

31-POSITION MACHINE INTERFACE - ENGINE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	KEYSWITCH / BATT BACKUP	TO 12 SOCKET 'D' CONNECTOR - #10
10	STARTER RELAY COIL (1)	TO 12 SOCKET 'D' CONNECTOR - #5
12	STARTER RELAY COIL (1)	TO 12 SOCKET 'D' CONNECTOR - #4
14	MAIN RELAY COIL (1)	TO 12 SOCKET 'B' CONNECTOR - #12
16	GLOW PLUG RELAY COIL (1)	TO 12 SOCKET 'B' CONNECTOR - #11
18	FUEL PUMP RELAY COIL (1)	TO 12 SOCKET 'B' CONNECTOR - #3
22	CAN HIGH	TO 12 SOCKET 'D' CONNECTOR - #7
23	CAN LOW	TO 12 SOCKET 'D' CONNECTOR - #6
29	REMOTE SHUTDOWN	TO 12 SOCKET 'D' CONNECTOR - #2
30	MAIN RELAY SWITCHED	TO 12 SOCKET 'D' CONNECTOR - #2

31 SOCKET
MACHINE
INTERFACE

8-POSITION MACHINE INTERFACE - POWER		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
A	BATTERY NEGATIVE	TO 12 SOCKET 'B' CONNECTOR - #5
B	SWITCHED VOLTAGE	TO 12 SOCKET 'B' CONNECTOR - #4
C	BATTERY POSITIVE	TO 12 SOCKET 'D' CONNECTOR - #11
E	BATTERY POSITIVE	TO 12 SOCKET 'D' CONNECTOR - #12
F	BATTERY NEGATIVE	TO 12 SOCKET 'B' CONNECTOR - #6
G	BATTERY NEGATIVE	TO 12 SOCKET 'B' CONNECTOR - #7
H	BATTERY NEGATIVE	TO 12 SOCKET 'B' CONNECTOR - #8

8 SOCKET
MACHINE
INTERFACE

2 SOCKET CONNECTOR (FUEL PUMP)		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	FUEL PUMP RELAY - NO	TO 12 SOCKET 'D' CONNECTOR - #1
2	RELAY - COIL (1)	TO 12 SOCKET 'B' CONNECTOR - #10

2 SOCKET
CONNECTOR
(FUEL PUMP)

ALTERNATOR EXCITE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	ALTERNATOR EXCITE (D+)	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

2 POSITION CONNECTOR (BREATHER HEATER)		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	BREATHER POSITIVE	TO 12 SOCKET 'D' CONNECTOR - #9
2	BREATHER NEGATIVE	TO 12 SOCKET 'D' CONNECTOR - #8

BREATHER
HEATER

ECM CASE GROUND [5/16" RING TERMINAL]		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	ECM CASE GROUND	TO 12 SOCKET 'B' CONNECTOR - #2

ECM CASE
GROUND

GLOW PLUG		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	GLOW PLUG STUD ON ENGINE	TO GLOW PLUG SPLICE

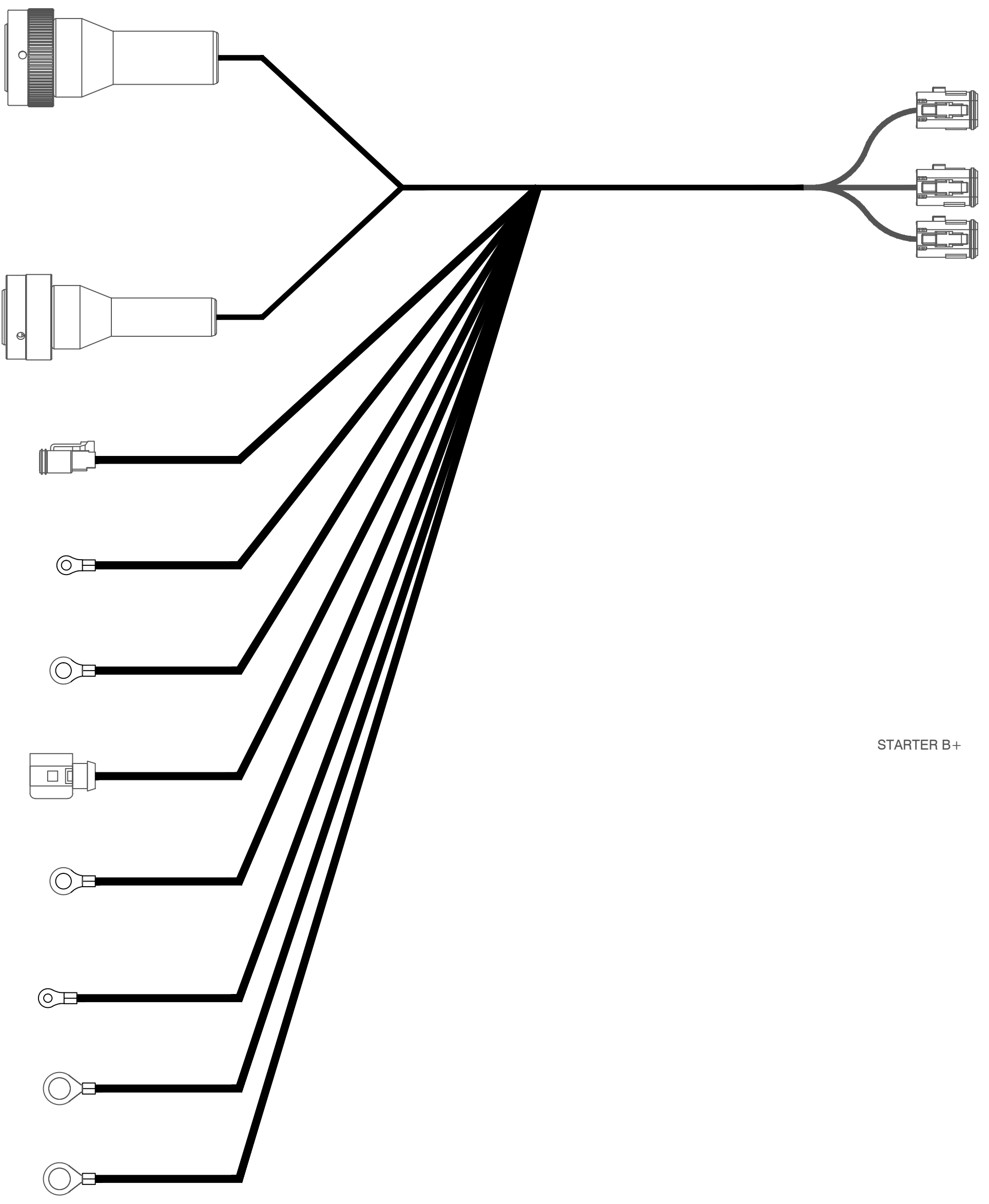
GLOW PLUG

BATTERY (-)		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	BATTERY (-)	TO BATTERY (-) SPLICE

BATTERY (-)

BATTERY (+)		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	BATTERY (+) POWER	TO BATTERY (+) SPLICE

BATTERY (+)



TO POWER
DISTRIBUTION
MODULE

12 SOCKET - CUSTOMER CONNECTOR	
#	DESCRIPTION
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	J1939 CAN HIGH
8	J1939 CAN LOW
9	CAN SHIELD
10	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 BATTERY (-) (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	FUEL PUMP RELAY - NO	TO 2 SOCKET CONNECTOR FUEL PUMP - #1
2	MAIN RELAY SWITCHED	TO 31-POSITION MACHINE CONNECTOR - #30
3	REMOTE SHUTDOWN	TO 31-POSITION MACHINE CONNECTOR - #29
4	STARTER RELAY - COIL (1)	TO 31-POSITION MACHINE CONNECTOR - #12
5	STARTER RELAY - COIL (2)	TO 31-POSITION MACHINE CONNECTOR - #10
6	CAN LOW	TO 31-POSITION MACHINE CONNECTOR - #23
7	CAN HIGH	TO 31-POSITION MACHINE CONNECTOR - #22
8	BREATHER NEGATIVE	TO BREATHER HEATER CONNECTOR - #2
9	BREATHER POSITIVE	TO BREATHER HEATER CONNECTOR - #1
10	KEYSWITCH / BATT BACKUP	TO 31-POSITION MACHINE CONNECTOR - #1
11	BATTERY (+)	TO 8-POSITION MACHINE CONNECTOR - C
12	BATTERY (+)	TO 8-POSITION MACHINE CONNECTOR - E

12 SOCKET 'B' KEY CONNECTOR (BLACK) - ENGINE		
#	DESCRIPTION	TERMINATION/CONNECTION POINT
1	STARTER RELAY - NO	TO STARTER SOLENOID 1/4" RING TERMINAL
2	CASE GND (ISOLATED MOUNTING)	TO ECM CASE GROUND 5/16" TERMINAL
3	FUEL PUMP RELAY - COIL (1)	TO 31-POSITION MACHINE CONNECTOR - #10
4	SWITCHED VOLTAGE	TO 8-POSITION MACHINE CONNECTOR - B
5	BATTERY (-)	TO 8-POSITION MACHINE CONNECTOR - A
6	BATTERY (-)	TO 8-POSITION MACHINE CONNECTOR - F
7	BATTERY (-)	TO 8-POSITION MACHINE CONNECTOR - G
8	BATTERY (-)	TO 8-POSITION MACHINE CONNECTOR - H
9	ALTERNATOR EXCITE (D+)	TO ALTERNATOR EXCITE #10 RING TERMINAL
10	RELAY - COIL (1)	TO 2 SOCKET CONNECTOR FUEL PUMP - #2
11	GLOW PLUG RELAY - COIL (+)	TO 31-POSITION MACHINE CONNECTOR - #16
12	MAIN RELAY - COIL (1)	TO 31-POSITION MACHINE CONNECTOR - #14

