CEBM010200

# Shop Manual

# 930E

## DUMP TRUCK

SERIAL NUMBERS **A30019, A30026 thru A30119**
**w/DDC 4000 Engine**

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# SECTION A

# GENERAL INFORMATION

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| POSSIBLE CAUSES | SUGGESTED CORRECTIVE ACTION |
|---|---|
| **TROUBLE: The Low Pressure Warning Circuit Not Operating Properly** | |
| The Low Brake Pressure lamp is burned out. | Replace the bulb. |
| The electrical circuit is open. | Check switch circuit wiring. |
| Pressure switch defective. | Replace the pressure switch. |
| **TROUBLE: Low Pressure Warning is On Even Though System Pressure is Proper** | |
| Short in electrical system. | Check wiring. |
| Pressure switch is defective. | Replace the switch. |
| **TROUBLE: Low Pressure Warning Comes On and Pressure is Low** | |
| Steering circuit is malfunctioning. | Check steering circuit pressures. |
| The pump is worn. | Rebuild or replace pump. |
| **TROUBLE: A Brake Accumulator Bleeds Off Quickly When Supply Pressure is Cut Off** | |
| Accumulator bleeddown valve is open. | Close valve, check precharge. |
| Accumulator precharge is low. | Recharge accumulator |
| Leak in one circuit. | Check plumbing. |
| Malfunction in brake valve. | Remove, disassemble, clean, reassemble; or replace. |
| **TROUBLE: A "Squeal" is Heard When Controller is Operated** | |
| Rapid operation of controller. | Normal |
| Brake Valve assembly is damaged. | Replace the brake valve assembly. |
| Hydraulic oil is too hot. | Check entire hydraulic system for restriction etc. |
| **TROUBLE: The Brake Pressures Drift Excessively While Pedal is Held Steady** | |
| Contamination in brake valve assembly. | Remove, disassemble, clean, reassemble; or replace. |
| Damage in brake valve assembly. | Repair or replace brake valve assembly. |
| Dual relay valve malfunctioning | Repair or replace dual relay valve assembly. |



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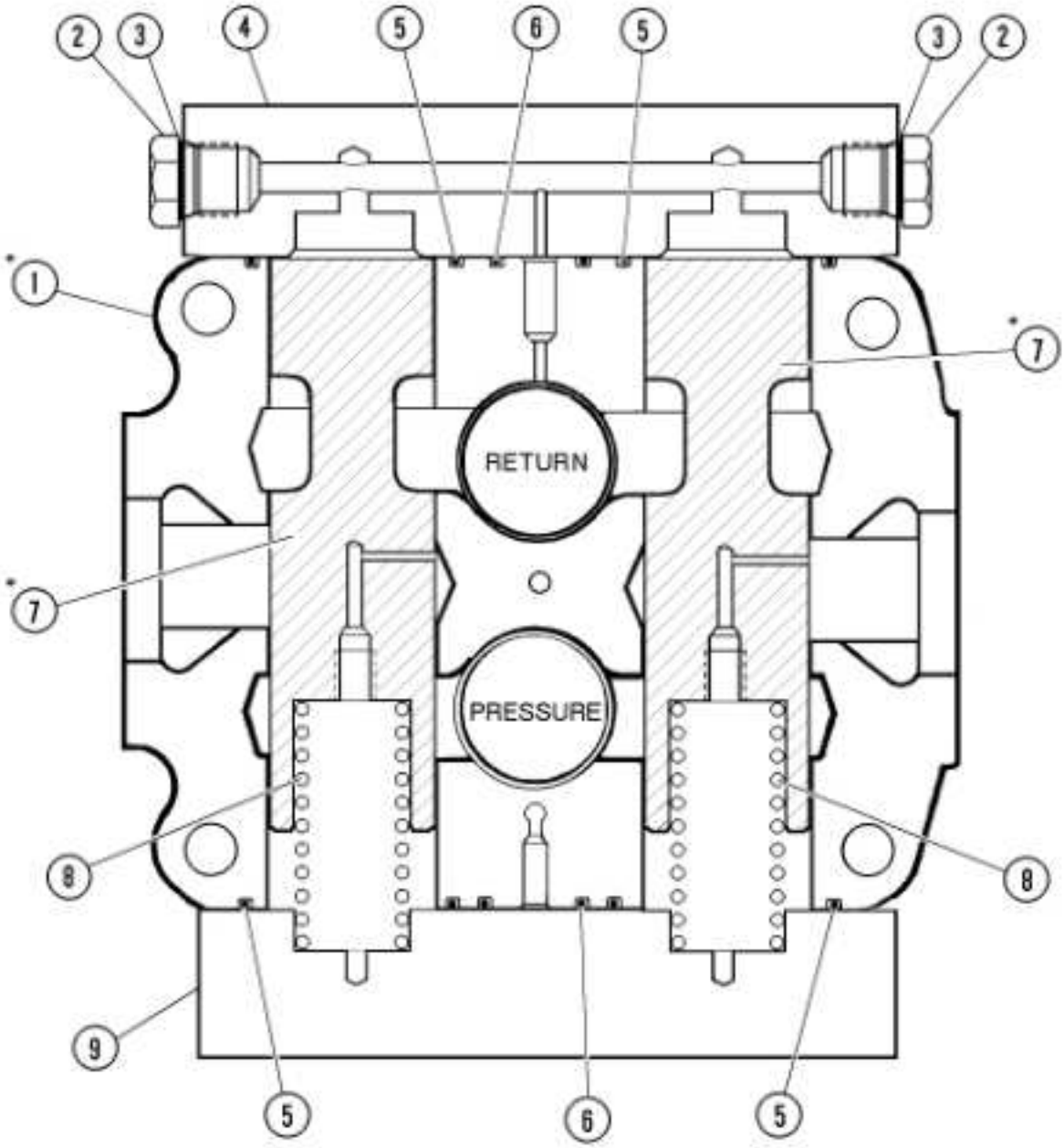



FIGURE 8-12. TANK PORTS SPOOL SECTION ASSEMBLY

1. Spool Housing
2. Plug
3. O-RIng
4. Spool Cover
5. O-Ring
6. O-Ring
7. Spool
8. Spring
9. Spool Cover



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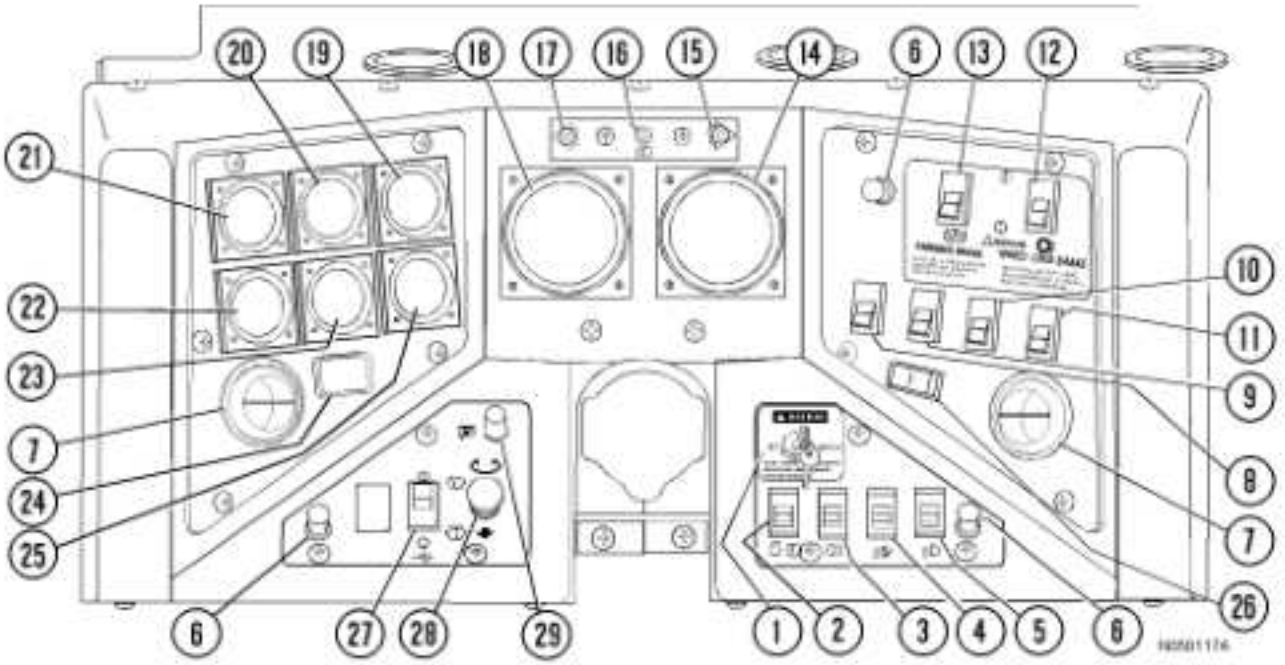


FIGURE 5-6. PANEL GAUGES, INDICATORS, AND CONTROLS

1. Keyswitch
2. Engine Shutdown Switch with Timer Delay
3. Backup Light Switch (N./O.)
4. Ladder Light Switch (3 - Way)
5. Fog Light Switch (N./O.)
6. Panel Illumination Light(s)
7. Vent(s) - Cab Air Conditioner/Heater
8. Not used on 930E
9. Rotating Beacon Light Switch (N./O.) (**Optional**)
10. Heated Mirror Switch (N./O.) (**Optional**)
11. Not used on 930E
12. Wheel Brake Lock Switch (N./O.)
13. Parking Brake Switch (N./O.)
14. Digital Tachometer
15. Right Turn Signal Indicator Light
16. High Beam Headlight Indicator Light
17. Left Turn Signal Indicator Light
18. Digital Speedometer
19. Voltmeter Gauge
20. Engine Oil Pressure Gauge
21. Engine Water Temperature Gauge
22. Fuel Gauge
23. AC Drive System Temperature
24. Engine Hourmeter
25. Hydraulic/Brake Oil Temperature
26. AC REST Switch
27. Headlights Switch (N./O.)
28. Wiper / Washer Switch
29. Panel Illumination Lights Dimmer Rheostat

WIRE NUMBERS

1. 712/21PB/11S
2. 11S/11TD/11R
3. 712/47S/47L/710
4. 11L/48A/48B
5. 11L/48F
6. 49/710
7. N/A
8. 712/28E
9. 11L/11RB
10. 712/69M/SPR56/SPR57/SPR58
11. 71/79M/SPR55/79H/72F/SPR54
12. 712BL/52B/39H/710/SPR59
13. 71/52C/21PB/21
14. 41TS/74X/74Z/710
15. 45R/710
16. 41H/710
17. 45L/710
18. 41TS/77/77A/710
19. 712D/710/49
20. 712D/31PS/710/49
21. 712D/31TS/710/49
22. 712D/38G/710/49
23. 15V/72MT/49/710
24. 11L/36
25. 15V/34BT/710/49
26. 710/72RQ
27. 11D/41L/41TS
28. High 66S/Low 66L/710 Park/712W / Washer 66
29. 49/41TS



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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 | D9 |
| 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 | 06 | 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 INVRTER 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 |
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| 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 |
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| CB 19 - BACKUP LIGHTS AND HORN (RB3) | 10 | G9 |
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| CB 22 - | | |
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| 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 |
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| CB 30 - HAZARD SWITCH | 10 | A14 |
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| 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 |
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| 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 |
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| 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 | 06 | B13 |
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| CMTA - CURRENT MEASURE TERTIARY ALT | 06 | B14 |
| CONTACTOR, 5 MINUTE IDLE SHUTDOWN DELAY | 10 | D14 |
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| 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 |
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| DB1 - P7 (.27K P5-1 TO P5-2 RESISTOR) | 06 | E7 |
| DB1 - P7 (.27K P5-1 TO P5-2 RESISTOR) | 08 | A5 |
| DB1 - P8 (P5-3 TO P5-4 DIODE) | 09 | B5 |
| DB1 - P12 (20 OHM) | 08 | D15 |
| DB1 - R4 (2K RESISTOR) | 09 | C10 |
| DDC - ECM ENGINE BOX | 06 | EF/1-2 |
| DDC - ECM MAIN (B3) | 09 | A6 |
| DDC - ENGINE EC | 05 | E12 |
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| DIT1B - LEFT MTR PHASE B INVERTER CHOKE | 02 | E12 |
| DIT1C - LEFT MTR PHASE C INVERTER CHOKE | 02 | E14 |
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| DIT2B - RIGHT MTR PHASE B INVERTER CHOKE | 02 | E4 |
| DIT2C - RIGHT MTR PHASE C INVERTER CHOKE | 02 | E6 |
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| ENGINE OIL PRESSURE SENSOR | 06 | F1 |
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| 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 |
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| LINKV - DC LINK VOLTAGE MEASURE | 02 | B10 |
| MODULAR MINING COMMUNICATION PORT | 08 | D6 |
| MOTOR COOLING AIRFLOW SENSOR | 08 | A7 |
| P305 | 08 | E2 |
| P329 - CNI | 06 | B7 |
| P329 - CNI | 06 | D4 |
| P329 - CNI | 06 | D8 |
| P329 - CNI | 07 | E5 |
| P329 - CNI | 02 | D16 |
| P329 - CNI | 02 | F8 |
| P329 - CNI | 04 | D17 |
| P367 - CNENG | 03 | F8 |
| P367 - CNENG | 06 | A3 |
| P367 - CNENG | 06 | A7 |
| P367 - CNENG | 06 | E4 |
| P367 - CNENG | 07 | A2 |
| P367 - CNENG | 07 | E2 |
| P367 - CNENG | 05 | E12 |
| P371 - CNTCI | 05 | E9 |
| P399 - CNAUX | 03 | C3 |
| P399 - CNAUX | 08 | D4 |
| PANEL LIGHT DIMMER A | 07 | F2 |
| PARK BRAKE SOLENOID | 09 | A2 |
| PAYLOAD METER 2 | 09 | A7 |
| PAYLOAD METER 2 | 10 | F2 |
| PAYLOAD METER AMBER LIGHT RELAY | 10 | E5 |
| PAYLOAD METER DATA STORAGE TRIGGER MOD | 10 | E5 |
| PAYLOAD METER GREEN LIGHT RELAY | 10 | F5 |
| PAYLOAD METER LIGHTS RELAY | 10 | F5 |
| PAYLOAD METER RED LIGHT RELAY | 10 | E5 |

| COMPONENT | SHEET | LOC |
|---|---|---|
| PM1A+ - PHASE MODULE GATE DRIVER | 04 | A12 |
| 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 |
| PM2A+ - PHASE MODULE PHASE A+ RIGHT MTR | 02 | D2 |
| 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 |
| PSC 104 CARD SLOT 5 | 02 | C3 |
| 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 | D9 |
| 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 |
| PSC 147 CARD SLOT 3 | 05 | G10 |
| PSC FIBER OPTIC CARD | 04 | B14 |
| PSC FIBER OPTIC CARD | 04 | C3 |
| R1 - BATTERY BOOST RESISTOR | 02 | B3 |
| R1 - BATTERY BOOST RESISTOR | 07 | C4 |
| R240 - (A) FUEL INJECTION SIGNAL | 09 | A6 |
| R305 | 08 | E2 |
| R329 - CNI | 06 | B7 |
| R329 - CNI | 06 | D4 |
| R329 - CNI | 06 | D8 |
| R329 - CNI | 07 | E5 |
| R329 - CNI | 02 | F8 |
| R329 - CNI | 02 | D16 |
| R367 - CNENG | 03 | F8 |
| R367 - CNENG | 05 | E12 |
| R367 - CNENG | 06 | A4 |
| R367 - CNENG | 06 | A7 |
| R367 - CNENG | 06 | E4 |
| R367 - CNENG | 07 | A2 |
| R367 - CNENG | 07 | E2 |
| R371 - CNTCI | 05 | E9 |
| R399 - CNAUX | 03 | C3 |
| RADIO | 10 | D17 |
| RADIO RELAY - IN OVERHEAD PANEL | 10 | D16 |
| RB1 K1 RELAY (LEFT TURN SIGNAL) | 10 | A9 |
| RB1 K2 RELAY (RIGHT TURN SIGNAL) | 10 | B9 |
| RB1 K3 RELAY (CLEARANCE LIGHT) | 07 | F4 |
| RB1 K4 RELAY (FLASHER) | 10 | A11 |
| RB2 K1 RELAY (PAYLOAD GREEN LIGHTS) | 10 | F5 |
| 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 |
| RB3 K2 RELAY (STOP LIGHT) | 07 | F4 |
| RB3 K3 RELAY (RETARD LIGHT) | 09 | A15 |
| RB4 K1 RELAY (PARK BRAKE FAILURE) | 09 | B2 |
| RB4 K2 RELAY (CRANK INTERLOCK) | 07 | A6 |
| RB4 K3 RELAY (HORN) | 10 | E2 |
| RB4 K4 RELAY (BODY UP) | 09 | B6 |
| RB5 K1 RELAY (LEFT LOW BEAM HEADLIGHT) | 10 | D8 |
| RB5 K2 RELAY (RIGHT LOW BEAM HEADLIGHT) | 10 | C8 |
| RB5 K3 RELAY (LEFT HIGH BEAM HEADLIGHT) | 10 | C8 |
| RB5 K4 RELAY (RIGHT HIGH BEAM HEADLIGHT) | 10 | B8 |
| RB6 K1 RELAY (BACK UP HORN) | 09 | C15 |
| RB6 K2 RELAY (ENGINE INTERLOCK) | 09 | A14 |
| RB6 K4 RELAY (BACK UP LIGHTS) | 09 | B15 |
| RB6 K8 RELAY (PSC TRUCK 70% LOAD) | 09 | A8 |

| COMPONENT | SHEET | LOC |
|---|---|---|
| RD - RECTIFIER DIODE PANEL | 02 | B8 |
| REAR L.H. OIL HTR. (DETROIT DIE. ENG) | 07 | B15 |
| RELAY, 5-MINUTE DELAY IDLE SHUTDOWN (SEAT) | 10 | D12 |
| RELAY, 5-MINUTE DELAY SHUTDOWN ON (SEAT) | 10 | D11 |
| RELAY, BACKUP HORN RB6 K1 | 09 | C15 |
| RELAY, BACKUP LIGHTS RB6 K4 | 09 | B15 |
| RELAY, BATTERY SEPARATE (BATTERY BOX) | 07 | A6 |
| RELAY, BATTERY SEPARATE (BATTERY BOX) | 10 | G12 |
| RELAY, BODY UP RB4 K4 | 09 | B6 |
| RELAY, BRAKE WARNING (BRAKE CABINET) | 10 | D2 |
| RELAY, CAB HEATER INTERNAL | 10 | A15 |
| RELAY, CLEARANCE LIGHT RB1 K3 | 07 | F4 |
| RELAY, CRANK INTERLOCK | 07 | A6 |
| RELAY, ENGINE INTERLOCK | 09 | A14 |
| RELAY, FLASHER RB1 K4 | 10 | A11 |
| RELAY, HORN RB4 K3 | 10 | E2 |
| RELAY, LEFT HIGH BEAM HEADLIGHT RB5 K3 | 10 | C8 |
| RELAY, LEFT LOW BEAM HEADLIGHT RB5 K1 | 10 | D8 |
| RELAY, LEFT TURN SIGNAL RB1 K1 | 10 | A9 |
| RELAY, MANUAL BACK UP LIGHTS RB3 K1 | 09 | D16 |
| RELAY, PARK BRAKE FAILURE RB4 K1 | 09 | B2 |
| RELAY, PAYLOAD AMBER LIGHTS RB2 K2 | 10 | E5 |
| RELAY, PAYLOAD GREEN LIGHTS RB2 K1 | 10 | F5 |
| RELAY, PAYLOAD LIGHTS RB2 K4 | 10 | F5 |
| RELAY, PAYLOAD RED LIGHTS RB2 K3 | 10 | E5 |
| RELAY, PARKBRAKE OFF RELAY RB6-K6 | 09 | B12 |
| RELAY, PSC TRUCK 70% LOAD RB6 K8 | 09 | A8 |
| RELAY, PSC TRUCK FULL LOAD RB6 K7 | 09 | B8 |
| RELAY, RADIO (IN OVERHEAD PANEL) | 10 | D17 |
| RELAY, RETARD LIGHTS RB3 K3 | 09 | A15 |
| RELAY, RIGHT HIGH BEAM HEADLIGHT RB5 K4 | 10 | B8 |
| RELAY, RIGHT LOW BEAM HEADLIGHT RB5 K2 | 10 | C8 |
| RELAY, RIGHT TURN SIGNAL RB1 K2 | 10 | B9 |
| RELAY, STOP LIGHT RB3 K2 | 07 | F4 |
| RETARD GRID | 02 | B14 |
| RETARD GRID | 02 | B16 |
| RETARD GRID | 02 | C17 |
| RETARD LEVER | 06 | D6 |
| RETARD LEVER | 08 | B1 |
| RETARD PEDAL | 06 | D6 |
| RETARD PEDAL | 08 | B1 |
| RETARD SPEED CONTROL SET | 08 | B3 |
| RIGHT HOT START HTR. (DETROIT DIE ENG) | 07 | A15 |
| RIGHT THERMOSTAT (DETROIT DIESEL ENG) | 07 | A16 |
| RP1 - RET GRID CONTACTOR COIL | 07 | C13 |
| RP1 - RET GRID CONTACTOR POSITION SENSOR | 07 | C14 |
| RP1 - RET GRID CONTACTOR TIPS | 02 | C17 |
| RP2 - RET GRID CONTACTOR COIL | 07 | C15 |
| 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 |
| RP3 - RET GRID CONTACTOR TIPS | 02 | C17 |
| RS1A - RESISTOR, SNUBBER INVERTER 1 PHASE A | 02 | F10 |
| RS1B - RESISTOR, SNUBBER INVERTER 1 PHASE B | 02 | F12 |
| RS1C - RESISTOR, SNUBBER INVERTER 1 PHASE C | 02 | F14 |
| RS2A - RESISTOR, SNUBBER INVERTER 2 PHASE A | 02 | F2 |
| RS2B - RESISTOR, SNUBBER INVERTER 2 PHASE B | 02 | F4 |
| RS2C - RESISTOR, SNUBBER INVWRTER 2 PHASE C | 02 | F6 |
| RS11 - (RS-232) | 04 | A11 |
| RS12 - (RS-232) | 04 | A1 |
| SENSOR, ALT. AMBIENT TEMPERATURE | 08 | A5 |
| SENSOR, BAROMETRIC PRESSURE | 08 | B10 |
| SENSOR, ENGINE TEMPERATURE | 06 | F1 |
| SENSOR, FUEL LEVEL | 10 | D4 |
| SENSOR, GRADE | 08 | A8 |
| SENSOR, HYDRAULIC FLUID LEVEL | 10 | B1 |
| SENSOR, HYDRAULIC FLUID TEMPERATURE | 08 | A6 |
| SENSOR, INCLINOMETER | 10 | F1 |
| SENSOR, LEFT FRONT LOAD | 10 | F1 |
| SENSOR, LEFT FRONT WHEEL SPEED | 08 | E1 |
| SENSOR, LEFT REAR LOAD | 10 | F1 |
| SENSOR, LEFT REAR MOTOR SPEED | 02 | E16 |
| SENSOR, MOTOR COOLING AIRFLOW | 08 | A7 |
| SENSOR, RIGHT FRONT LOAD | 10 | F1 |
| SENSOR, RIGHT FRONT WHEEL SPEED | 08 | D1 |
| SENSOR, RIGHT REAR LOAD | 10 | G1 |
| SENSOR, RIGHT REAR MOTOR SPEED | 02 | E8 |
| SHUTDOWN DELAY CONTACTOR (5 MIN) | 10 | D14 |
| SHUTDOWN DELAY ON RELAY (5 MIN) | 10 | D11 |
| SHUTDOWN DELAY RELAY (5 MIN) | 10 | D12 |
| SHUTDOWN DELAY TIMER (5 MIN) | 10 | D12 |
| SIM - SPECIAL INTERFACE MODULE | 06 | A1 |
| SOLENOID, BRAKE LOCK | 10 | D2 |
| SOLENOID, HEATER HOT WATER | 10 | B15 |
| SOLENOID, HOIST LIMIT | 10 | B3 |
| SOLENOID, PARK BRAKE | 09 | A2 |
| SOLENOID, STEERING BLEEDDOWN | 10 | E4 |
| SOLENOID START #1 | 07 | A9 |
| SOLENOID START #2 | 07 | A9 |
| SPEED, LEFT FRONT, OUTPUT (FUTURE) | 08 | A14 |
| SPEED, LEFT FRONT WHEEL SENSOR | 08 | E1 |
| SPEED, RIGHT FRONT, OUTPUT (FUTURE) | 08 | A14 |
| SPEED, RIGHT FRONT WHEEL SENSOR | 08 | D1 |
| SPEEDOMETER | 08 | G2 |
| SPS - SENSORS POWER SUPPLY (AMP & VOLT) | 03 | B13 |
| SS1 - SPEED SENSOR LEFT MOTOR | 02 | E16 |
| SS2 - SPEED SENSOR RIGHT MOTOR | 02 | E8 |
| STEERING BLEEDDOWN SOLENOID | 10 | E4 |
| STEERING BLEEDDOWN TIMER RB4 | 10 | E2 |
| SWITCH, A/C, REC/DRIER PRESSURE | 06 | F3 |
| SWITCH, A/C RECIEVER/DRIER | 10 | A16 |
| SWITCH, ACCUMULATOR NITROGEN PRECHARGE | 10 | B1 |
| SWITCH, BATTSW - CNTRL BATT DISCON (BAT BOX) | 02 | C3 |
| SWITCH, BATTSW - CNTRL BATT DISCON (BAT BOX) | 07 | D1 |
| SWITCH, BODY UP (FRAME) | 09 | C4 |
| SWITCH, BRAKE FILTER DIFFERENTIAL | 10 | A2 |
| SWITCH, BRAKE FRONT/FRONT DIFF. (BRK CAB) | 10 | D3 |
| SWITCH, BRAKE FRONT/REAR DIFF (FR OF CAB) | 10 | D3 |
| SWITCH, BRAKE LOCK (INST. PNL) | 10 | D1 |
| SWITCH, BRAKE LOCK DEGRATION (BRK CAB) | 10 | D2 |
| SWITCH, BRAKE REAR/REAR DIFF (REAR AXLE) | 10 | D3 |

| COMPONENT | SHEET | LOC |
|---|---|---|
| SWITCH, CAB HEATER BLOWER CONTROL | 10 | B16 |
| SWITCH, CAB THERMOSTAT (CAB HTR) | 10 | A15 |
| SWITCH, CAPACITOR PRESSURE (ELEC CAB) | 03 | F3-5 |
| SWITCH, CONTROL BATTERY DISC. (BAT BOX) | 07 | A7 |
| SWITCH, CONTROL BATTERY DISC. (BAT BOX) | 10 | F13 |
| SWITCH, COOLANT LEVEL | 06 | F4 |
| SWITCH, CPS - CONTROL POWER (ELEC CAB) | 07 | B3 |
| SWITCH, CRANKING BATTERY DISC. (BAT BOX) | 07 | B7 |
| SWITCH, CRANKING BATTERY DISC. (BAT BOX) | 10 | F13 |
| SWITCH, DATA STORE (CAB CONSOLE) | 09 | C1 |
| SWITCH, EMERG ENG SHUTDOWN (CAB CONSOLE) | 09 | A6 |
| SWITCH, ENGINE LAMP TEST (INTERFACE CAB) | 09 | D3 |
| SWITCH, ENGINE RUN | 07 | A7 |
| SWITCH, ENGINE SERVICE LIGHTS (LEFT SIDE) | 10 | C4 |
| SWITCH, ENGINE SERVICE LIGHTS (RIGHT SIDE) | 10 | C5 |
| SWITCH, ENGINE START REQUEST (KEY SW) | 09 | C2 |
| SWITCH, FOG LIGHTS (INST. PNL) | 10 | B4 |
| SWITCH, GENERATOR FIELD CUT OFF | 07 | B13 |
| SWITCH, GROUND LEVEL SHUTDOWN (LEFT FRT FR) | 07 | C1 |
| SWITCH, GROUND LEVEL SHUTDOWN (LEFT FRT FR) | 09 | A3 |
| SWITCH, HAZARD FLASHER LIGHTS (STEER COL) | 10 | A14 |
| SWITCH, HEADLIGHT (INST. PNL) | 07 | F6 |
| SWITCH, HEADLIGHT DIMMER (STEER COL) | 10 | B7 |
| SWITCH, HEATER/AC CONTROL (CAB HEATER) | 10 | A16 |
| SWITCH, HOIST FILTER DIFFERENTIAL | 10 | A1 |
| SWITCH, HOIST LIMIT PROXIMITY (RT REAR FR) | 10 | B2 |
| SWITCH, HORN BUTTON (STEER COL) | 10 | E3 |
| SWITCH, INVERTER 1 CUTOUT (ELEC CAB) | 07 | C9 |
| SWITCH, INVERTER 2 CUTOUT (ELEC CAB) | 07 | C10 |
| SWITCH, KEY SW. (INST PNL) | 07 | A1 |
| SWITCH, LADDER LIGHTS (INST PNL) | 10 | A4 |
| SWITCH, LADDER LIGHTS, GROUND LEVEL | 10 | A5 |
| SWITCH, LAMP TEST (INST PNL) | 09 | C3 |
| SWITCH, LINCOLN LUBE PRESSURE (LUBE PUMP) | 10 | D6 |
| SWITCH, LOW BRAKE SUPPLY PRESSURE (BRK CAB) | 10 | C1 |
| SWITCH, LOW FUEL LEVEL (FUEL TANK) | 10 | D4 |
| SWITCH, LOW STEERING PRESS (BLEEDDOWN MANIF) | 10 | C1 |
| SWITCH, MANUAL BACKUP LIGHTS (INST PNL) | 09 | D15 |
| SWITCH, OIL PRESSURE CLOSES @ 5 PSI | 06 | D2 |
| SWITCH, PARK BRAKE (INST PNL) | 09 | C1 |
| SWITCH, PARK BRAKE REQUEST | 07 | A2 |
| SWITCH, PARK BRAKE PRESSURE (BRK CAB) | 09 | A2 |
| SWITCH, RESET REQUEST (CAB CONCOLE) | 09 | C2 |
| SWITCH, REST REQUEST (INST PNL) | 09 | C2 |
| SWITCH, RETARD SPEED CONTROL (CAB CON) | 08 | B4 |
| SWITCH, RETARD SPEED CONTROL (CAB CON) | 09 | C2 |
| SWITCH, SELECTOR (CAB CONSOLE) | 07 | A2 |
| SWITCH, SELECTOR (CAB CONSOLE) | 09 | C1 |
| SWITCH, SERVICE BRAKE APPLIED PRESSURE | 07 | E3 |
| SWITCH, STEERING FILTER DIFFERENTIAL | 10 | A1 |
| SWITCH, TURN SIGNAL (STEER COLUMN) | 10 | A13 |
| SWITCH, WINDSHIELD WIPER (INST PNL) | 10 | C16 |
| TACHOMETER | 06 | A11 |
| TB1 - TERMINAL BLOCK 1 | 03 | E9 |
| TB1 - TERMINAL BLOCK 1 | 07 | C5 |
| TB1 - TERMINAL BLOCK 1 | 07 | E1 |
| TB2 - TERMINAL BLOCK 2 | 03 | E11 |
| TB2 - TERMINAL BLOCK 2 | 07 | D5 |
| TB3 - TERMINAL BLOCK 3 | 03 | E14 |
| TB4 - TERMINAL BLOCK 4 | 03 | A16 |
| TB5 - TERMINAL BLOCK 5 | 03 | C16 |
| TB6 - TERMINAL BLOCK 6 | 03 | D16 |
| TB7 - TERMINAL BLOCK 7 | 03 | E16 |
| TCI 104 CARD SLOT 5 | 07 | A4 |
| TCI 104 CARD SLOT 5 | 07 | B6 |
| TCI 104 CARD SLOT 5 | 08 | B5 |
| TCI 104 CARD SLOT 5 | 08 | E8 |
| TCI 104 CARD SLOT 5 | 09 | E1-16 |
| TCI 104 CARD SLOT 5 | 04 | E17 |
| TCI 127 CARD SLOT 2 | 08 | F13 |
| TCI 144 CARD SLOT 3 | 05 | E7 |
| TCI 15V OUTPUT | 06 | E6 |
| TCI 160 CARD SLOT 4 | 03 | C1 |
| TCI 160 CARD SLOT 4 | 08 | C6-13 |
| TCI 160 CARD SLOT 4 | 08 | F4 |
| TEMPERATURE GAUGE, DRIVE SYSTEM | 08 | A15 |
| TEMPERATURE GAUGE, HYDRAULIC FLUID | 08 | A16 |
| TH1 - ALTERNATOR FIELD DISCHARGE RESISTOR | 02 | B5 |
| TIMER, 5-MINUTE IDLE SHUTDOWN DELAY | 10 | D12 |
| TIMER, STEERING BLEEDDOWN RB4 | 10 | E2 |
| TRACTION MOTOR 1 - LEFT MOTOR | 02 | E15 |
| TRACTION MOTOR 2 - RIGHT MOTOR | 02 | E8 |
| VAM1 - VOLTAGE ATTENUATING MOD LEFT MTR | 02 | F9-14 |
| VAM1 - VOLTAGE ATTENUATING MOD LEFT MTR | 05 | A3 |
| VAM2 - VOLTAGE ATTENUATING MOD RIGHT MTR | 02 | F1-6 |
| VAM2 - VOLTAGE ATTENUATING MOD RIGHT MTR | 05 | C4 |
| WINDOW, LEFT MOTOR | 10 | E17 |
| WINDOW, RIGHT MOTOR | 10 | F17 |
| WINDSHIELD WASHER PUMP | 10 | C15 |
| WINDSHIELD WIPER MOTOR | 10 | C15 |

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TOL. ON DIM. NOT OTHERWISE SPECIFIED
±.010-3 PLACES
±.06-2 PLACES
±1°-ANGULAR

| DASH | DESCRIPTION OF CHANGE | DATE | ECO | BY | CKD |
|---|---|---|---|---|---|
| 4 | CONTROL POWER RELAY TO KONTROL POWER RELAY | 05-22-98 | | JJS | |
| 4 | ADDED PARK BRAKE OFF RELAY & CHG'D | 05-22-98 | | JJS | |
| 3 | SEE SHEETS 1,2,4,5,6,7,10 AND 12 | 2-12-98 | 104625 | GH | RC |
| 2 | SEE SHTS 1,3,6,7,9,10,12 | 11-17-97 | 104254 | JJS | RC |
| 1 | REVISED SHEET 2 | 9-19-97 | 108913 | GH | JJS |
| 0 | GROUP USED ON E63048 | | 103624 | | |

PROCEDURE — ISSUANCE

| | | | |
|---|---|---|---|
| DRAWN BY | G. HARAZNUS | DATE | 5-21-97 |
| CHECKED | J. SIEDLECKI | DATE | 8-13-97 |
| APPROVED | B. HARBISON | DATE | 08-13-97 |

USED ON 930E — SCALE NONE — MICROFILM

NAME: A/C TRUCK SYS SCHEMATIC — MATERIAL — SHEET 11 OF 13 — E67500 / 4

KOMATSU Komatsu Mining Systems, Inc. Peoria Operations CAD