SERVICE MANUAL

W170C TIER 2

Wheel Loader

Part number 84524449
English
June 2011

NEW HOLLAND CONSTRUCTION

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MAINTENANCE SCHEDULE

SERVICE INTERVAL	ITEM NUMBER	SERVICE POINTS	Initial Service	FREQUENCY IN HOURS						
				CHECK	CLEAN	CHANGE	DRAIN	LUBRICATE	REPLACE	ADJUST
Variable Periodic (•)	2	Radiator Coolant Level		•						
	13	Tires		•						
	16	Hydraulic Filter		•						
	12	Alternator, AC, Drive Belt		•						
	31	Air cleaner		•	•					
	19	Bleed Fuel Filter of Condensation					•			
	XX	Fire extinguisher		•						
Every 10 Hours	1	Check Engine Oil Level		10						
Every 50 Hours	13	Check Engine Coolant Level		50						
	3	Check Transmission Oil Level		50						
	4	Check Hydraulic Oil Level		50						
	5 & 6	Grease Bucket Mounting Fittings						50		
	7	Grease machine and attachments						50		
First 100 Hours	16	Change Engine Oil and Filters	100							
	18	Replace Fuel Filters	100							
	20	Change Hydraulic Filter	100							
	25	Change Oil in Axles	100							
	13	Check wheel torque		100						
Every 100 Hours	8	Lubricate The Steering Cylinder Pivots - Rod And Closed End (4 Fittings)						100		
	9	Grease Front Drive Shaft Support Bearing						100		
	10	Lubricate Loader Lift & Cylinder Pivots (10) Z-bar						100		
	10	Lubricate Loader Lift & Cylinder Pivots (18) XT						100		
Every 250 Hours	11	Check Cab Air Filter		250						
	14	Check Tire Pressure & Wheel Torque	4	250						
	12	Check Drive Belt		250						
	XX	Trans Clutch Calibration (See Section 6002)	250	1000						
Every 500 Hours	14	Check Axle Oil Level		500						
	15	Check Battery Electrolyte Level		500						
	16	Change Engine Oil and Filter				500				
	XX	Check ROPS		500						
	18	Drain Fuel Tank Condensation & Water Separator					500			
	19	Replace Fuel Filter							500	

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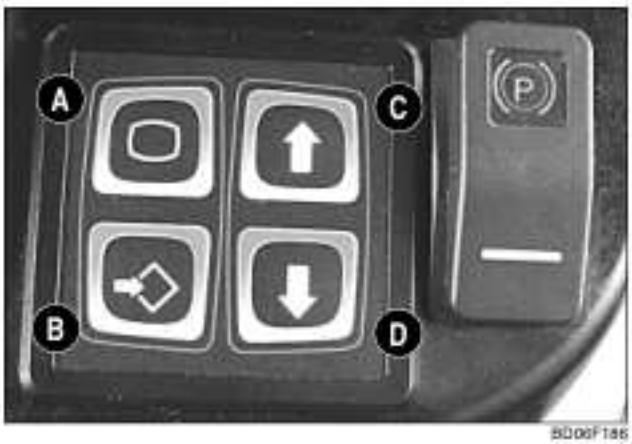
Every 1000 Hours	20	Replace Hydraulic Oil filter							1000	
	21	Grease Articulation Fittings						1000		
	24	Change crankcase filter				1000			1000	
	23	Replace Drive Belt								
	11	Replace Cab Air Filter							1000	
	26	Change Transmission Oil and Filter				1000				
	XX	Check Injector Calibration		1000						
	XX	Check Valve Adjustment (Engine Manual)		1000						
	XX	Trans Clutch Calibration (See Section 6002)		1000						
Every 1500 Hours	21	Change Front & Rear Axle Oil				1500				
	26	Change Transmission Oil and Filter				1500				
Every 2000 Hours	29	Change Hydraulic Oil				2000				
	30	Change Coolant				2000				
	31	Replace Engine Air Cleaner							2000	
	32	Lubricate cab and door						2000		
	XX	Valve Clearance (Engine Manual)								2000
Every 6000 Hours	XX	Engine Injectors (Engine Manual)			6000					
	XX	Fuel Pump (Engine Manual)			6000					6000

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RETRIEVING FAULT CODES

General Fault Code Identification

1. Press and hold the escape key and up arrow key for more than 2 seconds to access the fault codes.



SD06F186

A. Escape key

B. enter key

C. up key

D. down key

2. Yellow Faults, buzzer will beep once every 2 seconds:

   A. Operator can acknowledge it by pressing the enter key.

   B. The message will disappear.

   C. Buzzer will not beep anymore.

   D. Yellow lamp will stay ON.

   E. Fault will remain in Yellow list until it is closed.

3. Red Faults, buzzer will be continuous, alternating sounds:

   A. Operator can acknowledge it by pressing the enter key.

   B. Buzzer will change to a less stressing sound, but will remain.

   C. Message will remain on display with indication of URGENT STOP.

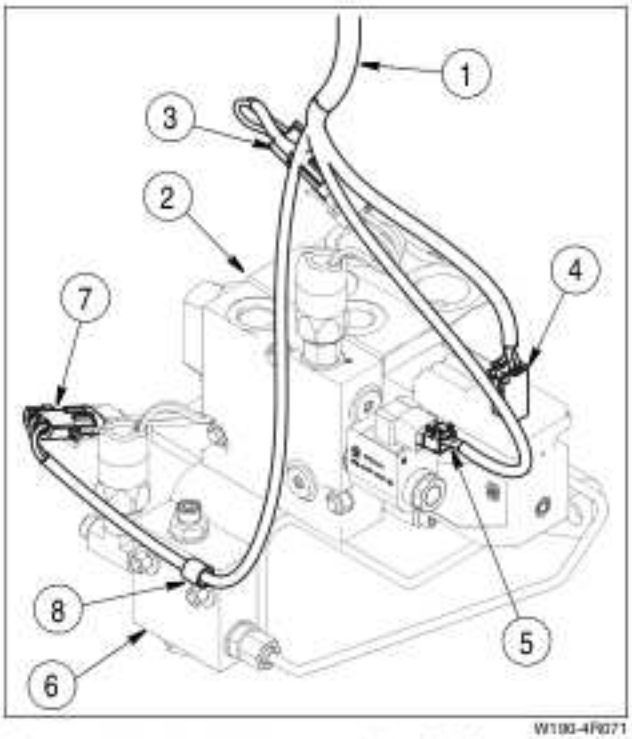
Fault Code Grouping

1. 1000 to 1999 vehicle errors.
2. 2000 to 2999 not used.
3. 3000 to 3999 engine errors.
4. 4000 to 4999 transmission errors.
5. 5000 to 5999 eltro-hydraulic system errors.
6. 6000 to 6999 reserved.
7. 7000 to 7999 reserved.
8. 8000 to 8999 optional equipment IE: GPS.
9. 9000 to 9999 internal AIC errors.

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Installation

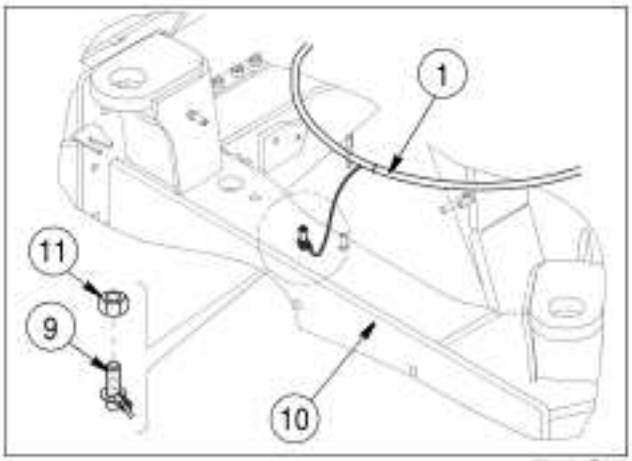
STEP 12



W190-4R071

Connect the chassis harness (1) to PVG32 valve (2), connect connector (3) to the pilot pressure switch connector (4). Connect connector (5) to the solenoid valve. Connect connector (7) to the pressure switch on valve PVFC (6) and secure the harness with strap (8) on the valve.

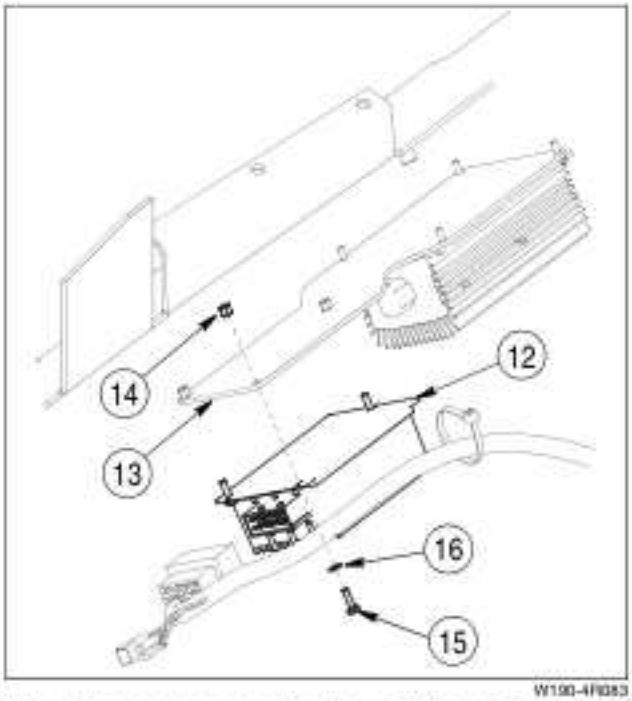
STEP 13



W190-4R088

Connect the chassis harness (1) to the grounding stud (9), install and tighten the nut (11).

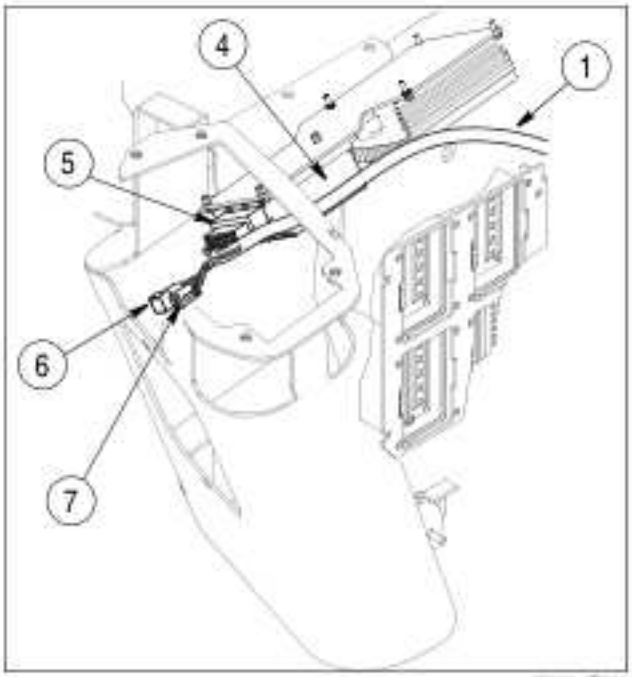
STEP 14



W190-4R083

Open the access panel on the right-hand side of the cab to access the fuse and relay compartment. Install the steering control module (12) on the supporting plate (13) by installing the three nuts (14), capscrews (15) and washers (16). Tighten the capscrews.

STEP 15



W190-4R084

Connect the joystick harness (1) to the steering control module (4) with connector (5). Connect connector (6) to the cab harness connector (7).

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TROUBLESHOOTING THE HYDRAULIC BRAKE SYSTEM

NOTE: *The hydraulic brake schematic is included in the hydraulic schematic. Refer to the rear pocket of this manual.*

1. Check the oil level in the hydraulic reservoir; add oil as necessary.
2. Push and release the brake pedal many times with the engine stopped to remove all hydraulic pressure from the brake system until there is no pressure on the pedal.
3. Install two 207 bar (3000 psi) pressure gauges to front and rear hydraulic brake accumulator test ports, refer to page 7 for the locations of the test ports.
4. Make sure that the pressure gauge hoses are long enough so the gauges can be read while sitting in the operators seat.

NOTE: *The gauges can not be connected to the test ports if hydraulic pressure remains in the system.*

5. Start the engine. Run the engine at low idle while reading the pressure gauges. The alarms (buzzer, master warning light and brake pressure warning light) should shut off when the accumulator with the lowest pressure reaches 106 to 115 bar (1530 to 1670 psi), approximately 40 seconds at any engine speed.
6. After the alarms stop, run the machine at high idle to finish charging the accumulators. The pressure must increase on both gauges until 190 to 196 bar (2757 to 2843 psi) is reached. This is the accumulator valve cut-out pressure. It is normal for the pressure to drop slightly once the cut-out pressure is reached.
7. With the engine running at high idle, push and release the brake pedal rapidly while reading the drop in pressure on the gauges. The pressure drops may not be equal, but as the lowest pressure reaches 157 to 167 bar (2280 to 2420 psi), the system pressure must start to increase. This is the valve cut in pressure.

NOTE: *The brake cut-in and cut-out pressures of the brake system charge valve are factory preset and are not adjustable.*

NOTE: *If the pressure on one of the pressure gauges is lower than specified, the problem can be a bad accumulator valve.*

8. Stop the engine. Turn the ignition switch to the ON position. Push and release the brake several times while reading the pressure on the gauges. Each push and release of the pedal will result in a slight drop in pressure, but not necessarily equal on the two gauges. As the lowest pressure reaches 106 to 115 bar (1530 to 1670 psi) the brake warning lamp and alarm buzzer must actuate. If the warning lamp and alarm buzzer fail to work, test the low brake pressure warning switches and electrical circuit. If the warning lamp and alarm buzzer actuate at a higher or lower pressure than specified, test the low brake pressure warning switches and replace as needed.
9. As the lowest pressure reaches 106 to 115 bar (1530 to 1670 psi) the brake warning lamp and alarm buzzer must actuate. If the warning lamp and alarm buzzer fail to work, test the low brake pressure warning switches and electrical circuit. If the warning lamp and alarm buzzer actuate at a higher or lower pressure than specified, test the low brake pressure warning switches and replace as needed.
10. After the low brake pressure light activates, press the brake pedal eight more times.
11. Record the readings on the pressure gauges. The pressure gauges should read at or above 48 to 59 bar (700 to 850 psi).
12. If the pressures are at or above 48 to 59 bar (700 to 850 psi), the test is complete.
13. If the pressures are not within the required specifications, then the brake system must be bled.
14. After bleeding the brake system, perform the brake system check again.
15. Continue to slowly push and release the brake pedal several times until the gauge pressure suddenly drops to zero. The last pressure reading before the drop to zero is the nitrogen charge pressure in the accumulator. Test the pressure in both accumulators. If the pressure is below 48 to 59 bar (700 to 850 psi), charge or replace the accumulator(s) (see page 5).

NOTE: *Nominal temperature of 20° C (68° F), colder temperature will reduce pressure, hotter temperature will increase pressure.*

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INDEX OF FUNCTIONS

FUNCTION	SHT
AIR SEAT	12
BACKUP ALARM	6
CAN COMMUNICATION	12
COLD START	4
ENGINE CONTROL	5
HOOD LIFT	11
HVAC	12,14
IGNITION SWITCH	4
INSTRUMENT CLUSTER	9
LIGHTING 1 (combos...)	6
LIGHTING 2 (work lights)	7
MACHINE CONTROLS	10
RADIO/POWER CONVERTER	12
POWER DISTRIBUTION	4
TRANSMISSION CONTROL	8
SCR EXHAUST TREATMENT	5
SECONDARY STEERING	11
WIPER/WASHER SYSTEM	11
JOYSTICK STEERING	13

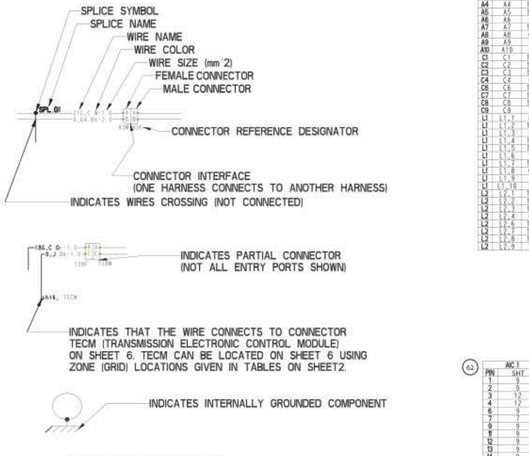
COLOR ABBREVIATIONS

ABBREVIATION	COLOR
Bk	BLACK
DU	DARK BLUE
G	GREEN
K	PINK
LG	LIGHT GREEN
LU	LIGHT BLUE
N	BROWN
Or	ORANGE
P	PURPLE OR VIOLET
R	RED
S	GREY
T	TAN
U	BLUE
W	WHITE
Y	YELLOW

LARGE CONNECTOR LIST

NAME	DESCRIPTION	SHEET
A1C_1	ADV_INSTR CLUSTER 1	4, 7, 9, 10
A1C_2	ADV_INSTR CLUSTER 2	4, 6, 7, 9, 10
CAB_E	CAB-ENGINE	4, 5, 9, 10, 11, 12
CAB_F	CAB-FRNT_CHAS	6, 10
CAN_MOD_2	JSS CAN MOD	13
ECA	ELECT CNTR A	4, 5, 6, 7, 8, 9, 10, 11
ECB	ELECT CNTR B	4, 5, 6, 9, 10, 12
ECC	ELECT CNTR C	4, 6, 7, 8, 9, 10, 11
ECD	ELEC CNTR D	4, 5, 6, 10, 11, 12
ENG	ENGINE-CAB1	4, 5, 9, 10, 11, 12
FRONT	FRNT_CHAS-CAB	6, 10
SW_PD	SWITCH PAD	6, 9, 10, 12

DIAGRAM SYMBOL DESCRIPTIONS



REF DES NAMING CONVENTION
S_ ROCKER SWITCHES
L_ LIGHTS
P_ PRESSURE SENSORS/SWITCHES
Y_ SOLENOIDS
R_ RESISTANCE MEASURE
ABOVE LETTER FOLLOWED BY THE FIRST LETTER
OF THE FIRST TWO WORDS OF THE SYMBOL LABEL
SPL_ SPLICE

ECA

PIN	NAME	SHT
A1	A1	8
A2	A2	13
A3	A3	8
A4	A4	11
A5	A5	13
A6	A6	8
A7	A7	10
A8	A8	6
A9	A9	6
A10	A10	5
C1	C1	13
C2	C2	11
C3	C3	11
C4	C4	6
C5	C5	11
C7	C7	11
C8	C8	12
C9	C9	13
L1	L1_1	8
L2	L1_2	13
L3	L1_3	8
L4	L1_4	8
L5	L1_5	13
L6	L1_6	8
L7	L1_7	11
L8	L1_8	13
L9	L1_9	12
L10	L1_10	8

ECB

PIN	NAME	SHT
B1	B1_K1	4
B2	B2_K2	11
B3	B3_K3	4
B4	B4_K4	10
B5	B5_K5	11
B6	B6_K6	4
B7	B7_K7	10
B8	B8_K8	4
B9	B9_K9	11
B10	B10_K5	9
C1	C1_K1	11
C2	C2_K2	11
C3	C3_K3	4
C4	C4_K4	10
C5	C5_K5	11
C6	C6_K6	4
C7	C7_K7	10
C8	C8_K8	4
C9	C9_K9	11
C10	C10_K5	9
D1	D1_K1	11
D2	D2_K2	11
D3	D3_K3	10
D4	D4_K4	10
D5	D5_K5	11
D6	D6_K6	10
D7	D7_K7	10
D8	D8_K8	10
D9	D9_K9	11
D10	D10_K5	9
A1	A1_1	7
A2	A2_1	7
A3	A3_1	6
A4	A4_1	6
A5	A5_1	4
A6	A6_1	10
A7	A7_1	11
A8	A8_1	9
A9	A9_1	12
A10	A10_1	12
B1	B1_1	12
B2	B2_1	12
B3	B3_1	6
B4	B4_1	6
B5	B5_1	6
B6	B6_1	6
B7	B7_1	6
B8	B8_1	6
B9	B9_1	6
B10	B10_1	12

ECC

PIN	NAME	SHT
B1	B1_K1	11
B3	B3_K2	11
B7	B7_K4	10
B9	B9_K5	11
B2	B2_K1	11
B4	B4_K2	11
B6	B6_K3	10
B8	B8_K4	10
B10	B10_K5	12
D1	D1_K1	11
D3	D3_K2	11
D7	D7_K4	10
D9	D9_K5	11
C2	C2_K1	11
C4	C4_K2	11
C6	C6_K3	10
C8	C8_K4	10
C10	C10_K5	12
D2	D2_K1	11
D4	D4_K2	11
D6	D6_K3	10
D8	D8_K4	10
D10	D10_K5	12
A1	A1_1	7
A2	A2_1	7
A3	A3_1	6
A4	A4_1	6
A5	A5_1	4
A6	A6_1	10
A7	A7_1	11
A8	A8_1	9
A9	A9_1	12
A10	A10_1	12
B1	B1_1	12
B2	B2_1	12
B3	B3_1	6
B4	B4_1	6
B5	B5_1	6
B6	B6_1	6
B7	B7_1	6
B8	B8_1	6
B9	B9_1	6
B10	B10_1	12

ECD

PIN	NAME	SHT
B1	B1_K1	11
B3	B3_K2	11
B5	B5_K3	10
B7	B7_K4	10
B9	B9_K5	11
B2	B2_K1	11
B4	B4_K2	11
B6	B6_K3	10
B8	B8_K4	10
B10	B10_K5	12
C1	C1_K1	11
C3	C3_K2	11
C5	C5_K3	10
C7	C7_K4	10
C9	C9_K5	11
C2	C2_K1	11
C4	C4_K2	11
C6	C6_K3	10
C8	C8_K4	10
C10	C10_K5	12
D1	D1_K1	11
D3	D3_K2	11
D5	D5_K3	10
D7	D7_K4	10
D9	D9_K5	11
D2	D2_K1	11
D4	D4_K2	11
D6	D6_K3	10
D8	D8_K4	10
D10	D10_K5	12
A1	A1_1	7
A2	A2_1	7
A3	A3_1	6
A4	A4_1	6
A5	A5_1	4
A6	A6_1	10
A7	A7_1	11
A8	A8_1	9
A9	A9_1	12
A10	A10_1	12
B1	B1_1	12
B2	B2_1	12
B3	B3_1	6
B4	B4_1	6
B5	B5_1	6
B6	B6_1	6
B7	B7_1	6
B8	B8_1	6
B9	B9_1	6
B10	B10_1	12

(63) AIC 1

PIN	SHT
1	9
2	9
3	4
4	12
6	9
7	9
9	9
11	9
12	9
13	9
14	9
20	10
21	13
22	10
23	10
25	9
26	10

(71) AIC 2

PIN	SHT
2	7
4	9
5	9
6	9
7	10
8	10
9	6
10	9
11	11
12	12
14	9
15	9
16	10
17	8
18	10
20	9
21	9
22	9

ENG ENGINE-CAB1

PIN	SHT
1	9
2	7
3	4
4	6
5	9
6	9
7	4
8	4
9	4
10	5
11	5
12	5
13	5
14	5
15	4
16	5
17	5
18	5
19	5
20	5
21	5
22	5
23	5
24	5
25	11
26	4
27	4
28	13
29	12
30	12
31	4

ENG2 ENG BULKHD 2

PIN	SHT
A	5
B	5
C	5
D	5
E	5
F	5
G	5
H	5
J	5
K	5
L	5
M	5
N	5
P	5
R	5
S	5
T	5
U	11
V	11
W	11
X	11

FRONT

PIN	SHT
1	6
2	6
3	11
4	6
5	6
6	6
7	6
8	12
9	9
10	9

(79) SW PD SWITCH PAD

PIN	SHT
1	6
3	10
4	6
5	6
7	12
8	12
9	9
10	9

TRANS TRANSMISSION-CAB

PIN	SHT
1	9
2	8
3	8
4	11
5	8
6	11
7	8
8	8
9	8
10	8
11	8
12	8
13	8
14	8
15	8
16	8
17	8
18	8
19	8
20	8
21	8
22	8
23	8
24	8
25	8
26	11
27	8
28	8
29	8
30	8
31	8

CONNECTOR LIST

NAME	DESCRIPTION	SHEET
115	GRID_HTR_PWR	4
193	STARTER_RELAY	4
194	STARTER_SIGNAL	4
195	STR_REL_PWR	4
108T	DIAGNOSTIC_CONNECTOR	8
140M	DIODE_MODULE	11
197T	MAIN_CAB_FNR	8
197M	FNR-MAIN_CAB	8
202M	ROLLBACK_JUMPER	10
209T	BACK-UP_ALRM_DISA_JMP	6
209M	BACK-UP_ALRM_DISA_JMP	6
20M	TRANS_KICK-DOWN	8
213T	ALTERNATOR_RESISTOR	4
216T	ALTERNATOR_RESISTOR	4
21M	TRANS_KICK-DOWN	13
242T	CHAS_GRD-SEC_STRG_WTR	11
244T	STARTER-SEC_STRG_WTR	11
245T	SEC_STR_FLYBACK	11
64T	FLASHER_CONNECTOR	6
64M	FLASHER_CONNECTOR	6
AB+	ALTERNATOR_B+	4
AB_S	ALTERNATOR_B+	4
ACT	AC_COMP_CLUTCH	12
AD	ALTERNATOR_D+	4
ALT_S	ALTERNATOR_D+	4
ARM_FNR	FNR-MAIN_CAB	13
ARM_POS	ARM POSITION	13
B1	STARTER PWR STUD	4
B2	STARTER-BATTERY	4
B3	STARTER-BATTERY	4
B4	STARTER_POWER	4
B5	STARTER PWR STUD	4
B6	STARTER POWER	4
B7	STARTER-BATTERY	4
B8	STARTER_POWER	4
BPP	PEDAL POSITION	8
BT1	BATTERY_STARTER	4
BT2	DISCONECT-BATTERY	4
BT3	STARTER-BATTERY	4
BT4	DISCON-BLCK_GRND	4
BTM_C	CAB_BOTTOM BULKHD	6
BTM_E	CAB BTTOM	6
BU1	BACKUP_ALARM_GRND	6
BU2	BACKUP_ALARM	6
BUZ	AIC_BUZZER	9
CABE2	CAB TO ENG2 BULKHD	5
CAB_ARM	CAB TO ARMREST	13
CAB_ARM_FRM	CAB TO ARM TO FRM	13
CAB_B	CAB BTM BULKHEAD	6
CAB_FNR	MAIN_CAB_FNR	13
CAB_FRM	CAB TO JSS FRAME	13
CAB_FW	CAB POWER	4
CAB_RF	CAB TO ROOF CONNECTION	7
CAB_T	CAB-TRANSMISSION	8
CBPW	CAB POWER	4
CL	CIGAR_LIGHTER	12
CNV	24V TO 12V PWR CONVERTER	12
DC1	DISCONECT-BATTERY	4
DC2	DISCON-BLCK_GRND	4
DC3	FUEL_SOL_DISCONNECT	4
DC4	FUEL_SOL_DISCONNECT	4
DC2_A	DISCONECT-BATTERY	4
DEFDM	DOSER METERING VLV	
DIA	DIAGNOSTIC	12
DIA_2	DIAGNOSTIC	5
DISC	DISCONNECT-ENGINE	4
DM	DIODE_OR	11
DNOX2	NOX CONTROLLER	
DS	DOOR SWITCH	7
DTLTS	DEF_TANK_LEVEL_TEMP_SENSOR	
DTS	DOWNSTREAM TEMP SENS	
D_OR	DIODE_OR	7
ECA_L1	B+ POWER	4
EDC7	ENGINE CONTROLLER	5
EM	RTD_HEIGHT_CONT_RTT	10
ENG2	ENG BULKHD_2	5, 6, 11
ENG_B	CAB BTTOM	5, 9, 12
ENG_D	DISC_HARNESS	4
ENG_H	ENGINE TO HOOD	6
ENG_H_T_1	ENGINE TO HOOD	6
ENG_H_T_2	ENGINE TO HOOD	6
ESS	ENG_SPEED_SENS	8
EVGT_3	EVGT_FUSE	5
EVGT_4	EVGT	5
E_HD	TRANS-HOOD	6
FFH	FUEL_FLTR_HTR	4
FLSHR	FLASHER_MODULE	6
FM	FILT_MAINT_SW	8
FNR_RLY	RELAY K2	13
FSS	FAN_SPEED_SENS	9
FWD_DIODE	DIODE ASSY	13
FWW	FRONT-WIPER_MOTOR	11
FWWG	WIPER GROUND	11
FWW	FRONT_WASHER	11
GH	GRID_HEATER	4
GHC	GRID_HEATER_REL	4
GHF1	GRID HTR FUSE	4
GHF3	GRID_HTR_FUSE	4
GHF4	GRID_HTR	4
GH_1	GRID_HTR	4
GND_CAB1	GROUND_A	7
GND_CAB2	GROUND_A	11
GND_CAB3	GROUND_C	12
GND_CAB4	GROUND_C	12
GND_CAB5	GROUND_C	12
GND_CAB6	STRT_ TFH, WAT_SEP_HTR	4
GND_CAB3D	GROUND_A	8
GND_CAB_SPL	CAB GRND SPLICE	12
GND_CAB_SPL2	SPL BACK LGHT GD	4, 6
GND_ENG1	STRT_ TFH, WAT_SEP_HTR	4
GND_ENG2	WIF, EDC	5
GND_ENG3	SPLC_PX, WSHR WTR	11
GND_ENG4	REAR LIGHTING	6
GND_ENG6	DEDICATED	9
GND_ENG7	TRANNY, COOL TEMP	9
GND_FC	GROUND_A	10
GND_GH1	STRT_ TFH, WAT_SEP_HTR	4
GND_JS5	GROUND_A	13
GND_PDST	GROUND_A	9
GND_PDST1	GROUND_A	9
GND_POST2	GROUND_A	9
GND_S1	GROUND_A	10
GND_S2	GROUND_A	10
GND_SSCHAS	SSM_GROUND_CABLE	11
GND_SSMOD	SEC-STR CHASIS GND	11
GND_TRANS	GROUND_TRANS	9
GND_WTF	GRND WTF RING TERM	4
HD	HOOD_SWITCH	11
HDM	HOOD_LIFT_MOTOR	11
HD_L	HOOD-TRANS	6
HD_N	HOOD TO ENG	6
HD_N_T_1	HOOD TO ENGINE	6
HD_N_T_2	HOOD TO ENGINE	6
HN1	HORN_PWR	10
HN2	HORN_GRND	10
HOT	HYD_OIL_TEMP_SENS	9
HTS	HNDTY AND AMB TEMP	5
HVAC1	HVAC1	12
HVAC2	HVAC2	12
ISS	INT_SPEED_SENS	8
JSS_19TT	MAIN_CAB_FNR	13
JSS_19TM	FNR-MAIN_CAB	13
JSS_ARM	JSS ARMREST TO CAB	13
JSS_CAB	JSS CAB	12, 13
JSS_CNT	JSS_CONTROLLER	13
JSS_FRM	JSS FRAME_TO CAB	13
JSS_LS	JSS LOAD SENSE	13
JSS_PIL_DUMP	JSS PILOT DUMP	13
JSS_PIL_PR	JSS PILOT PRESSURE	13
JSS_RLY	RELAY K2	13
JSS_VALVE	JSS HYD VALVE	13
K5		
KD_DIODE	DIODE ASSY	13
KWCO	WIPER CUTOUT	11
L1_ECC	ECC BATT PWR	7
LBEGRD	LIGHT BEACON GRND	7
LBEPWR	LIGHT BEACON PWR	7
LDM1	DOME_LIGHT_0+	7
LDM2	DOME_LIGHT_AUTO	7
LDM3	DOME_LIGHT_GND	7
LLF	LIGHTS_LH	6
LLFW	LH_FRONT_WK_LT	7
LLR	LH_REAR_COMB_LT	6
LLRW	LH_REAR_WK_LT	7
LLR_L	LH_REAR_COMB_LT	6
LPL	LIC_PLATE_LIGHT	6
LRF	LIGHTS_RH	6
LRFO	FRONT_WK_LT_OPT	7
LRFB	FRONT_WK_LT_OPT	7
LRFS	FRONT_WK_LT_OPT	7
LRFW	RH_FRONT_WK_LT	7
LRR	RH_REAR_COMB_LT	6
LRRW	RH_REAR_WK_LT	7
LRR_E	RH_REAR_COMB_LT	6
LSPK	LEFT_SPEAKER	12
MON	CAMERA/MONITOR	7
NOXS	NOX SENSOR	
NTRL_DIODE	DIODE ASSY	13
OSS	OUT_SPEED_SENS	8
PAF	AIR_FILT_RES_SW	9
PBD	DEC_PRESS_SW	8
PBL	BRAKE_L_T_PRES_SW	6
PBW	BRK_WARN_PR_SW	9
PHF	HYD_OIL_FILT_RES_SW	9
PHF9	HYD_FLTR_RES_SW	9
PO1	POWER_OUTLET	12
PO2	POWER_OUTLET	12
PRB1	RED_BRAKE_SW	9
PRB2	RED_BRAKE_SW	9
PRBF	ROLLBACK_PRES_SW	10
PRH	AC HIGH PRESS SW	12
PRL	AC LOW PRESS SW	12
PRMB_L1	B+ POWER	4
PRMB_L2	B+ POWER	4
PRM_A	PWR RLY MOD A	
PRM_A1	PRM OUTPUT	4
PRM_A2	PRM SIGNAL	4
PRM_B1	PRM SIGNAL	
PRM_C1	PRM SIGNAL	4
PRM_D	PWR RLY MOD D	
PRM_D1	PRM OUTPUT	4
PRM_D2	PRM SIGNAL	4
PSS	SEC STR PRES SWITCH	11
PVRES	JSS JOYSTICK	13
PXF	RTD	10
PXH	HGT_CNTRL-RTT	10
PXM	RTD	10
PXT	RTD	10
P_A1	B+ POWER	4
P_A3	B+ POWER	4
P_C1	B+ PWR FRM PRMD	4
P_C2	B+ PWR FRM PRMD	4
P_C3	B+ PWR FRM PRMD	4
P_C4	B+ PWR FRM PRMD	4
P_C6	B+ PWR FRM PRMD	4
R1	RESISTOR	13
RAD	RADIO_POWER	12
RAD_J1	RADIO_POWER	12
RAD_J2	SPEAKER	12
RAD_J3	RADIO_JUMPER	12
RECT	ENG_COOL_TEMP	9
RFL	FUEL_SENDER	9
RFLG	FUEL_SEND_GRND	9
RFL_23	FUEL_LEVEL_SEND	9
ROOF	ROOF TO CAB CONNECTION	7, 11, 12
RSPK	RIGHT_SPEAKER	12
RTHP	THROTTLE_PEDAL	5
RVS_DIODE	DIODE ASSY	13
RWW	REAR_WIPER_MTR	11
RWWG	REAR_WTR_MTR_GD	11
RWW	REAR_WASHER	11
SAJ	FNR_SWITCH	13
SBE	BEACON_SW	7
SBU	BACK-UP_ALRM_DIS_SW	6
SC	SEAT_COMP_MOTOR	12
SDA	DIFF LOCK SWITCH	8
SDC	DECLUTCH_SWITCH	8
SDM	DIFF LOCK SWITCH	8
SDR	DRIVING LIGHTS SW	6
SFC	FAN_CONTROL_SW	10
SFL	RETURN_TO_TRAVEL_SW	10
SFNR	FNR_SWITCH	8
SFWW	FRONT WIPER/WASHER	11
SHC	HEIGHT CONTROL SW	10
SHZ	HAZARD_SWITCH	6
SJ3	JOYSTICK_CONTROL_SW	13
SPB	PARKING_BRAKE_SWITCH	9
SPC	PILOT_CONTROL_SWITCH	10
SPE	PIN_ENGAGE_SW	10
SPK	SPEAKER	12
SPL_2	ULTRASONIC	11
SPL_3	ULTRASONIC	11
SPL_12V	ULTRASONIC	12
SPL_19S	ULTRASONIC	11
SPL_35A	ULTRASONIC	6
SPL_42C	ULTRASONIC	1
SPL_A1	ULTRASONIC	10
SPL_A2	ULTRASONIC	10
SPL_A3	ULTRASONIC	10
SPL_A4	ULTRASONIC	9
SPL_A1A	ULTRASONIC	6
SPL_AC	ULTRASONIC	12

CONNECTOR LIST

NAME	DESCRIPTION	SHEET
SPL_ACC	ULTRASONIC	4
SPL_ACP	ULTRASONIC	12
SPL_ACS	ULTRASONIC	12
SPL_AJ	ULTRASONIC	13
SPL_ALT	ULTRASONIC	4
SPL_AP	ULTRASONIC	9
SPL_BB	ULTRASONIC	6
SPL_BCK_LGT	SPLICE BACK LGHT PWR	7
SPL_BCK_LGT2	SPL_BACK LGT PWR	10
SPL_BCK_LT_GD	SPL BACK LGHT GD	7
SPL_BCK_LT_GD2	SPL_BACK LGT GRND	10
SPL_BLWR	ULTRASONIC	12
SPL_BUZ	ULTRASONIC	9
SPL_C3	ULTRASONIC	11
SPL_CAN	ULTRASONIC	12
SPL_CAN_DH	ULTRASONIC	5
SPL_CAN_DIAG	ULTRASONIC	12
SPL_CAN_DIAG_L	ULTRASONIC	12
SPL_CAN_DL	ULTRASONIC	5
SPL_CAN_GH	ULTRASONIC	5
SPL_CAN_GL	ULTRASONIC	5
SPL_CAN_HT	ULTRASONIC	
SPL_CAN_HV	ULTRASONIC	5
SPL_CAN_JS_H1	ULTRASONIC	12
SPL_CAN_JS_H2	ULTRASONIC	12
SPL_CAN_JS_L1	ULTRASONIC	12
SPL_CAN_JS_LZ	ULTRASONIC	12
SPL_CAN_L	ULTRASONIC	12
SPL_CAN_LT	ULTRASONIC	
SPL_CAN_LV	ULTRASONIC	5
SPL_CAN_TEL	ULTRASONIC	12
SPL_CAN_TEL2	ULTRASONIC	12
SPL_CAN_TRANS	ULTRASONIC	12
SPL_CAN_TRANS_L	ULTRASONIC	12
SPL_CNV	ULTRASONIC	12
SPL_CR	ULTRASONIC	4
SPL_CRK	ULTRASONIC	4
SPL_D1	ULTRASONIC	10
SPL_D11	ULTRASONIC	8
SPL_D12	ULTRASONIC	8
SPL_D15	ULTRASONIC	8
SPL_D16	ULTRASONIC	8
SPL_D17	ULTRASONIC	8
SPL_D19	ULTRASONIC	8
SPL_DZ4	ULTRASONIC	10
SPL_DZ5	ULTRASONIC	10
SPL_DZ6	ULTRASONIC	10
SPL_DB_C1	ULTRASONIC	6
SPL_DC	ULTRASONIC	8
SPL_DCUG	ULTRASONIC	
SPL_DLY3	ULTRASONIC	9
SPL_DR	ULTRASOIC	6
SPL_EDC1	ULTRASONIC	5
SPL_EDC2	ULTRASONIC	5
SPL_EDC3	ULTRASONIC	5
SPL_EDC4	ULTRASONIC	5
SPL_ENG	ULTRASONIC	11
SPL_FAN	ULTRASONIC	10
SPL_FLSHR_PWR	ULTRASONIC	6
SPL_FNR	ULTRASONIC	8
SPL_FW	ULTRASONIC	11
SPL_H1	ULTRASONIC	8
SPL_H2	ULTRASONIC	8
SPL_HB	ULTRASONIC	6
SPL_HC	ULTRASONIC	11
SPL_HOOD	ULTRASONIC	11
SPL_HOOD_GRND	HOOD GRND 6PCK	11
SPL_HRN	ULTRASONIC	10
SPL_HTR	ULTRASONIC	4
SPL_J1	ULTRASONIC	6
SPL_J2_N	ULTRASONIC	6
SPL_JSS_1	ULTRASONIC	13

CONNECTOR LIST

NAME	DESCRIPTION	SHEET
SPL_JSS_2	ULTRASONIC	13
SPL_JSS_3	ULTRASONIC	13
SPL_JSS_4	ULTRASONIC	13
SPL_JSS_5	ULTRASONIC	13
SPL_JSS_6	ULTRASONIC	13
SPL_JSS_7	ULTRASONIC	13
SPL_JSS_9	ULTRASONIC	13
SPL_JSS_10	ULTRASONIC	13
SPL_JSS_11	ULTRASONIC	13
SPL_JSS_13	ULTRASONIC	13
SPL_JSS_14	ULTRASONIC	13
SPL_JSS_15	ULTRASONIC	13
SPL_JSS_16	ULTRASONIC	13
SPL_JSS_17	ULTRASONIC	13
SPL_JSS_18	ULTRASONIC	13
SPL_JSS_20	ULTRASONIC	13
SPL_JSS_21	ULTRASONIC	13
SPL_LB	ULTRASONIC	6
SPL_LT	ULTRASONIC	7
SPL_NEU	ULTRASONIC	4
SPL_PBS	ULTRASONIC	9
SPL_PED_BL	SPL BACK LGT PWR 6 PCK	10
SPL_PED_BL_GD	SPL BACK LGT GD 6PCK	10
SPL_PIN	SPL_BACK LGT PWR	10
SPL_PINE	ULTRASONIC	10
SPL_PK1	SPLICE 3-4WAY	7
SPL_PK3	SPLICE 3-4WAY	6
SPL_POS	ULTRASONIC	6
SPL_POS_L	ULTRASONIC	6
SPL_POS_NA	ULTRASONIC	6
SPL_POS_R	ULTRASONIC	6
SPL_PR	ULTRASONIC	6
SPL_PTM	ULTRASONIC	9
SPL_RAD	ULTRASONIC	12
SPL_RD	ULTRASONIC	9
SPL_ROOF	SPLICE ROOF GROUND	7
SPL_RTT	ULTRASONIC	10
SPL_RWW	ULTRASONIC	11
SPL_SD1	ULTRASONIC	4
SPL_SD2	ULTRASONIC	4
SPL_SD3	ULTRASONIC	4
SPL_SEC	ULTRASONIC	11
SPL_SS	ULTRASONIC	11
SPL_SW_PD	ULTRASONIC	9
SPL_TRNS_PWR	TRANS_PWR	8
SPL_WHS	ULTRASONIC	11
SPL_WK	ULTRASONIC	7
SPL_WL	ULTRASONIC	7
SPL_WL1	ULTRASONIC	7
SPL_WLS	ULTRASONIC	11
SPL_WR	ULTRASONIC	7
SPL_WRK1	ULTRASONIC	7
SPL_WRK2	ULTRASONIC	7
SPL_WRKF	ULTRASONIC	7
SPL_WRKR	ULTRASONIC	7
SRC	LOADTRAVEL STABILIZER_SW	10
SRC_1	RELAY	4
SRHSTLK	RH STALK SWITCH	6
SRP	WORK LIGHTS SW	4
SRTD	DETENT_SWITCH	10
SRWP	REAR_WIPER_SW	11
SSD	SEC_STR_DIODE	11
SSM	SEC STR MOD	11
SSS	SS MAG SWITCH	11
SS_TR	SS_MOD-TRANS	11
STA	TRANS_AUTO_SW	8
STE	TRANS_ENABLE_SW	8
STTR_GRN	GRID_HTR_FUSE	4
SWL	WORK LIGHTS SW	7
S_KEY	IGNITION_SWITCH	4
TCOT	TCO_SEN