TOYOTA

# REPAIR MANUAL

## OPS SUPPLEMENT

## 7FBCU15-55

Pub. No. CU335

MidWestTech | Toyota 7FBCU15-55 Forklift OPS Service Supplement | Publication CU335 Order the manual at mid-west-tech.com >

# GENERAL



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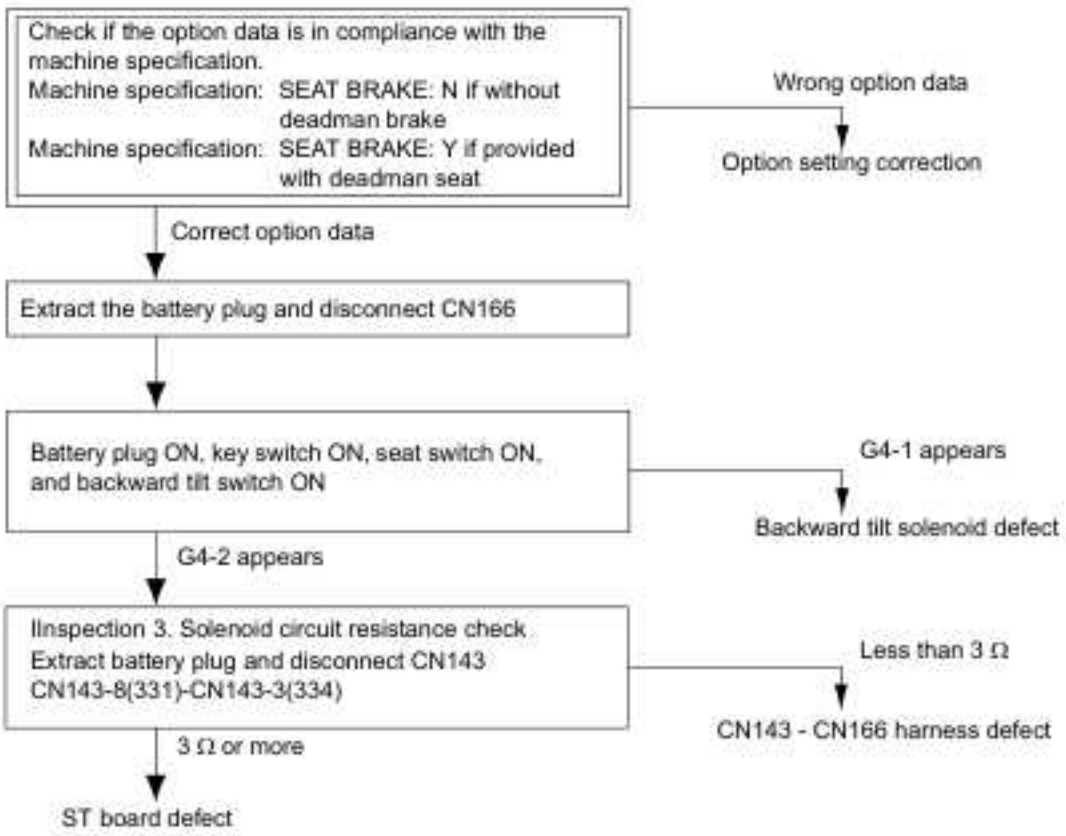

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# Service Information Bulletins affecting Models (30-)7FBCU15-32, 7FBEU15-20, 7BNCU15-25 and 8FBCU20-32

| | |
|---|---|
| 24 | HTT-2006-12 - 7FB 61-1 Error Codes, 7FB Load Sensor |
| 25 | HTT-2007-01 - Hydraulic Oil for Cold Storage; 7FBEU Motor Bearing Seal Install |
| 26 | HTT-2007-02 - 7FB String Cutters, OPSS Tilt Back Lock Valve added |
| 27 | HTT-2007-03 - CU322 update; Replacing Interface Card on 7BNCU |
| 28 | HTT-2007-04 - Class 1 gear case oil |
| 29 | HTT-2007-05 - 7FBCU Gear Case Sealing |
| 30 | HTT-2007-06 - Steer Cylinder change |
| 31 | HTT-2007-07 - Jerky Creep Speed, New Hydraulic Oil |
| 32 | HTT-2007-08 - Optional 12V Power Supply, DC/MD Card troubleshooting |
| 33 | HTT-2007-09 - Repair Manual 322 |
| 34 | HTT-2007-10 - Class 1 OPSS II, Load Sensor , and P7 & P8 Current Sensors |
| 35 | HTT-2007-11 - CU322 Repair manual clarification, 7FBEU 31-1, 31-2, 31-3 |
| 36 | HTT-2007-12 - Class 1 Alarm with OPSS |
| 37 | HTT-2008-01 - Class I Gear Noise |
| 38 | HTT-2008-02 - Drive Unit Part Numbers, EF-1 & EF-2 Error Codes, Flashware Cable for |
| 39 | HTT-2008-03 - 7FBE Error Codes 64-2 & H9-2, 7FBCU15-55 A8, A1 & C3 Error Codes, |
| 40 | HTT-2008-04 - No Display with EZ Pedal, (30)7FBCU15-32 Complaint of Low Top Speed |
| 41 | HTT-2008-05 - 7FBCU20-32 Battery Slide out Field Installation Kit, (30)7FBCU15-55 Drive |
| 42 | HTT-2008-06 - 7FBE Front Hub Induction Hardening and Drive Axle Clattering |
| 43 | HTT-2008-07 - 7FBCU15-25 Inspecting the EHPS Transistor |
| 44 | HTT-2008-08 - 7FBE Internal Gear Hardened |
| 45 | HTT-2008-09 - (30)7FBCU15-32 Error Code C0-(1-6) |
| 46 | HTT-2008-10 - 7FBE Drive Axle Connector Rod Adjustment |
| 47 | HTT-2008-11 - Using The SST Tools In Diagnosing Board Issues and UL Ratings |
| 48 | HTT-2008-12 - Diagnostic Tips |
| 49 | HTT-2009-01 - Slow Lowering or Incorrect Staging During Lowering |
| 50 | HTT-2009-02 - C2-2 or C2-3 Error Codes and Trouble Shooting Error Codes H9-1,2,3 Or 64-1,2,3 |
| 51 | HTT-2009-03 - Static Strap Mounting and Lift Interrupt Settings |
| 52 | HTT-2009-04 - Battery Voltage Setting On PDI, Parking Brake Warning and String Cutters |
| 53 | HTT-2009-05 - Error Codes After Card Replacement |
| 54 | HTT-2009-06 - Error Codes A6-1, A6-2, A6-3, A6-5 or A6-6 at Key-On |
| 55 | HTT-2009-07 - Slow Travel Speed |
| 56 | HTT-2009-08 - Occurrence of Error Code AO-4 |
| 57 | HTT-2009-09 - Jerky Travel at Slow Speeds |
| 58 | HTT-2009-10 - Gear Case Bolt Torque Increase |
| 59 | HTT-2009-11 - A5 Error Code On 7FBE and 7FBC Forklifts With OPSS, 5F and 5G Codes for the 7BNCU Model Forklifts |
| 60 | HTT-2009-12 - 7FBCU Transistor Test Procedure & Speed Sensor Check |
| 61 | HTT-2010-01 - FE-4, E2-2, E2-4 Error Codes |
| 62 | HTT-2010-02 - Switch Adjust, RF Interference on AC Trucks |

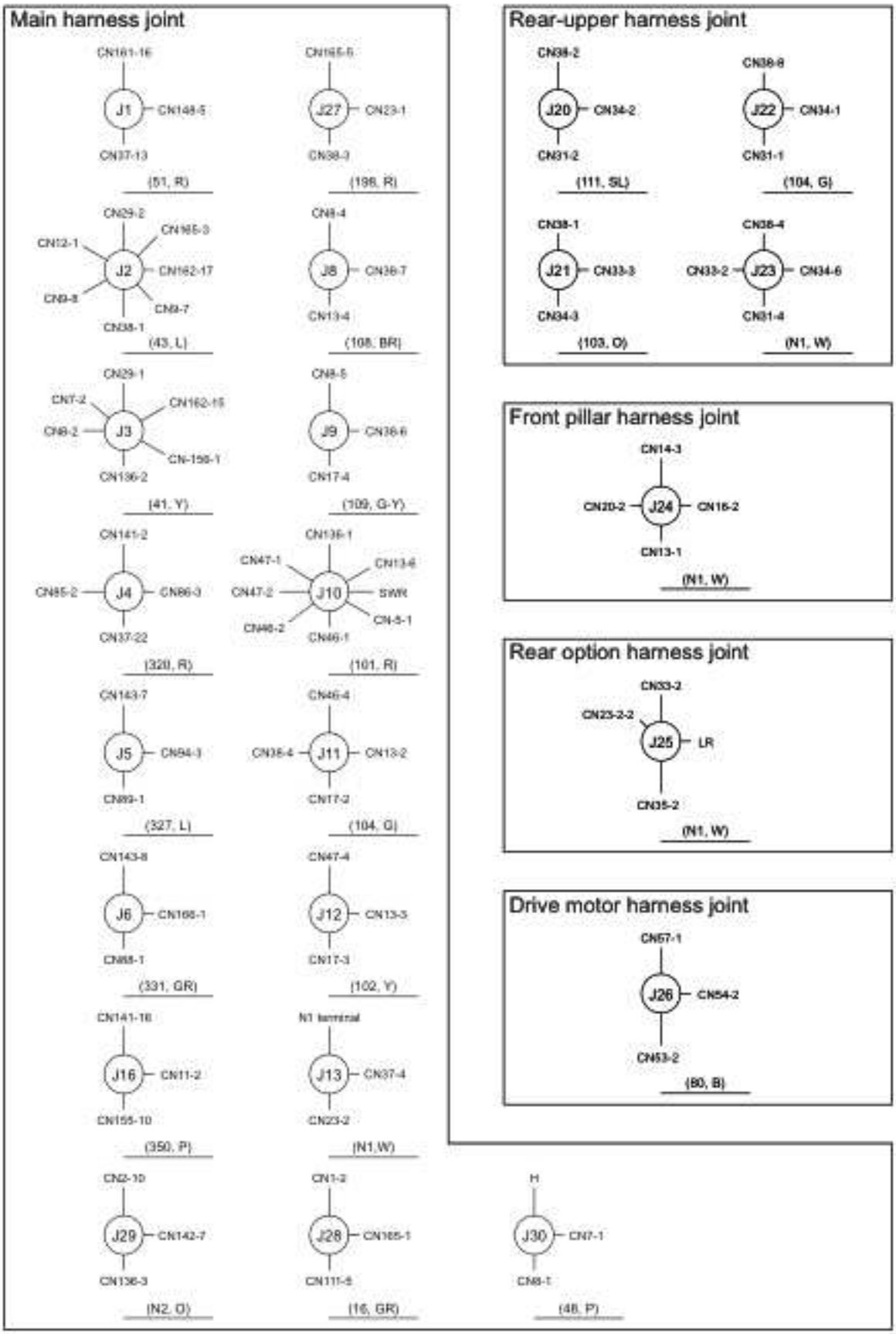

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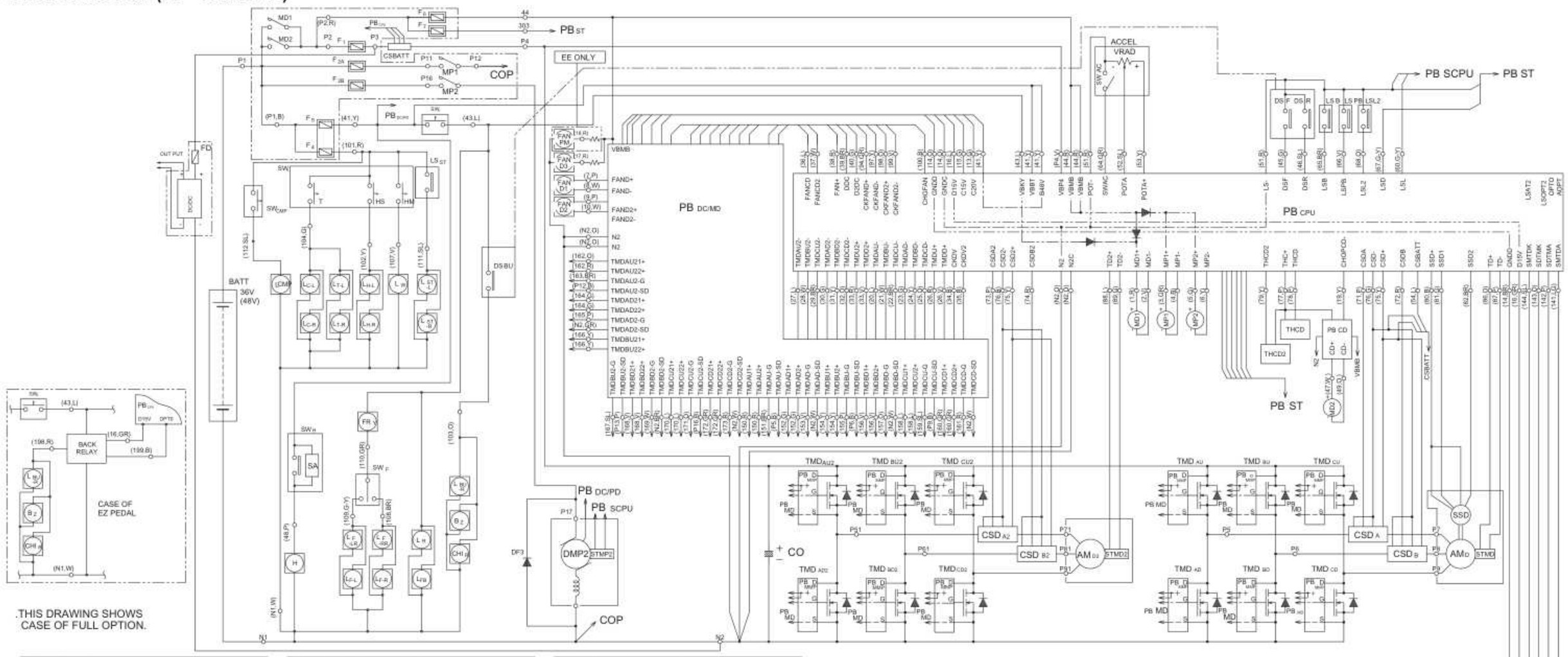
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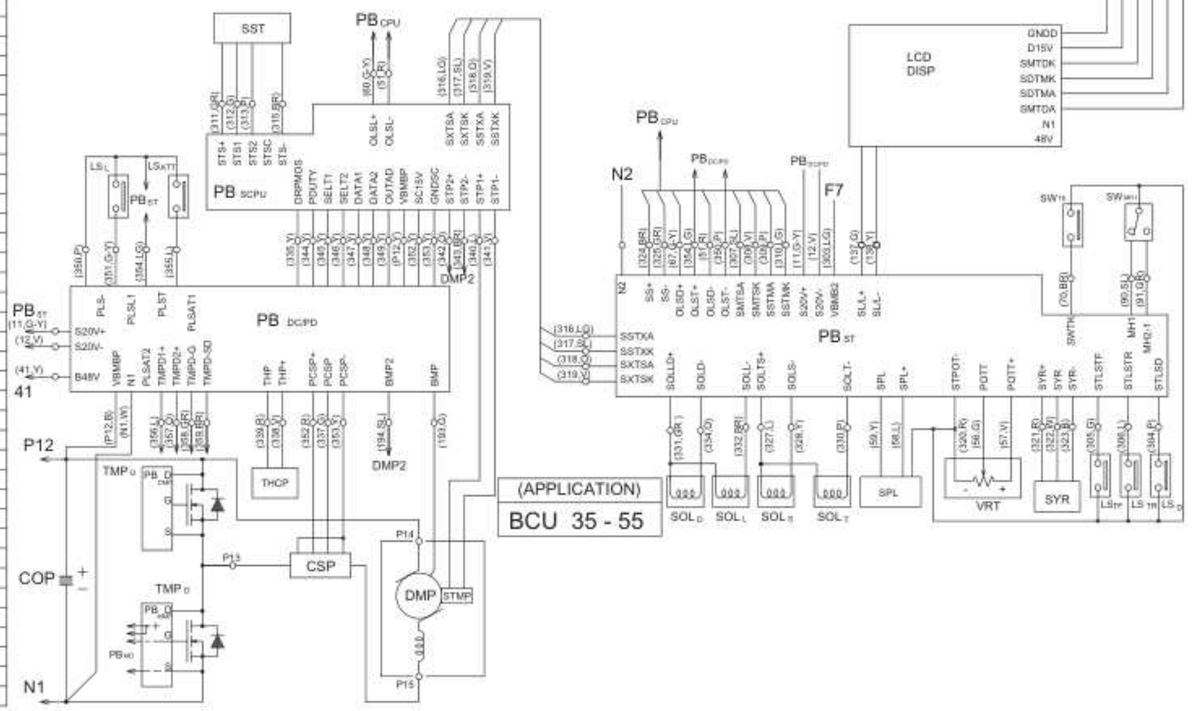
# WIRING DIAGRAM (35 ~ 55 MODEL)




| | |
|---|---|
| BATT | BATTERY |
| F1 | FUSE, DRIVE |
| F2A | FUSE, PUMP NO.1 |
| F2B | FUSE, PUMP NO.2 |
| F4 | FUSE, LAMP |
| F5 | FUSE, CONTROL CIRCUIT |
| F6 | FUSE, CONTROLLER |
| F7 | FUSE, ST CONTROLLER |
| FD | FUSE, DC/DC CONVERTER |
| LCD DISP | LCD DISPLAY |
| THCD | THERMO, DRIVE |
| THCD2 | THERMO, DRIVE 2 |
| THCP | THERMO, PUMP |
| AM D | MOTOR, DRIVE |
| AM D2 | MOTOR, DRIVE 2 |
| DM P | MOTOR, PUMP |
| DM P2 | MOTOR, PUMP 2 |
| SOL S | SOLENOID, SWING |
| SOL D | SOLENOID, DEAD MAN |
| SOL L | SOLENOID, LIFT |
| SOL T | SOLENOID, TILT |
| FAN D1 | FAN, DRIVE 1 |
| FAN D2 | FAN, DRIVE 2 |
| FAN D3 | FAN, DRIVE 3 |
| FAN PM | FAN, PUMP MOTOR |
| VRAD | VARI-OHM, ACCEL, DRIVE |
| VRT | VARI-OHM, TILT |
| PB CPU | PRINT BOARD, COMPUTER |
| PB DC/MD | PRINT BOARD, DC/MD |
| PB CD | PRINT BOARD, CD |
| PB MMP | PRINT BOARD, MMP |
| PB DMP | PRINT BOARD, DMP |
| PB SCPU | PRINT BOARD, SK/PS COMPUTER |
| PB DC/PD | PRINT BOARD, DC/PD |
| PB ST | PRINT BOARD, ST |
| SYR | SENSOR, YAWRATE |

| | |
|---|---|
| SSD | SENSOR, SPEED, DRIVE |
| SPL | SENSOR, PRESSURE LIFT |
| SST | SENSOR, STEERING |
| TMD AU | TRANSISTOR, MAIN, DRIVE, PHASE A UPR |
| TMD BU | TRANSISTOR, MAIN, DRIVE, PHASE B UPR |
| TMD CU | TRANSISTOR, MAIN, DRIVE, PHASE C UPR |
| TMD AD | TRANSISTOR, MAIN, DRIVE, PHASE A LWR |
| TMD BD | TRANSISTOR, MAIN, DRIVE, PHASE B LWR |
| TMD CD | TRANSISTOR, MAIN, DRIVE, PHASE C LWR |
| TMD AU2 | TRANSISTOR, MAIN, DRIVE, PHASE A UPR 2 |
| TMD BU2 | TRANSISTOR, MAIN, DRIVE, PHASE B UPR 2 |
| TMD CU2 | TRANSISTOR, MAIN, DRIVE, PHASE C UPR 2 |
| TMD AD2 | TRANSISTOR, MAIN, DRIVE, PHASE A LWR 2 |
| TMD BD2 | TRANSISTOR, MAIN, DRIVE, PHASE B LWR 2 |
| TMD CD2 | TRANSISTOR, MAIN, DRIVE, PHASE C LWR 2 |
| TMPU | TRANSISTOR, MAIN, PUMP, PHASE UPR |
| TMPD | TRANSISTOR, MAIN, PUMP, PHASE LWR |
| CO | CAPACITOR, OVERALL |
| COP | CAPACITOR, OVERALL PUMP |
| CSBATT | CURRENT SENSOR, BATTERY |
| CSD A | CURRENT SENSOR, DRIVE, PHASE A |
| CSD B | CURRENT SENSOR, DRIVE, PHASE B |
| CSD A2 | CURRENT SENSOR, DRIVE, PHASE A2 |
| CSD B2 | CURRENT SENSOR, DRIVE, PHASE B2 |
| CSP | CURRENT SENSOR, PUMP, PHASE |
| MD1 | CONTACTOR, DRIVE 1 |
| MD2 | CONTACTOR, DRIVE 2 |
| MP1 | CONTACTOR, PUMP 1 |
| MP2 | CONTACTOR, PUMP 2 |
| SW AC | SWITCH, ACCEL |
| SW K | SWITCH, KEY |
| SW L | SWITCH, LIGHT |
| SW F | SWITCH, FLASHER |
| SW H | SWITCH, HORN |
| SW TK | SWITCH, TILT KNOB |
| SW HH1 | SWITCH, HIGHT NO.1 |

| | |
|---|---|
| SW CMP | SWITCH, COMPARTMENT |
| DC/DC | DC/DC CONVERTER |
| | |
| DS F | DIRECTION SWITCH, FORWARD |
| DS R | DIRECTION SWITCH, REVERSE |
| DS BU | DIRECTION SWITCH, BACK-UP |
| LS L | LIMIT SWITCH, LIFT |
| LS L2 | LIMIT SWITCH, LIFT NO2 |
| LS ATT | LIMIT SWITCH, ATTACHMENT |
| LS ST | LIMIT SWITCH, STOP LAMP |
| LS B | LIMIT SWITCH, BRAKE |
| LS PB | LIMIT SWITCH, PARKIG BRAKE |
| LS TF | LIMIT SWITCH, TILT FR |
| LS TR | LIMIT SWITCH, TILT RR |
| LS D | LIMIT SWITCH, DEAD MAN |
| L H-L | LAMP, HEAD LH |
| L H-R | LAMP, HEAD RH |
| L C-L | LAMP, CLEARANCE LH |
| L C-R | LAMP, CLEARANCE RH |
| L T-L | LAMP, TAIL LH |
| L T-R | LAMP, TAIL RH |
| L W | LAMP, WORKING |
| L F-LR | LAMP, FLASHER LH (REAR) |
| L F-RR | LAMP, FLASHER RH (REAR) |
| L F-L | LAMP, FLASHER LH |
| L F-R | LAMP, FLASHER RH |
| L ST-L | LAMP, STOP LH |
| L ST-R | LAMP, STOP RH |
| L R | LAMP, ROTALY |
| L BU-R | LAMP, BACK-UP RH |
| L FB | LAMP, FLASH BEACON |
| L CMP | LAMP, COMPARTMENT |
| BZ | BUZZER |
| CHIR | CHIME, REVERSE |
| H | HORN |
| FR Y | RELAY, FLASHER |






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