CEAM015001

Operation & Maintenance Manual

830E

DUMP TRUCK

SERIAL NUMBERS **A30733 - A30815**

KOMATSU®

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SECTION A

GENERAL INFORMATION

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AFTER STARTING THE ENGINE

1. Become thoroughly familiar with steering and emergency controls. After the engine has been started and low pressure and warning systems are normal, test the truck steering in extreme right and left directions. If the steering system is not operating properly, shut the engine off, immediately. Determine the steering system problem and have repaired before resuming operation.
2. Operate each of the truck's brake circuits at least twice prior to operating and moving the truck. These circuits include individual activation from the operator's cab of the service brake, parking brake, and brake lock. With the engine running and with the hydraulic circuit fully charged, activate each circuit, individually. If any application or release of any brake circuit appears sluggish or improper, or if warning alarms are activated on application or release, shut the engine off and notify maintenance personnel. DO NOT operate the truck until the brake circuit in question is fully operational.
3. Check the gauges, warning lights and instruments before moving the truck to ensure proper system operation and proper instrument functioning. Pay special attention to braking and steering circuit hydraulic warning lights. If warning lights come on, shut off the engine immediately and determine the cause.
4. Ensure the headlights, work lights and taillights are in proper working order. Good visibility may prevent an accident. Check operation of the windshield wipers

Additional Guidelines

1. When the truck body is raised, DO NOT allow anyone beneath it unless the body-up retaining cable is in place.
2. DO NOT use the fire extinguisher for any purpose other than putting out a fire! If an extinguisher is discharged, report the occurrence so the used unit can be refilled or replaced.
3. DO NOT allow unauthorized personnel to ride in the truck. DO NOT allow anyone to ride on the ladder or outside of the truck cab. Passengers must be belted into the passenger seat during travel.
4. DO NOT leave the truck unattended while the engine is running. Shut the engine off and apply the parking brake before getting out of the cab.

MACHINE OPERATION SAFETY PRECAUTIONS

After the truck engine is started and all systems are functioning properly, the operator must follow all local safety rules to ensure safe machine operation.

⚠WARNING

If any of the red warning lights come on or if any gauge reads in the red area during truck operation, a malfunction is indicated. Stop the truck as soon as safety permits, and shut down the engine. Have the problem corrected before resuming truck operation.

⚠WARNING

The truck is equipped with "slip/slide" control. If this function should become inoperative, operating the truck with stalled or free spinning wheel motors may cause serious damage to wheel motors! If the truck does not begin to move within 10 seconds after depressing throttle pedal (selector switch in a drive position), release throttle pedal and allow wheels to regain traction before accelerating again.

1. Always look to the rear before reversing the truck. Watch for, and obey ground spotter's hand signals before traveling in reverse. Sound the horn (3 blasts). The spotter should have a clear view of the total area at the rear of the truck.
2. Operate the truck only while properly seated with seat belt fastened. Keep hands and feet inside the cab compartment while the truck is in operation.
3. Check gauges and instruments frequently during operation for proper readings.
4. Observe all regulations pertaining to the job site's traffic patterns. Be alert to any unusual traffic patterns. Obey the spotter's signals.
5. Match the truck speed to haul road conditions and slow the truck in congested areas. Keep a firm grip on the steering wheel at all times.
6. DO NOT allow the engine to run at idle for extended periods of time.

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23. After the brake assembly is properly positioned on the adapter and the four capscrews are snug, remove the alignment studs.

    Remove socket head capscrews (34) securing seal retainer (37) to brake assembly (18).

    Install the remaining brake adapter/brake assembly mounting capscrews (20) and hardened flatwashers (21). Tighten the capscrews to **1995 ± 100 ft. lbs. (2705 ± 136 N.m)**.

24. Install bearing retainer pin (40) in groove in spindle. Align and slide outer bearing cone (7) over pin. Lubricate the bearing with clean hydraulic oil.

25. Install shim pack (8), retainer (13), capscrews (11), and washers (12). Tighten the capscrews alternately in several successive increments while rotating the hub. Final torque is **750 ± 75 ft. lbs. (1017 ± 100 N.m)**.

26. Install a new O-ring (41) on cover (5). Install the cover, capscrews, and washers. Tighten the capscrews to standard torque.

Seal Assembly Gap Check

After the assembly of the wheel and brake is complete, the gap between seal carrier (3, Figure 3-7) and the brake assembly back plate (6) must be measured and adjusted if necessary.

The ideal gap is 0.433 in (11.0 mm). If necessary, the gap must be adjusted, using shims as required to maintain a **minimum** gap of 0.423 in (10.75 mm) to 0.443 in (11.25 mm) **maximum**.

27. Measure seal gap as follows:

    a. Measure gap, dimension "A", Figure 3-7 at three, equally spaced places and record the results.

    b. Add the three dimensions and divide the result by 3 to obtain the average gap width

28. If average gap width is not between the minimum and maximum allowable range, loosen the seal retainer capscrews (4, Figure 3-6) and add shims (5) as required to **reduce** the gap or remove shims to **increase** the gap. **The quantity and thickness of shims at each of the six locations must be equal.**

29. Re-tighten seal retainer capscrews to standard torque and measure gap as described in Step 28. If necessary, repeat Step 29 until the proper gap is maintained.

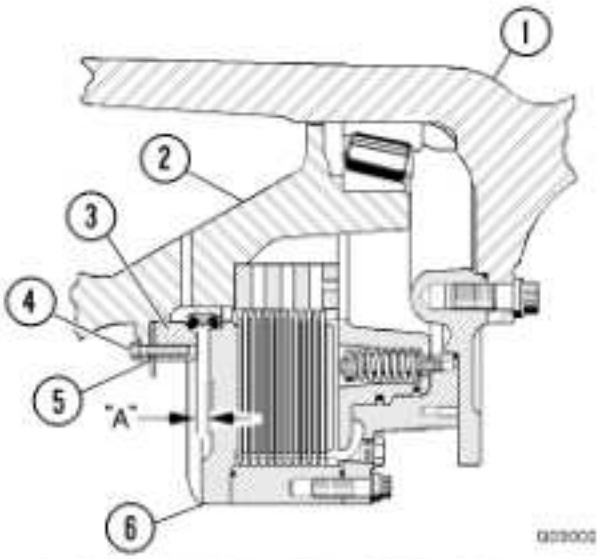


FIGURE 3-7. MEASURING SEAL GAP

1. Spindle
2. Wheel Hub
3. Seal Carrier
4. Capscrews
5. Shims
6. Brake Back Plate

30. Install speed sensor(s) (16, Figure 3-6) in support bracket(s) (17). Adjust sensor gap as follows:

    a. Rotate hub to position the top of a gear tooth directly under the sensor tip.

    b. Insert a 0.060 in (1.5 mm) feeler gauge between sensor tip and gear tooth. Loosen and adjust sensor clearance.

    c. Lock the sensor in place.

    d. Rotate hub 180° and verify clearance remains within 0.040 in (1.0 mm) minimum to 0.080 in (2.0 mm) maximum.

31. Install speed sensor cables.

32. Install hub and spindle assembly on suspension per instructions in Installation.

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HOIST CIRCUIT FILTER

The hoist circuit filters (Figure 9-1) are located at the back of the fuel tank below the right frame rail. The filter provides secondary filtering protection for hydraulic oil flowing to the hoist valve and hoist circuit components.

An indicator switch (5) is designed to alert the operator of filter restriction before actual bypass occurs. The switch contacts close at 35 psid (240 kPa) to actuate a warning lamp on the overhead display panel. Actual filter bypass occurs at 50 psid (345 kPa).

NOTE: When the engine is initially started and the hydraulic oil is cold, the warning lamp may illuminate. Allow the hydraulic system oil to reach operating temperature before using the warning lamp as an indicator to change the element.

Refer to Section P, Lubrication and Service, for recommended normal filter element replacement interval. Earlier replacement may be required if the restriction indicator lamp turns on.

Premature filter restriction may indicate a system component failure and signal a service requirement before extensive secondary damage can occur.

NOTE: An early indication of the filter warning light at first installation may be due to restriction in the filter as it cleans the system. Unless the fluid appears contaminated or has a strong foul odor, do not change the oil; replace only the filter element.

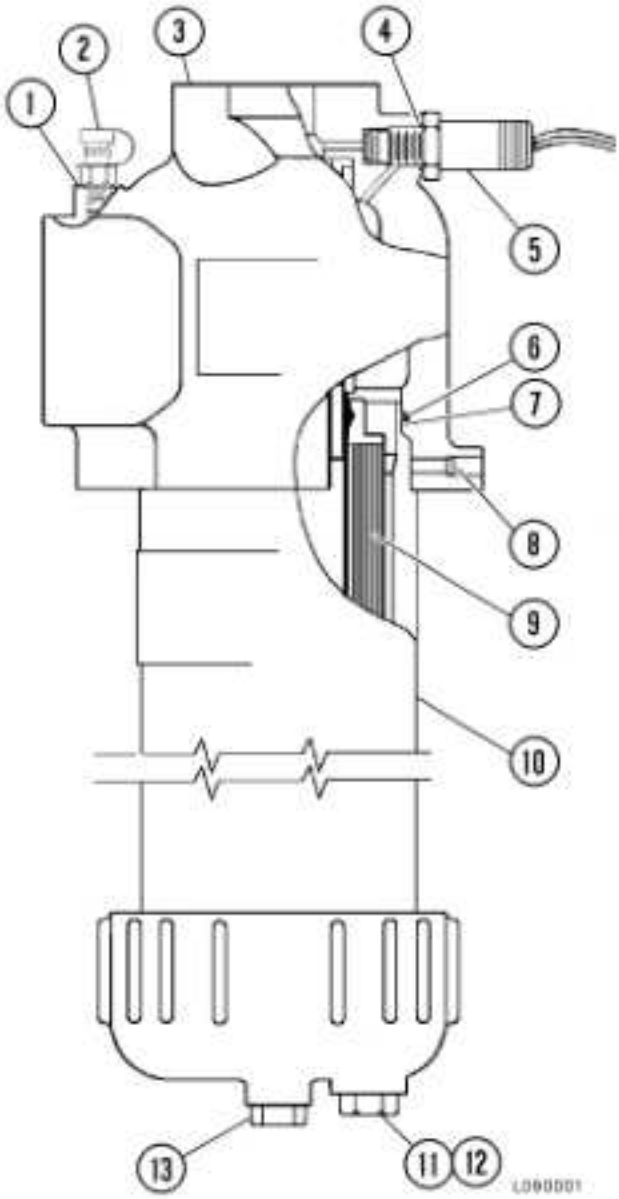


FIGURE 9-1. HOIST CIRCUIT FILTER

1. O-Ring
2. Pressure Tap
3. Filter Head
4. O-Ring
5. Indicator Switch
6. O-Ring
7. Backup Ring
8. Set Screw
9. Filter Element
10. Bowl
11. Drain Plug
12. O-Ring
13. Bottom Plug

Filter Element Replacement

⚠WARNING

Relieve pressure before disconnecting hydraulic and lines. Tighten all connections before applying starting the machine.

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 injury is not received immediately.

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COMPONENT	SHEET	LOC
11CR - 3.3K RESISTOR	03	E13
12CR - 3.3K RESISTOR	03	E13
A/C COMPRESSOR CLUTCH	10	A17
A3PV - ALT OUT 3 PHASE VOLT MEASURE	02	D7
ACCELERATOR PEDAL	08	B2
AF - ALTERNATOR FIELD (INPUT)	02	B5
AFSE - ALT FLD STATIC EXCITER	02	C2
AFSE - ALT FLD STATIC EXCITER	07	D5
AFVLT - ALT FIELD VOLTAGE MEASURE MODULE	02	B3
AID	07	E3
AID	08	C4
AID	09	B1
AID	09	B6
AID	09	C12
AID	09	C14
AID	09	C3
AID	09	D10
AID	09	D11
AID	09	D16
AID	09	D8
AID	10	A2
AID	10	B2
AID	10	C2
AID	10	D6
AID	10	F11
AIR - SEAT SYSTEM	10	D16
ALARM HORN	09	B3
ALT - ALTERNATOR STATOR (OUTPUT)	02	B6
ALT - ALTERNATOR AMBIENT TEMP SENSOR	08	A5
ALT SPD SNSR - ENGINE SPD SENSOR IN ALT	05	B5
AUXILIARY BATTERY CHARGE CONNECTOR	07	B9
AUXILIARY BLOWER MOTOR	03	B11
AUX-BLOWER COMM.	08	D4
AUXILIARY FAN 1	03	B11
AXCAP - AUXILIARY INVERTER CAPACITORS	03	A6
AXFU1 - AUXILIARY INVERTER INPUT FUSE	03	A2
AXFU2 - AUXILIARY INVERTER INPUT FUSE	03	B2
AXIND - AUXILIARY INVERTER INDUCTOR	03	A4
AXINV - AUXILIARY INVERTER	03	B8
AXINV - AUXILIARY INVERTER RECTIFIER	03	B3
BAROMETRIC PRESSURE SENSOR	08	B10
BATFU - ELECTRIC CABINET 24V FUSE	07	C2
BATTERY BOX	02	C12
BATTERY CHARGING ALTERNATOR	07	B6
BATTERY, CONTROL	02	C3
BATTERY, CONTROL	07	A8
BATTERY, CONTROL	07	D1
BATTERY, CONTROL	10	G13
BATTERY, CONTROL, VOLTAGE MEASURE	08	B8
BATTERY, CRANKING	07	B8
BATTERY, CRANKING	10	F13
BATTERY, CRANKINK, VOLTAGE MEASURE	08	B9
BATTERY SEPARATE RELAY	07	A6
BATTERY SEPARATE RELAY	10	G12
BLFP - PSC BATTERY SUPPLY FILTER PANEL	07	C6
BRAKE LOCK SOLENOID	10	D2
BRAKE WARNING DELAY TIMER	10	C1
BRAKE WARNING RELAY	10	D2
BUZZER, BRAKE WARNING	09	C13
CB 00 - 12 VOLT SUPPLY (BATTERY BOX)	10	E14
CB 1 - FAN CLUTCH POWER	06	B2
CB 2 - ECM MAIN POWER	06	B2
CB 3 - ECM MAIN POWER	06	B3
CB 4 - ECM REC. POWER	06	B3
CB 5 - ECM REC. POWER	06	B3
CB 06 - ENGINE SERVICE LIGHTS	10	C14
CB 07 - LINCOLN LUBE CONTROL TIMER & SOL	10	D5
CB 08 - HOIST LIMIT SOLENOID	10	B1
CB 13 - CLEARANCE LIGHTS RB1	10	B11
CB 13 - CLEARANCE LIGHTS RB1	10	E8
CB 14 - TURN SIGNAL LIGHTS RB1	10	B12
CB 14 - TURN SIGNAL LIGHTS RB1	10	E9
CB 15 - TAIL LIGHTS RB1	07	F4
CB 15 - TAIL LIGHTS RB1	10	E9
CB 16 - RETARD LIGHTS RB3	09	A15
CB 16 - RETARD LIGHTS RB3	10	G9
CB 17 - MANUAL BACKUP LIGHTS RB3	09	C16
CB 17 - MANUAL BACKUP LIGHTS RB3	10	G9
CB 18 - STOP LIGHTS (RB3)	07	E4
CB 18 - STOP LIGHTS (RB3)	10	G9
CB 19 - BACKUP LIGHTS AND HORN (RB3)	09	C16
CB 19 - BACKUP LIGHTS AND HORN (RB3)	10	G9
CB 20 - PRK BRK FAIL REL (RB4)& ENG WARN IND	09	B3
CB 20 - PRK BRK FAIL REL (RB4)& ENG WARN IND	10	G11
CB 21 - STEER BLEED TIMER, HORN REL (RB4)	10	E2
CB 21 - STEER BLEED TIMER, HORN REL (RB4)	10	G11
CB 22 -		
CB 22 -		
CB 23 - HEADLIGHTS, LEFT LOW BEAM (RB5)	10	C7
CB 23 - HEADLIGHTS, LEFT LOW BEAM (RB5)	10	E11
CB 24 - HEADLIGHTS, RIGHT LOW BEAM (RB5)	10	C7
CB 24 - HEADLIGHTS, RIGHT LOW BEAM (RB5)	10	E11
CB 25 - HEADLIGHTS, LEFT HIGH BEAM (RB5)	10	B7
CB 25 - HEADLIGHTS, LEFT HIGH BEAM (RB5)	10	E11
CB 26 - HEADLIGHTS, RIGHT HIGH BEAM (RB5)	10	B7
CB 26 - HEADLIGHTS, RIGHT HIGH BEAM (RB5)	10	E11
CB 27 - HDLGHT SW, LIGHT REL COILS (RB5)	07	F7
CB 27 - HDLGHT SW, LIGHT REL COILS (RB5)	10	E11
CB 28 - PAYLOAD METER LIGHTS (RB2)	10	F9
CB 28 - PAYLOAD METER LIGHTS (RB2)	10	G5
CB 29 - PAYLOAD METER SUPPLY (RB2)	10	F5
CB 29 - PAYLOAD METER SUPPLY (RB2)	10	F9
CB 30 - FOG, LADDER, DECK LIGHTS (CAB)	10	E13
CB 30 - HAZARD SWITCH	10	A14
CB 31 - CAB HEATER (CAB)	10	C15
CB 32 - AID & INDICATOR LIGHTS (CAB)	07	E1
CB 32 - AID & INDICATOR LIGHTS (CAB)	09	A1

COMPONENT	SHEET	LOC
CB 36 - CIGARETTE LIGHTER (CAB)	10	F15
CB 37 - WINDSHIELD WIPER (CAB)	10	C15
CB 38 - GAUGES (CAB)	10	D15
CB 40A - 12 VOLT COMPUTER PLUG (CAB)	10	F15
CB 40B - RADIO (CAB)	10	E15
CB 41A - LEFT WINDOW MOTOR (CAB)	10	E15
CB 41B - RIGHT WINDOW MOTOR (CAB)	10	F15
CB 42 - SEAT AIR PUMP (CAB)	10	D15
CB 43 - START REQUEST (CAB)	07	A2
CCL1 - CAPACITOR CHARGED LIGHT	02	A11
CCL2 - CAPACITOR CHARGED LIGHT	02	C11
CCLR1 - CAPACITOR CHARGED LIGHT RESISTOR	02	A10
CCLR2 - CAPACITOR CHARGED LIGHT RESISTOR	02	C10
CIF11 - CAPACITOR, INVERTER 1	02	F9
CIF12 - CAPACITOR, INVERTER 1	02	F11
CIF13 - CAPACITOR, INVERTER 1	02	F11
CIF14 - CAPACITOR, INVERTER 1	02	F13
CIF15 - CAPACITOR, INVERTER 1	02	F13
CIF16 - CAPACITOR, INVERTER 1	02	F15
CIF21 - CAPACITOR, INVERTER 2	02	E1
CIF22 - CAPACITOR, INVERTER 2	02	E3
CIF23 - CAPACITOR, INVERTER 2	02	E3
CIF24 - CAPACITOR, INVERTER 2	02	F5
CIF25 - CAPACITOR, INVERTER 2	02	F5
CIF26 - CAPACITOR, INVERTER 2	02	F7
CIGARETTE LIGHTER	10	F16
CM1 - CHOPPER MODULE 1	02	C13
CM1 - CHOPPER MODULE 1 GATE DRIVER	04	A17
CM1 - CHOPPER MODULE 1 GATE DRIVER	04	D16
CM1A - CURRENT MEASURE PHASE A LEFT MTR	02	E12
CM1A - CURRENT MEASURE PHASE A LEFT MTR	05	A7
CM1B - CURRENT MEASURE PHASE B LEFT MTR	02	E14
CM1B - CURRENT MEASURE PHASE B LEFT MTR	05	A9
CM2 - CHOPPER MODULE 2	02	C15
CM2 - CHOPPER MODULE 2 GATE DRIVER	04	A6
CM2A - CURRENT MEASURE PHASE A RIGHT MTR	02	E4
CM2A - CURRENT MEASURE PHASE A RIGHT MTR	05	C7
CM2B - CURRENT MEASURE PHASE B RIGHT MTR	02	E6
CM2B - CURRENT MEASURE PHASE B RIGHT MTR	05	C9
CMAF - CURRENT MEASURE ALT FIELD	02	C4
CMAF - CURRENT MEASURE ALT FIELD	05	B13
CMTA - CURRENT MEASURE TERTIARY ALT	02	A4
CMTA - CURRENT MEASURE TERTIARY ALT	05	B14
CONTACTOR, 5 MINUTE IDLE SHUTDOWN DELAY	10	D14
COOLANT LEVEL SWITCH	06	F4
CPR - CONTROL POWER REL COIL - ELEC CAB	07	B5
CPR - CONTROL POWER REL CONTACTS ELEC CAB	07	C4
CPRD - CONTROL POWER RELAY DIODES	07	B4
CPSP - CAPACITOR PRESSURE SENSING PANEL	03	F6
CT - CURRENT TRANSFORMER (BATT BOOST)	02	B1
DB1 - 20 OHM	06	C1
DB1 - DIODES D5,D7,D10,D11	09	C10
DB1 - DIODES D21,D22,D23	10	C2
DB1 - P7 1.27K PS-1 TO PS-2 RESISTOR)	06	E7
DB1 - P7 1.27K PS-1 TO PS-2 RESISTOR)	08	A5
DB1 - P8 (PS-3 TO PS-4 DIODE)	09	B5
DB1 - P12 (20 OHM)	08	D15
DB1 - R4 (2K RESISTOR)	09	C10
DDC - ECM ENGINE BOX	06	EF/1-2
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DDEC - ECM RETARD ENG. SPEED DEFAULT	09	B16
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DIAGNOSTIC CONNECTOR - TCI	05	E17
DIAGNOSTIC INFORMATION DISPLAY PANEL (DID)	08	D7
DIT1A - LEFT MTR PHASE A INVERTER CHOKE	02	E10
DIT1B - LEFT MTR PHASE B INVERTER CHOKE	02	E12
DIT1C - LEFT MTR PHASE C INVERTER CHOKE	02	E14
DIT2A - RIGHT MTR PHASE A INVERTER CHOKE	02	E2
DIT2B - RIGHT MTR PHASE B INVERTER CHOKE	02	E4
DIT2C - RIGHT MTR PHASE C INVERTER CHOKE	02	E6
DSTM - PAYLOAD DATA STORAGE TRIGGER MOD	10	E5
ENGINE ELECTRIC STARTERS 1 & 2	07	A/B10
ENGINE OIL PRESSURE GAUGE	06	F8
ENGINE OIL PRESSURE SENSOR	06	F1
ENGINE TEMPERATURE GAUGE	06	F7
ENGINE TEMPERATURE SENSOR	06	F1
ERS - ENGINE RUN SWITCH	07	A7
FAN 2 - (MAIN INV)	03	C11
FDP - FAULT DETECTION PANEL (DIODE)	02	C4
FDT - FAULT DETECTION TRANSFORMER	02	C4
FP - FILTER PANEL	02	B6
FRAME RAIL MOUNTED CONN. (DETR. DIE. ENG)	07	A13
FREQUENCY SPEED MODULE	06	E1
FRONT L.H. OIL HTR (DETROIT DIE. ENG)	07	B15
FRONT R.H. OIL HTR (DETROIT DIE. ENG)	07	A15
FUEL GAUGE	10	D6
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GDFU2 - GATE DRIVER POWER SUPPLY FUSE	04	F12
GDPC1 - GATE DRIVER POWER CONVERTER 1	04	E16
GDPC2 - GATE DRIVER POWER CONVERTER 2	04	F1
GDPS - GATE DRIVER POWER SUPPLY	02	C3
GDPS - GATE DRIVER POWER SUPPLY	04	F12
GDPS - GATE DRIVER POWER SUPPLY	07	D3
GF - ALT FIELD CONTACTOR COIL	07	C12
GF - ALT FIELD CONTACTOR CUTOUT SW.	07	B13
GF - ALT FLD CONTACTOR POSITION SENSOR	07	C13
GFCO - GEN. FIELD CUT OFF SWITCH	07	B13
GFIP - GROUND FAULT INTERUPT PANEL	02	B12
GFM - AFSE GATE FIRING MODULE	02	C2
GFR - ALT FLD RELAY COIL	07	C12
GFR - ALT FLD RELAY CONTACTS	02	B3

COMPONENT	SHEET	LOC
GFR - ALT FLD RELAY CONTACTS	07	C3
GGFR - ALT FLD RELAY POSITION SENSOR	07	C11
GNDB1 - GROUND BLOCK 1	02	C12
GNDB1 - GROUND BLOCK 1	07	D4
GNDB2 - GROUND BLOCK 2	03	B2
GNDB3 - GROUND BLOCK 3	04	F14
GNDB4 - GROUND BLOCK 4	02	B16
GNDB5 - GROUND BLOCK 5	02	C16
GRADE SENSOR	08	A8
GRR - GROUND REFERENCE RESISTOR PANEL	02	B12
HEATER BLOWER MOTOR	10	B6
HEATER HOT WATER SOLENOID	10	B15
HOIST LIMIT SOLENOID	10	B3
HORN	10	E4
HORNS, BACKUP	09	C17
HOURMETER	06	D4
HYDRAULIC FLUID LEVEL SENSOR	10	B1
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LIGHT, 5 MIN. IDLE TIMER ON	10	D11
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LIGHT, CLEARANCE/TURN, LEFT	10	A8
LIGHT, CLEARANCE/TURN, RIGHT	10	B8
LIGHT, DECK, LEFT	10	A6
LIGHT, DECK, RIGHT	10	B6
LIGHT, ENGINE SERVICE	10	C5
LIGHT, FOG	10	B6
LIGHT, HEADLIGHTS BUMPER	10	B10
LIGHT, HEADLIGHTS GRILLE	10	C10
LIGHT, LADDER	10	A6
LIGHT, PAYLOAD METER, LEFT	10	E7
LIGHT, PAYLOAD METER, RIGHT	10	G7
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LIGHT, STOP, CAB TOP	07	G1
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P367 - DNENG	06	A3
P367 - DNENG	06	A7
P367 - DNENG	06	E4
P367 - DNENG	07	A2
P367 - DNENG	07	E2
P367 - DNENG	05	E12
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PAYLOAD METER LIGHTS RELAY	10	F5
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COMPONENT	SHEET	LOC
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PM1A+ - PHASE MODULE GATE DRIVER	04	D11
PM1A+ - PHASE MODULE PHASE A+ LEFT MTR	02	D10
PM1A- - PHASE MODULE GATE DRIVER	04	A13
PM1A- - PHASE MODULE GATE DRIVER	04	D12
PM1A- - PHASE MODULE PHASE A- LEFT MTR	02	F10
PM1B+ - PHASE MODULE GATE DRIVER	04	A13
PM1B+ - PHASE MODULE GATE DRIVER	04	D13
PM1B+ - PHASE MODULE PHASE B+ LEFT MTR	02	D12
PM1B- - PHASE MODULE GATE DRIVER	04	A14
PM1B- - PHASE MODULE GATE DRIVER	04	D14
PM1B- - PHASE MODULE PHASE B- LEFT MTR	02	F12
PM1C+ - PHASE MODULE GATE DRIVER	04	A15
PM1C+ - PHASE MODULE GATE DRIVER	04	D15
PM1C+ - PHASE MODULE PHASE C+ LEFT MTR	02	D14
PM1C- - PHASE MODULE GATE DRIVER	04	A16
PM1C- - PHASE MODULE GATE DRIVER	04	D15
PM1C- - PHASE MODULE PHASE C- LEFT MTR	02	F14
PM2A+ - PHASE MODULE GATE DRIVER	04	A2
PM2A+ - PHASE MODULE GATE DRIVER	04	D1
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PM2A- - PHASE MODULE GATE DRIVER	04	A2
PM2A- - PHASE MODULE GATE DRIVER	04	D2
PM2A- - PHASE MODULE PHASE A- RIGHT MTR	02	F2
PM2B+ - PHASE MODULE GATE DRIVER	04	A3
PM2B+ - PHASE MODULE GATE DRIVER	04	D2
PM2B+ - PHASE MODULE PHASE B+ RIGHT MTR	02	D4
PM2B- - PHASE MODULE GATE DRIVER	04	A4
PM2B- - PHASE MODULE GATE DRIVER	04	D3
PM2B- - PHASE MODULE PHASE B- RIGHT MTR	02	F4
PM2C+ - PHASE MODULE GATE DRIVER	04	A5
PM2C+ - PHASE MODULE GATE DRIVER	04	D4
PM2C+ - PHASE MODULE PHASE C+ RIGHT MTR	02	D6
PM2C- - PHASE MODULE GATE DRIVER	04	A6
PM2C- - PHASE MODULE GATE DRIVER	04	D5
PM2C- - PHASE MODULE PHASE C- RIGHT MTR	02	F6
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PSC 104 CARD SLOT 5	02	C5
PSC 104 CARD SLOT 5	03	D1
PSC 104 CARD SLOT 5	04	C5
PSC 104 CARD SLOT 5	04	F10
PSC 104 CARD SLOT 5	04	G2
PSC 104 CARD SLOT 5	07	D8
PSC 104 CARD SLOT 5	07	F9
PSC 127 CARD SLOT 2	04	C15
PSC 127 CARD SLOT 2	05	F3
PSC 134 CARD SLOT 10	02	D15
PSC 134 CARD SLOT 10	04	C8
PSC 134 CARD SLOT 10	05	C2
PSC 134 CARD SLOT 12	02	F7
PSC 134 CARD SLOT 12	04	F7
PSC 134 CARD SLOT 12	05	D2
PSC 138 CARD SLOT 09	04	D13
PSC 138 CARD SLOT 11	04	D2
PSC 143 CARD SLOT 6	02	A3
PSC 143 CARD SLOT 6	02	B11
PSC 143 CARD SLOT 6	02	B13
PSC 143 CARD SLOT 6	02	B5
PSC 143 CARD SLOT 6	02	D3
PSC 143 CARD SLOT 6	02	D8
PSC 143 CARD SLOT 6	03	E1
PSC 143 CARD SLOT 6	04	B8
PSC 143 CARD SLOT 6	06	D14
PSC 143 CARD SLOT 6	06	F9
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R1 - BATTERY BOOST RESISTOR	07	C4
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R329 - DNI	06	D4
R329 - DNI	06	D8
R329 - DNI	07	E5
R329 - DNI	02	F8
R329 - DNI	02	D16
R367 - DNENG	03	F8
R367 - DNENG	05	E12
R367 - DNENG	06	A4
R367 - DNENG	06	A7
R367 - DNENG	06	E4
R367 - DNENG	07	A2
R367 - DNENG	07	E2
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RB2 K2 RELAY (PAYLOAD AMBER LIGHTS)	10	E5
RB2 K3 RELAY (PAYLOAD RED LIGHTS)	10	E5
RB2 K4 RELAY (PAYLOAD LIGHTS)	10	F5
RB3 K1 RELAY (MANUAL BACKUP LIGHTS)	09	D16
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RB3 K3 RELAY (RETARD LIGHT)	09	A15
RB4 K1 RELAY (PARK BRAKE FAILURE)	09	B2
RB4 K2 RELAY (CRANK INTERLOCK)	07	A6
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RB4 K4 RELAY (BODY UP)	09	B6
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RB5 K2 RELAY (RIGHT LOW BEAM HEADLIGHT)	10	C8
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RB6 K8 RELAY (PSC TRUCK 70% LOAD)	09	A8

COMPONENT	SHEET	LOC
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RELAY, PARK BRAKE FAILURE RB4 K1	09	B2
RELAY, PAYLOAD AMBER LIGHTS RB2 K2	10	E5
RELAY, PAYLOAD GREEN LIGHTS RB2 K1	10	F5
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RP1 - RET GRID CONTACTOR POSITION SENSOR	07	C14
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RP2 - RET GRID CONTACTOR POSITION SENSOR	07	C16
RP2 - RET GRID CONTACTOR TIPS	02	C17
RP3 - RET GRID CONTACTOR COIL	07	C16
RP3 - RET GRID CONTACTOR POSITION SENSOR	07	C17
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COMPONENT	SHEET	LOC
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