R1	/1.C21C2	A13.J7P.1	11	/1.D91D9	2000
7	RADOX 125 HALOGEN-FREE	GN	0.50 mm²	A40	PE	/1.C21C2	A40	R2	/1.C21C2	60
9	RADOX 125 HALOGEN-FREE	BK	1.50 mm²	A13.J7P.1	2	/1.D91D9	A4.X1	4	/1.E21E2	2300
10	RADOX 125 HALOGEN-FREE	BU	1.50 mm²	A13.J7P.1	16	/1.E91E9	A4.X1	2	/1.E21E2	2300
11	RADOX 125 HALOGEN-FREE	GN/YE	1.50 mm²	A4.X1	GND	/1.E21E2	A13.J7P.1	7	/1.D91D9	2300

NOTE:
1. CABLE QUALITY ACCORDING TO ISO 6722:2006 AND/OR SAE J1654.
2. CABLE HALOGEN FREE WITH ISOLATION.
3. MATERIALS USED IN THIS ASSEMBLY SHALL BE IN CONFORMITY WITH EU ELV 2000/53/EC DIRECTIVE.

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A85	1	Anixter Components	33488355	Grommet GET14-20	
A40	1	Brookdale Fasteners		Ring Crimp Connector Un-insulated M3/0.5mmsq, AWS 1.5/3mm	
14	1	Davies Industrial Supplies	AT87	P.I.B Self Amalgamating 19x0.5mm Black	
A40	1	Erma		Erma Ring Tongue Crimp M5 Type WS2-M5	
C291	1	HELLERMANN TYTON	150-10144	CLIPS T50SSB5-MC2-BK-R1	
C110,C120,C83,C86,C89,C90	6	HELLERMANN TYTON	T50RSBS5.N66-BK	WELD STUD FIXING TIE BLACK	
C433,C434,C435	3	HELLERMANNTYTON	T50R-FT7	CLIPS T50R-FT7 Black	
A40	1	Japanese Solderless Terminals		Ring Crimp Connector Type 2-M3 or Cenbre Type 2.5-M3.5/1	
X85.1.1	1	Japenese Solderless Terminals		JST Ring Tongue Crimp M6-2.5 Type 2-6	
X85.1.1	1	Japenese Solderless Terminals		JST Ring Tongue Crimp M6-2.5 Type 2-6	
A40	1	LEWDEN	LEV 499	CHARGE INLET LEWDEN	
A40	1	LEWDEN	PM16/3KC	CAP PUSH FIT PM16/3KC	
A4.X1	1	PFISTERER	350 208-001	Connector	
A798	1	Printasleeve		Printasleeve Green/Yellow Heat Shrink	
A40	2	RS Components	267-3789	Ring Crimp M3.5 Blue	
A786	1	Raychem	Rayfast ATUM - 12/4.0	Raychem ATUM 12/4.0 Black Heat Shrink	
A790	1	Raychem	Rayfast ATUM - 19/6.0	Raychem ATUM 19/6.0 Black Heat Shrink	
	1715	SCHLEMMER	1227008	CORRUGATED TUBE ORANGE Ø 11.7/8.4 UNSLIT	
	1775	SCHLEMMER	1227012	CORRUGATED TUBE 15.7/12.2 UNSLIT ORANGE	
C133	1	SCHLEMMER	7807288	REDUCER NW10-8.5 7807288	
C133	1	SCHLEMMER	9806104	T-PIECE NW13-13-10 9806104	
A13.J7P.1	1	TYCO	1-206138-0	CABLE CLAMP SIZE23 CPC 1-206138-0	
A13.J7P.1	4	TYCO	2-66358-1	0.8-2.0 TERMINAL FEMALE 2-66358-1 ENHANCED HIGH CUR	
A13.J7P.1	4	TYCO	213847-1	2.0-3.0 TERMINAL FEMALE 213847-1 Ag PLT 125 PWRBND	
A13.J7P.1	1	TYCO	796203-1	CONNECTOR 16PIN FEMALE 796203-1	



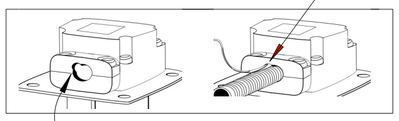
NON ISOLATED TERMINAL RING MOUNTED 45DEG ANGLE ON TO CONNECTOR HOUSING.

CUT THE LENGTH TO 200mm

Erma Ring Tongue Crimp M5 fitted to external rear cover of the Lewden Inlet to attach the cap cord to the inlet body

CAP (PM16/3KC) MOUNTED ON TO CHARGE INLET

GROUND WIRE



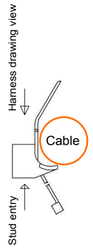
2 mm Ø manually filed hole in the location as shown on the detail

LABEL LAYOUT

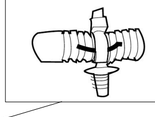
Think PartNo
Think Manufacturer Part No

Label Material:

Label Adhesive:

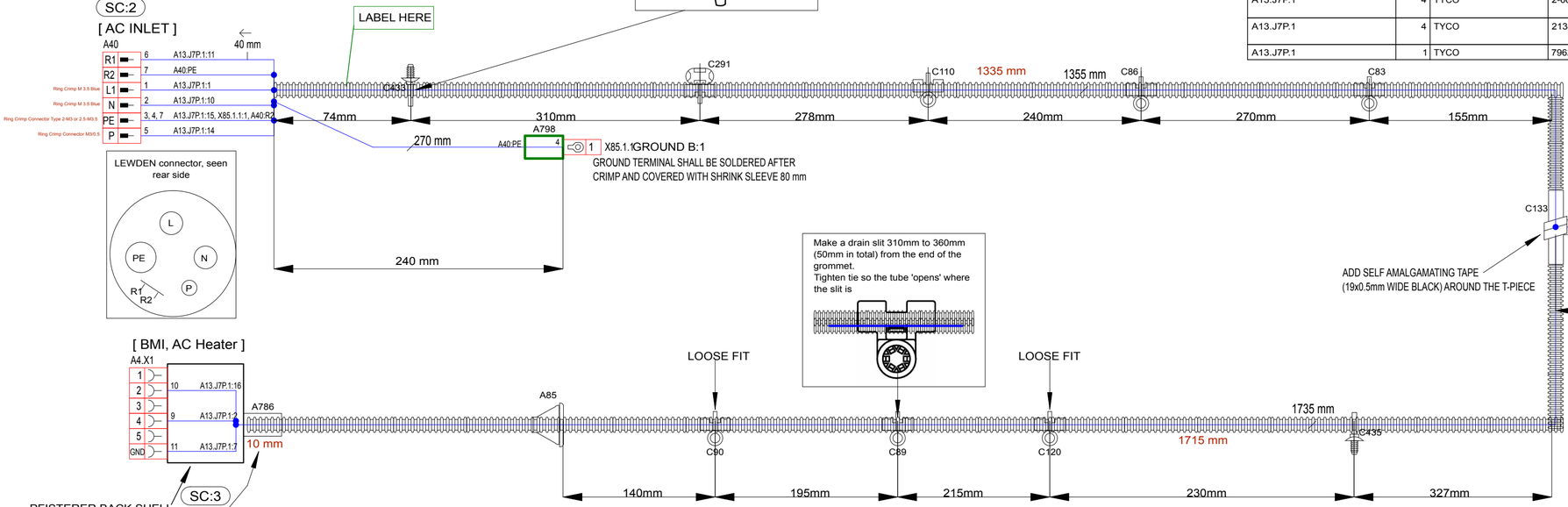


Make a drain slit 40 to 90mm (50mm in total) from the end of the corrugated tube.



SC:2

[AC INLET]



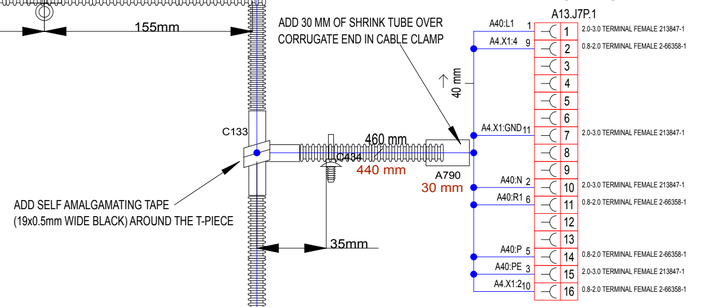
LEWDEN connector, seen rear side

Make a drain slit 310mm to 360mm (50mm in total) from the end of the grommet.
Tighten tie so the tube 'opens' where the slit is

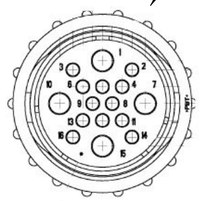
LOOSE FIT

LOOSE FIT

[PCU]



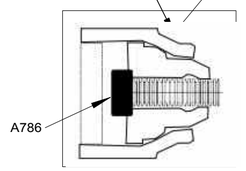
NOTE:
It is IMPORTANT that Cavity 1 is at the top and Cavity 15 is at the bottom, as shown in the detail



[BMI, AC Heater]

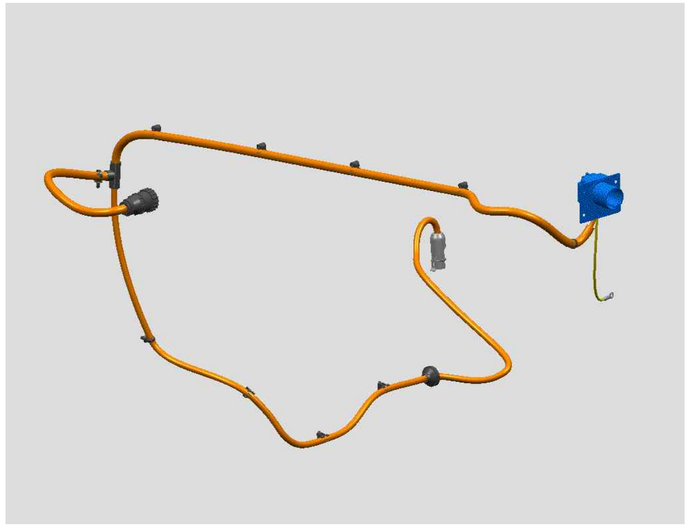
SC:3

PFISTERER BACK SHELL



Pfisterer connector 350-208-007 includes the following sub parts:
2x outer shell plastic moulding
2x inner plastic moulding contact holder
1x rear grommet
3x female contacts
1x o ring seal
1x black plastic ring

SC	Significant Characteristics
1	THERE IS AN OVERLENGTH OF 20mm PER METER ON THE WIRES TO PROTECT THE WIRES FROM PULL FORCE. MAKE SURE THAT THE CORRUGATED TUBE IS PROPERLY SECURED IN EACH END WITH A CRIMP SLEEVE.
2	ALL RIVETED EYE TERMINALS MUST BE INSPECTED AND FIXED. TYPE OF RING TERMINALS: "L" AND "N" - INSULATED "PE" - UNINSULATED "P" UNINSULATED WITH BLACK SHRINK SLEEVE
3	MAKE SURE THAT THE PFISTERER BACK SHELL COVERS THE CORRUGAL. PUT A 10mm CRIMP SLEEVE 24/8 WITH GLUE ON THE CORRUGATED TUBE END AS A STRENGTH RELIEF INSIDE THE BACK SHELL.
4	ARALDITE 2045 GLUE 50mm FROM THE BACK OF CONNECTOR INSIDE CORRUGATED TUBE
CC	Critical Characteristics
1	REED SWITCHES ARE TO BE TESTED TO ENSURE THEY ARE OPEN. CONDITION AND CLOSING FUNCTION ACCORDING TO MAGNETS IN MATING CONNECTOR.
2	HV ISOLATION TEST TO BE PERFORMED AFTER FULL ASSEMBLY. COMMON MODE BETWEEN L1+N TOWARDS PE+PD+CP. REQUIREMENT: NO FLASH OVER (OR SIGN OF ISOLATION BREACH) WHEN APPLYING 1500V AC FOR 1 MINUTE.



Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

Revision	Task Number	Description	Date	Change Req	Prepared	Approved
C	T001 T002 T003 T004 T005 T006 T007	Added 50mm slit on corrugated tube, clip C89 Added 50mm slit on corrugated tube, clip C433 Added Araldite 2045 Glue & SC:4 Added self amalgamating tape to T-PIECE Added 3D detail and note updates Deleted red spot tape around to terminal X.85 Updated SC & CC	02022011	N/A	JJF	PBA
B	N/A	Changed corrugated tube from grey to orange	20100603	GEN-2	MSV	PBA
A	N/A	Changed lengths between clips, one clip moved	20100302	GEN-2	MSV	EFP

Document type: HARNESS	Prepared by: MSV	File name: A306 MY2011 Pre-series	THINK
Approved by	Sheet Size: A2	Created: 20100122 Change Date	Page: 1 of 1
Description: A306 MAINS INLET ASSY 1PH 309 W/AUX AC	Drawing no: 542.3080.C	Status: DRAFT	

Plotted: 16.05.2011 13.35 msv

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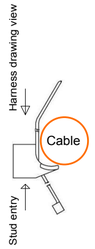
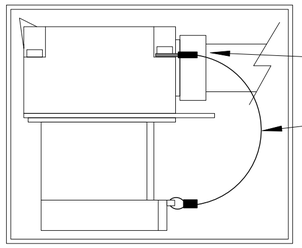
Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
1	RADOX 125 HALOGEN-FREE	BK	2.50 mm²	A40	L1	/1.D1	A13.J7P	1 /1.D9	1895
2	RADOX 125 HALOGEN-FREE	BU	2.50 mm²	A40	N	/1.D1	A13.J7P	10 /1.D9	1895
3	RADOX 125 HALOGEN-FREE	GN/YE	2.50 mm²	A40	PE	/1.D1	A13.J7P	15 /1.E9	1895
4	RADOX 125 HALOGEN-FREE	GN/YE	2.50 mm²	A40	PE	/1.D1	X85	1 /1.E3	280
5	RADOX 125 HALOGEN-FREE	WH	0.50 mm²	A40	P	/1.D1	A13.J7P	14 /1.E9	1895
6	RADOX 125 HALOGEN-FREE	RD	0.50 mm²	A40	R1	/1.D1	A13.J7P	11 /1.D9	1895
7	RADOX 125 HALOGEN-FREE	GN	0.50 mm²	A40	PE	/1.D1	A40	R2 /1.D1	80

NOTE:
1. CABLE QUALITY ACCORDING TO ISO 6722:2006 AND/OR SAE J1654.
2. CABLE DIMENSIONS ACCORDING TO ISO 6722:2006, HALOGEN FREE INSULATION PREFERED.
3. SHIELD NON-CURRENT CARRYING, FOR EMC AND GROUND PROTECTION ONLY.
4. MATERIALS USED IN THIS ASSEMBLY SHALL BE IN CONFORMITY WITH EU ELV 2000/53/EC DIRECTIVE.
5. CONNECTOR A4.X1 IS SPECIFIED WITH ASSEMBLY PART NUMBER. LOOSE PIECE SUB ITEM IS AVAILABLE FROM PFISTERER.

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
A13.J7P	4			0.8-2.0 TERMINAL FEMALE 2-66358-1 ENHANCED HIGH CUR	
A13.J7P	4			2.0-3.0 TERMINAL FEMALE 213847-1 Ag PLT 125 PWRBND	
X85	1	G&HARTMAN	970794	RING TERMINAL M6 2.6-6.0	
C292,C297	2	HELLERMANN	T50R-FT7 BLACK	CLIPS T50R-FT7 BLACK	
C298	1	HELLERMANN TYTON	150-10144	CLIPS T50SSB5-MC2-BK-R1	
C293,C294,C295	3	HELLERMANN TYTON	T50RSBS5.N66-BK	WELD STUD FIXING TIE BLACK	
A40	1	LEWDEN	LEV 499	CHARGE INLET LEWDEN	
A40	1	LEWDEN	PM16/3KC	CAP PUSH FIT PM16/3KC	
A712	1	Raychem		Crimp Sleeve ATUM 9/3 BLACK w/o glue	
	1775	SCHLEMMER	1227012	CORRUGATED TUBE 15.7/12.2 UNSLIT ORANGE	
A13.J7P	1	TYCO	1-206138-0	CABLE CLAMP SIZE23 CPC 1-206138-0	
A13.J7P	1	TYCO	796203-1	CONNECTOR 16PIN FEMALE 796203-1	



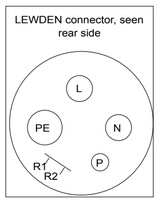


UNINSULATED TERMINAL RING MOUNTED 45DEG ANGLE ON TO CONNECTOR HOUSING.

CUT THE LENGHT TO 200mm

LABEL LAYOUT

Think PartNo
Think Manufacturer Part No



SC:2

[AC INLET]

A40		
R1	6	A13.J7P:1:11
R2	7	A40:PE
L1	1	A13.J7P:1:1
N	2	A13.J7P:1:10
PE	3, 4, 7	A13.J7P:1:15, X85.1.1:1, A40:R2
P	5	A13.J7P:1:14

40 mm

LABEL HERE

74mm | 310mm | 278mm | 240mm | 270mm | 190mm

C298 1

1815 mm

C295 | 1775 mm 2 | C294 | C293

1

ADD 40 MM OF SHRINK TUBE OVER CORRUGATE SLEEVE IN CABLE CLAMP

[PCU]

A13.J7P.1

40 mm

A40:L1	1	1	2.0-3.0 TERMINAL FEMALE 213847-1
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
A40:N	2	10	2.0-3.0 TERMINAL FEMALE 213847-1
A40:R1	6	11	0.8-2.0 TERMINAL FEMALE 2-66358-1
		12	
		13	
A40:P	5	14	0.8-2.0 TERMINAL FEMALE 2-66358-1
A40:PE	3	15	2.0-3.0 TERMINAL FEMALE 213847-1
		16	

240 mm

A712

A40:PE 4 | 1 | X85.1.1

80 mm

RED

60mm

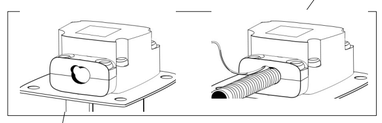
240 mm

GROUND B:1

GROUND TERMINAL SHALL BE SOLDERED AFTER CRIMP AND COVERED WITH SHRINK SLEEVE 80 mm

CAP (PM16/3KC) MOUNTED ON TO CHARGE INLET

GROUND WIRE



Ø 2 mm

1 (Turned the clips 180 degrees)

2 (Changed the colour on the corrugated tube from grey to orange.
Removed the ORANGE shrink/tape spots.

SC	Significant Characteristics
1	THERE ARE AN OVERLENGHT OF 20mm ON THE WIRES TO PROTECT THE WIRES FROM PULL FORCE. MAKE SURE THAT THE CORRUGAL IS PROPERLY SECURED IN EACH END
2	ALL RIVETED EYE TERMINALS MUST BE INSPECTED AND FIXED. TYPE OF RING TERMINALS: "L" AND "N" - INSULATED "PE" - UNINSULATED "P" UNINSULATED WITH BLACK SJHRINK SLEEVE
CC	Critical Characteristics
1	REED SWITCES ARE TO BE TESTED FOR NORMALLY OPEN. CONDITION AND CLOSING FUNCTION ACCORDING TO MAGNETS IN MATING CONNECTOR.

Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

B	Change the Corrated tube from Grey to Orange	GEN-2	20100603	MSV	PBA
A	New harness	GEN-2	20100302	MSV	EFP

HARNESS	Document type		
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A2 Sheet Size	Created 20100122 Change Date	Page 1 of 1
A306	Description	Drawing no	Status
MAINS INLET ASSY 1PH 309 WO/AUX AC		542.3090.B	R

Plotted: 16.05.2011 13:35 msv

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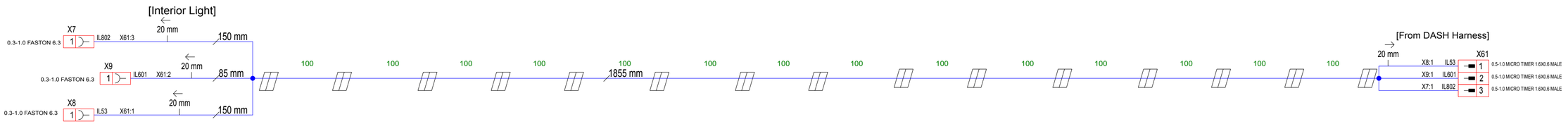
Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
IL53	R2	BU/WH	0.75 mm²	X61	1	/1.D9	X8	1	/1.E1	2045
IL601	R2	RD	0.75 mm²	X61	2	/1.E9	X9	1	/1.E1	1980
IL802	R2	BK	0.75 mm²	X61	3	/1.E9	X7	1	/1.D1	2045

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
X7,X8,X9	3	TYCO	1544132-2	0.3-1.0 TERMINAL FEMALE FASTON 6.3	
C337,C338,C339,C340,C341,C342 C343,C344,C345,C346,C347,C348 C349,C350,C351	15	Tesa	51608-09-15	Clothtape Wound Twice	
X61	1	Tyco	1-962342-1	HOUSING 3 PIN MICRO TIMER	4113064
X7,X8,X9	3	Tyco	1544408-1	INSULATION SLEEVE FASTON 6.3	
X61	3	Tyco	963900-1	0.5-1.0 MICRO TIMER 1.6X0.6 MALE	



Length tolerances

Nominal length	Tolerances				
	Partial dim.		Total dim.		Positional dim.
	+	-	+	-	
- 500	15	5	20	0	±10
>500 - 1500	25	5	30	0	±10
>1500 - 4000	30	10	50	0	±15
>4000 - 5000	30	10	100	0	±20
>5000	2%	0,5%	2%	0	±20
General tolerance positioning of cable ties and clips: ±5 mm					

ALL CABLES SHOULD MARKED WITH PART NUMBER

Rev.	Description	Change Req.	Date	Prepared	Approved
D	Removed clips, added lenght	-	20100415	MSV	PBA
C	NEW LENGTH, NEW COLORS & NEW NET	-	13.11.2007	PBR	EFP
B	CHANGES ACC. TO MEETING 070522	-	070523	MN	MA
A	DRAWING ADDED	-	020528	LL	IÅ

Document type: HARNESS	Prepared by: MSV		
File name: A306 MY2011 Pre-series	Approved by	Sheet Size: A2	Created: 20100316 Change Date
Page: 1 of 1	Description: A306 INTERIOR LIGHT- BASE HARNESS	Drawing no: 578.6101.D	Status: R

Plotted: 16.05.2011 13:35 msv

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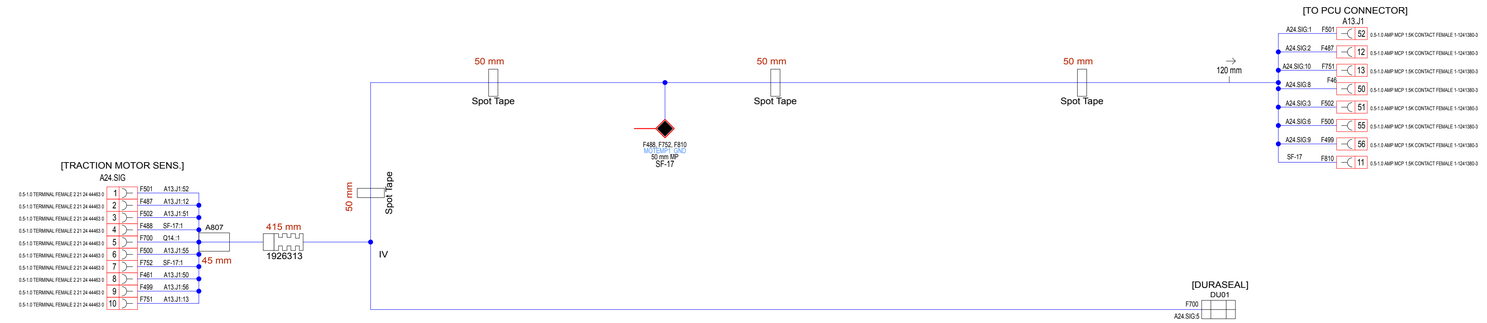
F461	R2	BN	1.00 mm²	A24.SIG	8	A13.J1	50	745
F487	R2	GY	0.50 mm²	A13.J1	12	A24.SIG	2	745
F488	R2	BK/WH	0.50 mm²	SF-17	1	A24.SIG	4	575
F499	FLRT3 ZH0L	BN	0.50 mm²	A13.J1	56	A24.SIG	9	745
F500	FLRT3 ZH0L	DKGN	0.50 mm²	A13.J1	55	A24.SIG	6	745
F501	FLRT3 ZH0L	YE	0.50 mm²	A13.J1	52	A24.SIG	1	745
F502	FLRT3 ZH0L	WH	0.50 mm²	A13.J1	51	A24.SIG	3	745
F700	R2	BU	1.00 mm²	A24.SIG	5	Q14	1	
F751	R2	WH	0.50 mm²	A13.J1	13	A24.SIG	10	745
F752	R2	BK/WH	0.50 mm²	A24.SIG	7	SF-17	1	575
F810	R2	BK/WH	0.50 mm²	SF-17	1	A13.J1	11	170

Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
SF-17	1			GENERAL SPLICE	
A24.SIG	10			SWS 0.5-1.0mm 1080044522	
	200			Spot Tape	
A807	1	HELLERMANTYTON	318-32400	CRIMP SLEEVE HELLERMANTYTON 20/8 W GLUE	
A24.SIG	1	KOSTAL	09 4310 91	CONNECTOR KOSTAL 10 PIN FEMALE	
A24.SIG	10	KOSTAL	2 21 24 44463 0	0.5-1.0 TERMINAL FEMALE 2 21 24 44463 0	
	415	SCHLEMMER		CORRUGATED TUBE NW13 UNSLIT BLACK	
A13.J1	8	TYCO	1-1241380-3	0.5-1.0 AMP MCP 1.5K CONTACT FEMALE 1-1241380-3	
A13.J1	1	TYCO	1418882-1	COVER FOR TYCO 62 PIN 1418882-1	
A13.J1	8	TYCO	963530-1	SWS ID1.4-1.9 MCTII 963530-1	
A13.J1	1	Tyco	1-1418883-1	CONNECTOR TYCO 62 PIN MALE	
DU01	1	TYCO		DURASEAL SPLICE	



HARNESS	Document type	THINK	
JJF	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	Sheet Size: A1	Created 28.03.2011 Change Date	Page 1 of
A306	Description	Drawing no: KIT	Status: DRAFT

Plotted: 16.03.2011 13:35 msy

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Wire Id	Type	Colour	Size	From	Loc.	To	Loc.	Lenght (mm) (Cu)
IL53	R2	BU/WH	0.75 mm²	X61	1	/1.E8	X8	1	/1.E2	2045
IL601	R2	RD	0.75 mm²	X61	2	/1.E8	X9	1	/1.E2	1980
IL802	R2	BK	0.75 mm²	X61	3	/1.E8	X7	1	/1.E2	2045
HFSD823	R2	GN/RD	4.00 mm²	X13	1	/1.D3	X84	2	/1.D8	1600
HFSD822	R2	BK	4.00 mm²	X12	1	/1.D3	X84	1	/1.D8	1555

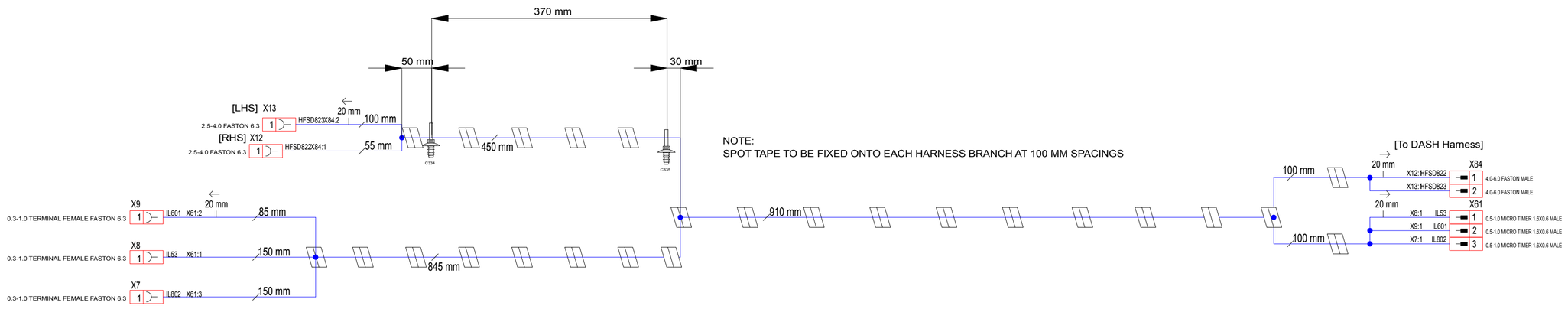
Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
L7	1			Think Label Layout	
C334,C335	2	HellermannTyton	150-55610	CABLE TIE T18RDP5 - BK-110	
X84	1	KB COMPONENTS	947780	FASTON HOUSING BLACK 2 PIN MALE	
X7,X8,X9	3	TYCO	1544132-2	0.3-1.0 TERMINAL FEMALE FASTON 6.3	
X61	1	Tyco	1-962342-1	HOUSING 3 PIN MICRO TIMER	4113064
X7,X8,X9	3	Tyco	1544408-1	INSULATION SLEEVE FASTON 6.3	
X12,X13	2	Tyco	154717-4	2.5-4.0 FASTON 6.3	TYCO 11111
X12,X13	2	Tyco	154719-0	FASTON 6.3 HOUSING 1 PIN BLACK	
X84	2	Tyco	280080-4	4.0-6.0 FASTON MALE	
X61	3	Tyco	963900-1	0.5-1.0 MICRO TIMER 1.6X0.6 MALE	

LABEL LAYOUT

L7

Harness Supplier:
Think PartNo:
Date:
Batch Sequence:
Test:

Barcode



NOTE:
SPOT TAPE TO BE FIXED ONTO EACH HARNESS BRANCH AT 100 MM SPACINGS

Note:
When using the cloth tape.
Arrange the wires
(HFSD822, 823, IL53, 601 & 802)
like shown in figure below

Interior Light w HFS

A	N/A	New Drawing	19.04.2010	CP46	MSV	PBA
Revision	Task Number	Description	Date	Change Req	Prepared	Approved

HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	A2 Sheet Size	Created 24/02/2010 Change Date	Page 1 of 1
A306 INTERIOR LIGHT w HFS	Description	Drawing no SUBPART 541.3055.B	Status DRAFT

Plotted: 16.05.2011 13:35 msv

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Wire Id	Type	Colour	Size	From		Loc.	To		Loc.	Lenght (mm) (Cu)
HFSA820	R2	VT	0.50 mm²	D2.	16	/1.E21E2	X78	3	/1.E81E8	790
HFSA816	R2	BK	0.50 mm²	D2.	18	/1.E21E2	X78	2	/1.E81E8	790
HFSA815	R2	GY	0.50 mm²	D2.	17	/1.E21E2	X78	1	/1.E81E8	790
HFSA820	R2	VT	0.50 mm²	D2.	16	/1.E21E2	X78	3	/1.E81E8	790
HFSA816	R2	BK	0.50 mm²	D2.	18	/1.E21E2	X78	2	/1.E81E8	790
HFSA815	R2	GY	0.50 mm²	D2.	17	/1.E21E2	X78	1	/1.E81E8	790

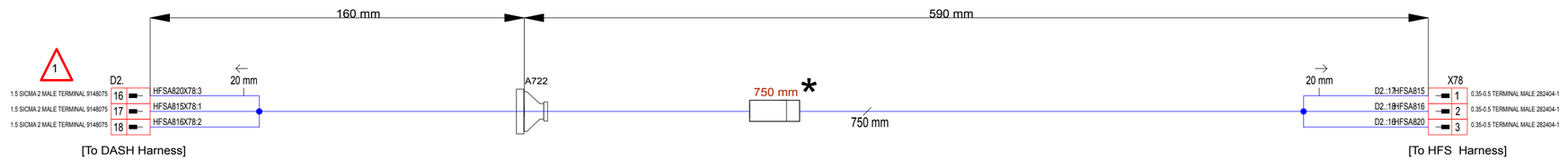
Device Names	Qty.	Manufacturer	Part Number	Description	Alternative
L9	1			Think Label Layout	
	750			Wrapping Hose	
A722	1		GET14-20	GROMMET M32 IP-67	
X78	1	AMP	282105-1	SUPERSEAL 1.5 SERIES 3PIN MALE	
D2.	3	FCI	9148075	0.3-1.0 MALE TERMINAL 1.5 SICMA 2	
D2.	1	FCI	9148284	CONNECTOR 18PIN MALE 211PL182S2004 RED	
X78	3	TYCO	282404-1	0.3-0.5 TERMINAL FEMALE 282404-1	
X78	3	TYCO	828921-1	SWS ID 1.2-2.0 SUPERSEAL 828921-1	

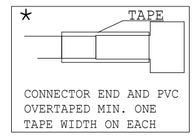
L9

LABEL LAYOUT

Harness Supplier:
Think PartNo:
Date:
Batch Sequence:
Test:

Barcode





1 Changed BUS Connector from Green to Red.
Changed terminals from 0.75-1.5 to 0.35-0.5

ADAPTER HARNESS HFS

Revision	Task Number	Description	Date	Change Req	Prepared	Approved
B	N/A	Change connector in BOM list	N/A			
A	N/A	New Drawing	19.04.2010	CP46	MSV	PBA

HARNESS	Document type	THINK	
MSV	Prepared by		
A306 MY2011 Pre-series	File name		
Approved by	Sheet Size: A2	Created 20100826 Change Date	Page 1 of 1
Description: A306 ADAPTER HARNESS HFS	Drawing no: SUBPART 541.3065.C	Status: DRAFT	

Plotted: 16.05.2011 13:35 msv