CEBM030101

Shop Manual

930E-4SE

DUMP TRUCK

SERIAL NUMBERS **A31875 & UP**

KOMATSU®

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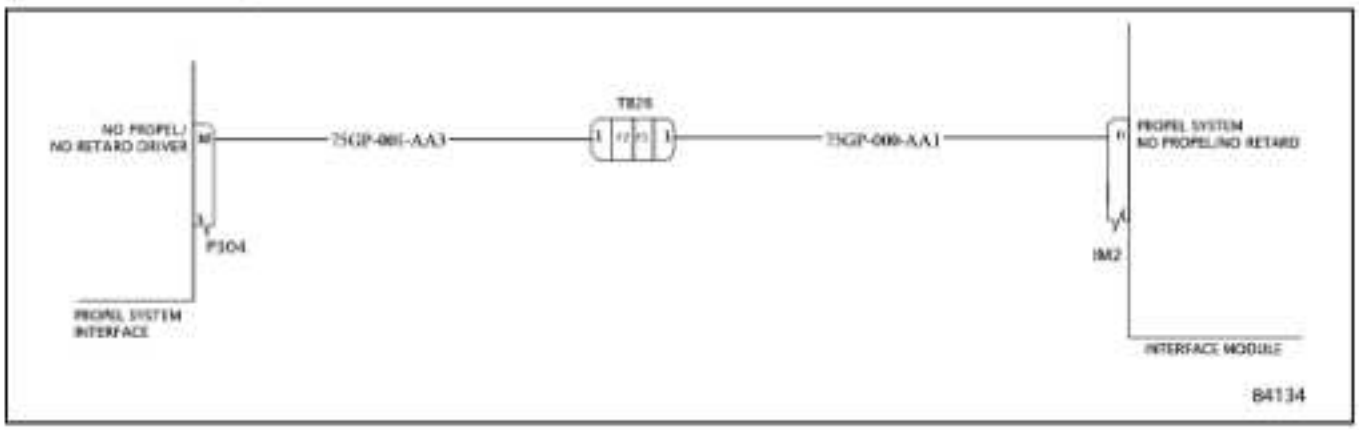
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Fault Code A124: GE has generated a no propel / no retard warning

Operator Action	Stop; Park
Fault Code	A124
Description	GE has generated a no propel / no retard warning.
Fault Conditions	Sets 0.25 sec after GE controller generates a no propel / no retard event. Resets 1 sec after GE removes the no propel / no retard event.
Operator Alerting System Response	Sound Buzzer Flash IM Warning indicator Display Operator Action: STOP; PARK Display Fault Description: NO PROPEL / RETARD Display Fault Code: A124
Resulting Problem(s)	The drive system is inoperable in both propel and retard.
Related Information	A laptop running "IM Realtime Data Monitor" software may be required to resolve this fault. A laptop running GE's PTU software may be required to resolve this fault.

Table	
1. This fault is generated by GE driving an input pin of IM to ground. 2. It may be necessary to use GE's PTU software to determine the actual cause of the propel system distress.	
Parameter	**Expected State and/or Related Fault(s)**
No Propel / Retard (IM 2n)	0: GE has generated a no propel / retard warning 1: the no propel / retard warning does not exist

Related circuit diagram



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Fault Code A358: Overload on output 1P

Operator Action	Go To Shop Now
Fault Code	A358
Description	Overload on output 1P.
Fault Conditions	Sets if driver chip detects overcurrent or overtemp on output 1P. Output is turned off when overload is detected. Resets at power down.
Operator Alerting System Response	Sound Buzzer Flash IM Warning Indicator Display Operator Action: GO TO SHOP NOW Display Fault Description: STG BLEED CKT FAULT Display Fault Code: A358
Resulting Problem(s)	The steering bleed circuit might not work properly, causing a threat to operators and mechanics.
Related Information	A laptop running "IM Realtime Data Monitor" software may be required to resolve this fault.

Table

1. This fault's logic contains just one parameter, which may have additional 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)
Steering Bleed Valve (IM 1P)	Status - Open Load: Expected with key switch on. No problem. Otherwise, unexpected. Must troubleshoot. Status - Normal: Expected only with key off and steering bleed in process. Troubleshoot if found with key on. Status - Shorted to Ground: Unexpected. Troubleshoot. Status - Overload: Unexpected. Troubleshoot. 0: steering bleed valve is off. This is expected in normal running operation. 1: steering bleed valve is on. This is expected after key off initiates steering bleed operation. Fault(s): A235, A236, A253, A262, A263

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TABLE 2. Troubleshooting Procedure		
1. Test operation of shutters.	With engine at slow idle, connect a 24 VDC power source to solenoid valve (5, Figure 19-1).	Shutters close - **GO TO STEP 11** Shutters stay open - **GO TO STEP 2**
2. Check hydraulic pressure to cylinder rod end.	Install tee fittings in lines (6) and (7). Connect 0-3 500 kPa (0-500 psi) pressure gauges to tee fittings. Disconnect electrical harness (8) from solenoid valve (5). There should be 517 kPa (75 psi) pressure in hose (7) and NO pressure in hose (6).	In Spec - **GO TO STEP 3** Out of Spec - **GO TO STEP 4**
3. Check hydraulic pressure to cylinder head end.	Connect 24 VDC power source to solenoid valve (5). There should be 517 kPa (75 psi) pressure in hose (6) and NO pressure in hose (7).	In Spec - **GO TO STEP 11** Out of Spec - **GO TO STEP 4** If nothing changed as compared to Step 2 - **GO TO STEP 7**
4. Check hydraulic pressure between pressure reducing valve (4) and solenoid valve (5).	Install hose with tee fitting between pressure reducing valve (4) and solenoid valve (5). Connect 0-3 500 kPa (0-500 psi) pressure gauge to tee fitting. Pressure should be 517 kPa (75 psi).	In Spec - **GO TO STEP 7** Out of Spec - **GO TO STEP 5**
5. Check hydraulic pressure between pressure reducing valve (3) and pressure reducing valve (4).	Install hose with tee fitting between pressure reducing valve (3) and pressure reducing valve (4). Connect pressure gauge with a 0-35 000 kPa (0-5,000 psi) range to tee fitting. Pressure should be 10 342 kPa (1,500 psi).	In Spec - **GO TO STEP 6** Out of Spec - **GO TO STEP 8**
6. Pressure reducing valve (4) is defective.	Replace pressure reducing valve (4).	**GO TO STEP 5**
7. Solenoid valve (5) is defective.	Replace solenoid valve (5).	
8. Check oil supply pressure to pressure reducing valve (2).	Install tee fitting between oil supply hose (2) and pressure reducing valve (3). Connect 0-35000 kPa (0-5000 psi) pressure gauge to tee fitting. Pressure should be 20 684 - 24 131 kPa (3,000-3,500 psi) the same as steering system standby pressure.	In Spec - **GO TO STEP 9** Out of Spec - **GO TO STEP 10**
9. Pressure reducing valve (2) is defective.	Replace pressure reducing valve (2).	**GO TO STEP 8**
10. Hydraulic supply to shutters is incorrect.	Perform troubleshooting procedures in appropriate shop manual to correct truck hydraulic system.	**GO TO STEP 8**
11. Check for proper voltage on relay board RB8.	With the key switch ON, use a V.O.M. to check for 24 VDC in circuit 712R at relay K3.	In Spec - **GO TO STEP 13** Out of Spec - **GO TO STEP 12**
12. Improper voltage on relay board RB8.	Perform troubleshooting procedures in appropriate shop manual to obtain proper voltage in circuit 712R with key switch ON.	After repair, **GO TO STEP 11**

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⚠CAUTION

Installing tubes incorrectly or in the wrong location can cause severe bends in the hose and possibly damage clamp channel welds.

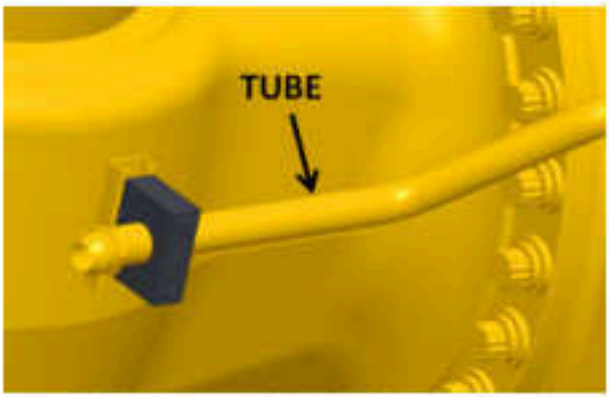


FIGURE 3-29. CLAMP LOCATIONS

7. Loosen clamp hardware and position each tube clamp near the top of the channel as shown in Figure 3-29.
8. Dimension X should be approximately 6.35 - 12.7mm (0.25 - 0.50in) as shown in Figure 3-30.

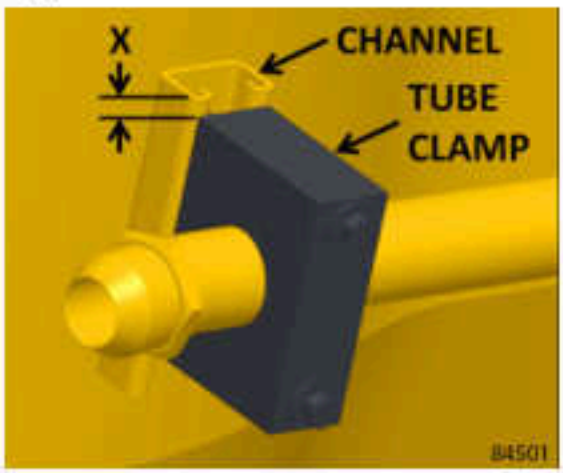


FIGURE 3-30. CLAMP POSITION

9. Tighten the clamp hardware to 10 - 12 N•m (8 - 9 ft lb).

⚠WARNING

Do not remove or service hoses while truck is running!

10. With tires in the straight position, install the brake cooling hoses. Refer to Figure 3 for correct part numbers for each location.

⚠CAUTION

Items that come in contact with the hose during operation can gouge or puncture the hose.

11. Check each hose for proper alignment. Each hose must not be kinked or twisted. Tighten each hose by holding the hose side of the fitting and turning only the fitting nut.



FIGURE 3-31. HOSE TIGHTENING

⚠CAUTION

If kinking or twisting is observed, loosen fittings and reposition hose and re-tighten. Twisting and/or kinking of the hose will lead to premature hose failure.

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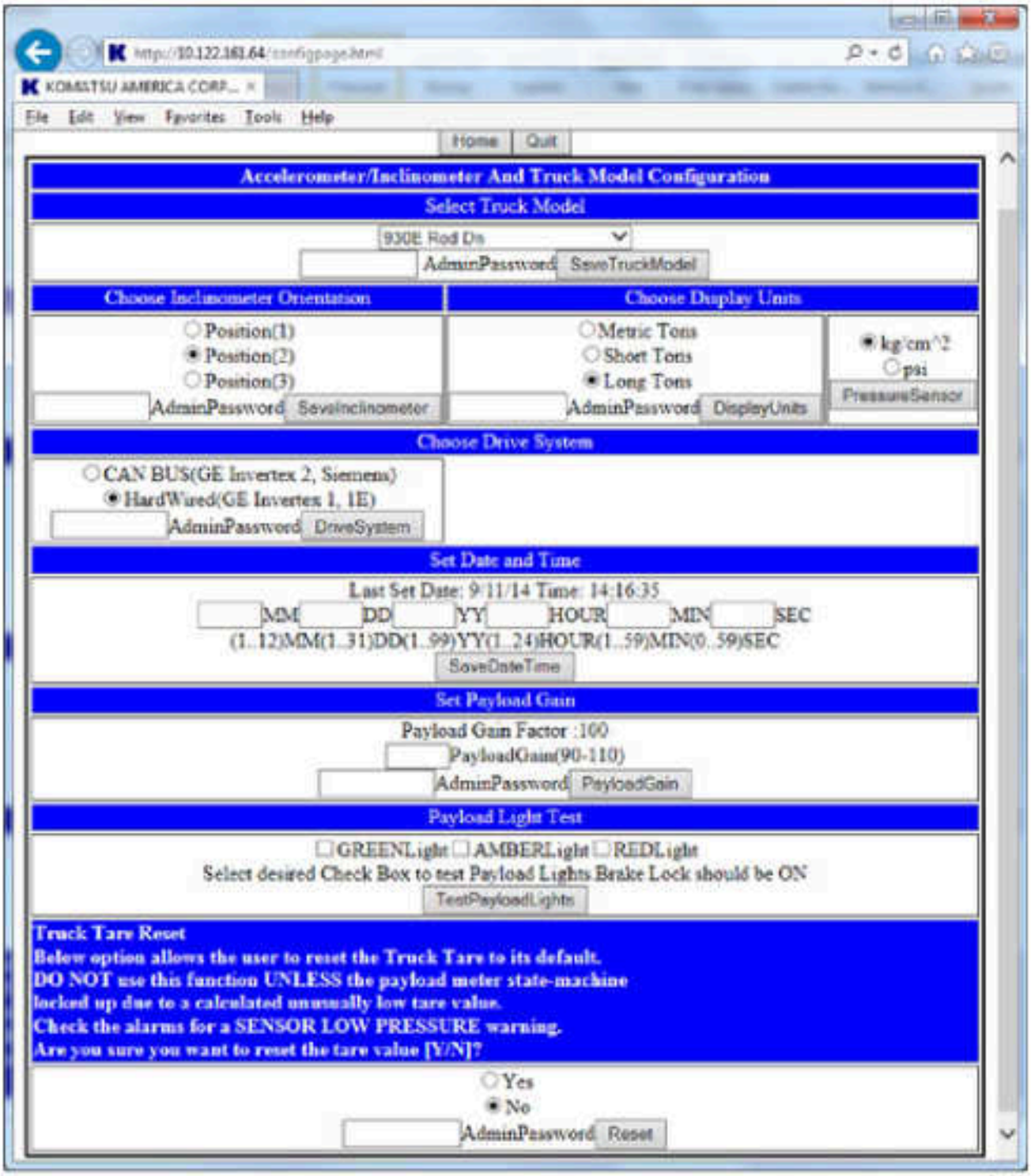


FIGURE 20-11. ACCELERATOR/INCLINOMETER AND TRUCK MODEL CONFIGURATION SCREEN

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WIRE TABLE
CONTINUED FROM DIAGRAM 20 & 22

NAME	DEVICE FROM	CONN FROM	DEVICE TO	CONN TO
15SRW-004	-	J13	SP728	-
15SRW-005	-	P13	SENSOR RIGHT FRONT WHEEL SPEED	P501
15VDI-000	-	J02	GE DID PANEL	DID
15VDI-001	-	P02	TB21	TB21-T4
15VDI-002	GE CONTROL INTE...	P302	TB21	TB21-T1
15VDI-003	GE CONTROL INTE...	P302	TB21	TB21-T3
15VDI-004	TB21	TB21-T2	R17	R17
18VIM-000	INTERFACE MODUL...	IM3	TB30	TB30-W1
18VIM-001	TB30	TB30-W1	-	J14
18VIM-002	-	P14	SENSOR STEERING PRESSURE	SPS
18VIM-003	-	J16	TB30	TB30-W2
18VIM-004	-	P16	SENSOR HOIST PRESSURE #1	HPS1
18VIM-005	-	J16	TB30	TB30-W2
18VIM-006	-	P16	SENSOR HOIST PRESSURE #2	HPS2
18VIM-007	-	P240	TB30	TB30-W4
18VIM-008	SENSOR BRAKE PR...	BPS	-	J240
21NSL-000	ENGINE QSK60 IN...	P805	-	J808
21NSL-001	-	P808	TB27	TB27-E1
21NSL-002	-	J808-	ENGINE QSK78 INTERFACE	P805-
21NSL-003	TB27	TB27-E2	INTERFACE MODULE	IM3
21NSL-004	TB27	TB27-E4	R51	R51
21OR-000	ENGINE QSK60 IN...	P805	-	J808
21OR-001	-	P808	TB27	TB27-K1
21OR-002	TB27	TB27-K3	-	J11
21OR-004	-	P11	-	P170_CP
21OR-005	-	J12	TB27	TB27-K3
21ORR-000	ENGINE QSK60 IN...	P805	-	J808
21ORR-001	-	P808	TB27	TB27-L1
21ORR-003	TB27	TB27-L3	-	J11
21ORR-004	-	P11	-	P170_CP
21ORR-005	-	J12	TB27	TB27-L3
21PL-000	RELAY ENGINE PR...	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	-	J815	-	J801
21PS-003	SP108	-	-	P815
21PS-004	SWITCH ENGINE P...	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	-	J815	-	J801
21PT-003	SWITCH ENGINE P...	PLPSW	SP107	-
21PT-004	SP107	-	RELAY ENGINE PRELUBE	P800
21PT-005	SP107	-	RELAY ENGINE PRELUBE	P800
21PT-006	-	P815	SP107	-
21PT-007	-	P801	TB28	TB28-J3
21PT-009	RELAY ENG START...	ESREL1-86	RELAY ENG STARTER 2 (ESREL2)	ESREL2-86
21PT-010	INTERFACE MODUL...	IM3	TB28	TB28-J1
21PT-011	-	J801-	-	J815-
21PT-012	D87	D87	SP107	-
21S-000	SWITCH KEY (KEY...	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	SWITCH A/C RECI...	RECDR	JB41	JB41
22C-001	JB41	JB41	-	J808
22C-002	JB41	JB41	ENGINE QSK60 INTERFACE TIER II	P806
22C-003	JB41	JB41	ENGINE QSK60 INTERFACE TIER II	P806
22C-005	-	P808	TB27	TB27-G1
22C-006	-	J808-	JB41-	JB41-
22C-007	SWITCH A/C RECI...	RECDR-T1	JB41-	JB41-
22C-008	ENGINE QSK78 IN...	P806-	JB41-	JB41-
22C-009	ENGINE QSK78 IN...	P805-	JB41-	JB41-
22FO-000	ENGINE QSK60 IN...	P806	-	J808
22FO-001	-	P808	TB31	TB31-X1
22FO-002	-	J808-	ENGINE QSK78 INTERFACE	P806-
23F-000	-	J702	TB22	TB22-L1
23F-001	TB22	TB22-L2	-	P02
23F-002	-	J02	SWITCH CAB SECONDARY ENGINE SH...	ESS_1-3
23FA-000	VEC-90	VEC90-P4	-	J702
24CAM-000	JB12B	JB12B	KOMVISION CONTROLLER	NTSC1
24CAM-001	-	JX10	CAMERA 1	CAM1
24CAM-002	-	JX11	CAMERA 2	CAM2
24CAM-003	-	JX12	CAMERA 3	CAM3
24CAM-004	JB12B	JB12B	-	PX15_CP
24CAM-005	JB12B	JB12B	-	PX14_CP
24CAM-006	JB12B	JB12B	-	PX13_CP
24CAM-007	JB12B	JB12B	-	PX12_CP
24CAM-008	JB12B	JB12B	-	PX11_CP
24CAM-009	JB12B	JB12B	-	PX10_CP
24CAM-010	-	JX13	CAMERA 4	CAM4
24CAM-011	-	JX14	CAMERA 5	CAM5
24CAM-012	-	JX15	CAMERA 6	CAM6
24SON-000	SONALERT (SONA)	SONA(+)	JB4D	JB4D
24SON-001	R16	R16	JB4D	JB4D
24SON-002	D9	D9	JB4D	JB4D
24SON-003	D10	D10	JB4D	JB4D
24VIM-000	INTERFACE MODUL...	IM1	TB32	TB32-H2
24VIM-001	TB32	TB32-H1	VEC-91	VEC91-P2
24VIM-002	TB32	TB32-H1	VEC-89	VEC89-P2
24VIM-004	ACTIA DASH DISP...	P902	-	J01
24VIM-005	TB32	TB32-G1	-	P01
24VIM-006	TB32	TB32-G4	-	P04
24VIM-007	D10	D10	-	J04
24VIM-008	TB32	TB32-H2	-	J14
24VIM-009	-	P14	SENSOR HYDRAULIC TANK LEVEL	P712
25A-000	RELAY ENG START...	ESREL1-88a	MOTOR STARTER 1 (STRT1)	STRT1-3
25B-000	RELAY ENG START...	ESREL2-88a	MOTOR STARTER 2 (STRT2)	STRT2-3
26AV-000	SP221	-	KOMVISION CONTROLLER	NTSC1
26AV-001	SP110	-	-	JX10
26AV-002	SP087	-	CAMERA 1	CAM1
26AV-003	SP110	-	SP087	-
26AV-005	SP244	-	-	PX10_CP
26AV-006	SP221	-	SP244	-
26AV1-000	KOMVISION CONTR...	NTSC1	SP186	-
26AV1-001	-	JX11	SP101	-
26AV1-002	SP089	-	CAMERA 2	CAM2
26AV1-003	SP101	-	SP089	-
26AV1-005	SP120	-	-	PX11_CP
26AV1-006	SP186	-	SP120	-
26AV2-000	KOMVISION CONTR...	NTSC1	SP188	-
26AV2-001	SP098	-	-	JX12
26AV2-002	SP086	-	CAMERA 3	CAM3
26AV2-003	SP238	-	-	PX12_CP
26AV2-004	SP098	-	SP086	-
26AV2-006	SP188	-	SP238	-
26AV3-000	KOMVISION CONTR...	NTSC1	SP190	-
26AV3-001	SP170	-	-	JX13
26AV3-002	SP080	-	CAMERA 4	CAM4
26AV3-003	SP119	-	-	PX13_CP
26AV3-004	SP170	-	SP080	-
26AV3-006	SP190	-	SP119	-
26AV4-000	KOMVISION CONTR...	NTSC1	SP225	-
26AV4-001	SP159	-	-	JX14
26AV4-002	SP079	-	CAMERA 5	CAM5
26AV4-003	SP255	-	-	PX14_CP
26AV4-004	SP159	-	SP079	-
26AV4-006	SP225	-	SP255	-
26AV5-000	KOMVISION CONTR...	NTSC1	SP227	-
26AV5-001	SP095	-	-	JX15
26AV5-002	SP126	-	CAMERA 6	CAM6
26AV5-003	SP102	-	-	PX15_CP

NAME	DEVICE FROM	CONN FROM	DEVICE TO	CONN TO
26AV5-004	SP095	-	SP126	-
26AV5-006	SP227	-	SP102	-
27LPR-000	ENGINE QSK60 IN...	P826	-	LP
27LPS-000	ENGINE QSK60 IN...	P826	-	LP
27WR-000	ENGINE QSK60 IN...	P826	-	WIF
27WS-000	ENGINE QSK60 IN...	P826	-	WIF
28E-000	VEC-91	VEC91-P12	-	J12
28E-001	-	P12	-	J542
28E-002	-	P542	-	ETHER1_CP
28E-003	-	ETHER2	SOLENOID ETHER START (OPT)	ESOL
28EC-000	VEC-91	VEC91-P12	TB27	TB27-H2
28EC-001	ENGINE QSK60 IN...	P805	-	J808
28EC-002	-	P808	TB27	TB27-H1
28EC-003	-	J808-	ENGINE QSK78 INTERFACE	P806-
29BUS-000	KOMVISION CONTR...	KVIS-B	SP005	-
29BUS-001	-	JX07	SP005	-
29BUS-002	SP005	-	-	J251X_CP
29BUS-003	-	PX07_CP	-	J02
29BUS-004	-	P02	TB25	TB25-T1
31ILM-000	INTERFACE MODUL...	IM1	TB34	TB34-N2
31IML-001	TB34	TB34-N1	-	P04
31IML-002	SONALERT (SONA)	SONA(-)	SP723	-
31IML-003	SP723	-	R16	R16
31IML-004	-	J04	SP723	-
31RR-000	-	J02	SWITCH RETARD SPEED CONTROL (R...	RSCS_2-1
31RR-001	-	P02	TB31	TB31-E2
31RR-002	GE CONTROL INTE...	P304	TB31	TB31-E1
33-000	-	J240	SWITCH PARK BRAKE SET	PBPSW
33-001	TB32	TB32-D2	-	P240
33-002	TB32	TB32-D1	INTERFACE MODULE	IM2
33BP-000	-	J240	SWITCH LOW BRAKE ACCUM PRESSUR...	LBPS
33BP-001	TB32	TB32-E2	-	P240
33BP-002	TB32	TB32-E1	INTERFACE MODULE	IM2
33BPS-000	INTERFACE MODUL...	IM3	TB30	TB30-M2
33BPS-001	-	P240	TB30	TB30-M1
33BPS-002	SENSOR BRAKE PR...	BPS	-	J240
33F-000	-	P14	SWITCH LOW STEERING PRESSURE	ACPSW
33F-001	-	J14	INTERFACE MODULE	IM2
33HP1-000	INTERFACE MODUL...	IM3	TB30	TB30-N1
33HP1-001	TB30	TB30-N1	-	J16
33HP1-002	SENSOR HOIST PR...	HPS1	-	P16
33HP2-000	TB28	TB28-K1	INTERFACE MODULE	IM3
33HP2-001	-	J16	TB28	TB28-K1
33HP2-002	-	P16	SENSOR HOIST PRESSURE #2	HPS2
33J-000	-	J14	SP800	-
33J-001	SP184	-	-	P14
33J-002	SOLENOID STEERI...	ACCBD	SP184	-
33J-003	D26	D26	SP184	-
33J-004	SP800	-	VEC-89	VEC89-P1
33J-005	R2	R2	SP800	-
33JA-000	-	P14	SWITCH STEERING BLEED PRESSURE	SABS
33JA-001	-	J14	INTERFACE MODULE	IM2
33JB-000	INTERFACE MODUL...	IM1	TB30	TB30-D1
33JB-001	TB30	TB30-D4	-	J14
33JB-002	-	P14	SP183	-
33JB-003	SOLENOID STEERI...	ACCBD	SP183	-
33JB-004	D26	D26	SP183	-
33JB-005	R19	R19	TB30	TB30-D2
33LF-000	-	P13	SENSOR LEFT FRONT WHEEL SPEED	P507
33LF-001	TB33	TB33-R2	-	J13
33LF-002	TB33	TB33-R1	GE CONTROL INTERFACE	P301
33LF-003	TB33	TB33-R4	-	P57_CP
33PG-000	-	J15	-	J702
33PG-001	-	P15	-	RRBPS_CP
33PG-002	-	J15	-	J702
33PG-003	-	P15	-	LRBPS_CP
33PLR-000	-	J15	-	J702
33PLR-001	-	P15	-	LRBPS_CP
33PRR-000	-	J15	-	J702
33PRR-001	-	P15	-	RRBPS_CP
33RF-000	-	P13	SENSOR RIGHT FRONT WHEEL SPEED	P501
33RF-001	-	J13	TB33	TB33-L2
33RF-002	GE CONTROL INTE...	P301	TB33	TB33-L1
33RF-003	TB33	TB33-L4	-	P56_CP
33RR-000	-	J02	SWITCH RETARD SPEED CONTROL (R...	RSCS_1-2
33RR-001	SWITCH RETARD S...	RSCS_1-2	SWITCH RETARD SPEED CONTROL (R...	RSCS_1-4
33RR-002	-	P02	TB31	TB31-F2
33RR-003	GE CONTROL INTE...	P303	TB31	TB31-F1
33RS-000	RETARD SPEED CO...	RSP	SWITCH RETARD SPEED CONTROL (R...	RSCS_1-1
33SBA-000	TB25	TB25-W1	GE CONTROL INTERFACE	P305
33SBA-001	TB25	TB25-W2	-	P03
33SBA-002	-	J03	SWITCH BRAKE TEST	P37
33SBA-003	SWITCH BRAKE TE...	P37	SWITCH BRAKE TEST	P37
33SP-000	INTERFACE MODUL...	IM3	TB30	TB30-T1
33SP-001	TB30	TB30-T1	-	J14
33SP-002	-	P14	SENSOR STEERING PRESSURE	SPS
33T-000	-	J240	SWITCH SERVICE BRAKE DEGRADE P...	BDS
33T-001	TB32	TB32-F2	-	P240
33T-002	TB32	TB32-F1	INTERFACE MODULE	IM2
34AT-000	-	P14	SENSOR DUCT AIR TEMPERATURE	ATS
34AT-001	-	J14	TB30	TB30-J2
34AT-002	TB30	TB30-J1	INTERFACE MODULE	IM3
34BT1-000	TB30	TB30-G2	-	J14
34BT1-001	TB30	TB30-G1	INTERFACE MODULE	IM3
34BT1-002	-	P14	SENSOR BRAKE TEMP LH FRONT	P707
34BT2-000	TB30	TB30-H2	-	J14
34BT2-001	TB30	TB30-H1	INTERFACE MODULE	IM3
34BT2-002	-	P14	SENSOR BRAKE TEMP RH FRONT	P708
34BT3-000	-	J14	TB30	TB30-C2
34BT3-001	TB30	TB30-C1	INTERFACE MODULE	IM3
34BT3-002	-	P14	SENSOR BRAKE TEMP LH REAR	P709
34BT4-000	-	P14	SENSOR BRAKE TEMP RH REAR	P710
34BT4-001	-	J14	TB30	TB30-A2
34BT4-002	TB30	TB30-A1	INTERFACE MODULE	IM3
34LL-001	INTERFACE MODUL...	IM2	-	J14
34LL-002	-	P14	SENSOR HYDRAULIC TANK LEVEL	P712
35L2-000	PAY LOAD METER ...	P264	TB36	TB36-L1
35L2-001	-	J362	TB36	TB36-L2
35L3-000	PAY LOAD METER ...	P264	TB36	TB36-M1
35L3-001	-	J362	TB36	TB36-M2
35L4-000	PAY LOAD METER ...	P264	TB36	TB36-N1
35L4-001	-	J362	TB36	TB36-N2
35L7-000	PAY LOAD METER ...	P264	TB36	TB36-R1
35L7-001	SCORE BOARD LEF...	CNLIN	TB36	TB36-R2
35L8-000	PAY LOAD METER ...	P264	TB36	TB36-S1
35L8-001	SCORE BOARD LEF...	CNLIN	TB36	TB36-S2
35L9-000	PAY LOAD METER ...	P264	TB36	TB36-T1
35L9-001	SCORE BOARD LEF...	CNLIN	TB36	TB36-T2
35L10-000	SCORE BOARD RIG...	CNRIN	SCORE BOARD LEFT (OPT)	CNLO
36-000	-	J801	-	J815
36-001	-	P801	TB28	TB28-A1
36-002	TB28	TB28-A2	VEC-90	VEC90-P9
36-003	-	J801-	-	J815-
36-004	ORS RELAY	ORS-85	TB28	TB28-A3
36-005	-	P815	SWITCH ENGINE RUN OIL PRESSURE...	EOPS
38G-000	TB35	TB35-C1	INTERFACE MODULE	IM3
38G-001	TB35	TB35-C4	-	J16
38G-002	R15	R15	TB35	TB35-C2
38G-003	-	P16	-	J730
38G-004	SENSOR FUEL LEV...	FLS	-	P730
39-000	-	J702	INTERFACE MODULE	IM2
39-001	-	J702	-	J14
39-002	-	P14	-	ATFS_CP
39A-000	PAY LOAD METER ...	P264	TB34	TB34-S1
39A-001	VEC-90	VEC90-P2	TB34	TB34-S2

NAME	DEVICE FROM	CONN FROM	DEVICE TO	CONN TO
39AA-000	VEC-90	VEC90-P3	TB23	TB23-C1
39AA-001	TB23	TB23-C1	-	J11
39AA-002	-	P11	-	P541
39AA-004	-	J541	-	P502
39AA-005	-	J502	LAMP RED PAYLOAD RIGHT	RPLR_CP
39AA-006	TB23	TB23-C1	-	J12
39AA-007	-	P12	-	P540
39AA-008	-	J540	-	P503
39AA-009	-	J503	LAMP RED PAYLOAD LEFT	LPLR_CP
39AP-000	-	J16	-	J702
39AP-001	-	P16	-	J730
39AP-002	SWITCH HYDRAULI...	HFSW1	-	P730
39AP-003	-	J702	-	J14
39AP-004	-	P14	-	ATFS_CP
39B-000	PAY LOAD METER ...	P264	TB34	TB34-R1
39B-001	VEC-90	VEC90-P2	TB34	TB34-R2
39BA-000	VEC-90	VEC90-P2	TB23	TB23-D1
39BA-001	TB23	TB23-D1	-	J11
39BA-002	-	P11	-	P541
39BA-004	-	J541	-	P502
39BA-005	-	J502	LAMP AMBER PAYLOAD RIGHT	RPLA_CP
39BA-006	TB23	TB23-D1	-	J12
39BA-007	-	P12	-	P540
39BA-008	-	J540	-	P503
39BA-009	-	J503	LAMP AMBER PAYLOAD LEFT	LPLA_CP
39C-000	PAY LOAD METER ...	P264	TB34	TB34-P1
39C-001	VEC-90	VEC90-P2	TB34	TB34-P2
39CA-000	VEC-90	VEC90-P2	TB23	TB23-E1
39CA-001	TB23	TB23-E1	-	J11
39CA-002	-	P11	-	P541
39CA-004	-	J541	-	P502
39CA-005	-	J502	LAMP GREEN PAYLOAD RIGHT	RPLG_CP
39CA-006	TB23	TB23-E1	-	J12
39CA-007	-	P12	-	P540
39CA-008	-	J540	-	P503
39CA-009	-	J503	LAMP GREEN PAYLOAD LEFT	LPLG_CP
39F-000	PAY LOAD METER ...	P264	TB36	TB36-C2
39F-001	TB36	TB36-C1	-	J13
39F-002	TB36	TB36-C1	-	J13
39F-003	SENSOR PAYLOAD ...	P152	TB61	TB61-F1
39F-004	SENSOR PAYLOAD ...	P153	TB61	TB61-F1
39F-007	-	P13	SENSOR PAYLOAD PRESSURE RIGHT ...	P150
39F-008	-	P13	SENSOR PAYLOAD PRESSURE LEFT F...	P151
39F-009	TB36	TB36-C3	-	J16
39F-011	-	P16	TB61	TB61-F2
39FA-000	TB36	TB36-E2	PAY LOAD METER 4	P264
39FA-001	TB36	TB36-E1	-	J16
39FA-002	-	P16	TB61	TB61-G2
39FA-004	SENSOR PAYLOAD ...	P153	TB61	TB61-G1
39FB-000	TB36	TB36-D2	PAY LOAD METER 4	P264
39FB-001	TB36	TB36-D1	-	J16
39FB-002	-	P16	TB61	TB61-E2
39FB-003	SENSOR PAYLOAD ...	P152	TB61	TB61-E1
39FC-000	PAY LOAD METER ...	P264	TB36	TB36-A2
39FC-001	TB36	TB36-A1	-	J13
39FC-003	-	P13	SENSOR PAYLOAD PRESSURE RIGHT ...	P150
39FD-000	PAY LOAD METER ...	P264	TB36	TB36-B2
39FD-001	TB36	TB36-B1	-	J13
39FD-003	-	P13	SENSOR PAYLOAD PRESSURE LEFT F...	P151
39G-000	VEC-90	VEC90-P2	TB34	TB34-T1
39G-001	TB34	TB34-T2	PAY LOAD METER 4	P264
39H-000	SWITCH BRAKE LO...	P39	-	J03
39H-001	-	P03	TB23	TB23-A2
39H-002	-	J702	TB23	TB23-A1
39H1-000	-	J702	TB22	TB22-X2
39H1-001	TB22	TB22-X1	PAY LOAD METER 4	P264
39HA-000	SWITCH BRAKE LO...	P39	-	J03
39HA-001	-	P03	TB23	TB23-V2
39HP-000	SWITCH HYDRAULI...	HFSW2	SWITCH HYDRAULIC FILTER #1	HFSW1
39HP1-000	-	P58_JP	-	P16
39HP1-001	-	J16	INTERFACE MODULE	IM3
39HP1-002	-	J58	SWITCH HYDRAULIC ACC FILTER	HAFSW
39SP-000	SWITCH STEERING...	SFSW	SWITCH HYDRAULIC FILTER #2	HFSW2
41H-000	SWITCH COMBO	P121	TB10	TB10-K1
41H-001	-	P03	TB34	TB34-B1
41H-002	TB34	TB34-B2	RELAY HI-BEAM HEADLIGHT (HBHR)	HBHR-86
41H-004	TB10	TB10-K1	-	J03
41H-006	TB10	TB10-K3	ACTIA DASH DISPLAY	P902
41HB-000	RELAY HI-BEAM H...	HBHR-88A	TB34	TB34-F1
41HB-001	-	J12	TB34	TB34-F2
41HB-002	-	J12	TB34	TB34-F2
41HB-003	-	J11	TB34	TB34-F4
41HB-004	-	J11	TB34	TB34-F4
41HB-005	-	J542	-	P12
41HB-006	LAMP HIGH MOUNT...	HMLHB	-	P542
41HB-007	-	J542	-	P12
41HB-008	LAMP LOW MOUNT ...	LMLHB	-	P542
41HB-009	-	J543	-	P11
41HB-010	LAMP HIGH MOUNT...	HMRHB	-	P543
41HB-011	-	J543	-	P11
41HB-012	LAMP LOW MOUNT ...	LMRHB	-	P543
41HM-000	RELAY HEADLIGHT...	HHMR-88A	-	J12
41HM-001	-	J11	RELAY HEADLIGHT HIGH MOUNT (HH...	HHMR-88A
41HM-002	-	P12	-	J542
41HM-003	LAMP HIGH MOUNT...	HMLLB	-	P542
41HM-004	-	J543	-	P11
41HM-005	LAMP HIGH MOUNT...	HMRLB	-	P543
41L-000	SWITCH HEADLIGH...	P25	TB10	TB10-L1
41L-001	TB10	TB10-L1	SWITCH COMBO	P121
41L-002	TB10	TB10-L1	-	J03
41L-004	TB34	TB34-C1	-	P03
41L-005	TB34	TB34-C2	RELAY HEADLIGHT LOW MOUNT (HLM...	HLMR-86
41L-006	RELAY HEADLIGHT...	HLMR-86	RELAY HEADLIGHT HIGH MOUNT (HH...	HHMR-86
41LM-000	RELAY HEADLIGHT...	HLMR-88A	-	J12
41LM-001	-	J11	RELAY HEADLIGHT LOW MOUNT (HLM...	HLMR-88A
41LM-002	-	P12	-	J542
41LM-003	LAMP LOW MOUNT ...	LMLLB	-	P542
41LM-004	-	P11	-	J543
41LM-005	LAMP LOW MOUNT ...	LMRLB	-	P543
41T-000	TB35	TB35-E1	VEC-89	VEC89-P11
41T-001	TB35	TB35-E2	-	J12
41T-002	TB35	TB35-E4	-	J11
41T-003	-	P12	-	P540
41T-004	-	J540	-	P503
41T-005	-	J503	SP143	-
41T-006	SP143	-	LAMP MARKER/TURN LEFT SIDE DEC...	LCL1
41T-007	SP143	-	LAMP MARKER/TURN LEFT FRT DECK	LCL2
41T-008	-	P11	-	P541
41T-009	-	J541	-	P502
41T-010	-	J502	SP146	-
41T-011	SP146	-	LAMP MARKER/TURN RIGHT FRT DEC...	RCL1
41T-012	SP146	-	LAMP MARKER/TURN RIGHT SIDE DE...	RCL2
41T-013	TB35	TB35-E4	-	J14
41T-014	-	P14	-	P732_CP
41T-015	TB35	TB35-E2	-	J16
41T-016	-	P16	SP149	-
41T-017	SP149	-	-	P731_CP
41T-018	SP149	-	TB61	TB61-M1
41T-019	LAMP STOP/TAIL ...	LRSTL	TB61	TB61-M2
41T-020	LAMP STOP/TAIL ...	RRSTL	TB61	TB61-M2
41T-021	TB61	TB61-M4	-	J54
41T-022	TB61	TB61-M4	-	P55
41T-023	-	J55	SP173	-
41T-024	LAMP BODY RIGHT...	RSCL1	SP173	-
41T-025	-	P54	SP176	-

NAME	DEVICE FROM	CONN FROM	DEVICE TO	CONN TO
41T-026	SP176	-	LAMP BODY LEFT REAR MARKER	LSCL2
41T-027	LAMP BODY LEFT ...	LSCL1	SP176	-
41T-028	LAMP BODY RIGHT...	RSCL2	SP173	-
41TS-000	SWITCH HEADLIGH...	P25	TB10	TB10-A1
41TS-001	SWITCH HEADLIGH...	P25	SWITCH HEADLIGHTS	P25
41TS-002	TB10	TB10-A3	-	J02
41TS-003	-	P02	TB34	TB34-A2
41TS-004	SWITCH LEFT WIN...	P072	JB4F	JB4F
41TS-005	TB34	TB34-A1	VEC-89	VEC89-P11
41TS-006	TB10	TB10-A4	ACTIA DISPLAY PANEL DIMMER	P18
41TS-007	SWITCH RIGHT WI...	P071	JB4F	JB4F
41TS-008	SWITCH RIGHT WI...	P071	SWITCH RIGHT WINDOW	P071
41TS-009	SWITCH LEFT WIN...	P072	SWITCH LEFT WINDOW	P072
41TS-010	TB10	TB10-A1	JB4F	JB4F
41TS-011	-	P140	JB4F	JB4F
42-000	TIMER (1HR) ENG...	ESLT-NO	TB35	TB35-M1
42-001	-	J11	TB35	TB35-M2
42-002	-	J11	TB35	TB35-M2
42-003	-	P541	-	P11
42-004	-	P541	-	P11
42-005	-	J541	LAMP RIGHT LOWER ENGINE SERVIC...	RLESL
42-006	-	J541	LAMP RIGHT UPPER ENGINE SERVIC...	RUESL
42-007	-	J12	TB35	TB35-M3
42-008	-	J12	TB35	TB35-M3
42-009	-	P540	-	P12
42-010	-	P540	-	P12
42-011	LAMP LEFT LOWER...	LLESL	-	J540
42-012	LAMP LEFT UPPER...	LUESL	-	J540
42A-001	SWITCH LEFT ENG...	LESLS-2	-	P12
42A-002	-	J12	-	J11
42A-003	-	P11	SWITCH RIGHT ENGINE SERVICE LA...	RESLS-2
42B-001	-	P12	SWITCH LEFT ENGINE SERVICE LAM...	LESLS-3
42B-002	-	J11	-	J12
42B-003	SWITCH RIGHT EN...	RESLS-3	-	P11
42PML-000	-	J14	TIMER (1HR) HYDRAULIC PUMP MOD...	HPLT-NO
42PMS-000	-	J14	TIMER (1HR) HYDRAULIC PUMP MOD...	HPLT-3
42SL-000	TIMER (1HR) ENG...	ESLT-3	-	J12
42SL-001	-	P12	SWITCH LEFT ENGINE SERVICE LAM...	LESLS-1
44-000	TB35	TB35-G1	VEC-89	VEC89-P12
44-001	TB35	TB35-G2	-	J16
44-002	TB35	TB35-G4	-	P04
44-003	-	P16	TB60	TB60-D1
44-004	TB60	TB60-D2	LAMP STOP/TAIL LEFT	LRSTL
44-005	TB60	TB60-D4	LAMP STOP/TAIL RIGHT	RRSTL
44-006	-	J04	LAMP SERVICE BRAKE OP-CAB	SBL
44D-000	TB35	TB35-H1	VEC-89	VEC89-P1
44D-001	TB35	TB35-H2	-	J16
44D-002	TB35	TB35-H4	-	P04
44D-003	-	P16	TB60	TB60-E1
44D-004	-	J04	LAMP RETARD OP-CAB	DRL
44D-005	TB60	TB60-E2	LAMP RETARD LEFT REAR	LRL
44D-006	TB60	TB60-E4	LAMP RETARD RIGHT REAR	RRL
44R-001	TB35	TB35-F4	INTERFACE MODULE	IM3
44R-003	TB35	TB35-F3	VEC-89	VEC89-P11
44R-004	-	J240	SWITCH SERVICE BRAKE PSI	SBPS
44R-005	-	P240	TB35	TB35-F1
45L-000	SWITCH COMBO	P121	TB10	TB10-J1
45L-001	TB10	TB10-J1	-	J03
45L-002	D4	D4	TB10	TB10-J1
45L-003	-	P03	TB22	TB22-P1
45L-004	TB22	TB22-P2	VEC-89	VEC89-P12
45LL-000	TB35	TB35-J1	VEC-89	VEC89-P12
45LL-001	TB35	TB35-J2	-	J12
45LL-002	-	P12	-	P540
45LL-003	-	J540	-	P503
45LL-004	-	J503	SP144	-
45LL-005	ACTIA DASH DISP...	P902	-	J01
45LL-006	-	P01	TB35	TB35-J3
45LL-007	TB35	TB35-J2	-	J14
45LL-008	TB35	TB35-J4	-	J16
45LL-009	SP144	-	LAMP MARKER/TURN LEFT SIDE DEC...	LCL1
45LL-010	SP144	-	LAMP MARKER/TURN LEFT FRT DECK	LCL2
45LL-011	-	P14	-	P732_CP
45LL-012	-	P16	TB60	TB60-H1
45LL-013	TB60	TB60-H2	-	J54
45LL-014	-	P54	SP175	-
45LL-015	LAMP BODY LEFT ...	LSCL1	SP175	-
45LL-016	SP175	-	LAMP BODY LEFT REAR MARKER	LSCL2
45LR-002	D4	D4	SWITCH HAZARD LIGHTS	P36
45LR-007	SWITCH HAZARD L...	P36	SWITCH HAZARD LIGHTS	P36
45R-000	SWITCH COMBO	P121	TB10	TB10-M1
45R-001	TB10	TB10-M1	-	J03
45R-002	SWITCH HAZARD L...	P36	TB10	TB10-M1
45R-003	-	P03	TB22	TB22-R1
45R-004	TB22	TB22-R2	VEC-89	VEC89-P12
45RL-000	TB35	TB35-K1	VEC-89	VEC89-P12
45RL-001	TB35	TB35-K2	-	J11
45RL-002	-	P11	-	P541
45RL-003	-	J541	-	P502
45RL-004	-	J502	SP145	-
45RL-005	ACTIA DASH DISP...	P902	-	J01
45RL-006	-	P01	TB35	TB35-K3
45RL-007	SP145	-	LAMP MARKER/TURN RIGHT FRT DEC...	RCL1
45RL-008	TB35	TB35-K4	-	J16
45RL-009	SP145	-	LAMP MARKER/TURN RIGHT SIDE DE...	RCL2
45RL-010	-	P16	SP148	-
45RL-011	SP148	-	-	P731_CP
45RL-012	SP148	-	TB60	TB60-A1
45RL-013	TB60	TB60-A2	-	P55
45RL-014	-	J55	SP172	-
45RL-015	LAMP BODY RIGHT...	RSCL1	SP172	-
45RL-016	LAMP BODY RIGHT...	RSCL2	SP172	-
46GA-000	TB32	TB32-A1	-	J702
46GA-001	-	P16	-	RBML_CP
46GA-002	-	J16	TB32	TB32-A2
46GA-003	-	P12	-	P540
46GA-004	-	J12	TB32	TB32-A2
46GA-005	TB32	TB32-A1	-	J11
46GA-006	-	P541	-	P11
46GA-007	-	P502	-	J541
46GA-008	-	RDML_CP	-	J502
46GA-009	-	P503	-	J540
46GA-010	-	J503	-	LDML_CP
46GA-011	-	RBML1	-	RBML2_CP
46RA-000	TB32	TB32-B1	-	J702
46RA-001	-	P16	-	RBML_CP
46RA-002	-	J16	TB32	TB32-B2
46RA-003	-	P12	-	P540
46RA-004	-	J12	TB32	TB32-B2
46RA-005	-	J11	TB32	TB32-B1
46RA-006	-	P541	-	P11
46RA-007	-	J541	-	P502
46RA-008	-	RDML_CP	-	J502
46RA-009	-	J540	-	P503
46RA-010	-	J503	-	LDML_CP
46RA-011	-	RBML1	-	RBML2_CP
46YA-000	TB32	TB32-C1	-	J702
46YA-001	-	P16	-	RBML_CP
46YA-002	-	J16	TB32	TB32-C2
46YA-003	-	P12	-	P540
46YA-004	-	J12	TB32	TB32-C2
46YA-005	-	J11	TB32	TB32-C1
46YA-006	-	P541	-	P11
46YA-007	-	J541	-	P502
46YA-008	-	RDML_CP	-	J502

NAME	DEVICE FROM	CONN FROM	DEVICE TO	CONN TO
46YA-009	-	P503	-	J540
46YA-010	-	J503	-	LDML_CP
46YA-011	-	RBML1	-	RBML2_CP
47-000	RELAY BACKUP LI...	BULR-88A	TB35	TB35-L1
47-001	TB35	TB35-L2	-	J16
47-002	TB35	TB35-L2	-	J16
47-003	-	P16	TB60	TB60-F1
47-004	-	P16	TB60	TB60-F1
47-005	TB60	TB60-F2	LAMP HID BACKUP BERM AXLE (OPT...	HIDBL_CP
47-006	TB60	TB60-F4	LAMP BACKUP RIGHT REAR	RRBL
47-007	TB60	TB60-F3	LAMP BACKUP LEFT REAR	LRBL
47-008	TB35	TB35-L3	-	J11
47-009	-	P11	-	P541
47-010	-	J541	-	P502
47-011	-	J502	LAMP BACKUP RIGHT DECK (OPT)	RBUL
47-012	TB35	TB35-L3	-	J12
47-013	-	P12	-	P540
47-014	-	J540	-	P503
47-015	-	J503	LAMP BACKUP LEFT DECK (OPT)	LBUL
47A-000	RELAY BACKUP LI...	BULR-86	VEC-89	VEC89-P11
47B-000	RELAY BACKUP LI...	BULR-88	VEC-89	VEC89-P9
47S-000	SWITCH MANUAL B...	P23	-	J03
47S-001	-	P03	TB22	TB22-T1
47S-002	TB22	TB22-T2	VEC-89	VEC89-P11
47S-003	SWITCH MANUAL B...	P23	SWITCH MANUAL BACKUP LIGHT	P23
48-000	RELAY ACCESS LA...	ALLR-88A	TB26	TB26-T1
48-001	TB26	TB26-T2	-	J11
48-002	-	J11	TB26	TB26-T2
48-003	TB26	TB26-V2	-	J12
48-004	-	J12	TB26	TB26-V2
48-005	-	J14	TB26	TB26-V2
48-006	-	J543	-	P11
48-007	-	P543	LAMP RH DIAGONAL LADDER	RDLLT_CP
48-009	-	P11	-	J543
48-010	-	P543	LAMP RH DECK	RDLT_CP
48-011	-	P12	-	J542
48-012	-	P542	LAMP LH DIAGONAL LADDER	LDLLT_CP
48-013	-	P12	-	J542
48-014	-	P542	LAMP LH DECK (OPT)	LDLT_CP
48-015	-	P14	-	P565
48-016	-	J565	SP150	-
48-017	SP150	-	LAMP CONTROL CABINET WORK LIGH...	CDL1
48-018	LAMP CONTROL CA...	CDL2	SP150	-
48A-000	SWITCH CAB LADD...	P24	-	J03
48A-001	-	P03	TB34	TB34-J1
48A-002	TB34	TB34-J2	-	J46
48A-003	-	P46	-	J535
48A-006	SWITCH CAB LADD...	P24	SWITCH CAB LADDER LIGHT	P24
48A-007	SWITCH GROUND L...	LLSW-2	-	P535
48B-000	SWITCH CAB LADD...	P24	-	J03
48B-001	-	P03	TB34	TB34-K1
48B-002	TB34	TB34-K2	-	J46
48B-003	-	P46	-	J535
48B-006	SWITCH CAB LADD...	P24	SWITCH CAB LADDER LIGHT	P24
48B-007	SWITCH GROUND L...	LLSW-3	-	P535
48C-000	TB34	TB34-L1	RELAY ACCESS LADDER LIGHT (ALL...	ALLR-86
48C-001	-	J46	TB34	TB34-L1
48C-004	-	J535	-	P46
48C-007	SWITCH GROUND L...	LLSW-1	-	P535
48F-000	SWITCH FOG LAMP...	P22	-	J03
48F-001	-	P03	TB34	TB34-E1
48F-002	TB34	TB34-E2	VEC-89	VEC89-P1
48LF-000	TB34	TB34-D1	VEC-89	VEC89-P1
48LF-001	TB34	TB34-D2	-	J11
48LF-002	TB34	TB34-D2	-	J12
48LF-003	-	P11	-	J543
48LF-004	-	P12	-	J542
48LF-005	-	P543	LAMP RIGHT FOG	RFLT
48LF-006	-	P542	LAMP LEFT FOG	LFLT
49-001	TB10	TB10-D2	ACTIA DISPLAY PANEL DIMMER	P18
49-002	ACTIA DASH DISP...	P903	TB10	TB10-D3
49-003	JB6B	JB6B	TB10	TB10-D4
49-004	JB6B	JB6B	SHIFTER DIRECTION SELECTOR	P108
49-005	R27	R27	TB10	TB10-D2
49-006	JB6B	JB6B	SWITCH CAB SECONDARY ENGINE SH...	ESS-A
49-007	JB6B	JB6B	SWITCH BODYUP OVERRIDE / RESET...	ORS-A
49-008	JB6B	JB6B	SWITCH RETARD SPEED CONTROL (R...	RSCS-A
51A1-000	-	J13	INTERFACE MODULE	IM2
51A1-001	-	P13	SWITCH ACCUMULATOR PRECHARGE P...	ACCP1-C
51A2-000	SWITCH ACCUMULA...	ACCP1-NO	SWITCH ACCUMULATOR PRECHARGE P...	ACCP2-NO
52A-000	-	J240	SWITCH PARK BRAKE RELEASE PRES...	PBRPS
52A-001	-	P240	TB32	TB32-N2
52AA2-000	INTERFACE MODUL...	IM2	-	J702
52ABA-000	INTERFACE MODUL...	IM1	TB32	TB32-S1
52ABA-001	TB32	TB32-S1	VEC RTMR1	RTMR1-F2
52B-000	VEC-90	VEC90-P9	TB32	TB32-J1
52B-001	INTERFACE MODUL...	IM2	TB32	TB32-J1
52B-002	VEC RTMR1	RTMR1-D2	TB32	TB32-J1
52B-003	TB32	TB32-J4	-	P240
52B-004	-	J240	SP160	-
52B-005	SP160	-	SOLENOID BRAKE LOCK	BLS
52B-006	SP160	-	D3	D3
52B1-000	VEC-90	VEC90-P9	TB23	TB23-B1
52B1-001	-	P03	TB23	TB23-B2
52B1-002	-	J03	SWITCH BRAKE LOCK	P39
52B1-003	SWITCH BRAKE LO...	P39	SWITCH BRAKE LOCK	P39
52C-000	-	J02	SHIFTER DIRECTION SELECTOR	P108
52C-001	-	P02	TB21	TB21-K2
52C-002	TB21	TB21-K1	-	J701
52CA-000	TB24	TB24-E2	GE CONTROL INTERFACE	P304
52CA-001	-	J701	TB24	TB24-E1
52CA-003	TB24	TB24-E4	INTERFACE MODULE	IM3
52CS-000	VEC-90	VEC90-P11	TB32	TB32-K3
52CS-001	TB32	TB32-K3	INTERFACE MODULE	IM1
52CS-002	TB32	TB32-K2	R18	R18
52CS-003	-	P240	TB32	TB32-K1
52CS-004	SOLENOID PARK B...	PBS	SP161	-
52CS-005	D2	D2	SP161	-
52CS-006	SP161	-	-	J240
52PB-000	VEC-90	VEC90-P11	TB24	TB24-B1
52PB-001	TB24	TB24-B4	-	P03
52PB-003	TB24	TB24-B2	INTERFACE MODULE	IM3
52PB-004	-	J03	RELAY HYDRAULIC LADDER PK STAT...	P263
52R-000	-	J01	RETARD CONTROL LEVER (OPT)	P237
52R-001	TB31	TB31-K2	-	P01
52R-002	TB31	TB31-K1	-	J701
52RA-000	GE CONTROL INTE...	P302	SP740	-
52RA-001	SP740	-	-	J701
52RS1-000	RELAY HYDRAULIC...	P263	-	P262_CP
52RS2-000	RELAY HYDRAULIC...	P263	-	P262_CP
53H-000	TB60	TB60-J2	SWITCH HOIST LIMIT	HLS
53H-001	-	J16	TB35	TB35-N1
53H-002	TB60	TB60-J1	-	P16
53H-003	TB35	TB35-N2	-	P240
53H-005	TB35	TB35-N1	-	J14
53H-008	SP794	-	D88	D88
53H-009	-	P14	SP794	-
53H-010	SP794	-	SOLENOID HOIST LIMIT	HS
55A-000	SWITCH DISPLAY ...	P20	-	J01
55A-001	-	P01	TB26	TB26-N1
55A-002	TB26	TB26-N2	INTERFACE MODULE	IM3
55B-000	SWITCH DISPLAY ...	P20	-	J01
55B-001	-	P01	TB26	TB26-P1
55B-002	TB26	TB26-P2	INTERFACE MODULE	IM3
55C-000	SWITCH DISPLAY ...	P21	-	J01

NAME	DEVICE FROM	CONN FROM	DEVICE TO	CONN TO
55C-001	-	P01	TB26	TB26-R1
55C-002	TB26	TB26-R2	INTERFACE MODULE	IM3
55D-000	SWITCH DISPLAY ...	P21	-	J01
55D-001	-	P01	TB26	TB26-S1
55D-002	TB26	TB26-S2	INTERFACE MODULE	IM2
62A-000	INTERFACE MODUL...	IM1	VEC-89	VEC89-P2
62SB-000	INTERFACE MODUL...	IM2	TB28	TB28-X1
62SB-001	TB28	TB28-X2	-	P02
62SB-002	-	J02	SWITCH DRIVERS SEAT BELT	P212
62SBA-000	TB32	TB32-L2	VEC-89	VEC89-P2
63-000	TB24	TB24-R2	-	P03
63-001	-	J03	TB10	TB10-E2
63-002	TB10	TB10-E1	SWITCH COMBO	P121
63-003	TB10	TB10-E1	JB6G	JB6G
63-004	JB6G	JB6G	RELAY WIPER MOTOR LOW	P09_K
63-005	JB6G	JB6G	RELAY WIPER MOTOR HIGH	P08_K
63-006	JB6G	JB6G	MOTOR WINDSHIELD WIPER	P07
63-007	JB6G	JB6G	TIMER WASHER DELAY (WADT)	WADT-2
63-008	JB6G	JB6G	TIMER WIPER DELAY	P10
63-009	VEC-91	VEC91-P10	TB24	TB24-R1
63H-000	MOTOR WINDSHIEL...	P07	RELAY WIPER MOTOR HIGH	P08_K
63H1-000	SWITCH COMBO	P121	RELAY WIPER MOTOR HIGH	P08_K
63L-000	RELAY WIPER MOT...	P09_K	MOTOR WINDSHIELD WIPER	P07
63L1-000	D15	D15	JB4H	JB4H
63L1-001	RELAY WIPER MOT...	P09_K	JB4H	JB4H
63L1-002	TIMER WASHER DE...	WADT-1	JB4H	JB4H
63L1-003	TIMER WIPER DEL...	P10	JB4H	JB4H
63L2-000	SWITCH COMBO	P121	D15	D15
63P-000	MOTOR WINDSHIEL...	P07	SWITCH COMBO	P121
63T1-000	SWITCH COMBO	P121	TIMER WIPER DELAY	P10
63W-000	-	J03	JB4C	JB4C
63W-001	SWITCH COMBO	P121	JB4C	JB4C
63W-002	TIMER WASHER DE...	WADT-6	JB4C	JB4C
63W-003	-	P03	MOTOR WINDSHIELD WASHER	WW+
65-000	VEC-91	VEC91-P12	TB24	TB24-D1
65-001	ENTERTAINMENT R...	P737	-	J211
65-002	-	P04	TB24	TB24-D2
65-003	-	P211	-	J04
65-004	SP510	-	TB24	TB24-D4
65-008	-	J607	WIRELESS BRIDGE	KWB
65-010	-	P607	-	P606
65-011	-	P607	-	P606
65-012	-	J606	SP510	-
65-013	-	J606	SP510	-
65-059	-	J607	WIRELESS BRIDGE	KWB
65A-000	VEC-91	VEC91-P12	TB24	TB24-F1
65A-001	ENTERTAINMENT R...	P737	-	J211
65A-002	-	J211	ENTERTAINMENT RADIO	P737
65A-003	TB24	TB24-F2	-	P04
65A-004	-	J04	-	P211
65C-000	SWITCH A/C RECI...	RECDR	A/C COMPRESSOR CLUTCH T2	P803
65C-003	SWITCH A/C RECI...	RECDR-T1	SOLENOID A/C COMPRESSOR CLUTCH...	P803-
65S-000	VEC-91	VEC91-P12	TB27	TB27-M2
65S-001	TB27	TB27-M1	-	P808
65S-002	ENGINE QSK60 IN...	P805	-	J808
65S-003	-	J808-	ENGINE QSK78 INTERFACE	P805-
65SR-000	VEC-91	VEC91-P12	VEC RTMR1	RTMR1-C1
65SS-000	VEC RTMR1	RTMR1-B2	-	J11
65SS-001	-	P11	-	J543
65SS-002	-	P543	-	P520_CP
65SS-003	-	J520	SOLENOID ENGINE SHUTTER (OPT)	ESSOL
65T-000	VEC RTMR1	RTMR1-A1	TB30	TB30-X2
65T-001	-	J801	SWITCH A/C RECIEVER DRYER T2	RECDR
65T-002	-	P801	TB30	TB30-X1
65T-003	TB30	TB30-X4	-	P03
65T-004	-	J03	-	P140
65T-005	-	J801-	SWITCH A/C RECIEVER DRYER T1	RECDR-T1
65TS-006	HEATED HOSE REL...	TSW-86	SP781	-
65TS-007	OIL RESERVE SYS	P503_CP	-	P11
65TS-008	-	J11	SP781	-
65TS-009	-	J12	SP781	-
67C-000	VEC-91	VEC91-P9	TB24	TB24-V1
67C-001	TB24	TB24-V2	-	P03
67C-002	TB24	TB24-V4	-	P03
67C-003	-	J03	12VDC POWER PORT #1	PWR1-1
67C-004	-	J03	12VDC POWER PORT #2	PWR2-1
67L-000	MOTOR LEFT WIND...	P059	SP779	-
67L-001	SWITCH LEFT WIN...	P072	SP779	-
67M-000	MOTOR LEFT WIND...	P059	SP778	-
67M-001	SWITCH LEFT WIN...	P072	SP778	-
67P-000	TB24	TB24-T2	VEC-91	VEC91-P9
67P-001	TB24	TB24-T1	-	P03
67P-002	TB24	TB24-T1	-	P03
67P-003	-	J03	SP135	-
67P-004	-	J03	SP135	-
67P-005	SP135	-	SWITCH LEFT WINDOW	P072
67P-006	SWITCH LEFT WIN...	P072	SP135	-
67R-000	TB24	TB24-S2	VEC-91	VEC91-P9
67R-001	TB24	TB24-S1	-	P03
67R-002	TB24	TB24-S1	-	P03
67R-003	-	J03	SP138	-
67R-004	-	J03	SP138	-
67R-005	SP138	-	SWITCH RIGHT WINDOW	P071
67R-006	SWITCH RIGHT WI...	P071	SP138	-
67S-000	MOTOR RIGHT WIN...	P058	SP782	-
67S-001	SWITCH RIGHT WI...	P071	SP782	-
67T-000	MOTOR RIGHT WIN...	P058	SP783	-
67T-001	SWITCH RIGHT WI...	P071	SP783	-
68-000	R30	R30	TB35	TB35-R4
68-001	INTERFACE MODUL...	IM1	TB35	TB35-R1
68-002	TB35	TB35-R3	-	J11
68-003	-	J511	-	P12
68-004	SOLENOID AUTO L...	ALSOL	-	P511
68-005	-	J12	TB35	TB35-R2
68ES-000	-	J11	SP785	-
68ES-001	-	J511	-	P12
68ES-002	SOLENOID AUTO L...	ALSOL	-	P511
68ES-003	SP785	-	VEC-89	VEC89-P2
68ES-004	-	J12	SP785	-
68LS-000	-	P511	SWITCH AUTOLUBE LEVEL (OPT)	P512
68LS-001	-	J511	-	P12
68LS-002	INTERFACE MODUL...	IM3	SP786	-
68LS-003	-	J12	SP786	-
68LS-004	-	J11	SP786	-
68P-000	TB60	TB60-B2	SWITCH AUTOLUBE PRESSURE	LLPS
68P-001	TB60	TB60-B1	-	P16
68P-003	-	J16	INTERFACE MODULE	IM3
69M-000	TB23	TB23-F1	VEC-89	VEC89-P1
69M-001	TB23	TB23-F2	-	J11
69M-002	TB23	TB23-F2	-	J12
69M-003	-	P11	-	P541
69M-004	-	P12	-	P540
69M-005	-	J541	-	P502
69M-006	-	J540	-	P503
69M-007	-	J502	MIRROR HEATED RIGHT DECK	MIRROR1
69M-008	-	J503	MIRROR HEATED LEFT DECK	MIRROR2
69MA-000	SWITCH HEATED M...	P33	-	J03
69MA-001	-	P03	TB28	TB28-W1
69MA-002	TB28	TB28-W2	VEC-89	VEC89-P1
71ABA-000	TB32	TB32-T1	VEC RTMR1	RTMR1-F1
71ABA-001	VEC RTMR1	RTMR1-D1	TB32	TB32-T3
71ABA-002	TB32	TB32-T1	VEC-90	VEC90-P11
71ABA-003	TB32	TB32-T2	R1	R1
71BC-000	VEC-90	VEC90-P9	TB25	TB25-V4
71BC-003	TB25	TB25-V2	-	P240

NAME	DEVICE FROM	CONN FROM	DEVICE TO	CONN TO
71BC-004	D2	D2	JB4A	JB4A
71BC-005	SOLENOID PARK B...	PBS	JB4A	JB4A
71BC-006	JB4A	JB4A	SWITCH SERVICE BRAKE PSI	SBPS
71BC-007	-	J240	JB4A	JB4A
71C-000	VEC-91	VEC91-P10	RELAY KEY/GE CNTRL PWR (KCNPR)	KCNPR-86
71CK-000	RELAY KEY/GE CN...	KCNPR-88A	TB24	TB24-N1
71CK-001	VEC-90	VEC90-S8A	VEC-89	VEC89-S6A
71CK-002	VEC-90	VEC90-S8B	TB24	TB24-N2
71CK-003	VEC-91	VEC91-P1	TB24	TB24-N3
71CK-004	VEC RTMR1	RTMR1-B9	TB24	TB24-N4
71CKM-000	VEC RTMR1	RTMR1-A9	SWITCH KOMVISION ON/OFF	KOMV-2
71CN1-000	GE CONTROL INTE...	P305	GE CONTROL INTERFACE	P304
71CN2-000	GE CONTROL INTE...	P303	GE CONTROL INTERFACE	P302
71CNCK-000	GE CONTROL INTE...	P301	GE CONTROL INTERFACE	P301
71F-000	TB35	TB35-S1	GE CONTROL INTERFACE	P301
71F-001	-	J16	TB35	TB35-S2
71F-002	TB35	TB35-S3	PAY LOAD METER 4	P264
71F-003	TB35	TB35-S4	INTERFACE MODULE	IM2
71F-004	-	P16	SWITCH BODY-UP PROXIMITY	BUSW
71GE-000	GE CONTROL INTE...	P305	TB24	TB24-G3
71GE-001	TB24	TB24-G2	VEC-91	VEC91-P10
71GE-002	INTERFACE MODUL...	IM3	TB24	TB24-G1
71GG-000	SWITCH PROPEL L...	PLOS-P1	-	J537
71GG-001	-	P537	-	P12
71GG-002	-	J12	TB25	TB25-K1
71GG-003	TB25	TB25-K2	GE CONTROL INTERFACE	P303
71GH-000	SWITCH PROPEL L...	PLOS-P2	-	J537
71GH-001	-	P537	-	P12
71GH-002	-	J12	TB25	TB25-L1
71GH-003	TB25	TB25-L2	GE CONTROL INTERFACE	P303
71H-000	GE CONTROL INTE...	P304	TB21	TB21-R1
71H-001	TB21	TB21-R2	-	P02
71H-002	SWITCH BODYUP O...	ORS_1-3	-	J02
71J-000	GE CONTROL CABL...	T19	ALTERNATOR PROPULSION DRIVE	ALT1
71LS-000	TB23	TB23-M1	VEC-89	VEC89-P4
71LS-001	TB23	TB23-M2	-	P01
71LS-002	TB10	TB10-C1	-	J01
71LS-003	TB10	TB10-C2	SWITCH FOG LAMP (OPT)	P22
71LS-004	SWITCH FOG LAMP...	P22	SWITCH FOG LAMP (OPT)	P22
71LS-005	TB10	TB10-C3	SWITCH DISPLAY MODE #2	P20
71LS-006	SWITCH DISPLAY ...	P20	SWITCH DISPLAY MODE #2	P20
71LS-007	SWITCH DISPLAY ...	P20	SWITCH DISPLAY MODE #1	P21
71LS-008	SWITCH DISPLAY ...	P21	SWITCH DISPLAY MODE #1	P21
71LS-011	TB10	TB10-C2	SWITCH ROTATING BEACON (OPT)	P32
71LS-012	SWITCH ROTATING...	P32	SWITCH ROTATING BEACON (OPT)	P32
71LS-013	SWITCH HEATED M...	P33	SWITCH ROTATING BEACON (OPT)	P32
71LS-014	SWITCH HEATED M...	P33	SWITCH HEATED MIRROR	P33
71LS-015	SWITCH HEATED M...	P33	SWITCH HEATED MIRROR	P33
71P-000	TB23	TB23-J4	VEC-89	VEC89-P2
71P-001	TB23	TB23-J3	-	P03
71P-002	SWITCH DATA STO...	DSSW-C	JB4B	JB4B
71P-003	SWITCH BODYUP O...	ORS_1-4	JB4B	JB4B
71P-004	SWITCH RETARD S...	RSCS_2-2	JB4B	JB4B
71P-005	TB23	TB23-J2	-	J16
71P-006	-	J02	JB4B	JB4B
71P-007	TB23	TB23-J1	-	P03
71P-008	-	J03	SWITCH DC POWER OFF - REST SWI...	P35
71P-009	SWITCH GRID DRY	P34	SWITCH DC POWER OFF - REST SWI...	P35
71P-010	-	P16	SP180	-
71P-011	SP180	-	TB61	TB61-H1
71P-012	SP180	-	SWITCH BODY-UP PROXIMITY	BUSW
71P-013	TB61	TB61-H2	-	P703
71P-014	-	J703	SWITCH TRACTION MOTOR PRESSURE...	BPSW-COM
71PS-000	LAMP LED PROPEL...	PLON	SWITCH PROPEL LOCKOUT (PLOS)	PLOS-B2
71PS-001	RELAY PROPEL LO...	PLREL_K	SWITCH PROPEL LOCKOUT (PLOS)	PLOS-B2
71SR-000	SHIFTER CURRENT...	P250	SHIFTER DIRECTION SELECTOR	P108
71SS-000	TB23	TB23-T2	VEC-89	VEC89-P4
71SS-001	TB23	TB23-T1	-	P02
71SS-002	-	J02	SHIFTER CURRENT LIMIT RESISTOR	P250
71VHM-000	TB28	TB28-B2	VEC-90	VEC90-P1
71VHM-001	TB28	TB28-B1	-	P04
71VHM-002	-	J04	SP187	-
71VHM-003	KOMTRAX PLUS MO...	P1	SP187	-
71VHM-004	SP187	-	KOMTRAX PLUS MODULE	P1
72-000	-	J02	SHIFTER DIRECTION SELECTOR	P108
72-001	-	P02	TB21	TB21-N2
72-002	VEC-90	VEC90-P1	TB21	TB21-N3
72-003	TB21	TB21-N1	-	J701
72A-000	GE CONTROL INTE...	P304	TB21	TB21-E1
72AF-000	-	J701	GE CONTROL INTERFACE	P304
72AT-000	INTERFACE MODUL...	IM2	TB33	TB33-A2
72CPU-000	TB24	TB24-W1	-	P808
72CPU-001	TB24	TB24-W2	GE CONTROL INTERFACE	P302
72CPU-002	-	J808-	ENGINE QSK78 INTERFACE	P806-
72CPU-003	TB24	TB24-W3	INTERFACE MODULE	IM2
72FD-000	TB29	TB29-R1	VEC-90	VEC90-P9
72FD-001	GE CONTROL INTE...	P302	TB29	TB29-R2
72FNR-000	VEC-90	VEC90-P12	TB24	TB24-M1
72FNR-001	TB24	TB24-M2	INTERFACE MODULE	IM2
72GD-000	TB23	TB23-S1	GE CONTROL INTERFACE	P305
72GD-001	-	P03	TB23	TB23-S2
72GD-002	-	J03	SWITCH GRID DRY	P34
72GD-003	SWITCH GRID DRY	P34	SWITCH GRID DRY	P34
72HC-000	PAY LOAD METER ...	P264	PLM4 COMMUNICATION BOX	COMMB
72MAN-000	INTERFACE MODUL...	IM2	TB33	TB33-B2
72N-000	-	J02	SHIFTER DIRECTION SELECTOR	P108
72N-001	-	P02	TB21	TB21-M2
72N-002	VEC-90	VEC90-P1	TB21	TB21-M1
72RQ-000	D70	D70	-	J537
72RQ-001	-	P537	-	P12
72RQ-002	-	J12	TB23	TB23-K4
72RQ-003	TB23	TB23-K1	GE CONTROL INTERFACE	P304
72RQ-004	TB23	TB23-K2	-	P03
72RQ-005	-	J03	D71	D71
72RR-000	D71	D71	SWITCH DC POWER OFF - REST SWI...	P35
72RR-001	SWITCH DC POWER...	P35	SWITCH DC POWER OFF - REST SWI...	P35
72RRQ-000	LAMP LED PROPEL...	PLLO	RELAY PROPEL LOCKOUT	PLREL_K
72RRQ-001	RELAY PROPEL LO...	PLREL_K	D70	D70
72SBT-000	TB25	TB25-X1	GE CONTROL INTERFACE	P305
72SBT-001	TB25	TB25-X2	-	P03
72SBT-002	SWITCH BRAKE TE...	P37	-	J03
72T-000	-	J02	SHIFTER DIRECTION SELECTOR	P108
72T-001	TB21	TB21-P2	-	P02
73DS-000	GE CONTROL INTE...	P304	TB21	TB21-S1
73DS-001	TB21	TB21-S2	-	P02
73DS-002	-	J02	SWITCH DATA STORE (DSSW)	DSSW-NO
73DS-003	TB21	TB21-S4	-	P04
73DS-005	KOMTRAX PLUS MO...	P3B	-	J04
73S-000	TB22	TB22-J2	D72	D72
73S-002	-	P240	TB22	TB22-J2
73S-003	-	J240	SWITCH PARK BRAKE RELEASE PRES...	PBRPS
73S-004	TB22	TB22-J1	-	J46
73S-005	-	P538_JP	-	P46
73S-006	POWER LADDER CO...	P7	-	J538
73S1-000	VEC-90	VEC90-P3	TB32	TB32-M1
73S1-001	TB32	TB32-M1	INTERFACE MODULE	IM2
73S1-002	D72	D72	TB32	TB32-M2
74D-000	GE CONTROL CABL...	T20	ALTERNATOR PROPULSION DRIVE	ALT2
74DS-000	KOMTRAX PLUS MO...	P1	-	J04
74DS-001	-	P04	TB25	TB25-M2
74DS-002	TB25	TB25-M1	INTERFACE MODULE	IM2
74HB-000	PAY LOAD METER ...	P264	PLM4 COMMUNICATION BOX	COMMB
74LA-000	PAY LOAD METER ...	P264	PLM4 COMMUNICATION BOX	COMMB
74N-000	-	J01	RETARD CONTROL PEDAL	P235
74N-001	TB31	TB31-R2	-	P01

NAME	DEVICE FROM	CONN FROM	DEVICE TO	CONN TO
74N-002	-	J701	TB31	TB31-R1
74NA-000	GE CONTROL INTE...	P302	SP739	-
74NA-001	SP739	-	-	J701
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