

COLOR KEY	
RED	POSITIVE/Common
BLACK	GROUND/RETURN
GREEN	INPUT
BLUE	OUTPUT
LT. BLUE	CAN-BUS/J-1939

ALL GROUNDS MUST GO TO BATTERY GROUND
ALL POSITIVES MUST GO TO BATTERY POSITIVE

GLOW PLUG - 1 POSITION CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	GLOW PLUG	TO 12 SOCKET C CONNECTOR - #1

GLOW PLUG

CUSTOMER INTERCONNECT		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
A	SWITCHED BATTERY (+)	TO 12 SOCKET D CONNECTOR - #2
B	EXHAUST GAS TEMP. GROUND	TO 84 POSITION CONNECTOR - #81
C	EXHAUST GAS TEMP. SIGNAL	TO 84 POSITION CONNECTOR - #82
D	GLOW PLUG CONTROL FEEDBACK	TO 84 POSITION CONNECTOR - #83
E	GLOW PLUG CONTROL COMMAND	TO 84 POSITION CONNECTOR - #84
F	GLOW PLUG CONTROL GROUND	TO 84 POSITION CONNECTOR - #85
G	CAN HIGH	TO 84 POSITION CONNECTOR - #86
H	CAN LOW	TO 84 POSITION CONNECTOR - #87
I	SWITCHED VOLTAGE	TO 12 SOCKET D CONNECTOR - #1
K	GROUND	TO 12 SOCKET B CONNECTOR - #2

CUSTOMER INTERCONNECT

2 SOCKET CONNECTOR - OK TO ELEVATE SPEED		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	SWITCH INPUT RETURN	TO 12 SOCKET CONNECTOR B - #10
2	SWITCH INPUT RETURN	TO 84 POSITION CONNECTOR - #59

OK TO ELEVATE SPEED

ECM J1 (K) 94 POSITION CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	SWITCHED BATTERY (+)	TO 12 SOCKET D CONNECTOR - #2
2	BATTERY (+)	TO 12 SOCKET B CONNECTOR - #5
3	BATTERY (+)	TO 12 SOCKET D CONNECTOR - #11
4	BATTERY (+)	TO 12 SOCKET B CONNECTOR - #6
5	BATTERY (+)	TO 12 SOCKET D CONNECTOR - #12
6	BATTERY (+)	TO 12 SOCKET B CONNECTOR - #7
7	AIR INLET TEMPERATURE SIGNAL	TO AIR INLET TEMP CONNECTOR - #1
20	AIR INLET TEMPERATURE GROUND	TO AIR INLET TEMP CONNECTOR - #2
22	GLOW PLUG CONTROL FEEDBACK	TO CUSTOMER INTERCONNECT - D
31	CAN HIGH	TO 12 SOCKET D CONNECTOR - #7
32	CAN LOW	TO 12 SOCKET D CONNECTOR - #8
38	MAIN RELAY - COIL (+)	TO 12 SOCKET B CONNECTOR - #12
41	GLOW PLUG GROUND	TO WATER IN FUEL CONNECTOR - #1
44	REMOTE SHUTDOWN	TO 12 SOCKET D CONNECTOR - #9
45	CAN HIGH	TO CUSTOMER INTERCONNECT - B
46	CAN LOW	TO CUSTOMER INTERCONNECT - C
52	GLOW PLUG CONTROL COMMAND	TO CUSTOMER INTERCONNECT - E
53	SWITCH INPUT	TO 12 SOCKET B CONNECTOR - #1
59	SWITCH INPUT RETURN	TO SOCKET OK TO ELEVATE SPEED - #2
79	DOC TEMPERATURE INLET GROUND	TO DOC TEMPERATURE INLET - 2
80	DOC TEMPERATURE INLET SIGNAL	TO DOC TEMPERATURE INLET - 1
81	EXHAUST GAS TEMP. GROUND	TO CUSTOMER INTERCONNECT - B
82	EXHAUST GAS TEMP. SIGNAL	TO CUSTOMER INTERCONNECT - C
83	DPF TEMPERATURE INLET GROUND	TO DPF TEMPERATURE INLET - 2
84	DPF TEMPERATURE INLET SIGNAL	TO DPF TEMPERATURE INLET - 1

ECM J1 94 POSITION CONNECTOR

JPT-3S WATER IN FUEL SENSOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	WATER IN FUEL SIGNAL	TO 84 POSITION CONNECTOR - #30
2	WATER IN FUEL SENSOR GROUND	TO 12 SOCKET B CONNECTOR - #8
3	WATER IN FUEL SENSOR VOLTAGE	TO 12 SOCKET D CONNECTOR - #1

WATER IN FUEL SENSOR

B-2S-BR DOC TEMPERATURE INLET (BROWN)		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	DOC TEMPERATURE INLET SIGNAL	TO 84 POSITION CONNECTOR - #80
2	DOC TEMPERATURE INLET GROUND	TO 84 POSITION CONNECTOR - #79

DOC TEMP INLET

B-2S-WH DPF TEMPERATURE INLET (WHITE)		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	DPF TEMPERATURE INLET SIGNAL	TO 84 POSITION CONNECTOR - #84
2	DPF TEMPERATURE INLET GROUND	TO 84 POSITION CONNECTOR - #83

DPF TEMP INLET

2 POSITION CONNECTOR (BREATHER HEATER)		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	BREATHER POSITIVE	TO 12 SOCKET D CONNECTOR - #8
2	BREATHER NEGATIVE	TO 12 SOCKET D CONNECTOR - #8

BREATHER HEATER

JPT-2S AIR INLET TEMPERATURE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	AIR INLET TEMPERATURE SIGNAL	TO 84 POSITION CONNECTOR - #19
2	AIR INLET TEMPERATURE GROUND	TO 84 POSITION CONNECTOR - #20

AIR INLET TEMP

ALTERNATOR EXCITE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	ALTERNATOR EXCITE (+)	TO 12 SOCKET B CONNECTOR - #9

ALTERNATOR EXCITE

STARTER SOLENOID		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	STARTER RELAY - NO	TO 12 SOCKET B CONNECTOR - #1

STARTER SOLENOID

GROUND WIRES TO BATTERY (-)		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	GND WIRES TO STARTER (+) POST	TO 12 SOCKET C CONNECTOR - #6 AND #7

GROUND WIRES BATTERY (-)

BATTERY WIRES TO BATTERY (+)		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	BATT. WIRES BATTERY (+)	TO 12 SOCKET C CONNECTOR - #8-#12

BATTERY WIRES BATTERY (+)

12 SOCKET - CUSTOMER CONNECTOR		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	REMOTE ENGINE SHUTDOWN	
2	ECM SWITCH RETURN	
3	START SOLENOID	
4	EXTERNAL ALARM RELAY OUTPUT	
5	CAT DATA LINK HIGH	
6	CAT DATA LINK LOW	
7	J1989 CAN HIGH	
8	J1989 CAN LOW	
9	KEYSWITCH INPUT	
11	CONSTANT VOLTAGE SUPPLY	
12	GROUND	

12 SOCKET 'C' KEY CONNECTOR (GREEN) - POWER		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	GLOW PLUG	TO GLOW PLUG STUD ON ENGINE (8 GA. - SPLICED)
2	GLOW PLUG	TO GLOW PLUG STUD ON ENGINE (8 GA. - SPLICED)
3	GLOW PLUG	TO GLOW PLUG STUD ON ENGINE (8 GA. - SPLICED)
4	GLOW PLUG	TO GLOW PLUG STUD ON ENGINE (8 GA. - SPLICED)
5	GLOW PLUG	TO GLOW PLUG STUD ON ENGINE (8 GA. - SPLICED)
6	BATTERY (+)	TO GROUND WIRES (+) (8 GA. - SPLICED)
7	BATTERY (+)	TO BATTERY (+) (8 GA. - SPLICED)
8	BATTERY (+)	TO BATTERY (+) (8 GA. - SPLICED)
9	BATTERY (+)	TO BATTERY (+) (8 GA. - SPLICED)
10	BATTERY (+)	TO BATTERY (+) (8 GA. - SPLICED)
11	BATTERY (+)	TO BATTERY (+) (8 GA. - SPLICED)
12	BATTERY (+)	TO BATTERY (+) (8 GA. - SPLICED)

12 SOCKET 'D' KEY CONNECTOR (BROWN) - ENGINE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	SWITCHED VOLTAGE	TO CUSTOMER INTERCONNECT - J
2	WATER IN FUEL SENSOR VOLTAGE	TO WATER IN FUEL SENSOR - #3
3	SWITCHED BATTERY (+)	TO 84 POSITION CONNECTOR - #1
4	CONSTANT BATTERY POWER	TO CUSTOMER INTERCONNECT - A
5	REMOTE SHUTDOWN	TO 84 POSITION CONNECTOR - #44
6	BATTERY (+)	TO 84 POSITION CONNECTOR - #25
7	CAN HIGH	TO 84 POSITION CONNECTOR - #31
8	BREATHER NEGATIVE	TO BREATHER HEATER CONNECTOR - #2
9	BREATHER POSITIVE	TO BREATHER HEATER CONNECTOR - #1
11	BATTERY (+)	TO 84 POSITION CONNECTOR - #5
12	BATTERY (+)	TO 84 POSITION CONNECTOR - #5

12 SOCKET 'B' KEY CONNECTOR (BLACK) - ENGINE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	STARTER RELAY - NO	TO STARTER SOLENOID (+) PING TERMINAL
2	GROUND	TO CUSTOMER INTERCONNECT - K
4	KEYSWITCH	TO 84 POSITION CONNECTOR - #54
5	BATTERY (+)	TO 84 POSITION CONNECTOR - #2
6	BATTERY (+)	TO 84 POSITION CONNECTOR - #4
7	BATTERY (+)	TO 84 POSITION CONNECTOR - #6
8	WATER IN FUEL SENSOR GROUND	TO WATER IN FUEL SENSOR CONNECTOR - #2
9	ALTERNATOR EXCITE (+)	TO ALTERNATOR EXCITE (+) PING TERMINAL
10	SWITCH INPUT RETURN	TO 2 SOCKET OK TO ELEVATE SPEED - #1
12	MAIN RELAY - COIL (+)	TO 84 POSITION CONNECTOR - #28

