

MITSUBISHI

FORKLIFT TRUCKS

SERVICE MANUAL

FG15K	EF31A-50001-up
FD15K	EF16B-55001-up
FG18K	EF31A-75001-up
FD18K	EF16B-75001-up
FG20K	EF17B-05001-up
FD20K	EF18B-05001-up
FG25K	EF17B-55001-up
FD25K	EF18B-55001-up
FG30K	EF13D-35001-up
FD30K	EF14C-35001-up
FG35K	EF13D-55001-up
FD35K	EF14C-55001-up

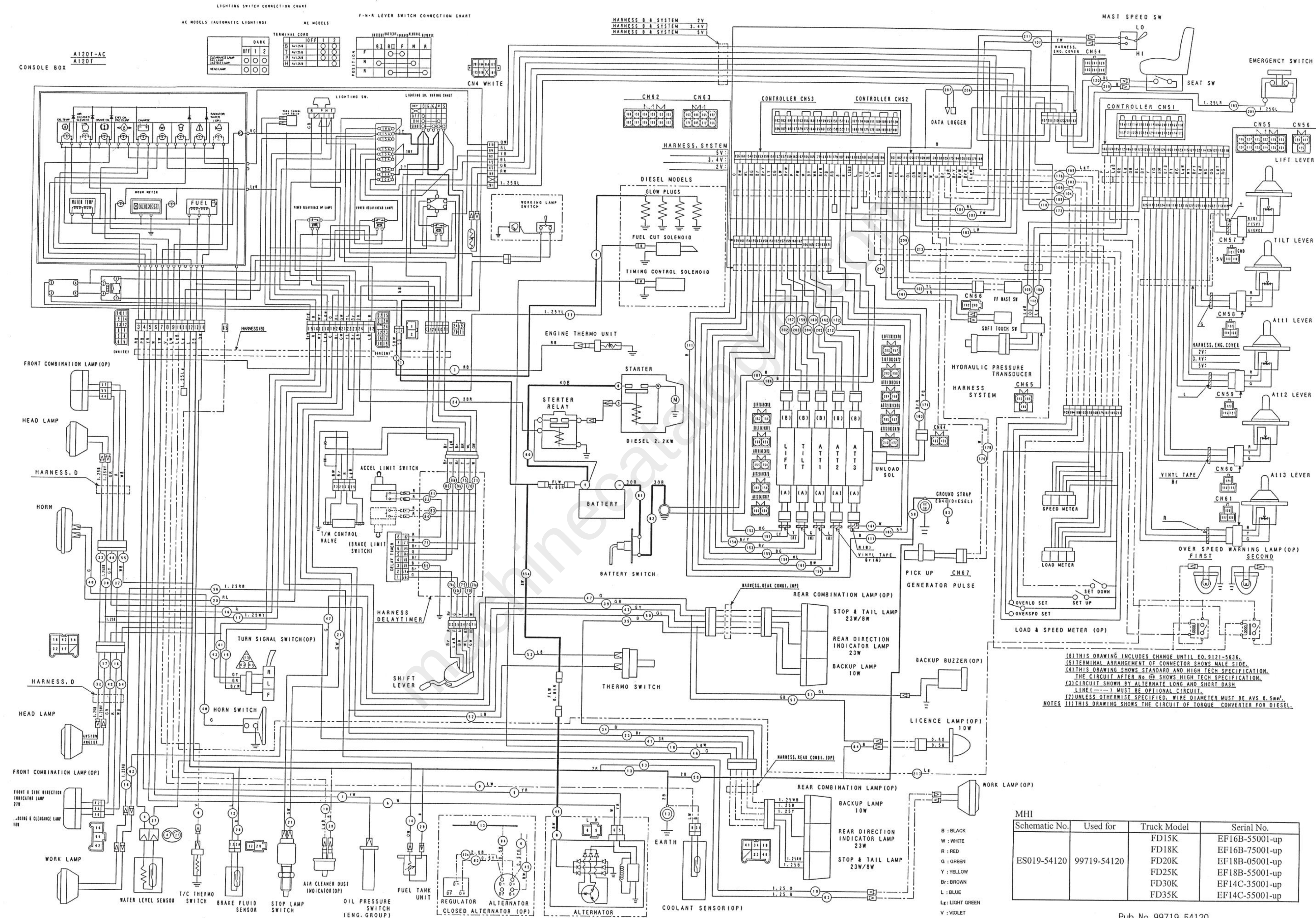
NOTE

For use with the 4G63/4G64
Gasoline Engine Service Manual.

For use with the S4Q2/S4S
Diesel Engine Service Manual.

MC
CHASSIS
MAST
OPTIONS

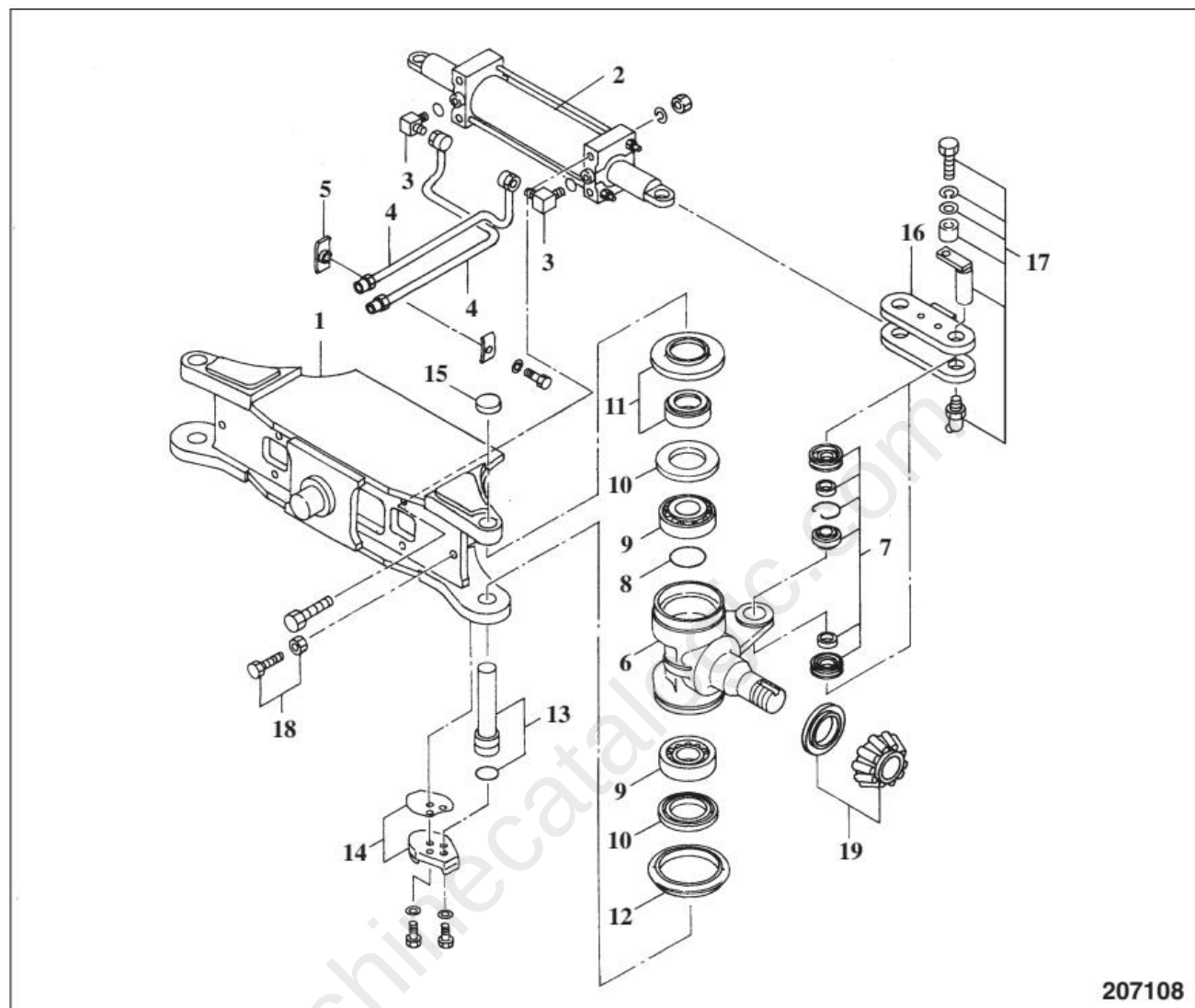
Electrical Schematic (Type : Diesel)



(1) THIS DRAWING INCLUDES CHANGE UNTIL EQ. 3121-5636.
(2) TERMINAL ARRANGEMENT OF CONNECTOR SHOWS MALE SIDE.
(3) THIS DRAWING SHOWS STANDARD AND HIGH TECH SPECIFICATION.
(4) THE CIRCUIT AFTER NO. 60 SHOWS HIGH TECH SPECIFICATION.
(5) CIRCUIT SHOWN BY ALTERNATE LONG AND SHORT DASH LINE (---) MUST BE OPTIONAL CIRCUIT.
(6) UNLESS OTHERWISE SPECIFIED, WIRE DIAMETER MUST BE AVS 0.5mm.
NOTES (1) THIS DRAWING SHOWS THE CIRCUIT OF TORQUE CONVERTER FOR DIESEL.

MHI			
Schematic No.	Used for	Truck Model	Serial No.
ES019-54120	99719-54120	FD15K	EF16B-55001-up
		FD18K	EF16B-75001-up
		FD20K	EF18B-05001-up
		FD25K	EF18B-55001-up
		FD30K	EF14C-35001-up
		FD35K	EF14C-55001-up

Reassembly



207108

Assembly sequence

- | | |
|--|--|
| 1 Rear axle | 11 Cover, Retainer |
| 2 Steering cylinder, Bolt, Spring washer, Nut | 12 Boot |
| 3 Elbow, O-ring | 13 Kingpin, O-ring, Bolt, Spring washer |
| 4 Pipe (L.H., R.H.) | 14 Kingpin plate, Shim, Bolt, Spring washer |
| 5 Clamp, Bolt, Spring washer | 15 Cover |
| 6 Knuckle | 16 Tie-rod |
| 7 Spherical bushing, Ring, Retainer, Dust seal | 17 Tie-rod pin, Bolt, Spring washer, Plain washer, Collar, Grease nipple |
| 8 O-ring | 18 Stopper bolt, Lock nut |
| 9 Taper roller bearing | 19 Retainer, Taper roller bearing |
| 10 Oil seal | |

Sequence

- | | |
|--------------------------------|---|
| 1 Tie rod bolts, Nuts | 22 Lift section |
| 2 End cover | 23 O-ring |
| 3 O-ring | 24 Spring, Poppet |
| 4 Main relief valve, O-ring | 25 Cap, Screw |
| 5 Connector, O-ring | 26 Spool |
| 6 Plug, O-ring | 27 Screw, O-ring, Seat, Spring |
| 7 Sleeve, Snap ring | 28 Plate, Wiper, O-ring |
| 8 Spool, Spring | 29 Tilt lock valve, Spring |
| 9 Plug | 30 Plate, Wiper, O-ring, Screw |
| 10 Housing, O-ring, Poppet | 31 Tilt section |
| 11 Spring | 32 O-ring |
| 12 Inlet section | 33 Spring, Poppet |
| 13 O-ring | 34 Cap, Screw |
| 14 Spring, Poppet | 35 Spool |
| 15 Cap, Screw | 36 Screw, Seat, Spring |
| 16 Spool | 37 Plate, Wiper, O-ring |
| 17 Screw, Seat, Spring | 38 Plate, Wiper, O-ring, Screw |
| 18 Plate, Wiper, O-ring | 39 Shutoff valve assembly (or Overload relief valve (option)) |
| 19 Plate, Wiper, O-ring, Screw | 40 Attachment section |
| 20 Plug, O-ring | |
| 21 Connector, O-ring | |

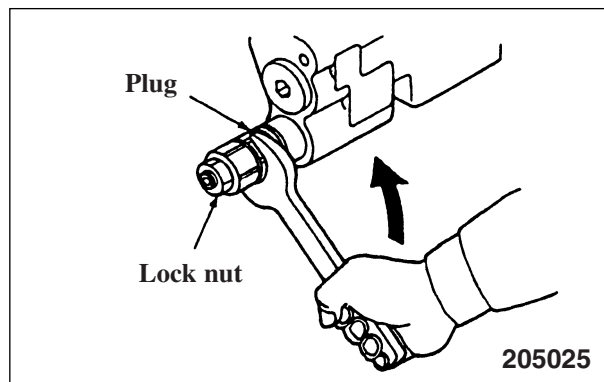
Suggestions

1. Main relief valve

Do not remove main relief valve 4 unless it is defective. This applies to overload relief valve 39 (option) of the attachment section.

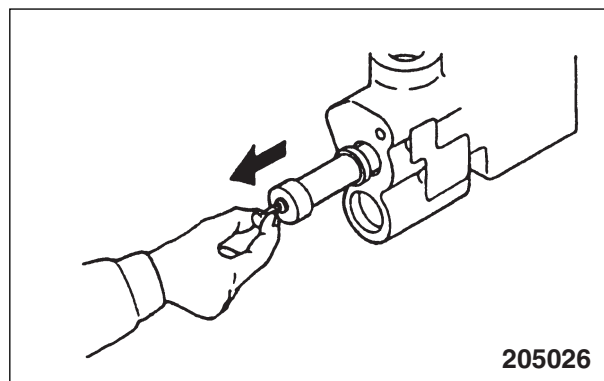
NOTE

To remove the main relief valve for cleaning or inspection, loosen its plug. Loosening the lock nut will disturb the pressure setting.



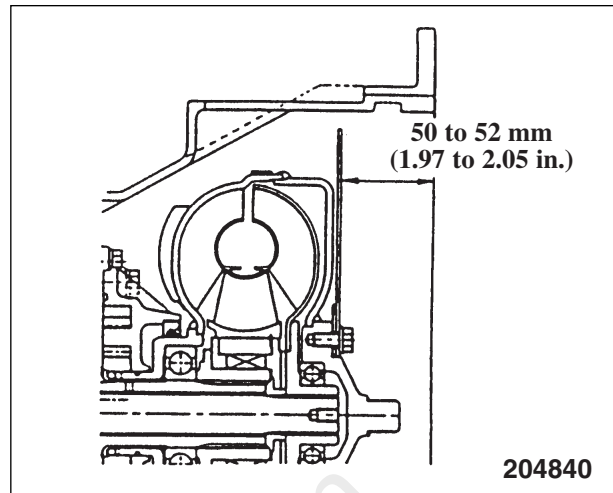
2. Inlet section

- (1) To remove connector 5, loosen plug 6 two or three full turns.
- (2) To remove spool 8, screw a bolt into the hole (M6 × 1) of the spool and pull out the spool squarely by gripping the bolt before removing sleeve 7.



7. Installing torque converter

- (1) Install the torque converter in position by mating the splines of stator shaft and by positioning the groove of pump drive gear correctly.
- (2) Make sure that the distance between the end face of torque converter housing and the mating face of flexible plate is 50 to 52 mm (1.97 to 2.05 in.).
- (3) Support the flexible plate to the torque converter housing with a wire to prevent the torque converter from slipping out of position until the torque converter is coupled to the engine.



8. Filling torque converter with AFT

Fill the torque converter after the transmission has been mounted on the truck and the engine is ready to be started.

Run the engine at idle speed for a while. Stop the engine and, after 1 minute, check the oil level in the transmission with the oil level gauge in 15 minutes.

Full Version Available

Mitsubishi FD30K MC Forklift Service Manual (99719-54120)

Mitsubishi FD30K MC forklift service manual PDF, covers diesel engine, hydraulics, drive train, and wiring diagnostics. Instant PDF download.

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