# Service Manual

## 8052
## 8060

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(Service Manuals available from JCB Service, quote publication 9806/2100)

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## *Technical Data - 8060

### Pump Type

Single variable displacement, flow on demand piston pump, fully load sensed.

| | | | |
|---|---|---|---|
| Max. flow | 140 l/min. | 30.7 UK gal/min. | 36.5gal/min. |
| Weight | 33 kg | | |

### Pump Flow Rates

Variable displacement, return to idle pump.
Allmeasured flows corrected to engine speed of 2500 rev/min. with hydraulic oil at approx. 50°C.
Flow and pressure measured at auxiliary circuit.

| Pressure | Flow | | |
|---|---|---|---|
| 20 bar (290 lbf/in²) | 81 l/min. | 18.00 UK gal/min. | 21.5 US gal/min. |
| 60 bar (870 lbf/in²) | 78 l/min. | 17.00 UK gal/min. | 20.5 US gal/min. |
| 100 bar (1450 lbf/in²) | 78 l/min. | 17.00 UK gal/min. | 20.5 US gal/min. |
| 144 bar ( 2088 lbf/in²) | 78 l/min. | 16.75 UK gal/min. | 20.0 US gal/min. |
| 168 bar ( 2436 lbf/in²) | 74 l/min. | 16.25 UK gal/min. | 19.5 US gal/min. |
| 192 bar (2784 lbf/in²) | 73 l/min | 16.00 UK gal/min | 19.0 US gal/min. |

### Relief Valve Operating Pressures

| | bar | lbf/in² |
|---|---|---|
| Load Sense Relief Valve | 213 | 3100 |
| Servo Pressure Maintenance Valve | 35 | 500 |

### Auxiliary Relief Valves (A.R.V.)

| | Head Side | | Rod Side | |
|---|---|---|---|---|
| | bar | lbf/in² | bar | lbf/in² |
| Boom | 280 | 4060 | 280 | 4060 |
| Dipper | 280 | 4060 | 280 | 4060 |
| Bucket | 280 | 4060 | Anti-cavitation only | |
| Swing | Anti-cavitation only | | Anti-cavitation only | |
| Dozer | 280 | 4060 | Anti-cavitation only | |

### Slew Motor and Gearbox

| | |
|---|---|
| Cross line Relief Valves | |
| Motor Displacement | 45.5 cc/rev |
| Working Pressure | 200 Kgf/cm² |
| Gear Ratio | 15.5 : 1 |
| Output Torque | 189Kgf-m @ 200Kgf/cm² |
| Working Temperature | -30°C to + 80°C |
| Weight | 67kg |
| Grease | 150cc from empty |
| Pinion Teeth - Total | 13 |

### Track Motor and Gearbox

| | |
|---|---|
| Counter Balance Valves | |
| Motor Displacement | |
| - Low speed | 44.1cm³/rev. |
| - High speed | 23.5cm³/rev. |
| Gear Ratio | 53 : 1 |
| Max Pressure | 230bar |
| Max. Flow | 72.5 l/min. |
| Min. Pressure to release parking brake | 13 bar |
| Max. Output | |
| - Low Speed | 161.4 Nm |
| - High Speed | 86 Nm |



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## Track Motor - 8060

### Dismantling and Assembly

**Note:** *Cover all open orifices to prevent dirt entering the hydraulic system.*

**Brake Valve Assembly**

When removing the valve spools, note their orientation; they must be refitted correctly or the valve will not operate properly.

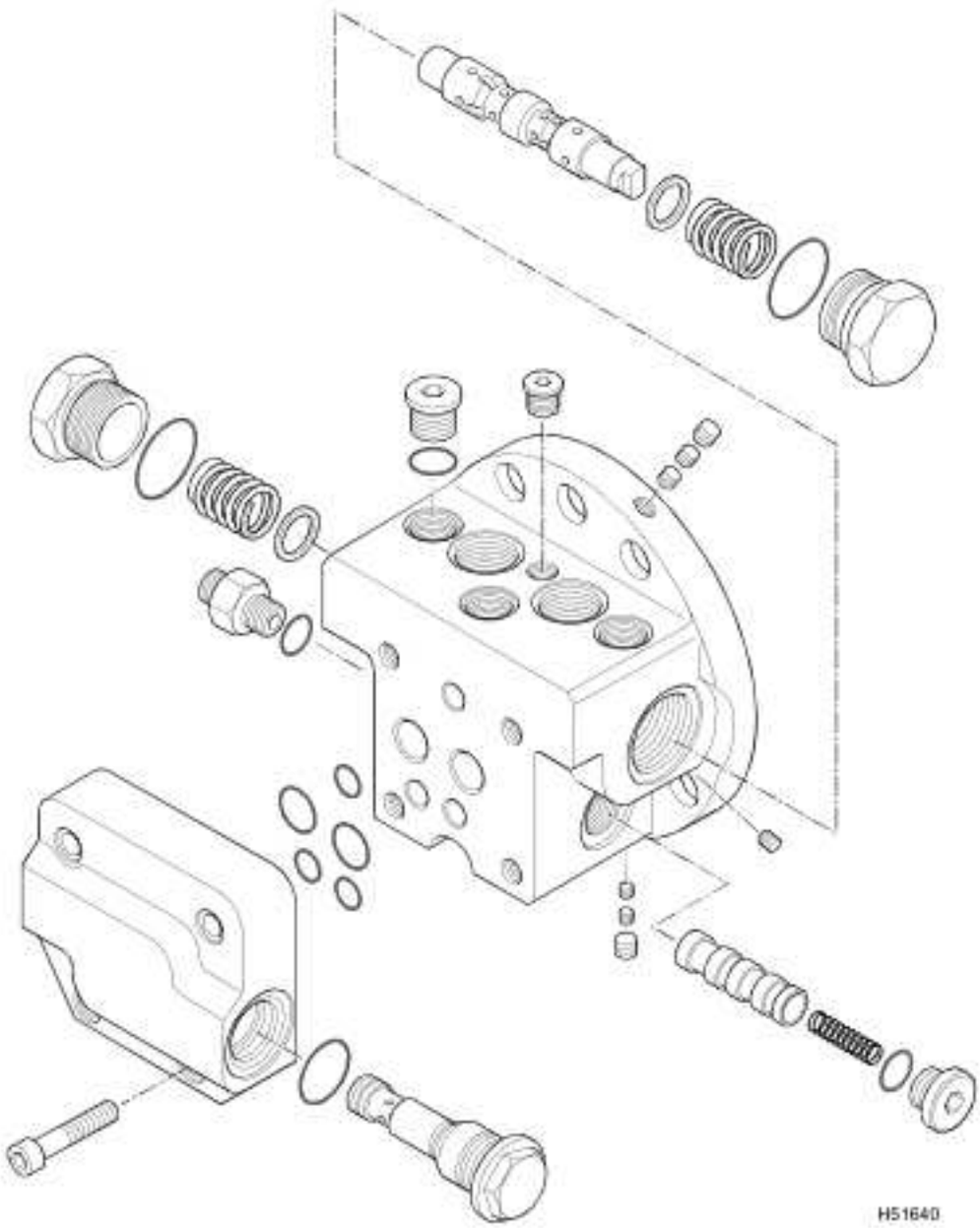
Thoroughly clean each part with solvent before assembling. Keep parts free from debris and foreign material, any dirt trapped between components will cause accelerated wear and may cause seizure.

Take care to protect all mating and sealing parts, such as 'O' rings and oil seals from damage during assembly.

Replace counterbalance spool, spring seat ring and spring into valve housing. Renew 'O' ring on plug. Torque tighten plug to 220 Nm.

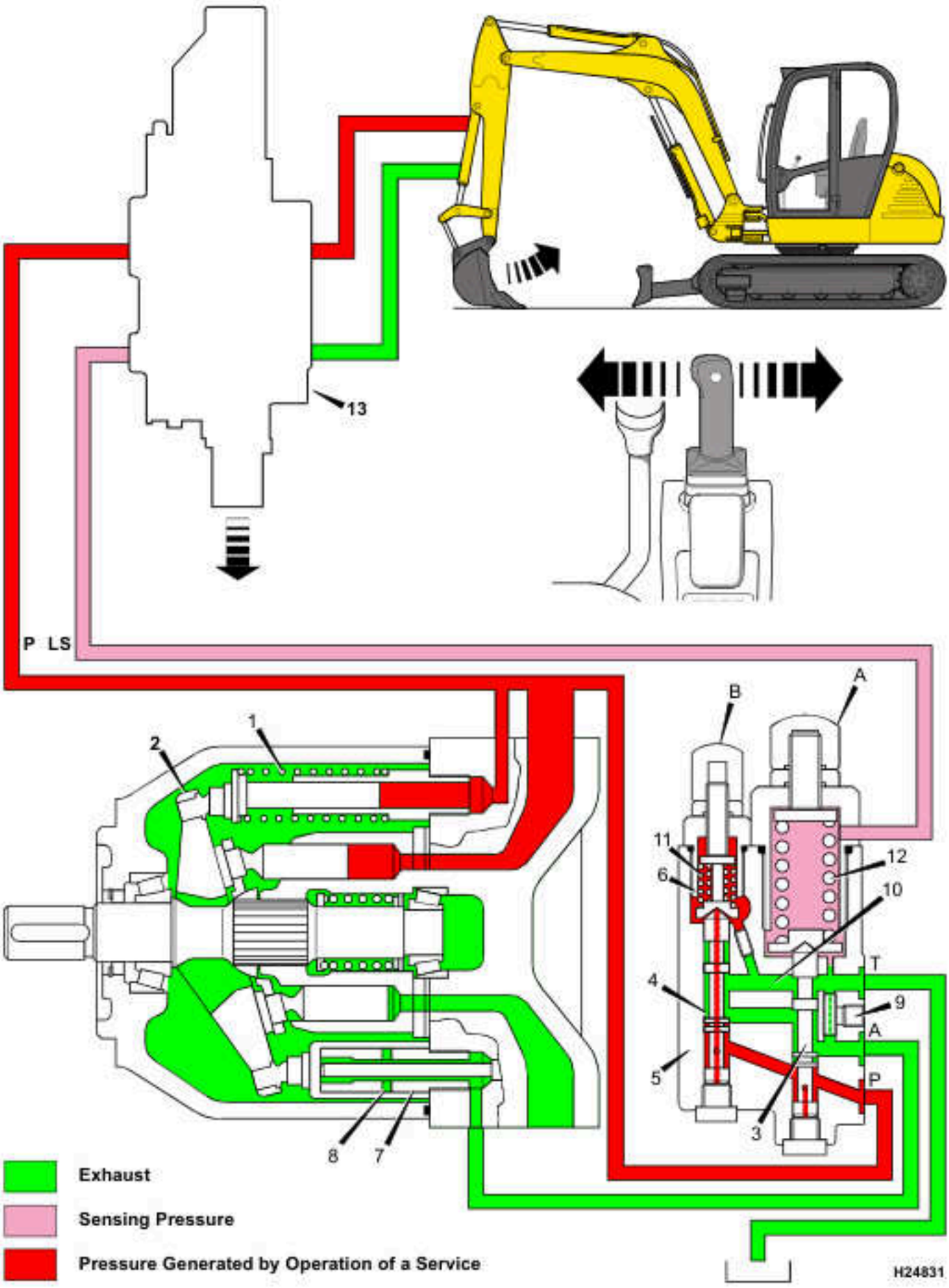
Replace Two speed tracking selector spool, ensuring it is fitted the correct way round, into the housing followed by its spring. Fit new 'O' ring to plug and torque plug to 48 Nm.

Insert shuttle spool into housing, renew 'O' rings, replace plugs, and torque to 18 Nm.






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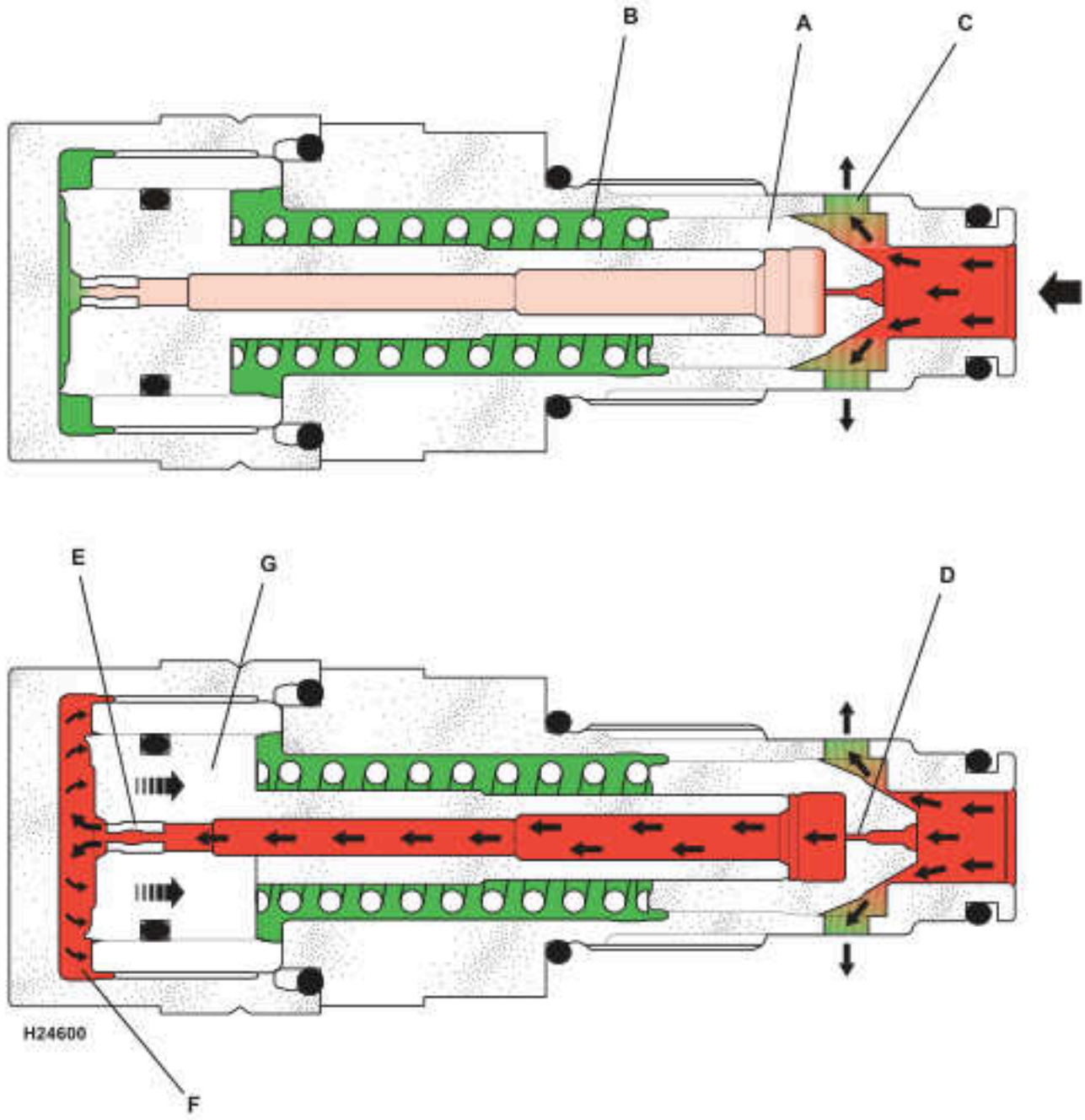
## Slew Motor

### Crossline Relief Valves

The crossline relief valve fitted to the track motors are two stage direct acting valves.

*When the operator returns the slew service to neutral, the momentum of the slewing superstructure turns the motor into a pump. This pressurised oil fills the open centre of poppet **A** and loads top of piston **G** which moves across compressing spring **B**. The momentum continues to increase the pressure load against poppet **A** until the spring force is overcome. Poppet **A** opens allowing excess pressure to vent through **C**.

*As the slewing superstructure slows, momentum induced pressure begins to reduce. The spring **B** returns piston and poppet to their respective seats and the escape path for the oil is closed. The machine is consequently brought progressively and smoothly to rest.






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## Main Harness - 721/10635 Issue 3

**8060** machines from 0883000

| MA | PRI FUSES 1 & 3 | | | AU |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| A | 316 | 4.0 | MS 7 | AW |
| B | 310D | 10.0 | S14 | AX |

| MC | STARTER PRE ENG | | | |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 842 | 4.0 | NX C | S,T |

| MD | ALTERNATOR | | | AY,BX |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| B | 310B | 10.0 | S14 | BR |
| R | 108S | 1.0 | S12 | AZ |
| L | 407 | 1.0 | S3 | AZ |

| ME | TEMP SWITCH | | | |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 406B | 1.0 | S8 | BK,BY |

| MF | EARTH RING (M10) | | | - |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 600 | 6.0 | S5 | BK,BY |
| | 600BH | 4.0 | NE 2 | |
| | 600J | 4.0 | S1 | |

| MG | FUEL CUT-OFF | | | - |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 105 | 1.4 | MS 16 | BR |

| MH | GLOW PLUG | | | - |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 998A | 4.0 | S7 | BP,BY |

| MJ | OIL PRESSURE | | | - |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 403B | 1.0 | S10 | BN,BY |

| ML | FUEL SENDER | | | AC,AD |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 408 | 1.0 | MY 4 | AE,AF |
| 2 | 600CE | 1.0 | S5 | AE,AF |

| MM | BOOM LIGHT | | | A,B |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 916 | 1.0 | MV 3 | G,J |
| 2 | 600AV | 1.0 | S5 | G,J |

| MN | HORN | | | AC,AD |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 870 | 1.0 | MZ 2 | AE,AF |
| 2 | 600EY | 1.0 | S5 | AE,AF |

| MP | CAB CONNECTOR | | | E,F |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 304/209 | 1.0 | S2 | G,J |
| 2 | 832 | 1.0 | MT 2 | G,J |
| 3 | 103H/217 | 1.0 | S13 | G,J |
| 4 | 833 | 1.0 | MT 1 | G,J |
| 5 | 955/228C | 2.0 | NU 1 | H,K |
| 6 | - | - | - | L |
| 7 | 600N | 1.0 | S5 | G,J |
| 8 | 600R | 2.0 | S5 | H,K |

| MR | 2 SPEED DOZER LEVER | | | A,B |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 156D | 1.0 | S4 | G,J |
| 2 | 999 | 1.0 | NK 1 | G,J |

| FUSE NO | MS | FUSE BOX | | | AC,AM, AH |
|---|---|---|---|---|---|
| | TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 1 | | | | |
| 2 | 3 | 301 | 3.0 | MX 5 | AP |
| 3 | 5 | | | | |
| 4 | 7 | 318 | 4.0 | MA A | AT |
| 5 | 9 | | | | |
| 6 | 11 | 317 | 4.0 | NH A | AP |
| 7 | 13 | | | | |
| 8 | 15 | 501K | 2.0 | MX 6 | AS |
| 9 | 17 | | | | |
| 10 | 18 | | | | |
| 11 | 2 | 106E | 1.0 | S12 | AR |
| 12 | 4 | 103 | 1.0 | S13 | AR |
| 13 | 6 | 156 | 2.0 | S4 | AS |
| 14 | 8 | 102 | 4.0 | NY 6 | AT |
| 15 | 10 | 304A | 1.0 | S2 | AR |
| 16 | 12 | 303 | 1.0 | MW 2 | AR |
| 17 | 14 | 116 | 2.0 | NU 5 | AS |
| 18 | 16 | 108 | 1.4 | MG 1 | AS |
| 19 | 18 | | | | |
| 20 | 20 | | | | |

SUPPLY / DISTRIBUTION

| MT | WIPER SWITCH | | | BZ |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 833 | 1.0 | MP 4 | V |
| 2 | 832 | 1.0 | MP 2 | V |
| 3 | 103G | 1.0 | S13 | V |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | 839 | 1.0 | MW 1 | V |
| 7 | 600ED | 1.0 | S1 | V |
| 8 | 106F | 1.0 | S12 | V |

| MV | WORK LIGHTS SW | | | BZ |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | - | - | - | - |
| 2 | 156E | 1.0 | S4 | V |
| 3 | 916 | 1.0 | MM 1 | V |
| 4 | - | - | - | - |
| 5 | 156G | 0.6 | S4 | V |
| 6 | 672 | 1.0 | NU 4 | V |
| 7 | 600DW | 1.0 | S1 | V |
| 8 | 106L | 1.0 | S12 | V |

| MW | BEACON SWITCH | | | BZ |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | - | - | - | - |
| 2 | 303 | 1.0 | MS 12 | V |
| 3 | 884 | 1.0 | ND 1 | V |
| 4 | - | - | - | - |
| 5 | - | - | - | - |
| 6 | - | - | - | - |
| 7 | 600DY | 1.0 | S1 | V |
| 8 | 106N | 1.0 | S12 | V |

| MX | IGNITION SWITCH | | | DB,DC |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 310A | 6.0 | S14 | Y,BY |
| 2 | - | - | - | - |
| 3 | - | - | - | - |
| 4 | - | - | - | - |
| 5 | 001 | 3.0 | MS1-6 | X |
| 6 | 001K | 2.0 | MS 15 | X |
| 7 | 004D | 1.4 | S6 | W |
| 8 | - | - | - | - |
| 9 | - | - | - | - |

| MY | INSTRUMENT PANEL | | | BT |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 106 | 1.0 | S12 | BU |
| 2 | 600T | 1.0 | S1 | BU |
| 3 | - | - | - | - |
| 4 | 408 | 1.0 | ML 1 | BU |
| 5 | - | - | - | - |
| 6 | 407B | 0.6 | S3 | BU |
| 7 | 403A | 0.6 | S10 | BU |
| 8 | 999B | 1.0 | S7 | BU |
| 9 | 434 | 0.6 | NB 2 | BU |
| 10 | 406A | 0.6 | S8 | BU |
| 11 | 402A | 0.6 | S11 | BU |
| 12 | - | - | - | - |

| MZ | HORN BUTTON | | | CE |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 304B | 1.0 | S2 | CF,CG |
| 2 | 870 | 1.0 | MN 1 | CF,CG |

| NB | DIODE CONNECTOR | | | C,D |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 411 | 0.6 | NC 4 | G,J |
| 2 | 434 | 0.6 | MY 9 | G,J |
| 3 | 406 | 0.6 | S8 | G,J |
| 4 | 403 | 0.6 | S10 | G,J |
| 5 | 402 | 0.6 | S11 | G,J |
| 6 | 407A | 0.6 | S3 | G,J |

| NC | BUZZER | | | CA |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 106C | 0.6 | S12 | V |
| 2 | - | - | - | - |
| 3 | - | - | - | - |
| 4 | 411 | 0.6 | NB 1 | V |
| 5 | - | - | - | - |

| ND | BEACON FEED | | | U |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 894 | 1.0 | MW 3 | R |
| 2 | 600CZ | 1.0 | S6 | R |

| NE | HEATER | | | AH |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 600EB | 1.0 | S5 | V |
| 2 | 600BH | 4.0 | MF 1 | X |
| 3 | 964 | 1.0 | NZ 1 | V |
| 4 | 936 | 4.0 | NY 1 | X |

| NF | AUX. POWER | | | A,B |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 156F | 1.4 | S4 | H,K |
| 2 | 600CC | 1.4 | S1 | H,K |

| NH | PRI FUSE 2 & 4 | | | AV |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| A | 317 | 4.0 | MS9-13 | AW |
| B | - | - | - | - |

| NJ | MICRO SWITCH | | | A,B |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 156C | 1.0 | S4 | G,J |
| 2 | 960 | 1.0 | NR 1 | G,J |

| NK | 2 SPEED SOLENOID | | | AG |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 999 | 1.0 | MR 2 | AA,AB |
| 2 | 600KY | 1.0 | S1 | AA,AB |

| NR | PILOT SOLENOID | | | Z |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 960 | 1.0 | NJ 2 | AA,AB |
| 2 | 600JR | 1.0 | S1 | AA,AB |

| NS | AIR FILTER | | | Z |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 402B | 1.0 | S11 | AA,AB |
| 2 | 600CF | 1.0 | S1 | AA,AB |

| NU | WORKLIGHTS RELAY | | | CA |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 955/228C | 2.0 | MP 5 | W |
| 2 | 600PG | 1.0 | S5 | V |
| 3 | - | - | - | - |
| 4 | 672 | 1.0 | MV 6 | V |
| 5 | 116 | 2.0 | MS 14 | W |

| NV | RADIO | | | A,B |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 304 | 1.0 | S2 | G,J |
| 2 | 600ML | 1.0 | S5 | G,J |

| NW | WASHER PUMP | | | U |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 838 | 1.0 | MT 6 | R |
| 2 | 600BG | 1.0 | S1 | R |

| NX | SAFETY RELAY | | | BD |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| B | 310U | 4.0 | S14 | BA,BB |
| C | 842 | 4.0 | MC 1 | BF,BG |
| E | 600V | 1.4 | S1 | BE |
| R | 407F | 1.4 | S3 | BE |
| S | 004C | 1.4 | S6 | BE |

| NY | BLOWER RELAY | | | CA |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 936 | 4.0 | NE 4 | X |
| 2 | 600FH | 1.0 | S5 | V |
| 3 | - | - | - | - |
| 4 | 106AT | 1.0 | S12 | V |
| 5 | 102 | 4.0 | MS 8 | X |

| NZ | PRESSURE SWITCH | | | A,B |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 964 | 1.0 | NE 3 | G,J |
| 2 | 961 | 1.0 | PA 1 | G,J |

| PA | COMPR.SOLENOID | | | CD |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 961 | 1.0 | NZ 2 | CF,CG |

| PB | GLOW PLUG TIMER | | | BC |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 106AX | 1.0 | S12 | AZ |
| 2 | - | - | - | - |
| 3 | 004B | 1.0 | S6 | AZ |
| 4 | 600GW | 1.0 | S5 | AZ |
| 5 | 603 | 1.0 | PC 4 | AZ |
| 6 | 445 | 1.0 | PD 1 | AZ |

| PC | GLOW PLUG RELAY | | | AY |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 310V | 4.0 | S14 | BA,BB |
| 2 | 999 | 4.0 | S7 | BA,BB |
| 3 | 106AY | 1.0 | S12 | AZ |
| 4 | 603 | 1.0 | PB 5 | AZ |

| PD | TEMPERATURE SENSOR | | | Z |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | 445 | 1.0 | PB 6 | AA,AB |
| 2 | 600LZ | 1.0 | S1 | AA,AB |

| PE | BLANKING PLUG | | | M |
|---|---|---|---|---|
| TERM | WIRE | SIZE | DEST | TYPE |
| 1 | - | - | - | L |
| 2 | - | - | - | L |

| S1 | MS9 SPLICE | | AD,AE |
|---|---|---|---|
| WIRE | SIZE | DEST | |
| 600J | 4.0 | MF 1 | |
| 600T | 1.0 | MY 2 | |
| 600V | 1.4 | NX E | |
| 600BG | 1.0 | NW 2 | |
| 600CC | 1.4 | NF 2 | |
| 600CF | 1.0 | NS 2 | |
| 600DW | 1.0 | MV 7 | |
| 600DY | 1.0 | MW 7 | |
| 600ED | 1.0 | MT 7 | |
| 600JR | 1.0 | NR 2 | |
| 600KY | 1.0 | NK 2 | |
| 600LZ | 1.0 | PD 2 | |

| S2 | SPLICE | | AD,AE |
|---|---|---|---|
| WIRE | SIZE | DEST | |
| 304A | 1.0 | MS 10 | |
| 304B | 1.0 | MZ 1 | |
| 304/209 | 1.0 | MF 1 | |
| 304 | 1.0 | NV 1 | |

| S3 | SPLICE | | AD,AE |
|---|---|---|---|
| WIRE | SIZE | DEST | |
| 407 | 1.0 | MD L | |
| 407A | 0.6 | NB 6 | |
| 407B | 0.6 | MY 6 | |
| 407F | 1.4 | NX R | |

| S4 | SPLICE | | AD,AE |
|---|---|---|---|
| WIRE | SIZE | DEST | |
| 156 | 2.0 | MS 6 | |
| 156C | 1.0 | NJ 1 | |
| 156D | 1.0 | MR 1 | |
| 156E | 1.0 | MV 2 | |
| 156F | 1.4 | NF 1 | |
| 156G | 0.6 | MV 5 | |

| S5 | MS9 SPLICE | | AD,AE |
|---|---|---|---|
| WIRE | SIZE | DEST | |
| 600 | 6.0 | MF 1 | |
| 600N | 1.0 | MP 7 | |
| 600R | 2.0 | MP 6 | |
| 600AV | 1.0 | MM 2 | |
| 600CE | 1.0 | ML 2 | |
| 600CZ | 1.0 | ND 2 | |
| 600EB | 1.0 | NE 1 | |
| 600EY | 1.0 | MN 2 | |
| 600FG | 1.0 | NU 3 | |
| 600FH | 1.0 | NY 2 | |
| 600GW | 1.0 | PB 4 | |
| 600ML | 1.0 | NV 2 | |

| S6 | SPLICE | | AD,AE |
|---|---|---|---|
| WIRE | SIZE | DEST | |
| 004B | 1.0 | PB 3 | |
| 004C | 1.4 | NX S | |
| 004D | 1.4 | MX 7 | |

| S7 | SPLICE | | AD,AE |
|---|---|---|---|
| WIRE | SIZE | DEST | |
| 999 | 4.0 | PC 2 | |
| 999A | 4.0 | MH 1 | |
| 999B | 1.0 | MY 8 | |

| S8 | SPLICE | | AD,AE |
|---|---|---|---|
| WIRE | SIZE | DEST | |
| 408 | 0.6 | NB 3 | |
| 408A | 0.6 | MY 10 | |
| 408B | 1.0 | ME 1 | |

| S10 | SPLICE | | AD,AE |
|---|---|---|---|
| WIRE | SIZE | DEST | |
| 403 | 0.6 | NB 4 | |
| 403A | 0.6 | MY 7 | |
| 403B | 1.0 | MJ 1 | |

| S11 | SPLICE | | AD,AE |
|---|---|---|---|
| WIRE | SIZE | DEST | |
| 402 | 0.6 | NB 5 | |
| 402A | 0.6 | MY11 | |
| 402B | 1.0 | NS 1 | |

| S12 | SPLICE | | AD,AE |
|---|---|---|---|
| WIRE | SIZE | DEST | |
| 106 | 0.6 | MY 1 | |
| 106C | 0.6 | NC 1 | |
| 106E | 1.0 | MS 2 | |
| 106L | 1.0 | MV 8 | |
| 106N | 1.0 | MW 8 | |
| 106P | 1.0 | MT 8 | |
| 106S | 1.0 | MD R | |
| 106AT | 1.0 | NY 4 | |
| 106AX | 1.0 | PB 1 | |
| 106AY | 1.0 | PC 3 | |

| S13 | SPLICE | | AD,AE |
|---|---|---|---|
| WIRE | SIZE | DEST | |
| 103 | 1.0 | MS 4 | |
| 103H/217 | 1.0 | MP 3 | |
| 103G | 1.0 | MT 3 | |

| S14 | SPLICE | | AD,AE |
|---|---|---|---|
| WIRE | SIZE | DEST | |
| 310A | 6.0 | MX 1 | |
| 310B | 10.0 | MD B | |
| 310D | 10.0 | MA B | |
| 310U | 4.0 | NX B | |
| 310V | 4.0 | PC 1 | |

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