Fuse/Relay Box

Cavity	Item	Wire	Length [mm]	Cavity	Item	Wire	Length [mm]
1	B/AD	7 GN	100	25	E	Blank	-
2	B/AD	22 PK	205	26	E	Blank	-
3	B/AD	39 BU	205	27	E	Blank	-
4	AU/AV	40 PK	205	28	E	Blank	-
5	B/AD	4 GN	205	29	E	Blank	-
6	B/AD	23 PK	205	30	E	Blank	-
7	B/AD	42 PK	205	31	E	Blank	-
8	AU/AV	41 PK	205	32	E	Blank	-
9	E	Blank	-	33	E	Blank	-
10	E	Blank	-	34	E	Blank	-
11	E	Blank	-	35	E	Blank	-
12	B/AD	17 PK	205	36	E	Blank	-
13	E	Blank	-	37	B/AD	27 BU	205
14	E	Blank	-	38	B/AD	49 RD	205
15	E	Blank	-	39	B/AD	52 BK	205
16	B/AD	16 PK	205	40	AU/AV	40 PK	205
17	E	Blank	-	41	E	Blank	-
18	E	Blank	-	42	E	Blank	-
19	E	Blank	-	43	E	Blank	-
20	E	Blank	-	44	E	Blank	-
21	E	Blank	-	45	B/AD	29 RD	205
22	E	Blank	-	46	B/AD	7 GN	-
23	E	Blank	-	47	AU/AV	36 RD	205
24	E	Blank	-	48	B/AD	51 PK	205

VIC1

Cavity	Item	Wire	Length [mm]
A	AF/AG	13 RD	130
B	AF/AG	44 YL	130
C	AF/AG	15 BK	130
D	AF/AG	14 RD	130
E	AF/AG	33 OR	130
F	AF/AG	43 RD	130
G	AF/AG	9 GN	130
-	-	-	-
K	AW/AX	31 WH	130
L	AW/AX	30 BK	130
M	AW/AX	28 RD	130

VIC2

Cavity	Item	Wire	Length [mm]
-	-	-	-
F	AJ/AG	32 PU	130
L	AJ/AG	29 RD	130
S	AJ/AG	49 RD	130
-	-	-	-

ENGINE FUSE-BOX CONN.

Cav	Item	Wire	Lgth
1	BB	53 RD	130
2	BB	54 RD	130

COMMON GROUND SPLICE

Wire
1 BK
2 BK
3 BK
5 BK
6 BK
10 BK
11 BK
18 BK
52 BK

PEDAL SENSOR

Cav	Item	Wire	Lgth
1	AC	28 RD	700
2	AC	30 BK	700
4	AC	31 WH	700

ALTERNATOR

Item	Wire	Lgth
X3	55 RD	375

BATTERY POWER SPLICE

Wire	Item
RD	
12 RD	
41 PK	AK
53 RD	
54 RD	

GROUND

Item	Wire	Lgth
RING1	1 BK	630

POWER

Item	Wire	Lgth
RING5	55 RD	235

SPLICE No.4 FUSE SPLICE

Wire	Item
4 GN	
16 PK	
23 PK	AK
24 PK	
42 PK	

SEAT SWITCH

Item	Wire	Lgth
FLAG	5 BK	580
FLAG	27 BU	580

SPLICE No.1 LIGHT POWER SPLICE

Wire	Item
34 PK	
35 PK	
36 RD	AK
37 PK	
38 PK	

RT WORK LIGHT REAR

Cav	Item	Wire	Lgth
1	S	34 PK	690
2	S	2 BK	690

RT WORK LIGHT FRONT

Cav	Item	Wire	Lgth
1	S	35 PK	390
2	S	3 BK	390

FUEL PRESSURE MANIFOLD

Cav	Item	Wire	Lgth
1	AM/AN	47 RD	400
2	AM/AN	48 WH	400
3	AM/AN	46 PU	400
4	AM/AN	45 GN	400

FUEL PRESSURE ENGINE INTERFACE

Cav	Item	Wire	Lgth
A	AP/AQ	47 RD	130
B	AP/AQ	48 WH	130
C	AP/AQ	46 PU	130
D	AP/AQ	45 GN	130

SPRAYER SWITCH

Cav	Item	Wire	Lgth
A	H/AD	8 PK	150
B	H/AD	39 BU	150

POWER STEER POWER

Item	Wire	Lgth
PL2	17 PK	230

WORK LIGHT SWITCH

Item	Wire	Lgth
PL1	50 RD	200
PL1	51 PK	200

COOLANT TEMP

Item	Wire	Lgth
PL2	33 OR	200

OIL PRESSURE LIGHT

Item	Wire	Lgth
PL2	32 PU	200

CHARGE ALT.

Item	Wire	Lgth
PL2	44 YL	200

MIL

Item	Wire	Lgth
PL2	9 GN	180

SPRAYER PUMP

Item	Wire	Lgth
PL4	8 PK	200
PL4	18 BK	200

LT WORK LIGHT FRONT

Cav	Item	Wire	Lgth
1	S	37 PK	400
2	S	10 BK	400

LT WORK LIGHT REAR

Cav	Item	Wire	Lgth
1	S	38 PK	540
2	S	11 BK	540

POWER

Item	Wire	Lgth
RING4	RD	150

HOUR METER

Item	Wire	Lgth
PL2	26 PK	300
PL2	6 BK	300

FUEL PUMP

Item	Wire	Lgth
RING2	14 RD	525
RING3	15 BK	525

SPLICE No.3 KEY RUN POWER SPLICE

Wire	Item
13 RD	
24 PK	
25 PK	AK
26 PK	
50 RD	

KEY SWITCH ARMREST

Cav	Item	Wire	Lgth
1		-	
2	K	25 PK	150
3	K	12 RD	150
4		-	
5	AS	43 RD	150

POWER IN LIGHTS

Item	Wire	Lgth
PL3	22 PK	200
PL3	21 PK	130
PL3	21 PK	-
PL3	20 PK	130
PL3	20 PK	-
PL3	19 PK	130
PL2	19 PK	-

Labels: VIC1, VIC2, X1, F1, X2, X3, N2, N3, N3, FPM, X4, X4, X4-1, X4-2, RING1, RING2, RING3, FPEI, FLAG-1, FLAG-2, X6, X5, PL2-9, PL1-1, PL1-2, PL2-4, PL2-7, PL2-5, PL2-8, PL3-1, PL3-2, PL3-3, PL2-6, PL2-1, PL2-2, N3, N3, X4, X4, X4-3, X4-4, PL4-1, PL4-2, N4, N4, F2, RING4, RING5, X3

Dimensions: 250, 475, 130, 205, 95, 640, 550, 750, 350, 490, 130, 130, 100, 100, 350

NOTES:

1. HARNESS DRAWN AND TO BE PRODUCED PER WN STD DEE-47 UNLESS OTHERWISE SPECIFIED
2. WIRE: PER SAE J1128 GXL. TXL ACCEPTABLE IF THIN CABLES REQUIRED, USE TXL WHERE NOTED.
3. BACK BRAID ENDS WHERE NOTED
4. LEAD FROM FUSE HOLDER (U)
5. CHANGES DONE TO THIS HARNESS MUST ALSO BE DONE TO THE SCHEMATIC 5990778-01
6. ALL DIMENSIONS ARE IN MILLIMETERS

F1

Desc	Manufacturer	Manufacturer no	Qty
Fuse/Relay box	GEP	PDM-T2AB1	1
TPA	GEP	PDM-TT1	6

Fuse/Relay Box

Position	Item	Description
A	W	Work lights
B	Z	Water pump
C	Z	Light cluster
D	X	Operator presence
E	Y	Power steer power
F	A	Op. presence relay
G	A	Work light relay

Insertion view

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	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48

Layout view

	4	3	2	1	
8	A	B	C	D	5
12	E				9
16					13
20					17
24					21
28					25
32					29
36					33
40	(30)	(85)	(30)	(85)	37
44	G	(87a)	F	(87a)	41
	(86)	(87)	(86)	(87)	
	48	47	46	45	

X1

Desc	Manufacturer	Manufacturer No	Qty
Connector, female receptacle, 12-10 AWG	Molex	19432-0013	1

X2

Desc	Manufacturer	Manufacturer No	Qty
Connector	TE	1-967616-1	1
Seal	TE	967067-1	3
Cavity plug	Parker	15305171	3

X3

Desc	Manufacturer	Manufacturer No	Qty
Boot, red alternator type, 8-2 AWG	Waytek	23507	1

X6

Desc	Manufacturer	Manufacturer No	Qty
Connector, male, 2 way, sealed	Delphi/Aptiv	12010973	1

X4

Desc	Manufacturer	Manufacturer No	Qty
Connector, plug	TE/Deutsch	DT06-2S-P012	4
Locking wedge	TE/Deutsch	W2S-P012	4

X5

Desc	Manufacturer	Manufacturer No	Qty
Connector, female, 5 way	Delphi/Aptiv	2973422-B	1

Terminals, Fuses

Item	Qty	Description	Manufacturer	Manufacturer No
A	2	Relay-micro, 12 VDC	Song Chuan	301-1C-C-R1-UO1
B	14	Terminal Fusebox, 18-16 AWG	Delphi/Aptiv	12077411
E	30	Cavity Plug	Delphi/Aptiv	12010300
H	2	Terminal, Male, 18-14 AWG	Delphi/Aptiv	12124582
K	2	Terminal, Female, 12 AWG	Delphi/Aptiv	12124519
S	8	DT socket	TE/Deutsch	1062-16-0122
W	1	Fuse-micro, 25A	Littelfuse	-
X	1	Fuse-micro, 10A	Littelfuse	-
Y	1	Fuse-micro, 15A	Littelfuse	-
Z	2	Fuse-micro, 5A	Littelfuse	-
AC	3	Contact, 20 AWG	TE	0-965906-5
AD	16	Cable seal	Delphi/Aptiv	15324982
AF	7	Terminal, Male, 16 AWG	Delphi/Aptiv	15326269
AG	10	Seal	Delphi/Aptiv	15366060
AJ	3	Terminal, Female, 18-16 AWG	Delphi/Aptiv	12191819
AK	4	Crimp Splice Terminal	-	-
AM	4	Terminal	Bosch	1928498056
AN	4	Seal	Bosch	1928300599
AP	4	Terminal, Male, 20-18 AWG	Delphi/Aptiv	12045773
AQ	4	Seal	Delphi/Aptiv	15324976
AS	1	Terminal, Female, 18-14 AWG	Delphi/Aptiv	12124517
AU	4	Terminal Fusebox, 14 AWG	Delphi/Aptiv	12129493
AV	4	Cable seal, 14 AWG	Delphi/Aptiv	15324980
AW	3	Terminal, Male, 22-20 AWG	Delphi/Aptiv	15326268
AX	3	Seal, 20 AWG	Delphi/Aptiv	15366021
BB	2	Terminal, Female, 12-10 AWG	Molex	19434

Ring terminals

	Description	Manufacturer	Manufacturer No	Qty
RING1	Ring terminal, 3/8 ring with heatshrink, 10 AWG	Lear	100940D-02	1
RING2	Ring terminal, M4 ring with heatshrink, 18-14 AWG	TE	40724	1
RING3	Ring terminal, M5 ring with heatshrink, 18-14 AWG	TE	40725	1
RING4	Ring terminal, M8 ring with heatshrink, 10-6 AWG	Lear	110634-AK02	1
RING5	Ring terminal, 5/16 ring with heatshrink, 10-8 AWG	Delphi/Aptiv	120004439	1

Plate terminals

	Description	Manufacturer	Manufacturer No	Qty
PL1	Plate terminal, 22-18 AWG	TE	2-520183-2	2
PL2	Plate terminal, 16-14 AWG	TE	3-350819-2	10
PL3	Plate terminal, 12-10 AWG	TE	4-520447-2	3
PL4	Plate terminal, 16-14 AWG, male	TE	3-520106-2	2

Flag terminals

	Description	Manufacturer	Manufacturer No	Qty
FLAG	Flag terminal, insulated, 16-14 AWG	TE	3-520132-2	2

F2

Desc	Manufacturer	Manufacturer no	Qty
Fuse holder, w/5", leads 6 AWG	Eaton	HHX	1
Fuse, MAXI 40 AMP	Littelfuse	299040	1

VIC1 - Vehicle Interface Connector 1

Desc	Manufacturer	Manufacturer no	Qty
Connector	Delphi/Aptiv	15326868	1
Lock	Delphi/Aptiv	15358785	1

VIC2 - Vehicle Interface Connector 2

Desc	Manufacturer	Manufacturer no	Qty
Connector	Delphi/Aptiv	15326863	1
Lock	Delphi/Aptiv	15358785	1

FPM

Desc	Manufacturer	Manufacturer No	Qty
Connector	Bosch	1928403736	1
Seal	Bosch	1928300599	4
Terminal	Bosch	1928498056	4

FPEI

Desc	Manufacturer	Manufacturer No	Qty
Connector	Delphi/Aptiv	12160825	1
Spacer	Delphi/Aptiv	12160826	1

Wire Chart

No.	Size [AWG]	Color	From	No/Cavity	Item	To	No	Item	No.	Size [AWG]	Color	From	No/Cavity	Item	To	No	Item
1	10	Black	RING1	N/A	RING1	Common ground splice	N/A	Crimp splice	30	20	Black	VIC1	L	AW/AX	X2	2	AC
2	16	Black	X4-1	2	S	Common ground splice	N/A	Crimp splice	31	20	White	VIC1	K	AW/AX	X2	4	AC
3	16	Black	X4-2	2	S	Common ground splice	N/A	Crimp splice	32	16	Purple	PL2-7	N/A	PL2	VIC2	F	AJ/AG
4	16	Green	Fuse/relay box	5	B/AD	Fuse splice	N/A	Crimp splice	33	16	Orange	PL2-4	N/A	PL2	VIC1	E	AF/AG
5	16	Black	FLAG-1	N/A	FLAG	Common ground splice	N/A	Crimp splice	34	16	Pink	X4-1	1	S	Work light power splice	N/A	Crimp splice
6	16	Black	PL2-2	N/A	PL2-2	Common ground splice	N/A	Crimp splice	35	16	Pink	X4-2	1	S	Work light power splice	N/A	Crimp splice
7	16	Green	Fuse/relay box	1	B/AD	Fuse/relay box	46	B/AD	36	14	Red	Fuse/relay box	47	AU/AV	Work light power splice	N/A	Crimp splice
8	16	Pink	PL4-1	N/A	PL4	X6	A	H/AD	37	16	Pink	X4-3	1	S	Work light power splice	N/A	Crimp splice
9	16	Green	VIC1	G	AF/AG	PL2-8	N/A	PL2	38	16	Pink	X4-4	1	S	Work light power splice	N/A	Crimp splice
10	16	Black	X4-3	2	S	Common ground splice	N/A	Crimp splice	39	16	Blue	Fuse/relay box	3	B/AD	X6	B	H/AD
11	16	Black	X4-4	2	S	Common ground splice	N/A	Crimp splice	40	14	Pink	Fuse/relay box	40	AU/AV	Fuse/relay box	4	B/AD
12	12	Red	X5	3	K	Battery power splice	N/A	Crimp splice	41	14	Pink	Fuse/relay box	8	AU/AV	Battery power splice	N/A	Crimp splice
13	16	Red	VIC1	A	AF/AG	Key run power splice	N/A	Crimp splice	42	16	Pink	Fuse/relay box	7	B/AD	Fuse splice	N/A	Crimp splice
14	16	Red	RING2	N/A	RING2	VIC1	D	AF/AG	43	16	Red	X5	5	AS	VIC1	F	AF/AG
15	16	Black	RING3	N/A	RING3	VIC1	C	AF/AG	44	16	Yellow	VIC1	B	AF/AG	PL2-5	N/A	PL2
16	16	Pink	Fuse/relay box	16	B/AD	Fuse splice	N/A	Crimp splice	45	18	Green	FPM	4	AM/AN	FPEI	D	AP/AQ
17	16	Pink	Fuse/relay box	12	B/AD	PL2-9	N/A	PL2	46	18	Purple	FPM	3	AM/AN	FPEI	C	AP/AQ
18	16	Black	PL4-2	N/A	PL4	Common ground splice	N/A	Crimp splice	47	18	Red	FPM	1	AM/AN	FPEI	A	AP/AQ
19	16	Pink	PL2-6	N/A	PL2	PL3-3	N/A	PL3	48	18	White	FPM	2	AM/AN	FPEI	B	AP/AQ
20	16	Pink	PL3-3	N/A	PL3	PL3-2	N/A	PL3	49	18	Red	Fuse/relay box	38	B/AD	VIC2	S	AJ/AG
21	16	Pink	PL3-2	N/A	PL3	PL3-1	N/A	PL3	50	18	Red	PL1-1	N/A	PL1	Key run power splice	N/A	Crimp splice
22	16	Pink	Fuse/relay box	2	B/AD	PL3-1	N/A	PL3	51	18	Pink	PL1-2	N/A	PL1	Fuse/relay box	48	B/AD
23	16	Pink	Fuse/relay box	6	B/AD	Fuse splice	N/A	Crimp splice	52	18	Black	Fuse/relay box	39	B/AD	Common Ground Splice	N/A	Crimp splice
24	12	Pink	Key run power splice	N/A	Crimp splice	Fuse splice	N/A	Crimp splice	53	10	Red	X1	1	BB	Battery power splice	N/A	Crimp splice
25	12	Pink	X5	2	K	Key run power splice	N/A	Crimp splice	54	10	Red	X1	2	BB	Battery power splice	N/A	Crimp splice
26	16	Pink	PL2-1	N/A	PL2-2	Key run power splice	N/A	Crimp splice	55	8	Red	X3	N/A	X3	RING5	N/A	RING5
27	16	Blue	Fuse/relay box	37	B/AD	FLAG-2	N/A	FLAG									
28	20	Red	VIC1	M	AW/AX	X2	1	AC									
29	18	Red	Fuse/relay box	41	B/AD	VIC2	L	AJ/AG									