DC-P1

CONNECTOR

QTY.	PART #	DESCRIPTION
1	--	CONNECTOR,12 PIN MOLEX MX150L (MOLEX P/N:19418-0037)
12	--	TERMINAL,CONNECTOR 12-PIN (MOLEX P/N:19420-0009)

WIRE

PIN	PART #	WIRE GAUGE	CONNECTED TO
1	--	18 - RED/VIO	SPLICE 6
2	31972	14 - RED	B+
3	43918	14 - RED/WHT	SPLICE 4
5	31988	16 - GRY	SPLICE 5
6	49288	18 - WHT/BLK/RED	SPLICE 3
7	--	18 - PNK	ECU J1 - PIN 1
8	--	18 - WHT/BLK/GRN	ECU J1 - PIN 17
9	--	18 - WHT/BLK/YEL	ECU J2 - PIN 28
10	--	18 - WHT/BLK/GRY	ECU J2 - PIN 29
11	--	18 - WHT/BLK/ORG	ECU J2 - PIN 30
12	49287	18 - WHT/BLK/BLU	ECU J2 - PIN 31

WBO2

CONNECTOR

QTY.	PART #	DESCRIPTION
1	48979	CONNECTOR,WIDE BAND O2 (AMP P/N:1475104-1)
6	48980	TERMINAL,CONNECTOR 48979 (AMP P/N:2-964286-1)
6	48988	SEAL,CONNECTOR 48979 (AMP P/N:963293-1)

WIRE

PIN	PART #	WIRE GAUGE	CONNECTED TO
1	--	18 - GRN/YEL	ECU J1 - PIN 14
2	--	18 - WHT/BLK/VIO	ECU J1 - PIN 15
3	39499	16 - RED/VIO	K3 - PIN (87)
4	31997	16 - TAN	ECU J2 - PIN 10
5	49289	18 - BLK/WHT	ECU J1 - PIN 22
6	--	18 - WHT/BLK/ORG	ECU J1 - PIN 8

TIME RELAY N/O

CONNECTOR

QTY.	PART #	DESCRIPTION
1	24942	TERMINAL 16-14GA,QC,1/4F,INSUL (3M P/N:72F-250-32-NBL)

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
	43808	16 - VIO/WHT	SPLICE 2

TIME RELAY INIT

CONNECTOR

QTY.	PART #	DESCRIPTION
1	24942	TERMINAL 16-14GA,QC,1/4F,INSUL (3M P/N:72F-250-32-NBL)

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	31987	16 - VIO	SPLICE 6

TIME RELAY COM

CONNECTOR

QTY.	PART #	DESCRIPTION
1	24942	TERMINAL 16-14GA,QC,1/4F,INSUL (3M P/N:72F-250-32-NBL)

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	31987	16 - VIO	SPLICE 6

GND STRAP

CONNECTOR

QTY.	PART #	DESCRIPTION
1	16576	TERMINAL 12-10GA,3/8 RING, (AMP PN:322242)

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	31950	10 - BLK	B- SPLICE

INJ 1

CONNECTOR

QTY.	PART #	DESCRIPTION
1	--	CONNECTOR,INJ 3.0 SBPMG (AMP P/N:963040-3)
2	--	TERMINAL,CONNECTOR INJ 3.0 SBPMG (AMP P/N:929937-6)
2	--	SEAL,CONNECTOR INJ 3.0 SBPMG (AMP P/N:828904-1)

WIRE

PIN	PART #	WIRE GAUGE	CONNECTED TO
1	31980	16 - RED/VIO	SPLICE 1 - WIRE 4
2	--	16 - WHT/BLK/GRN	ECU J2 - PIN 11

INJ 2

CONNECTOR

QTY.	PART #	DESCRIPTION
1	--	CONNECTOR,INJ 3.0 SBPMG (AMP P/N:963040-3)
2	--	TERMINAL,CONNECTOR INJ 3.0 SBPMG (AMP P/N:929937-6)
2	--	SEAL,CONNECTOR INJ 3.0 SBPMG (AMP P/N:828904-1)

WIRE

PIN	PART #	WIRE GAUGE	CONNECTED TO
1	31980	16 - RED/VIO	SPLICE 1 - WIRE 3
2	--	16 - WHT/BLK/BRN	ECU J2 - PIN 23

INJ 3

CONNECTOR

QTY.	PART #	DESCRIPTION
1	--	CONNECTOR,INJ 3.0 SBPMG (AMP P/N:963040-3)
2	--	TERMINAL,CONNECTOR INJ 3.0 SBPMG (AMP P/N:929937-6)
2	--	SEAL,CONNECTOR INJ 3.0 SBPMG (AMP P/N:828904-1)

WIRE

PIN	PART #	WIRE GAUGE	CONNECTED TO
1	31980	16 - RED/VIO	SPLICE 1 - WIRE 2
2	--	16 - WHT/BLK/BLU	ECU J2 - PIN 22

ECU J2

CONNECTOR

QTY.	PART #	DESCRIPTION
1	49129	CONNECTOR,MALE 35 PIN AMP SEAL (AMP P/N:776164-4)
18	49130	TERMINAL,CONNECTOR 49128/9 (AMP P/N:770520-1)

WIRE

PIN	PART #	WIRE GAUGE	CONNECTED TO
1	31988	16 - GRY	SPLICE 5
2	31980	16 - BLK	B- SPLICE
8	49286	18 - ORG	K1 - PIN 85
10	31997	16 - TAN	WBO2 - PIN 4
11	--	16 - WHT/BLK/GRN	INJ 1 - PIN 2
12	--	18 - BLU	STEPPER - PIN 1
19	49284	18 - GRN	SPLICE 3
22	--	16 - WHT/BLK/BLU	INJ 3 - PIN 2
23	--	16 - WHT/BLK/BRN	INJ 2 - PIN 2
28	--	18 - WHT/BLK/YEL	DC - PIN 9
29	--	18 - WHT/BLK/GRY	DC - PIN 10
30	--	18 - WHT/BLK/ORG	DC - PIN 11
31	49287	18 - WHT/BLK/BLU	DC - PIN 12
32	49290	18 - WHT/RED	K2 - PIN 85
33	49291	18 - YEL	STEPPER - PIN 3
34	31995	18 - WHT	STEPPER - PIN 4
35	49283	18 - BRN	STEPPER - PIN 2

SPLICE 3 - K1,2,3 COIL PWR

CONNECTOR

ULTRASONIC WELD WITH ADH. HEAT SHRINK

QTY.	PART #	DESCRIPTION
1	57626	HEAT SHRINK WITH ADHESIVE)

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	--	18 - GRN	ECU J2 - PIN 19
2	--	18 - WHT/BLK/RED	DC - PIN 6
3	--	18 - GRN	K3 - PIN 85

ECU J1

CONNECTOR

QTY.	PART #	DESCRIPTION
1	49128	CONNECTOR,MALE 23 PIN AMPSEAL (AMP P/N:770680-1)
17	49130	TERMINAL,CONNECTOR 49128/9 (AMP P/N:770520-1)

WIRE

PIN	PART #	WIRE GAUGE	CONNECTED TO
1	--	18 - PNK	DC - PIN 7
2	--	18 - WHT/GRY	FIRE ALARM 2
3	--	18 - WHT/VIO	CAM - PIN 2
5	--	18 - WHT/ORG	MAP SIG SPLICE
7	49288	18 - WHT/BLK/RED	MAP PWR SPLICE
8	--	18 - WHT/BLK/ORG	WBO2 - PIN 6
9	--	18- RED/VIO	CAM/CRANK SPLICE
10	--	18 - WHT/YEL	CRANK ECU - PIN 2
11	--	18 - WHT/BLU	MAP - PIN 2
12	--	18 - WHT/BRN	OP SENSOR - PIN C
13	--	18 - WHT/GRN	ECT - PIN 1
14	--	18 - GRN/YEL	WBO2 - PIN 1
15	--	18 - WHT/BLK/VIO	WBO2 - PIN 2
16	49308	18 - WHT/GRY	EX TEMP 1
17	--	18 - WHT/BLK/GRN	DC - PIN 8
21	49289	18 - WHT/BLK	SENS GND SPLICE
22	49289	18 - BLK/WHT	WBO2 - PIN 5

K1 RELAY

CONNECTOR

QTY.	PART #	DESCRIPTION
1	37834	SOCKET,RELAY 37833 (BOSCH P/N:3-334-485-007)
4	37835	TERMINAL,RELAY SOCKET (BOSCH P/N:1-901-355-975)

WIRE

PIN	PART #	WIRE GAUGE	CONNECTED TO
30	43918	14 - RED/WHT	SPLICE 4
85	49286	18 - ORG	ECU J2 - PIN 8
86	31988	16 - GRY	SPLICE 5
87	31945	14 - YEL/RED	STR SOL

K2 RELAY

CONNECTOR

QTY.	PART #	DESCRIPTION
1	37834	SOCKET,RELAY 37833 (BOSCH P/N:3-334-485-007)
5	37835	TERMINAL,RELAY SOCKET (BOSCH P/N:1-901-355-975)

WIRE

PIN	PART #	WIRE GAUGE	CONNECTED TO
30	43918	14 - RED/WHT	SPLICE 4
85	49290	18 - WHT/RED	ECU J2 - PIN 32
86	31988	16 - GRY	SPLICE 5
87	31987	16 - VIO	SPLICE 6
(87)	34944	16 - RED/VIO	SPLICE 1 - INJ PWR

K3 RELAY

CONNECTOR

QTY.	PART #	DESCRIPTION
1	37834	SOCKET,RELAY 37833 (BOSCH P/N:1 928 404 736)
5	37835	TERMINAL,RELAY SOCKET (BOSCH P/N:1-901-355-975)

WIRE

PIN	PART #	WIRE GAUGE	CONNECTED TO
30	43918	14 - RED/WHT	SPLICE 4
85	49284	18 - GRN	SPLICE 3
86	31988	16 - GRY	SPLICE 5
87	31982	16 - RED	SPLICE 7
(87)	31980	16 - RED/VIO	WBO2 - PIN 3

SPLICE 6 - TIME INIT

CONNECTOR

QTY.	PART #	DESCRIPTION
1	16570	SPLICE,12-10AWG,NYLON UNINSULATE (MOLEX PN: 192150028)

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	31987	16 - VIO	K2 - PIN 87
2	--	18 - RED/VIO	DC-PI - PIN 1
3	31987	16 - VIO	TIME RELAY INIT - WIRE 1
4	31987	16 - VIO	TIME RELAY COM
5	31987	16 - VIO	OP_SWITCH 1

MAP SIG SPLICE

CONNECTOR

ULTRASONIC WELD WITH ADH. HEAT SHRINK

QTY.	PART #	DESCRIPTION
1	57626	HEAT SHRINK WITH ADHESIVE

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	--	18 - WHT/ORG	ECU J1 - PIN 5
2	--	18 - WHT/ORG	MAP ECU - PIN 4
3	--	18 - WHY/ORG	TCI PWR - PIN 3

SPLICE 4 - RELAY LOAD PWR

CONNECTOR

ULTRASONIC WELD WITH ADH. HEAT SHRINK

QTY.	PART #	DESCRIPTION
1	57626	HEAT SHRINK WITH ADHESIVE

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	43918	14 - RED/WHT	DC - PIN 3
2	43918	14 - RED/WHT	K1 - PIN 30
3	43918	14 - RED/WHT	K2 - PIN 30
4	43918	14 - RED/WHT	K3 - PIN 30

SPLICE 5 - RELAY COIL PWR

CONNECTOR

ULTRASONIC WELD WITH ADH. HEAT SHRINK

QTY.	PART #	DESCRIPTION
1	57626	HEAT SHRINK WITH ADHESIVE

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	31988	16 - GRY	DC - PIN 5
2	31988	16 - GRY	K1 - PIN 86
3	31988	16 - GRY	K2 - PIN 86
4	31988	16 - GRY	K3 - PIN 86
5	31988	16 - GRY	ECU J2 - PIN 1

SPLICE 7 - TCI PWR

CONNECTOR

ULTRASONIC WELD WITH ADH. HEAT SHRINK

QTY.	PART #	DESCRIPTION
1	57626	HEAT SHRINK WITH ADHESIVE

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	31982	16 - RED	K3 - PIN 87
2	31982	16 - RED	TCI POWER - WIRE 1
3	31994	18 -RED	TCI POWER - WIRE 2

SENS GND SPLICE

CONNECTOR

ULTRASONIC WELD WITH ADH. HEAT SHRINK

QTY.	PART #	DESCRIPTION
1	57626	HEAT SHRINK WITH ADHESIVE

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	49289	18 - WHT/BLK	ECT - PIN 2
2	49289	18 - WHT/BLK	CRANK ECU - PIN 3
3	49289	18 - WHT/BLK	ECU J1 - PIN 21
4	49289	18 - WHT/BLK	MAP ECU - PIN 1
5	49289	18 - WHT/BLK	CAM - PIN 1
6	49289	18 - WHT/BLK	OP SENSOR - PIN A

SPLICE 2 - OP/PUMP PWR

CONNECTOR

ULTRASONIC WELD WITH ADH. HEAT SHRINK

QTY.	PART #	DESCRIPTION
1	57626	HEAT SHRINK WITH ADHESIVE

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	--	16 - VIO/WHT	OP SW 2 - WIRE 1
2	--	16 - VIO/WHT	TIME RELAY N/O
3	43808	16 - VIO/WHT	LIFT PUMP - PIN 1
4	43808	16 - VIO/WHT	HP PUMP - PIN 1

TIME RELAY GND

CONNECTOR

QTY.	PART #	DESCRIPTION
1	--	TERMINAL, 22-18GA, FEM, 1/4 QC, INSULATED (3M PN:71F-250-32-NBL)

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	31993	18 - BLK	B- SPLICE

B- SPLICE

CONNECTOR

ULTRASONIC WELD WITH ADH. HEAT SHRINK

QTY.	PART #	DESCRIPTION
1	57626	HEAT SHRINK WITH ADHESIVE

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	31980	16 - BLK	ECU J2 - PIN 2
2	49289	18 - BLK	TIME RELAY GND
3	31980	16 - BLK	HP PUMP - PIN 2
4	49289	18 - BLK	EMI SHIELDING
5	31980	16 - BLK	LIFT PUMP - PIN 2
6	49289	18 - BLK	EX TEMP 2
7	49289	18 - BLK	FIRE ALARM 1
8	31950	10 - BLK	GND STRAP

CAM/CRANK SPLICE

CONNECTOR

ULTRASONIC WELD WITH ADH. HEAT SHRINK

QTY.	PART #	DESCRIPTION
1	57626	HEAT SHRINK WITH ADHESIVE

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	----	18 - RED/VIO	ECU J1 - PIN 9
2	----	18 - RED/VIO	CAM - PIN 3
3	----	18 - RED/VIO	CRANK - PIN3

EX TEMP

CONNECTOR

QTY.	PART #	DESCRIPTION
2	13948	TERMINAL 16-14GA,10 RING,ISULATED (MOLEX PN:19073-0088)

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
EX TEMP 1	--	18 - WHT/GRY	ECU J1 - PIN 16
EX TEMP 2	49289	18 - BLK	B- SPLICE

SPLICE 1 - INJ PWR

CONNECTOR

ULTRASONIC WELD WITH ADH. HEAT SHRINK

QTY.	PART #	DESCRIPTION
1	57626	HEAT SHRINK WITH ADHESIVE

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	31944	16 - RED/VIO	K2 - PIN (87)
2	31944	16 - RED/VIO	INJ 3 - PIN 1
3	31944	16 - RED/VIO	INJ 2 - PIN 1
4	31944	16 - RED/VIO	INJ 1 - PIN 1

TCI POWER

CONNECTOR

QTY.	PART #	DESCRIPTION
1	49086	CONNECTOR,MALE 3 POS SEALED (AMP P/N:282087-1)
3	49088	TERMINAL,CONNECTOR 49085,6,7 (AMP P/N:282110-1)
3	49089	SEAL,CONNECTOR 49085,6,7 (AMP P/N:281934-2)

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	31982	16 - RED	SPICE 7
2	31994	18 - RED	
3	--	18 - WHT/ORG	MAP SIG SPLICE

CAM

CONNECTOR

QTY.	PART #	DESCRIPTION
1	56683	CONNECTOR,MALE 3 POS SEALED, 56677 (TE P/N:2-282191-1)
3	56684	TERMINAL,CONNECTOR, 56683 (TE P/N:929937)
3	56685	SEAL,CONNECTOR, 56683 (TE P/N:828904-1)

WIRE

PIN	PART #	WIRE GAUGE	CONNECTED TO
1	-	18 - WHT/BLK	SENS GND SPLICE
2	-	18 - WHT/VIO	ECU J1 - PIN 3
3	49289	18 - RED/VIO	SPLICE 2 - WIRE 2

OP SWITCH 2

CONNECTOR

QTY.	PART #	DESCRIPTION
1	41034	TERMINAL 16-14GA,1/4 FEMALE QC,INSULATED (MOLEX PN:190160036)

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	43808	16 - VIO/WHT	SPLICE 2

OP SWITCH 1

CONNECTOR

QTY.	PART #	DESCRIPTION
1	41034	TERMINAL 16-14GA,1/4 FEMALE QC,INSULATED (MOLEX PN:190160036)

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	31987	16 - VIO	SPLICE 6

OP SENSOR

CONNECTOR

QTY.	PART #	DESCRIPTION
1	57580	CONNECTOR,MALE 3 POS SEALED (APTIV P/N:829-12065287)
3	57581	TERMINAL,CONNECTOR -- (APTIV P/N:12110236)

WIRE

WIRE	CIRC #	WIRE GAUGE	CONNECTED TO
C	132	18 - WHT/BRN	ECU J1 - PIN 12
A	174	18 - WHT/BLK	SENS GND SPLICE
B	185	18 - WHT/BLK/RED	MAP PWR SPLICE

MAP PWR SPLICE

CONNECTOR

ULTRASONIC WELD WITH ADH. HEAT SHRINK

QTY.	PART #	DESCRIPTION
1	57626	HEAT SHRINK WITH ADHESIVE

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
1	19288	18 - WHT/BLK/RED	MAP ECU - PIN 3
2	42988	18 - WHT/BLK/RED	ECU J1 - PIN 7
3	--	18 - WHT/BLK/RED	OP SENSOR - PIN B

FIRE ALARM

CONNECTOR

QTY.	PART #	DESCRIPTION
2	41002	TERMINAL 16-14GA,6 SNAP SPADE,INSULATED (MOLEX P/N: 19118-0055)

WIRE

WIRE	PART #	WIRE GAUGE	CONNECTED TO
FIRE ALARM 1	49289	18 - BLK	B- SPLICE
FIRE ALARM 2	49289	18 - WHT/GRY	ECU J1 - PIN 2

LIFT PUMP

CONNECTOR

QTY.	PART #	DESCRIPTION
1	49085	CONNECTOR,MALE 2 POS SEALED (AMP P/N:282080-1)
2	49088	TERMINAL,CONNECTOR 49085,6,7 (AMP P/N:282110-1)
2	49089	SEAL,CONNECTOR 49085,6,7 (AMP P/N:281934-2)

WIRE

PIN	PART #	WIRE GAUGE	CONNECTED TO
1	43808	16 - VIO/WHT	SPLICE 2
2	31980	16 - BLK	B- SPLICE

ECT

CONNECTOR

QTY.	PART #	DESCRIPTION
1	49085	CONNECTOR,MALE 2 POS SEALED (AMP P/N:282080-1)
2	49088	TERMINAL,CONNECTOR 49085,6,7 (AMP P/N:282110-1)
2	49089	SEAL,CONNECTOR 49085,6,7 (AMP P/N:281934-2)

WIRE

PIN	PART #	WIRE GAUGE	CONNECTED TO
1	--	18 - WHT/GRN	ECU J1 - PIN 13
2	49289	18 - WHT/BLK	SENS GND SPLICE

CRANK ECU

CONNECTOR

QTY.	PART #	DESCRIPTION
1	49086	CONNECTOR,MALE 3 POS SEALED (AMP P/N:282087-1)
3	49088	TERMINAL,CONNECTOR 49085,6,7 (AMP P/N:282110-1)
3	49089	SEAL,CONNECTOR 49085,6,7 (AMP P/N:281934-2)

WIRE

PIN	PART #	WIRE GAUGE	CONNECTED TO
1	-	18 - RED VIO	SPLICE 2 - WIRE 3
2	-	18 - WHT/YEL	ECU J1 - PIN 10
3	49289	18 - WHT/BLK	SENS GND SPLICE

HP PUMP

CONNECTOR

QTY.	PART #	DESCRIPTION
1	49085	CONNECTOR,MALE 2 POS SEALED (AMP P/N:282080-1)
2	49088	TERMINAL,CONNECTOR 49085,6,7 (AMP P/N:282110-1)
2	49089	SEAL,CONNECTOR 49085,6,7 (AMP P/N:281934-2)

WIRE

PIN	PART #	WIRE GAUGE	CONNECTED TO
1	43808	16 - VIO/WHT	SPLICE 2
2	31980	16 - BLK	B- SPLICE

MAP ECU

CONNECTOR

QTY.	PART #	DESCRIPTION
1	49078	CONNECTOR,SENSOR 48989 (BOSCH P/N:1 928 404 736)
4	49079	TERMINAL,CONNECTOR 49078 (BOSCH P/N:1 928 498 056)
4	49080	SEAL,CONNECTOR 49078 (BOSCH P/N:1 928 300 599)

WIRE

PIN	PART #	WIRE GAUGE	CONNECTED TO
1	49289	18 - WHT/BLK	SENS GND SPLICE
2	--	18 - WHT/BLU	ECU J1 - PIN 11
3	19288	18 - WHT/BLK/RED	MAP PWR SPLICE
4	--	18 - WHT/ORG	MAP SIG SPLICE

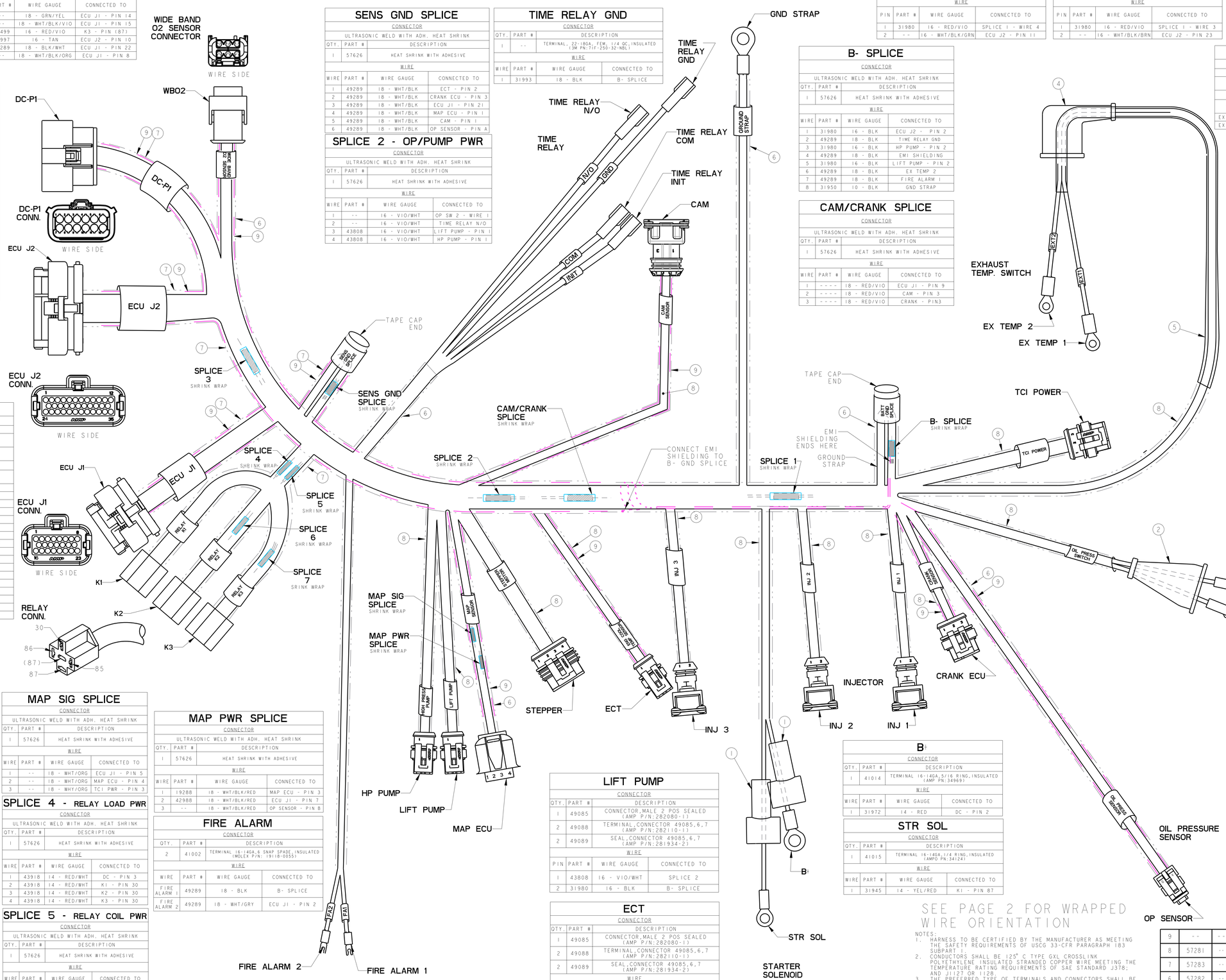
STEPPER

CONNECTOR

QTY.	PART #	DESCRIPTION
1	49087	CONNECTOR,MALE 4 POS SEALED (AMP P/N:282088-1)
4	49088	TERMINAL,CONNECTOR 49085,6,7 (AMP P/N:282110-1)
4	49089	SEAL,CONNECTOR 49085,6,7 (AMP P/N:281934-2)

WIRE

PIN	PART #	WIRE GAUGE	CONNECTED TO
1	49282	18 - BLU	ECU J2 - PIN 12
2	49283	18 - BRN	ECU J2 - PIN 35
3	49291	18 - YEL	ECU J2 - PIN 33
4	31995	18 - WHT	ECU J2 - PIN 34



SEE PAGE 2 FOR WRAPPED WIRE ORIENTATION

NOTES:
1. HARNESS TO BE CERTIFIED BY THE MANUFACTURER AS MEETING THE SAFETY REQUIREMENTS OF USCG 33-CFR PARAGRAPH 183 SUBPART I.
2. CONDUCTORS SHALL BE 125° C TYPE GXL CROSSLINK POLYETHYLENE INSULATED STRANDED COPPER WIRE MEETING THE TEMPERATURE RATING REQUIREMENTS OF SAE STANDARD J378; AND J1127 OR 1128.
3. THE PREFERRED TYPE OF TERMINALS AND CONNECTORS SHALL BE OPEN BARREL WITH BOTH A MECHANICAL AND ELECTRICAL CRIMP. BARREL CRIMPS MAY BE USED ONLY WHEN THE OPEN BARREL TYPE IS NOT AVAILABLE.
4. TERMINALS AND CONNECTOR SHALL BE CRIMPED AND SOLDERED TO THE CONDUCTORS.
5. TERMINALS AND CONNECTORS SHALL BE INSULATED WITH SHRINK TUBING.
6. TERMINALS AND CONNECTORS SHALL WITHSTAND THE FOLLOWING FORCES FOR ONE MINUTE:

WIRE SIZE (AWG)	TENSILE FORCE (LBS)
20	10
18	10
16	15
14	30

7. NO SPLICE SHALL BE USED EXCEPT WHERE DESIGNATED ON PRINT.
8. WIRE LENGTHS SHALL NOT BE SHORTER THAN SHOWN, BUT MAY BE UP TO 1" LONGER ON PANEL BOX HARNESSES AND UP TO 2" LONGER ON ENGINE HARNESS.
9. MOLDED PLUGS SHALL BE MOLDED FROM 85 DUROMERTER VINYL COMPOUND.
10. HARNESS SHEATHING SHALL BE HIGH TEMPERATURE NYLON SPLIT CONDUIT, WITH MELTING POINT NOT LESS THAN 220° C PER F-ASTM D 789. (BLACK WITH BLUE STRIPE).
11. PART NO. IN BRACKETS FOR IN-HOUSE USED ONLY
12. USE HEAT SHRINK WITH ADHESIVE ON ALL ULTRASONIC WELDED WIRE SPLICES

ITEM	PART No.	QTY.	DESCRIPTION	
9	--	--	EMI SHIELDING	
8	57281	--	CONDUIT,SPLIT BLU STR 0.375 ID, UL94-V2	
7	57283	--	CONDUIT,SPLIT BLU STR 0.750 ID, UL94-V2	
6	57282	--	CONDUIT,SPLIT BLU STR 0.500 ID, UL94-V2	
5	33213	12"	TUBING,TEFLON 1/4 DIA	STELLA-MARIS LLC P/N:232N1V02
4	35754	1	BOOT,EXHAUST TEMP SWITCH	STELLA-MARIS LLC P/N:212N1V02
2	35755	1	BOOT,OIL PRESS SWITCH	STELLA-MARIS LLC P/N:621N9V02
1	31086	2	BOOT, B+	STELLA-MARIS LLC P/N:400N9V02

TOLERANCES
UNLESS OTHERWISE SPECIFIED
PRIMARY UNITS:INCH
SECONDARY UNITS:MILLIMETERS
INCHES: X ±0.1 / XX ±0.010 / XXX ±0.005 / XXXX ±0.0005
MILLIMETERS: X ±2.5 / XX ±0.25 / XXX ±0.127 / XXXX ±0.01
BUSHING,0.005 (.127) TYP
SURFACE FINISH:63RMS (1.6)
ANGLES: 60°

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THIRD ANGLE PROJECTION

WESTERBEKE Engines & Generators
150 JOHN HANCOCK RD. TAUNTON MA 02780 (508) 823-7677

TITLE: HARNESS,GENSET MAIN 5.0-7.5 MCGB
DRAWN BY: EF
DATE CREATED: 01/08/2024
MATERIAL: SEE BOM
FINISH:
APPROVED BY: -- - -
DATE: -- / -- / - - - -
SCALE 1:1
SIZE: E
DRAWING NUMBER: 58225
REV: B
SHT. 1 of 3