CEBM027401

Shop Manual

830E-1AC

DUMP TRUCK

SERIAL NUMBERS **A40851 - A40938, A40995**

KOMATSU®

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GENERAL INFORMATION
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Fault Code A321: Propel system temperature caution wire input not same as serial input

Operator Action	Go To Shop Now
Fault Code	A321
Description	Propel system temperature caution wire input not same as serial input.
Fault Conditions	Sets if serial RS232 input declares a propel system temperature caution when wired input does not for 8 seconds with GE power on and drive system data OK. Resets if conditions change for 8 seconds.
Operator Alerting System Response	Sound Buzzer Flash IM Warning Indicator Display Operator Action: GO TO SHOP NOW Display Fault Description: PROPEL TEMP CAUT CKT Display Fault Code: A321
Resulting Problem(s)	Malfunctioning wired input could cause loss of warning for propel system temperature caution.
Related Information	A laptop running "IM Realtime Data Monitor" software may be required to resolve this fault.

Table

1. This fault's logic contains more than one parameter, each of which may have its own related fault code(s). This fault may be resolved by resolving the parameter(s) active fault code(s). Refer to the Troubleshooting Instructions for the active parameter fault(s).
2. If there are no active parameter fault codes, then based on the truck's setup while this fault is active, determine which of the parameters in the Table is not shown in its expected state on the IM Realtime Data Monitor program. Refer to the schematic to identify which item(s) may be causing the parameter(s) to be in the unexpected state. Troubleshoot these items.
3. If this fault is not currently active or if no parameters are currently in the unexpected state and the malfunction is still unresolved, then check each of the parameters in the Table for proper functionality. Troubleshoot all item(s) related to the parameter(s) which are found to be malfunctioning.

Parameter	Expected State and/or Related Fault(s)
Propel System Temp Caution Input (IM 3A)	0: propel system temperature caution exists 1: propel system temperature caution does not exist Fault(s): A108
Propel System Temp Caution - RS232 Input (IM2 D,E,F)	0: propel system temperature caution does not exist 1: propel system temperature caution exists Fault(s): A276
Drive System Control Power (IM3 M)	0: control power is off 1: control power is on
Drive System Data Link OK (IM2 D,E,F)	0: RS232 Data Link not OK 1: RS232 Data Link OK Fault(s): A276

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It is also important to ensure that steering linkage components are tightened to the proper torque. Use the proper torque specifications listed in this section for steering linkage components.

⚠WARNING

Use extreme caution when performing maintenance on any vehicle with an active steering system. Serious injury or death can result from contact with moving parts. Always keep a safe distance from crush points.

TABLE 1. STEERING SPHERICAL BEARING WEAR SPECIFICATIONS

Spherical Bearing Ball Diameter (New)	91.19 mm (3.59 in.)
Maximum Allowable Wear	1.01 mm (0.040 in.)

Removal

1. With engine shut down and key switch OFF, allow at least 90 seconds for the accumulator to bleed down. Turn the steering wheel to ensure no hydraulic pressure is present.
2. Block front and back of rear wheels to prevent truck movement.
3. Disconnect hydraulic lines at the steering cylinders. Plug all line connections and cylinder ports to prevent contamination of hydraulic system.
4. Remove locknuts (12, Figure 3-17), retainers (11), and cap screws (1) from both ends of steering cylinder.
5. The steering cylinder weighs approximately 126 kg (278 lb). Attach a suitable lifting device that can safely handle the load safely to the steering cylinder and take up the slack.
6. Remove pins (2) from each end of cylinder and move to clean work area. Bearing spacers (4) will be free when pin is removed. **Ensure bearing spacers do not drop out and become damaged when removing pin.**
7. Use the lifting device to lift the cylinder from the truck.
8. Remove seals (3), spacers (4) and washer (10).

Installation

1. The steering cylinder weighs approximately 126 kg (278 lb). Use a suitable lifting device to lift the cylinder into position on the truck.

NOTE: Ensure bearing retainer (7, Figure 3-17) is installed facing downwards.

2. Align bearing spacers (4), seals (3) and the barrel end of the steering cylinder with pin bores on truck frame.
3. Install pin (2), cap screw (1) and retainer (11) and secure with locknut (12).
4. Align bearing spacers (4), seals (3), washer (10) and rod end with pin bores on steering arm.
5. Install pin (2), cap screw (1) and retainer (11) and secure with locknut (12).
6. Tighten both locknuts (12) to **712 N·m (525 ft lb)** torque.
7. Connect grease lines to their respective ports. Operate steering and check for leaks and proper operation.

Bearing Replacement (Steering cylinder and tie rod)

1. Remove cap screws (8, Figure 3-17) and lockwashers (9). Remove bearing retainer (7).
2. Press bearing (5) out of bore in steering cylinder or tie rod end.
3. Press new bearing into bore.
4. Install bearing retainers (7) with cap screws and lockwashers. Tighten cap screws to standard torque. Ensure the anti-rotation tabs on retainer are perpendicular to the steering cylinder to prevent rotation.

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TROUBLESHOOTING

All hydraulic testing is to be performed with hydraulic oil at normal operating temperature, and engine speed at low idle.

Refer to Figure 19-3 for hydraulic schematic information.

Refer to Table 1 for shutter open and close specifications for Komatsu Engines.

⚠DANGER

Ensure engine and key switch have been OFF for at least 90 seconds to allow accumulator pressure to bleed down.
Relieve pressure before disconnecting hydraulic lines. Tighten all connections securely before applying pressure.

Hydraulic fluid escaping under pressure can have sufficient force to enter a person's body by penetrating the skin and cause serious injury and possibly death if proper medical treatment by a physician familiar with this type of injury is not received immediately.

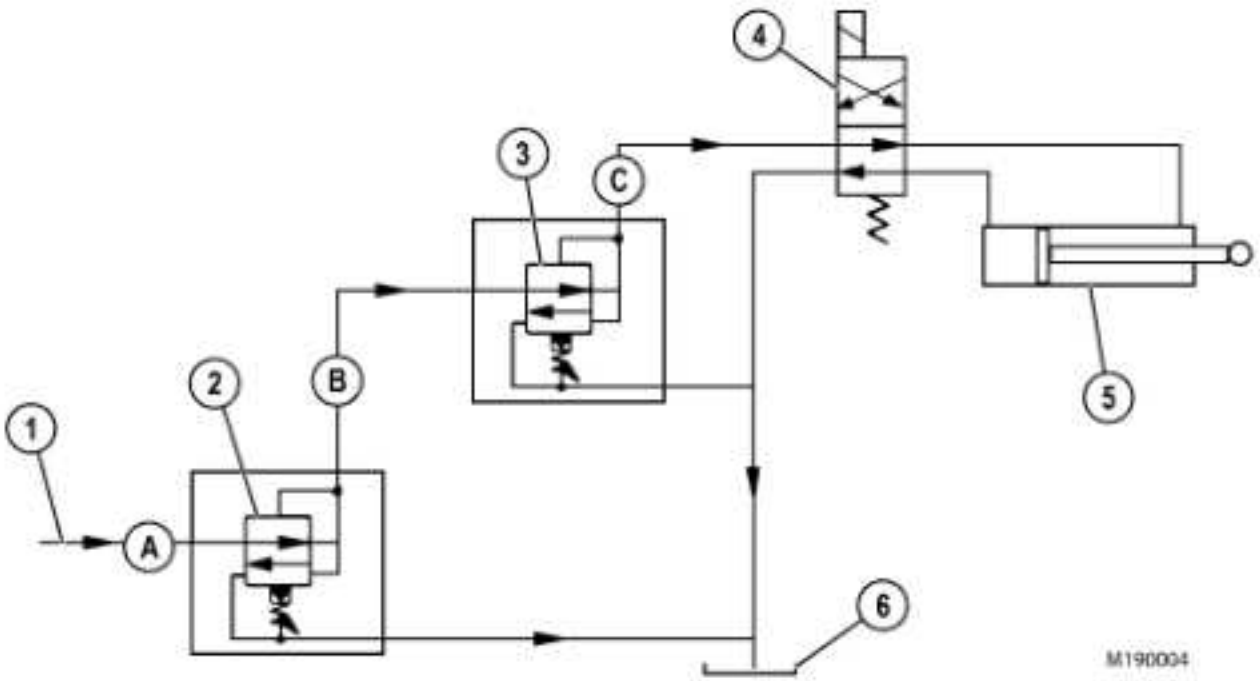


FIGURE 19-3. HYDRAULIC SCHEMATIC

1. Oil Supply
2. Pressure Reducing Valve
3. Pressure Reducing Valve
4. Solenoid Valve
5. Shutter Cylinder
6. Hydraulic Reservoir

A. 24 132 kPa (3500 psi)
B. 10 342 kPa (1500 psi)
C. 517 kPa (75 psi)

TABLE I. Komatsu SSDA16V160 Engines

Coolant Temperature	Intake Manifold Temperature	Fuel Temperature
Open 88 C (190 F) Close 85 C (185 F)	Open 60 C (140 F) Close 54 C (130 F)	Open 68 C (155 F) Close 66 C (150 F)

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CAPACITOR CHARGE LIGHTS

Observe both capacitor charge lights (CCL1, CCL2). CCL1 is on the outside of the contactor box. CCL2 is on the switch panel inside the low voltage area. The lights will stay illuminated as long as the voltage on the DC link is greater than 50 VDC. Refer to Figure 3-8.

⚠WARNING

Hazardous voltages may be present in this equipment even if the engine and capacitor charge lights are off.

Use measurement and protective equipment rated for 2000 VDC minimum to verify that no voltage is present before touching any terminal.

⚠WARNING

Verify functionality of the measurement equipment using site-approved procedures both before and after performing control group measurements.

Failure to observe these precautions may result in death or serious personal injury.

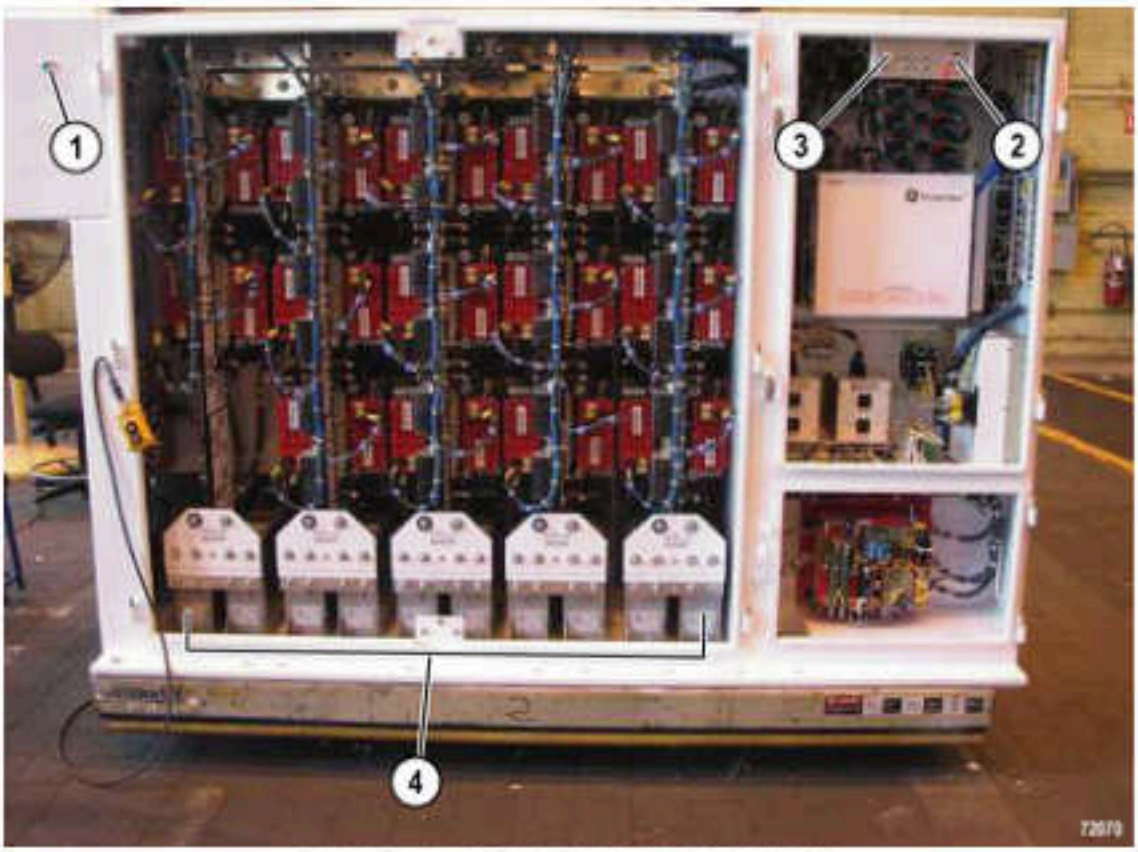


FIGURE 3-8. CAPACITOR CHARGE LIGHTS

1. Exterior Capacitor Charge Light (CCL2)
2. Interior Capacitor Charge Light (CCL1)
3. Information Display Panel
4. DC Link Capacitors

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4. Navigate the highlighted bar downward to the row named "Camera Switch" (Figure 33-17) using the minus button. Press the enter button to cause the setting for this row to become highlighted in green color. Use the plus button or the minus button as needed to cycle to option "4C" in the available settings. When "4C" is shown, select this option by pressing the enter button. Now the complete row should be highlighted in yellow and the text "4C" is shown as the selected option.

NOTE: The other options are also shown in Figure 33-17, and they are QUA, 2C, 3C AND OFF.



FIGURE 33-17.

5. Now Navigate the highlighted bar downward to the row named "Frontcam", then press the enter button. This will have a default setting screen similar to Figure 33-18. Set "Enable Frontcam" to OFF.

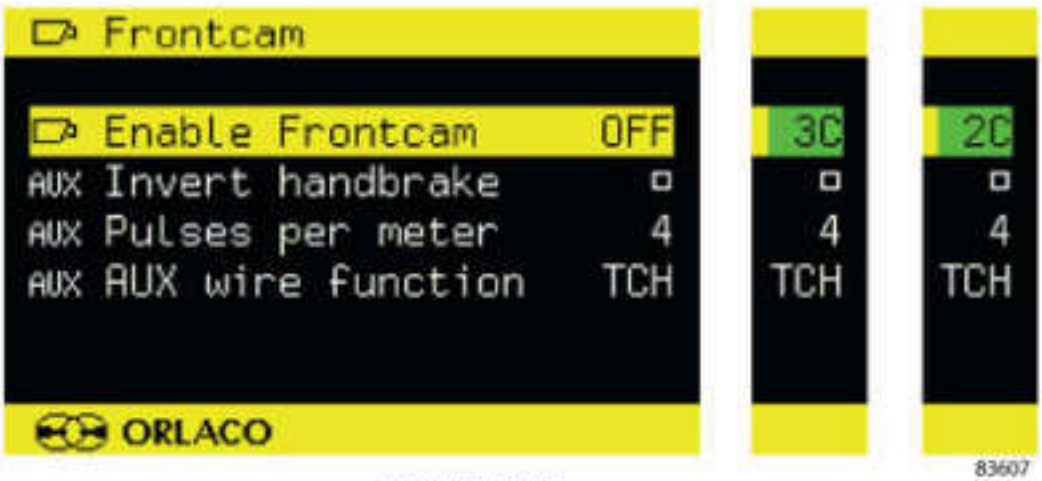


FIGURE 33-18.

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WIRE TABLE

CONTINUED ON DIAGRAM 17 & 18

WIRE LIST

NAME	DEVICE FROM	CONN FROM	DEVICE TO	CONN TO
-15VDI-000	-	J02	GE DID PANEL	DID
-15VDI-001	TB21	TB21-V2	-	P02
-15VDI-002	GE CONTROL INTERFACE	P302	TB21	TB21-V1
0-000	GB70 FRAME GND	GB70-A2	BUSS BAR 0	DISC(-)-5
0-001	24VDC ALTERNATOR	ALT (-)	GB70 FRAME GND	GB70-A1
0-002	GB70 FRAME GND	GB70-B2	GB31-A AUXBOX GND BLCK	GB31A-A1
0-003	BUSS BAR 0	DISC(-)-4	MOTOR STARTER 1 (STRT1)	STRT1-2A
0-004	BUSS BAR 0	DISC(-)-3	MOTOR STARTER 2 (STRT2)	STRT2-2A
0-005	VEC-90	VEC90-S7A	VEC-89	VEC89-S7A
0-006	RELAY KEY / GE CNTRL PWR (KCNP...	KCNPR-(-)	RELAY KEY SWITCH (KSWPR)	KSWPR-(-)
0-007	RELAY KEY / GE CNTRL PWR (KCNP...	KCNPR-(-)	12V POWER RELAY (12VPR)	12VPR-(-)
0-008	-	J11	SP09	-
0-009	12VDC CONVERTER (12VCN)	12VCN-GND	GB31-A AUXBOX GND BLCK	GB31A-A3
0-011	VEC-91	VEC91-S6B	GB31-A AUXBOX GND BLCK	GB31A-B1
0-012	VEC-91	VEC91-S6A	VEC-90	VEC90-S7B
0-013	RELAY HEADLIGHT LOW MOUNT (HLM...	HLMR-(-)	RELAY HEADLIGHT HIGH MOUNT (HH...	HHMR-(-)
0-014	RELAY HI-BEAM HEADLIGHT (HBHR)	HBHR-85	RELAY KEY SWITCH (KSWPR)	KSWPR-(-)
0-015	RELAY HI-BEAM HEADLIGHT (HBHR)	HBHR-85	GB31-B AUXBOX GND BLCK	GB31B-B1
0-016	RELAY HEADLIGHT LOW MOUNT (HLM...	HLMR-(-)	RELAY ACCESS LADDER LIGHT (ALL...	ALLR-85
0-017	SP103	-	GB31-A AUXBOX GND BLCK	GB31A-B3
0-018	DL1	DL1	SP104	-
0-019	SP104	-	DL2	DL2
0-020	DL3	DL3	SP104	-
0-021	DL4	DL4	SP103	-
0-022	DL5	DL5	SP103	-
0-023	DL6	DL6	SP103	-
0-024	SP104	-	SP103	-
0-025	SP100	-	SP102	-
0-026	LAMP LED MASTER DISCONNECT CL...	MLLON	BUSS BAR 0	DISC(-)-7
0-027	JB1	JB1	BUSS BAR 0	DISC(-)-7
0-028	MOTOR STARTER 1 (STRT1)	STRT1-2B	MOTOR STARTER 2 (STRT2)	STRT2-2B
0-030	RELAY 1 PROPEL LOCKOUT	PLREL	JB1	JB1
0-031	RELAY STARTER LOCKOUT	SLREL	JB1	JB1
0-032	JB1	JB1	LAMP LED PROPEL LOCKOUT ON	PLON
0-033	LAMP LED PROPEL LOCKOUT LOCKED...	PLLO	JB1	JB1
0-034	LAMP LED STARTER LOCKOUT OPEN	SLLO	JB1	JB1
0-040	ENGINE PRELUBE HIGH VOLUME PUM...	PLPM-(-)	GB3 ENG GND BLOCK	GB3-B3
0-041	RELAY ENGINE PRELUBE MAG SWITC...	PLMS-(-)	GB3 ENG GND BLOCK	GB3-B1
0-042	RELAY ENGINE PRELUBE	P800	RELAY ENGINE PRELUBE MAG SWITC...	PLMS-(-)
0-048	RELAY ENG STARTER 1 (ESREL1)	ESREL1-85	RELAY ENG STARTER 2 (ESREL2)	ESREL2-85
0-049	-	P12	RELAY ENG STARTER 1 (ESREL1)	ESREL1-85
0-050	-	J12	SP13	-
0-051	GB8 BRAKE CABINET	GB8-1	SWITCH PARK BRAKE RELEASE PRES...	PBRPS
0-055	-	J12	SP12	-
0-060	ENGINE QSK60 INTERFACE TIER II	P804	SP115	-
0-061	ENGINE QSK60 INTERFACE TIER II	P804	SP116	-
0-062	ENGINE QSK60 INTERFACE TIER II	P804	SP117	-
0-063	-	J808	SP115	-
0-064	SP115	-	-	J808
0-065	-	J808	SP116	-
0-066	SP116	-	-	J808
0-067	-	J808	SP117	-
0-068	SP117	-	-	J808
0-069	-	P808	GB31-B AUXBOX GND BLCK	GB31B-C1
0-070	-	P808	GB31-B AUXBOX GND BLCK	GB31B-C1
0-071	-	P808	GB31-B AUXBOX GND BLCK	GB31B-B4
0-072	-	P808	GB31-B AUXBOX GND BLCK	GB31B-B4
0-073	-	P808	GB31-B AUXBOX GND BLCK	GB31B-D1
0-074	-	P808	GB31-B AUXBOX GND BLCK	GB31B-D1
0-075	-	J11	SP10	-
0-076	-	J543	-	P11
0-077	-	P520	-	P543
0-078	SOLENOID ENGINE SHUTTER (OPT)	ESSOL	-	J520-
0-079	VEC RTMR1	RTMR1-C2	GB31-A AUXBOX GND BLCK	GB31A-D1
0-080	-	J12	SP13	-
0-081	-	P12	-	J542
0-082	-	P542	-	ETHER1
0-084	-	J11	SP10	-
0-085	ENGINE QSK60 INTERFACE TIER II	P806	-	J808
0-086	-	P808	GB31-B AUXBOX GND BLCK	GB31-D3
0-087	SWITCH A/C RECIEVER DRYER T2	RECDR	GB3 ENG GND BLOCK	GB3-A3
0-088	A/C COMPRESSOR CLUTCH T2	P803	GB3 ENG GND BLOCK	GB3-A3
0-090	-	P140	GB10 FRT CAB GND	GB10-A4
0-091	GB31-A AUXBOX GND BLCK	GB31A-B4	-	P04
0-092	SWITCH ENGINE RUN OIL PRESSURE...	EOPSW-2	-	J801
0-094	-	J12	SP12	-
0-095	GB10 FRT CAB GND	GB10-A4	SWITCH BRAKE LOCK	P39
0-096	SWITCH BRAKE LOCK	P39	SWITCH BRAKE LOCK	P39
0-097	SWITCH BRAKE LOCK	P39	SWITCH BRAKE LOCK	P39
0-098	SOLENOID BRAKE LOCK	BLS	GB8 BRAKE CABINET	GB8-3
0-099	-	P210	ENTERTAINMENT RADIO	P737
0-100	SWITCH HEADLIGHTS	P25	SWITCH HEADLIGHTS	P25
0-101	SWITCH CAB LADDER LIGHT	P24	SWITCH MANUAL BACKUP LIGHT	P23
0-102	LAMP RIGHT FOG	RFLT	-	P543
0-103	-	J543	-	P11
0-104	-	J11	SP09	-
0-105	LAMP LEFT FOG	LFLT	-	P542
0-106	-	J542	-	P12
0-110	-	J542	-	P12
0-111	LAMP HIGH MOUNT LEFT HI-BEAM	HMLHB	-	P542
0-112	-	J542	-	P12
0-113	LAMP LOW MOUNT LEFT LOW-BEAM	LMLLB	-	P542
0-114	-	J542	-	P12
0-115	-	P543	LAMP LOW MOUNT RIGHT LOW-BEAM	LMRLB
0-116	-	J543	-	P11
0-117	-	P542	LAMP HIGH MOUNT LEFT LOW-BEAM	HMLLB
0-118	-	J542	-	P12
0-119	-	J543	-	P11
0-120	-	P543	LAMP HIGH MOUNT RIGHT LOW-BEAM	HMRLB
0-121	LAMP LOW MOUNT LEFT HI-BEAM	LMLHB	-	P542
0-122	-	P11	-	J543
0-123	-	P543	LAMP HIGH MOUNT RIGHT HI-BEAM	HMRHB
0-124	-	P11	-	J543
0-125	-	P543	LAMP LOW MOUNT RIGHT HI-BEAM	LMRHB
0-126	-	J11	SP10	-
0-127	-	J11	SP09	-
0-128	-	J12	SP12	-
0-129	-	J12	SP12	-
0-130	SP10	-	GB31-A AUXBOX GND BLCK	GB31B-A2
0-131	SP11	-	GB31-A AUXBOX GND BLCK	GB31B-B2
0-132	SWITCH HAZARD LIGHTS	P36	SWITCH BRAKE TEST	P37
0-133	SWITCH HAZARD LIGHTS	P36	SWITCH HAZARD LIGHTS	P36
0-134	-	J12	SP11	-
0-135	-	J11	SP08	-
0-136	-	P12	-	J540
0-137	-	P540	-	P503
0-138	-	J503	SP142	-
0-139	SP142	-	LAMP MARKER/TURN LEFT SIDE DEC...	LCL1
0-140	SP142	-	LAMP MARKER/TURN LEFT FRT DECK	LCL2
0-141	-	P11	-	J541
0-142	-	P541	-	P502
0-143	-	J502	SP147	-
0-144	SP147	-	LAMP MARKER/TURN RIGHT FRT DEC...	RCL1
0-145	SP147	-	LAMP MARKER/TURN RIGHT SIDE DE...	RCL2
0-146	-	J16	SP15	-
0-147	-	J14	SP14	-
0-149	-	P14	-	P732
0-150	SWITCH FOG LAMP (OPT)	P22	SWITCH FOG LAMP (OPT)	P22
0-151	SWITCH FOG LAMP (OPT)	P22	GB10 FRT CAB GND	GB10-A3
0-156	-	P16	-	P731

WIRE LIST

NAME	DEVICE FROM	CONN FROM	DEVICE TO	CONN TO
0-157	RELAY HEADLIGHT HIGH MOUNT (HH...	HHMR-(-)	RELAY BACKUP LIGHT (BULR)	BULR-(-)
0-158	SP195	-	LAMP GREEN PAYLOAD RIGHT	RPLG
0-160	GB31-B AUXBOX GND BLCK	GB31A-A2	SP14	-
0-161	-	J14	SP14	-
0-162	-	J12	SP13	-
0-163	-	J12	SP13	-
0-164	-	J11	SP10	-
0-165	-	J11	SP10	-
0-166	-	P11	-	J541
0-167	-	P541	LAMP DECK LADDER LIGHT #1	RDLLT
0-168	-	J541	-	P11
0-169	LAMP DECK LIGHT #2	RDLT	-	P541
0-170	-	J540	-	P12
0-171	LAMP DIAGONAL LADDER LIGHT #1	LDLLT	-	P540
0-172	-	J540	-	P12
0-173	-	P540	-	P544
0-174	-	P565	-	P14
0-175	-	J565	SP151	-
0-176	LAMP CONTROL CABINET WORK LIGH...	CDL1	SP151	-
0-177	LAMP CONTROL CABINET WORK LIGH...	CDL2	SP151	-
0-178	GB10 FRT CAB GND	GB10-B2	ACTIA DISPLAY PANEL DIMMER	P18
0-179	SWITCH DISPLAY MODE #2	P20	GB10 FRT CAB GND	GB10-B4
0-180	SWITCH DISPLAY MODE #2	P20	SWITCH DISPLAY MODE #2	P20
0-181	SWITCH DISPLAY MODE #2	P20	SWITCH DISPLAY MODE #2	P20
0-182	SWITCH DISPLAY MODE #2	P20	SWITCH DISPLAY MODE #1	P21
0-183	SWITCH DISPLAY MODE #1	P21	SWITCH DISPLAY MODE #1	P21
0-184	SWITCH DISPLAY MODE #1	P21	SWITCH DISPLAY MODE #1	P21
0-185	ACTIA DASH DISPLAY	P903	GB10 FRT CAB GND	GB10-D3
0-186	SWITCH CAB LADDER LIGHT	P24	SWITCH HEADLIGHTS	P25
0-187	R27	R27	GB10 FRT CAB GND	GB10-B2
0-188	SWITCH CAB LADDER LIGHT	P24	SWITCH CAB LADDER LIGHT	P24
0-189	LAMP RED PAYLOAD RIGHT	RPLR	SP195	-
0-191	SWITCH LEFT WINDOW	P072	GB12 REAR CAB	GB12-D2
0-192	GB12 REAR CAB	GB12-D1	SWITCH LEFT WINDOW	P072
0-194	SWITCH LEFT WINDOW	P072	SWITCH LEFT WINDOW	P072
0-195	SWITCH LEFT WINDOW	P072	GB12 REAR CAB	GB12-D2
0-197	SWITCH RIGHT WINDOW	P071	GB12 REAR CAB	GB12-D1
0-198	SWITCH RIGHT WINDOW	P071	GB12 REAR CAB	GB12-C2
0-199	SP195	-	LAMP AMBER PAYLOAD RIGHT	RPLA
0-200	GB12 REAR CAB	GB12-C2	SWITCH RIGHT WINDOW	P071
0-201	SWITCH RIGHT WINDOW	P071	SWITCH RIGHT WINDOW	P071
0-202	-	J210	-	J04
0-203	-	P03	GB31-A AUXBOX GND BLCK	GB31A-C1
0-204	-	P03	GB31-A AUXBOX GND BLCK	GB31A-C1
0-205	-	P03	GB31-A AUXBOX GND BLCK	GB31A-C4
0-206	-	P03	GB31-A AUXBOX GND BLCK	GB31A-C4
0-207	-	J03	GB12 REAR CAB	GB12-A1
0-208	-	J03	GB12 REAR CAB	GB12-A1
0-209	-	J03	GB12 REAR CAB	GB12-B1
0-210	-	J03	GB12 REAR CAB	GB12-B1
0-211	GB12 REAR CAB	GB12-A2	-	J601
0-212	GB12 REAR CAB	GB12-A2	-	J601
0-213	GB12 REAR CAB	GB12-B1	-	J602
0-214	-	MM/RPC	GB12 REAR CAB	GB12-B2
0-215	-	P801	GB31-B AUXBOX GND BLCK	GB31B-A1
0-216	-	J12	SP13	-
0-217	-	P12	SP777	-
0-218	-	P12	-	P505-
0-219	-	J12	SP13	-
0-220	-	P11	-	P180
0-221	-	P11	-	J190
0-222	-	J11	SP09	-
0-223	-	J11	SP09	-
0-225	GB31-B AUXBOX GND BLCK	GB31B-D4	-	P240
0-226	-	P240	GB31-B AUXBOX GND BLCK	GB31B-D4
0-227	-	J240	GB8 BRAKE CABINET	GB8-1
0-228	-	J240	GB8 BRAKE CABINET	GB8-1
0-229	TB21	TB21-X1	R19	R19
0-230	INTERFACE MODULE	IM1	TB21	TB21-X2
0-231	R18	R18	TB21	TB21-X3
0-232	TB29 X5	TB29-X5	TB26 M5	TB26-M5
0-233	TB26 M5	TB26-M5	GB31-A AUXBOX GND BLCK	GB31A-C3
0-234	GB31-A AUXBOX GND BLCK	GB31A-C3	TB36	TB36-K1
0-235	TB36	TB36-K1	TB27	TB27-W3
0-237	RELAY ACCESS LADDER LIGHT (ALL...	ALLR-85	GB31-A AUXBOX GND BLCK	GB31A-A4
0-238	TB24	TB24-X1	TB21	TB21-X4
0-239	GB8 BRAKE CABINET	GB8-3	D3	D3
0-240	-	J16	SP15	-
0-241	-	J16	SP15	-
0-242	SP15	-	-	J16
0-243	-	P16	TB61	TB61-A1
0-244	-	P16	TB61	TB61-B1
0-245	-	P16	TB61	TB61-C1
0-246	TB61	TB61-A2	GB1 - REAR AXLE	GB1-A1
0-247	TB61	TB61-B2	GB1 - REAR AXLE	GB1-A2
0-248	HORN BACKUP RIGHT	LRBH-(-)	GB1 - REAR AXLE	GB1-A3
0-249	HORN BACKUP LEFT	RRBH-(-)	GB1 - REAR AXLE	GB1-A3
0-250	GB1 - REAR AXLE	GB1-A3	-	HIDBL
0-251	LAMP BACKUP REAR RIGHT	RRBL	GB1 - REAR AXLE	GB1-B1
0-252	LAMP BACKUP REAR LEFT	LRBL	GB1 - REAR AXLE	GB1-B1
0-253	LAMP RETARD LEFT REAR	LRL	GB1 - REAR AXLE	GB1-A4
0-254	GB1 - REAR AXLE	GB1-A4	LAMP RETARD RIGHT REAR	RRL
0-255	-	J11	SP08	-
0-256	-	J541	-	P11
0-257	-	P502	-	P541
0-258	LAMP BACKUP LIGHT RIGHT DECK (...	RBUL	-	J502
0-259	LAMP BACKUP LIGHT LEFT DECK (O...	LBUL	-	J503
0-260	SHIFTER DIRECTION SELECTOR	P108	JB6C	JB6C
0-261	-	P503	-	P540
0-262	-	J540	-	P12
0-263	-	J12	SP11	-
0-264	GB1 - REAR AXLE	GB1-B1	LAMP STOP/TAIL LEFT	LRSTL
0-265	LAMP STOP/TAIL RIGHT	RRSTL	GB1 - REAR AXLE	GB1-B3
0-266	JB6C	JB6C	GB12 REAR CAB	GB12-D3
0-267	TB24	TB24-X1	TB27	TB27-W3
0-268	SWITCH FOG LAMP (OPT)	P22	SWITCH MANUAL BACKUP LIGHT	P23
0-269	SWITCH MANUAL BACKUP LIGHT	P23	SWITCH MANUAL BACKUP LIGHT	P23
0-270	-	J14	SP14	-
0-271	-	P563	-	P14
0-272	-	J563	SP166	-
0-273	SP166	-	LAMP HYDRAULIC PUMP MOD (OPT)	HPML
0-274	SWITCH HYDRAULIC PUMP MOD LAMP...	HPMS-3	SP166	-
0-276	-	J540	-	P12
0-277	LAMP LEFT UPPER ENGINE SERVICE	LUESL	-	P540
0-279	-	J540	-	P12
0-280	LAMP LEFT LOWER ENGINE SERVICE	LLESL	-	P540
0-282	-	J541	-	P11
0-283	LAMP RIGHT UPPER ENGINE SERVIC...	RUESL	-	P541
0-285	-	J541	-	P11
0-286	-	P541	SP165	-
0-287	SP165	-	LAMP RIGHT LOWER ENGINE SERVIC...	RLESL
0-288	SWITCH RIGHT ENGINE SERVICE LA...	RESLS-1	SP165	-
0-290	-	J540	-	P12
0-291	-	P503	-	P540
0-292	-	J503	SP168	-
0-293	HORN FRONT VEHICLE	AHS	SP168	-
0-294	D1	D1	SP168	-
0-295	TB61	TB61-A4	GB1 - REAR AXLE	GB1-B2
0-296	-	P704	GB1 - REAR AXLE	GB1-B4
0-297	-	J704	SP169	-

WIRE LIST

NAME	DEVICE FROM	CONN FROM	DEVICE TO	CONN TO
0-298	SP169	-	LAMP REAR SERVICE	PL
0-299	SP169	-	TIMER REAR SERVICE LAMP (PLT)	PLT-3
0-300	GB1 - REAR AXLE	GB1-B3	-	P55
0-301	GB1 - REAR AXLE	GB1-B3	-	J54
0-302	-	P54	SP177	-
0-303	SP177	-	LAMP BODY LEFT REAR MARKER	LSCL2
0-304	LAMP BODY LEFT SIDE MARKER	LSCL1	SP177	-
0-305	-	J55	SP174	-
0-306	SP174	-	LAMP BODY RIGHT REAR MARKER	RSCL2
0-307	LAMP BODY RIGHT SIDE MARKER	RSCL1	SP174	-
0-308	JB6C	JB6C	-	J229
0-309	JB6C	JB6C	-	J228
0-310	JB6C	JB6C	SWITCH CAB SECONDARY ENGINE SH...	ESS-B
0-311	JB6C	JB6C	SWITCH BODYUP OVERRIDE / RESET...	ORS-B
0-312	SWITCH RETARD SPEED CONTROL (R...	RSCS_1-3	GB12 REAR CAB	GB12-D4
0-313	-	J02	RETARD SPEED CONTROL	RSP
0-314	SWITCH RETARD SPEED CONTROL (R...	RSCS-B	SWITCH RETARD SPEED CONTROL (R...	RSCS_1-3
0-315	-	P02	TB31	TB31-G2
0-316	GE CONTROL INTERFACE	P303	TB31	TB31-G1
0-317	SWITCH DC POWER OFF - REST SWI...	P35	GB10 FRT CAB GND	GB10-C1
0-318	SWITCH GRID DRY	P34	GB10 FRT CAB GND	GB10-C1
0-319	SWITCH GRID DRY	P34	SWITCH GRID DRY	P34
0-320	SWITCH BRAKE TEST	P37	SWITCH BRAKE LOCK	P39
0-321	SWITCH BRAKE TEST	P37	SWITCH BRAKE TEST	P37
0-322	GE CONTROL INTERFACE	P305	GB31-B AUXBOX GND BLCK	GB31B-B3
0-323	GE CONTROL INTERFACE	P305	GB31-B AUXBOX GND BLCK	GB31B-B3
0-324	SENSOR FUEL LEVEL	FLS	SP185	-
0-325	-	J16	SP15	-
0-326	-	J730	-	P16
0-327	SP185	-	-	P730
0-328	SWITCH STEERING FILTER #1	SFSW	SP185	-
0-329	-	J02	SWITCH DRIVERS SEAT BELT	P212
0-330	-	P02	GB31-B AUXBOX GND BLCK	GB31B-A4
0-331	SWITCH LOW STEERING PRESSURE	ACPSW	-	P14
0-332	SWITCH STEERING BLEED PRESSURE	SABS	-	P14
0-333	-	J14	SP14	-
0-334	-	J14	SP14	-
0-335	SWITCH ACCUMULATOR PRESSURE #2...	ACCP2-C	-	P13
0-336	-	J13	SP08	-
0-337	SWITCH PARK BRAKE SET	PBPSW	GB8 BRAKE CABINET	GB8-2
0-338	SWITCH LOW BRAKE ACCUM PRESSUR...	LBPS	GB8 BRAKE CABINET	GB8-2
0-339	SWITCH SERVICE BRAKE DEGRADE P...	BDS	GB8 BRAKE CABINET	GB8-2
0-340	-	P14	SENSOR HYDRAULIC TANK LEVEL	P712
0-341	-	J14	SP14	-
0-342	-	J511	-	P11
0-343	SWITCH AUTOLUBE LEVEL (OPT)	ALLSW	-	P511
0-344	-	J11	SP10	-
0-345	R30	R30	TB21	TB21-X3
0-346	-	P04	GB31-A AUXBOX GND BLCK	GB31A-B4
0-347	-	J04	JB8A	JB8A
0-348	JB8A	JB8A	KOMTRAX PLUS MODULE	P1
0-349	JB8A	JB8A	KOMTRAX PLUS MODULE	P1
0-350	JB8A	JB8A	KOMTRAX PLUS MODULE	P1
0-351	JB8A	JB8A	KOMTRAX PLUS MODULE	P1
0-352	JB8A	JB8A	ORBCOMM MODULE (OPT)	CNA
0-353	ORBCOMM MODULE (OPT)	CNA	JB8A	JB8A
0-354	JB8A	JB8A	-	P653
0-355	-	J808-	ENGINE QSK60 INTERFACE TIER I	P806-
0-356	-	J808-	ENGINE QSK60 INTERFACE TIER I	P805-
0-357	A/C COMPRESSOR CLUTCH T1	P803–	GB3 ENG GND BLOCK	GB3-A1
0-358	GB3 ENG GND BLOCK	GB3-A1	SWITCH A/C RECIEVER DRYER T1	RECDR-T1
0-359	SWITCH ENGINE RUN OIL PRESSURE...	EOPSW2	-	J801-
0-361	TB28	TB28-R2	GB31-B AUXBOX GND BLCK	GB31B-C4
0-362	-	DIAG4	GB12 REAR CAB	GB12-C4
0-363	SP142	-	SP196	-
0-364	SP147	-	SP195	-
0-365	PAY LOAD METER 3	P264	GB31-B AUXBOX GND BLCK	GB31B-A3
0-366	LAMP LED STARTER LOCKOUT CLOSE...	SLON	JB1	JB1
0-367	SP196	-	LAMP RED PAYLOAD LEFT	LPLR
0-368	SP196	-	LAMP AMBER PAYLOAD LEFT	LPLA
0-369	LAMP GREEN PAYLOAD LEFT	LPLG	SP196	-
0-370	SCORE BOARD RIGHT (OPT)	CNRIN	SCORE BOARD LEFT (OPT)	CNLO
0-375	TB36	TB36-R4	GB31-B AUXBOX GND BLCK	GB31B-C3
0-376	RELAY WIPER MOTOR HIGH	P08	RELAY HYDRAULIC LADDER PK STAT...	P263
0-377	MOTOR WINDSHIELD WASHER	WW-	-	P03
0-378	RELAY WIPER MOTOR LOW	P09	RELAY WIPER MOTOR HIGH	P08
0-379	-	J03	GB12 REAR CAB	GB12-C3
0-380	TIMER WASHER DELAY (WADT)	WADT-4	RELAY WIPER MOTOR LOW	P09
0-381	RELAY HYDRAULIC LADDER PK STAT...	P263	GB10 FRT CAB GND	GB10-C3
0-382	MOTOR WINDSHIELD WIPER	P07	GB10 FRT CAB GND	GB10-C3
0-383	12VDC POWER PORT #1	PWR1-2	-	J03
0-384	12VDC POWER PORT #2	PWR2-2	-	J03
0-385	-	P03	GB31-A AUXBOX GND BLCK	GB31A-C1
0-386	-	P03	GB31-A AUXBOX GND BLCK	GB31A-C4
0-387	SP198	-	TB24	TB24-X3
0-388	R51	R51	TB27	TB27-W4
0-389	-	P651	GB10 FRT CAB GND	GB10-D4
0-390	SWITCH CAMERA (OPT)	P31	GB10 FRT CAB GND	GB10-D4
0-391	SWITCH CAMERA (OPT)	P31	SWITCH CAMERA (OPT)	P31
0-392	-	J651	SP701	-
0-393	CAMERA CONTROLLER (OPT)	P652	SP701	-
0-394	SP701	-	-	P650
0-395	-	J541	-	P11
0-396	-	P502	-	P541
0-397	-	P548	-	J502
0-398	-	J540	-	P12
0-399	-	P503	-	P540
0-400	-	P549	-	J503
0-401	-	J11	SP08	-
0-402	-	J12	SP11	-
0-403	-	J11	SP08	-
0-404	-	J541	-	P11
0-405	-	P502	-	P541
0-406	-	P546	-	J502
0-407	-	J12	SP11	-
0-408	-	J540	-	P12
0-409	-	P503	-	P540
0-410	-	P547	-	J503
0-411	SWITCH ROTATING BEACON (OPT)	P32	GB10 FRT CAB GND	GB10-D2
0-412	GB10 FRT CAB GND	GB10-D2	SWITCH HEATED MIRROR (OPT)	P33
0-413	GB31-A AUXBOX GND BLCK	GB31A-C2	SP12	-
0-414	GB31-A AUXBOX GND BLCK	GB31A-D2	SP13	-
0-415	GB31-B AUXBOX GND BLCK	GB31A-B2	SP15	-
0-416	GB31-B AUXBOX GND BLCK	GB31B-C2	SP08	-
0-417	GB31-B AUXBOX GND BLCK	GB31B-D2	SP09	-
0-420	SP09	-	-	J11
0-421	SP08	-	-	J11
0-422	SP11	-	-	J12
0-423	-	J14	SP14	-
0-424	-	J12	SP12	-
0-425	-	J12	SP12	-
0-426	-	J12	SP11	-
0-427	-	P04	GB31-A AUXBOX GND BLCK	GB31A-B4
0-428	-	J04	-	RRBB2
0-429	SOLENOID ETHER START (OPT)	ESOL	-	ETHER2-
0-430	-	R546	MIRROR HEATED RIGHT DECK (OPT)	MIRROR1
0-431	-	L547	MIRROR HEATED LEFT DECK (OPT)	MIRROR2
0-432	-	J16	GB31-A AUXBOX GND BLCK	GB31A-D3
0-433	-	P16	-	RBML
0-434	-	J12	GB31-A AUXBOX GND BLCK	GB31A-D3

WIRE LIST

NAME	DEVICE FROM	CONN FROM	DEVICE TO	CONN TO
0-435	-	P12	-	J540
0-436	-	P540	-	P503
0-437	-	J503	-	LDML
0-438	-	J11	GB31-A AUXBOX GND BLCK	GB31A-D3
0-439	-	J541	-	P11
0-440	-	P541	-	P502
0-441	-	RDML	-	J502
0-442	-	RBML1	-	RBML2
0-443	GB31-A AUXBOX GND BLCK	GB31A-D4	TB26	TB26-A2
0-444	LAMP HYDRAULIC CABINET #2	HL2	GB8 BRAKE CABINET	GB8-4
0-445	GB8 BRAKE CABINET	GB8-4	LAMP HYDRAULIC CABINET #1	HL1
0-446	TB31	TB31-G3	TB29	TB29-X4
0-447	TB30	TB30-B2	TB28	TB28-R2
0-448	RELAY MASTER DISCONNECT	MLREL	JB1	JB1
0-449	LAMP DECK LIGHT #1 (OPT LOCATI...	LDLT	-	J544
0-500	-	J712	TB-HTST	TB-HTST-D4
0-501	HEATER COOLANT LH	-	TB-HTST	TB-HTST-C1
0-502	HEATER COOLANT RH	-	TB-HTST	TB-HTST-C2
0-504	SP706	-	THERMOSTAT ENGINE OIL	EOTS
0-505	SP706	-	TB-HTST	TB-HTST-E1
0-506	SP706	-	SP705	-
0-507	HEATER ENGINE OIL LH	EOH1	SP705	-
0-508	SP705	-	HEATER ENGINE OIL RH	EOH2
0-509	TB-HTST	TB-HTST-D2	-	CON1
0-510	SP709	-	-	CON2
0-511	HEATER HYDRAULIC OIL #1	HOHTR1	SP709	-
0-512	SP709	-	HEATER HYDRAULIC OIL #2	HOHTR2
0-514	-	CON3	TB-HTST	TB-HTST-E2
0-515	HEATER OIL RESERVE TANK	ECHTR2	-	CON4
0-516	BATT1	BATT1(+)	BATT2	BAT2(-)
0-517	BATT3	BAT3(+)	BATT4	BAT4(-)
0-518	SP777	-	-	J506
0-519	SP777	-	-	P830
0-600	TB31	TB31-V4	TB31	TB31-L3
0-601	GB31-A AUXBOX GND BLCK	GB31A-D4	TB31	TB31-L3
0ACL-000	-	J01	ACCELERATOR PEDAL	P236
0ACL-001	TB31	TB31-W2	-	P01
0ACL-002	GE CONTROL INTERFACE	P303	TB31	TB31-W3
0ACL-003	GE CONTROL INTERFACE	P304	TB31	TB31-W1
0COM-000	-	J02	GE DID PANEL	DID
0COM-001	-	P02	TB22	TB22-S2
0COM-002	TB22	TB22-S1	SP181	-
0COM-003	TB22	TB22-S3	SP182	-
0COM-004	GE CONTROL INTERFACE	P302	SP181	-
0COM-005	GE CONTROL INTERFACE	P302	SP181	-
0COM-006	GE CONTROL INTERFACE	P302	SP181	-
0COM-007	GE CONTROL INTERFACE	P302	SP182	-
0COM-008	GE CONTROL INTERFACE	P302	SP182	-
0COM-009	GE CONTROL INTERFACE	P302	SP182	-
0LEV-000	-	J01	RETARD CONTROL LEVER (OPT)	P237
0LEV-001	TB31	TB31-L2	-	P01
0LEV-002	GE CONTROL INTERFACE	P302	TB31	TB31-L1
0LF-000	-	P13	SENSOR LEFT FRONT WHEEL SPEED	P507
0LF-001	TB33	TB33-P2	-	J13
0LF-002	GE CONTROL INTERFACE	P301	TB33	TB33-P1
0LF-003	GE CONTROL INTERFACE	P301	TB33	TB33-P3
0RET-000	-	J01	RETARD CONTROL PEDAL	P235
0RET-001	TB31	TB31-V2	-	P01
0RET-002	GE CONTROL INTERFACE	P302	TB31	TB31-V1
0RF-000	-	P13	SENSOR RIGHT FRONT WHEEL SPEED	P501
0RF-001	-	J13	TB33	TB33-K2
0RF-002	GE CONTROL INTERFACE	P301	TB33	TB33-K1
0RF-003	GE CONTROL INTERFACE	P301	TB33	TB33-K3
1M-000	RELAY MASTER DISCONNECT	MLREL	LAMP LED MASTER DISCONNECT OPE...	MLLO
1S-000	RELAY STARTER LOCKOUT	SLREL	LAMP LED STARTER LOCKOUT OPEN	SLLO
5EFQ-000	ENGINE QSK60 INTERFACE TIER I	P805-	ENGINE QSK60 INTERFACE TIER I	P805-
5VDI-000	-	J02	GE DID PANEL	DID
5VDI-001	TB21	TB21-W2	-	P02
5VDI-002	TB21	TB21-W1	GE CONTROL INTERFACE	P302
5VDI-003	GE CONTROL INTERFACE	P302	TB21	TB21-W1
5VDI-004	TB21	TB21-W3	GE CONTROL INTERFACE	P302
5VDI-009	-	J15	-	J702
5VDI-010	-	P15	-	RRBPS
5VDI-011	-	J15	-	J702
5VDI-012	-	P15	-	LRBPS
5VIM-000	TB30	TB30-K1	INTERFACE MODULE	IM3
5VIM-001	TB30	TB30-K1	INTERFACE MODULE	IM3
5VIM-002	-	J14	TB30	TB30-K2
5VIM-003	TB30	TB30-K4	-	J14
5VIM-004	TB30	TB30-K3	-	J14
5VIM-005	SENSOR HYDRAULIC TANK TEMP	P711	-	P14
5VIM-006	-	J14	TB30	TB30-L2
5VIM-007	SENSOR DUCT AIR TEMPERATURE	ATS	-	P14
5VIM-008	-	J14	TB30	TB30-L4
7HMWU-000	KOMTRAX PLUS MODULE	P2A	ORBCOMM MODULE (OPT)	CNA
7M1A1	GE CONTROL CABINET	IPT1AX2	MOTOR WHEEL DRIVE # 1	M1-TA1
7M1A2	GE CONTROL CABINET	IPT1AX3	MOTOR WHEEL DRIVE # 1	M1-TA2
7M1B1	GE CONTROL CABINET	IPT1BX2	MOTOR WHEEL DRIVE # 1	M1-TB1
7M1B2	GE CONTROL CABINET	IPT1BX3	MOTOR WHEEL DRIVE # 1	M1-TB2
7M1C1	GE CONTROL CABINET	IPT1CX2	MOTOR WHEEL DRIVE # 1	M1-TC1
7M1C2	GE CONTROL CABINET	IPT1CX3	MOTOR WHEEL DRIVE # 1	M1-TC2
7M2A1	GE CONTROL CABINET	IPT2AX2	MOTOR WHEEL DRIVE # 2	M2-TA1
7M2A2	GE CONTROL CABINET	IPT2AX3	MOTOR WHEEL DRIVE # 2	M2-TA2
7M2B1	GE CONTROL CABINET	IPT2BX2	MOTOR WHEEL DRIVE # 2	M2-TB1
7M2B2	GE CONTROL CABINET	IPT2BX3	MOTOR WHEEL DRIVE # 2	M2-TB2
7M2C1	GE CONTROL CABINET	IPT2CX2	MOTOR WHEEL DRIVE # 2	M2-TC1
7M2C2	GE CONTROL CABINET	IPT2CX3	MOTOR WHEEL DRIVE # 2	M2-TC2
10V-000	GE CONTROL INTERFACE	P303	TB31	TB31-M1
10V-001	-	P02	TB31	TB31-M2
10V-003	-	J01	ACCELERATOR PEDAL	P236
10V-004	-	J01	RETARD CONTROL PEDAL	P235
10V-005	-	J01	RETARD CONTROL LEVER (OPT)	P237
10V-006	-	J02	RETARD SPEED CONTROL	RSP
10V-007	TB31	TB31-N3	R17	R17
10V-008	TB31	TB31-M4	-	P01
10V-009	TB31	TB31-N2	-	P01
10V-010	TB31	TB31-N4	-	P01
11-000	BATT2	BAT2(+)	BUSS BAR 24VDC BATT BOX	BUS24V-1
11-001	BATT4	BAT4(+)	BUSS BAR 24VDC BATT BOX	BUS24V-6
11-002	BUSS BAR 24VDC BATT BOX	BUS24V-11	BUSS BAR 11	SDISC-1
11-003	BUSS BAR 24VDC BATT BOX	BUS24V-10	BUSS BAR 11	SDISC-2
11-004	24VDC AUXBOX BUSS	24VDC-A2	RELAY KEY SWITCH (KSWPR)	KSWPR-87
11-005	24VDC AUXBOX BUSS	24VDC-A4	RELAY KEY / GE CNTRL PWR (KCNP...	KCNPR-87
11-006	CB60	CB60-1	24VDC AUXBOX BUSS	24VDC-A3
11-007	BUSS BAR 24VDC BATT BOX	BUS24V-8	24VDC AUXBOX BUSS	24VDC-A1
11-008	ENGINE JUMP START1	-	BUSS BAR 24VDC BATT BOX	BUS24V-2
11-009	ENGINE JUMP START2	-	BUSS BAR 24VDC BATT BOX	BUS24V-3
11-010	24VDC AUXBOX BUSS	24VDC-B1	VEC-90	VEC90-P2
11-011	24VDC AUXBOX BUSS	24VDC-B4	VEC-91	VEC91-S5A
11-012	24VDC AUXBOX BUSS	24VDC-B2	VEC-89	VEC89-S8A
11-013	24VDC ALTERNATOR	ALT_SEN	BUSS BAR 24VDC BATT BOX	BUS24V-9
11-020	LAMP LED MASTER DISCONNECT CL...	MLLON	BUSS BAR 11	SDISC-7
11-021	BUSS BAR 11	SDISC-7	RELAY MASTER DISCONNECT	MLREL
11-022	RELAY MASTER DISCONNECT	MLREL	RELAY MASTER DISCONNECT	MLREL
11-025	RELAY ENG STARTER 1 (ESREL1)	ESREL1-88	BUSS BAR 24VDC BATT BOX	BUS24V-4
11-026	BUSS BAR 24VDC BATT BOX	BUS24V-5	RELAY ENG STARTER 2 (ESREL2)	ESREL2-88
11-027	BUSS BAR 24VDC BATT BOX	BUS24V-7	24VDC ALTERNATOR	ALT (+)
11-028	SWITCH PROPEL LOCKOUT (PLOS)	PLOS-F2	RELAY 1 PROPEL LOCKOUT	PLREL
11-029	SWITCH PROPEL LOCKOUT (PLOS)	PLOS-F2	BUSS BAR 11	SDISC-6
11-030	BUSS BAR 11	SDISC-6	RELAY STARTER LOCKOUT	SLREL

WIRE LIST

NAME	DEVICE FROM	CONN FROM	DEVICE TO	CONN TO
11A-000	VEC-91	VEC91-P4	TB35	TB35-B3
11A-001	TB35	TB35-A1	RELAY VEHICLE HORN POWER (HPR)	HPR-87
11A-002	TB35	TB35-A2	-	J16
11A-003	TB35	TB35-B2	-	P240
11A-004	TB35	TB35-B4	-	P02
11A-005	-	P16	TB60	TB60-L1
11A-006	TB60	TB60-L2	-	P704
11A-007	-	J704	SWITCH REAR SERVICE LAMP (PLS)	PLS-3
11A-008	-	J240	SWITCH HYDRAULIC LAMP	HLSW-2
11A-011	RELAY VEHICLE HORN POWER (HPR)	HPR-87	RELAY VEHICLE HORN POWER (HPR)	HPR-(+)
11A-012	-	DIAG4	-	J02
11A1-000	SWITCH HYDRAULIC LAMP	HLSW-1	SP171	-
11A1-001	LAMP HYDRAULIC CABINET #1	HL1	SP171	-
11A1-002	SP171	-	LAMP HYDRAULIC CABINET #2	HL2
11AL-000	TIMER REAR SERVICE LAMP (PLT)	PLT-C	SWITCH REAR SERVICE LAMP (PLS)	PLS-2
11ALT-000	TIMER REAR SERVICE LAMP (PLT)	PLT-NO	LAMP REAR SERVICE	PL
11B1-000	12VDC CONVERTER (12VCN)	12VCN-12VB	TB24	TB24-L1
11B1-001	12VDC CONVERTER (12VCN)	12VCN-12VA	12V POWER RELAY (12VPR)	12VPR-87
11B1-002	TB24	TB24-L4	VEC-91	VEC91-P10
11B1-003	TB24	TB24-L3	INTERFACE MODULE	IM3
11B5-000	CB60	CB60-2	12VDC CONVERTER (12VCN)	12VCN-24VA
11D-000	VEC-89	VEC89-P2	TB22	TB22-A1
11D-001	TB22	TB22-A2	-	P03
11D-002	-	J03	SWITCH HEADLIGHTS	P25
11D-003	SWITCH HEADLIGHTS	P25	SWITCH HEADLIGHTS	P25
11DISP-000	VEC-91	VEC91-P2	TB23	TB23-G2
11DISP-001	TB23	TB23-G1	-	P01
11DISP-003	-	J01	ACTIA DASH DISPLAY	P903
11DSL-000	VEC-89	VEC89-P12	RELAY ACCESS LADDER LIGHT (ALL...	ALLR-88
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11E1-001	TB27	TB27-A1	-	P808
11E1-002	TB27	TB27-A3	-	P808
11E1-003	-	J808	SP112	-
11E1-004	SP112	-	-	J808
11E1-005	ENGINE QSK60 INTERFACE TIER II	P804	SP112	-
11E1-006	-	J808-	ENGINE QSK60 INTERFACE TIER I	P805-
11E2-000	TB27	TB27-B2	VEC-91	VEC91-P2
11E2-001	-	P808	TB27	TB27-B1
11E2-002	-	P808	TB27	TB27-B3
11E2-003	-	J808	SP113	-
11E2-004	SP113	-	-	J808
11E2-005	ENGINE QSK60 INTERFACE TIER II	P804	SP113	-
11E2-006	-	J808-	ENGINE QSK60 INTERFACE TIER I	P805-
11E3-000	TB27	TB27-C2	VEC-91	VEC91-P2
11E3-001	-	P808	TB27	TB27-C1
11E3-002	-	P808	TB27	TB27-C3
11E3-003	-	J808	SP114	-
11E3-004	-	J808	SP114	-
11E3-005	ENGINE QSK60 INTERFACE TIER II	P804	SP114	-
11E4-000	TB27	TB27-D2	VEC-91	VEC91-P2
11E4-001	TB27	TB27-D1	-	P808
11E4-002	ENGINE QSK60 INTERFACE TIER II	P804	-	J808
11ER-000	VEC-91	VEC91-P11	TB22	TB22-D1
11ER-001	TB22	TB22-D2	-	P03
11ER-002	TB22	TB22-D3	-	P03
11ER-003	-	J03	SP155	-
11ER-004	-	J03	SP155	-
11ER-005	-	J601	SP155	-
11FS-000	VEC-91	VEC91-P11	TB22	TB22-F1
11FS-001	TB22	TB22-F2	-	P03
11FS-002	-	J602	-	J03
11H-000	TB22	TB22-B1	RELAY VEHICLE HORN POWER (HPR)	HPR-(-)
11H-001	-	P03	TB22	TB22-B2
11H-002	-	J03	SWITCH HORN BUTTON	P120
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11HS-000	RELAY VEHICLE HORN POWER (HPR)	HPR-30	-	J12
11HS-001	-	P12	-	J540
11HS-002	-	P540	-	P503
11HS-003	-	J503	SP167	-
11HS-004	SP167	-	HORN FRONT VEHICLE	AHS
11HS-005	D1	D1	SP167	-
11IM2-000	VEC-91	VEC91-P4	INTERFACE MODULE	IM1
11INT-000	VEC-91	VEC91-P3	INTERFACE MODULE	IM1
11KS-001	-	P12	-	P536
11KS-002	-	J12	TB24	TB24-H1
11KS-003	TB24	TB24-H1	VEC-90	VEC90-P1
11KS-004	-	P03	TB24	TB24-H2
11KS-005	-	J536	SWITCH LEFT GROUND LEVEL SHUTD...	ESDS-1
11KS-006	-	J03	SWITCH KEY (KEYSW)	KEYSW-B
11KS-007	-	P11	-	P533
11KS-008	-	J11	TB24	TB24-H1
11KS-009	-	J533	SWITCH RIGHT GROUND LEVEL SHUT...	ESDSR-1
11L-000	VEC-91	VEC91-P3	TB22	TB22-C1
11L-001	TB22	TB22-C2	-	P03
11L-002	-	J03	TB10	TB10-G1
11L-003	TB10	TB10-H2	SWITCH ROTATING BEACON (OPT)	P32
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11L-005	-	J04	LAMP CAB DOME	CDL
11L-006	SWITCH HAZARD LIGHTS	P36	SWITCH HAZARD LIGHTS	P36
11L-007	TB22	TB22-C4	-	P04
11L-008	TB10	TB10-H2	SWITCH CAB LADDER LIGHT	P24
11L-009	SP732	-	SWITCH HAZARD LIGHTS	P36
11L-010	SP732	-	SWITCH HEADLIGHTS	P25
11LL-000	VEC-89	VEC89-P9	RELAY HEADLIGHT LOW MOUNT (HLM...	HLMR-(87)
11LR-000	VEC-89	VEC89-P9	RELAY HEADLIGHT HIGH MOUNT (HH...	HHMR-(87)
11M-000	VEC-91	VEC91-P4	TB32	TB32-P1
11M-001	TB32	TB32-P2	-	P02
11M-002	-	J02	-	MM/RPC
11ONS-000	-	J01	ACTIA DASH DISPLAY	P903
11ONS-001	-	P01	TB35	TB35-T1
11ONS-002	TB35	TB35-T2	INTERFACE MODULE	IM1
11ORS-000	-	J801	SWITCH ENGINE OIL RESERVE PRES...	ORPS-1
11ORS-001	-	P801	TB28	TB28-D1
11ORS-002	VEC-91	VEC91-P4	TB28	TB28-D2
11ORS-003	SWITCH ENGINE OIL RESERVE PRES...	ORPS1	-	J801-
11PF-000	RELAY ENGINE PRELUBE MAG SWITC...	PLMS-2	ENGINE PRELUBE HIGH VOLUME PUM...	PLPM-(+)
11PL-000	FUSE LINK1 (150A)	FUS-2	RELAY ENGINE PRELUBE MAG SWITC...	PLMS-1
11POR-000	-	J801	SWITCH ENGINE OIL RESERVE PRES...	ORPS-2
11POR-001	-	P801	TB28	TB28-E1
11POR-002	TB28	TB28-E2	-	J11
11POR-003	TB28	TB28-E2	-	J12
11POR-004	-	P11	-	J190
11POR-005	-	P12	-	J506
11POR-006	-	J801-	SWITCH ENGINE OIL RESERVE PRES...	ORPS2
11RB-000	SWITCH ROTATING BEACON (OPT)	P32	-	J03
11RB-001	-	P03	TB22	TB22-E1
11RB-002	TB22	TB22-E2	-	J11
11RB-003	-	J12	TB22	TB22-E4
11RB-004	TB22	TB22-E3	-	P04
11RB-005	-	P11	-	J541
11RB-006	-	J540	-	P12
11RB-007	-	P541	-	P502
11RB-008	-	P503	-	P540
11RB-009	-	J502	-	P548
11RB-010	-	P549	-	J503
11RB-011	-	J04	-	RRBB1
11RCNT-000	VEC-91	VEC91-P4	TB28	TB28-L1
11RCNT-001	TB28	TB28-L1	-	J12
11RCNT-002	-	P12	-	P505-
11RCNT-003	TB28	TB28-L1	-	J11

WIRE LIST

NAME	DEVICE FROM	CONN FROM	DEVICE TO	CONN TO
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11RWL	ACTIA DASH DISPLAY	P902	-	J01
11RWL-001	-	P01	TB35	TB35-P1
11RWL-002	TB35	TB35-P2	INTERFACE MODULE	IM1
11S-000	VEC-90	VEC90-P3	SP106	-
11S-001	SP106	-	-	J12
11S-002	SP106	-	-	J11
11S-003	-	P12	-	P536
11S-004	-	J536	SWITCH LEFT GROUND LEVEL SHUTD...	ESDS-2
11S-005	-	P11	-	P533
11S-006	-	J533	SWITCH RIGHT GROUND LEVEL SHUT...	ESDSR-2
11SL-000	VEC-91	VEC91-P4	TB24	TB24-A1
11SL-001	TB24	TB24-A1	TIMER (1HR) ENGINE SERVICE LAM...	ESLT-C
11SL-002	TB24	TB24-A1	TIMER (1HR) HYDRAULIC PUMP MOD...	HPLT-C
11SM1-000	MOTOR STARTER 1 (STRT1)	STRT1-4B	-	J801
11SM1-001	-	P801	TB28	TB28-F1
11SM1-002	TB28	TB28-F2	INTERFACE MODULE	IM3
11SM1-003	-	J801-	-	STRT1-4B-
11SM2-000	MOTOR STARTER 2 (STRT2)	STRT2-4A	-	J801
11SM2-001	-	P801	TB28	TB28-G1
11SM2-002	TB28	TB28-G2	INTERFACE MODULE	IM3
11SM2-003	-	J801-	-	STRT2-4A-
11ST-000	BUSS BAR 11ST	SDISC-4	FUSE LINK1 (150A)	FUS-1
11ST-001	BUSS BAR 11ST	SDISC-3	MOTOR STARTER 1 (STRT1)	STRT1-1A
11ST-002	BUSS BAR 11ST	SDISC-5	MOTOR STARTER 2 (STRT2)	STRT2-1A
11ST-003	MOTOR STARTER 1 (STRT1)	STRT1-1C	MOTOR STARTER 2 (STRT2)	STRT2-1B
11ST-005	BUSS BAR 11ST	SDISC-8	RELAY STARTER LOCKOUT	SLREL
11ST-006	BUSS BAR 11ST	SDISC-8	LAMP LED STARTER LOCKOUT CLOSE...	SLON
12H-000	VEC-91	VEC91-P9	TB22	TB22-G1
12H-001	TB22	TB22-G2	-	P03
12H-002	-	J03	-	P140
12V-000	12V POWER RELAY (12VPR)	12VPR-30	VEC-91	VEC91-S7A
12VREG-000	VEC-91	VEC91-P11	TB21	TB21-B1
12VREG-001	TB21	TB21-B2	-	P03
12VREG-002	TB21	TB21-B3	-	P03
12VREG-003	-	J03	SP156	-
12VREG-004	-	J03	SP156	-
12VREG-005	SP156	-	-	J601
15LFWS-000	-	P13	SENSOR LEFT FRONT WHEEL SPEED	P507
15LFWS-001	SP729	-	-	J13
15LFWS-002	SP729	-	-	P57
15LFWS-003	VEC-91	VEC91-P1	SP729	-
15LRW-000	-	P15	SENSOR LEFT REAR WHEEL SPEED	P720
15LRW-001	VEC-89	VEC89-P2	-	J15
15RFWS-000	-	P13	SENSOR RIGHT FRONT WHEEL SPEED	P501
15RFWS-001	-	J13	SP728	-
15RFWS-002	VEC-91	VEC91-P1	SP728	-
15RFWS-003	SP728	-	-	P56
15RRW-000	-	P15	SENSOR RIGHT REAR WHEEL SPEED	P721
15RRW-001	-	J15	VEC-91	VEC91-P3
15SLW-001	VEC-91	VEC91-P1	TB33	TB33-S2
15SLW-002	GE CONTROL INTERFACE	P301	TB33	TB33-S1
15SRW-001	VEC-91	VEC91-P1	TB33	TB33-M2
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15VDI-000	-	J02	GE DID PANEL	DID
15VDI-001	-	P02	TB21	TB21-T4
15VDI-002	GE CONTROL INTERFACE	P302	TB21	TB21-T1
15VDI-003	GE CONTROL INTERFACE	P302	TB21	TB21-T3
15VDI-004	TB21	TB21-T2	R17	R17
18AZ-000	-	J801	-	SPR_2
18AZ-001	-	P801	-	SPR_3
18AZ-002	-	J801-	-	SPR_1
18VIM-000	INTERFACE MODULE	IM3	TB30	TB30-W1
18VIM-001	TB30	TB30-W1	-	J14
18VIM-002	-	P14	SENSOR STEERING PRESSURE	SPS
18VIM-003	-	J16	TB30	TB30-W1
18VIM-004	-	P16	SENSOR HOIST PRESSURE #1	HPS1
18VIM-005	-	J16	TB30	TB30-W1
18VIM-006	-	P16	SENSOR HOIST PRESSURE #2	HPS2
18VIM-007	-	P240	TB30	TB30-W4
18VIM-008	SENSOR BRAKE PRESSURE	BPS	-	J240
21NSL-000	ENGINE QSK60 INTERFACE TIER II	P805	-	J808
21NSL-001	-	P808	TB27	TB27-E1
21NSL-002	ENGINE QSK60 INTERFACE TIER I	P805-	-	J808-
21NSL-003	TB27	TB27-E2	INTERFACE MODULE	IM3
21NSL-004	TB27	TB27-E4	R51	R51
21OR-000	ENGINE QSK60 INTERFACE TIER II	P805	-	J808
21OR-001	-	P808	TB27	TB27-K1
21OR-002	-	J11	TB27	TB27-K3
21OR-004	-	P11	-	P170
21OR-005	-	J12	TB27	TB27-K3
21OR-006	-	P12	-	P504
21ORR-000	ENGINE QSK60 INTERFACE TIER II	P805	-	J808
21ORR-001	-	P808	TB27	TB27-L1
21ORR-003	-	J11	TB27	TB27-L3
21ORR-004	-	P11	-	P170
21ORR-005	-	J12	TB27	TB27-L3
21ORR-006	-	P12	-	P504
21PL-000	RELAY ENGINE PRELUBE	P800	RELAY ENGINE PRELUBE MAG SWITC...	PLMS-(+)
21PL-001	D87	D87	RELAY ENGINE PRELUBE MAG SWITC...	PLMS-(+)
21PS-000	VEC-91	VEC91-P3	TB28	TB28-H1
21PS-001	TB28	TB28-H2	-	P801
21PS-002	-	J801	-	J815
21PS-003	SP108	-	-	P815
21PS-004	SWITCH ENGINE PRELUBE OIL PRES...	PLPSW	SP108	-
21PS-005	SP108	-	RELAY ENGINE PRELUBE	P800
21PS-006	-	J801-	-	J815-
21PT-000	-	P12	RELAY ENG STARTER 1 (ESREL1)	ESREL1-86
21PT-001	-	J12	TB28	TB28-J1
21PT-002	-	J801	-	J815
21PT-003	SWITCH ENGINE PRELUBE OIL PRES...	PLPSW	SP107	-
21PT-004	SP107	-	RELAY ENGINE PRELUBE	P800
21PT-005	SP107	-	RELAY ENGINE PRELUBE	P800
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21PT-012	D87	D87	SP107	-
21S-000	SWITCH KEY (KEYSW)	KEYSW-C	-	J03
21S-001	-	P03	TB22	TB22-H1
21S-002	TB22	TB22-H4	VEC-91	VEC91-P2
21S-003	TB22	TB22-H2	INTERFACE MODULE	IM2
21SL-000	VEC-91	VEC91-P4	INTERFACE MODULE	IM1
22C-000	JB41	JB41	SWITCH A/C RECIEVER DRYER T2	RECDR
22C-001	JB41	JB41	-	J808
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22C-008	JB41-	JB41-	ENGINE QSK60 INTERFACE TIER I	P806-
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22FO-002	ENGINE QSK60 INTERFACE TIER I	P806-	-	J808-
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23D-002	R3	R3	TB27	TB27-J3

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