

# **MITSUBISHI**

## **FORKLIFT TRUCKS**

# **SERVICE MANUAL**

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

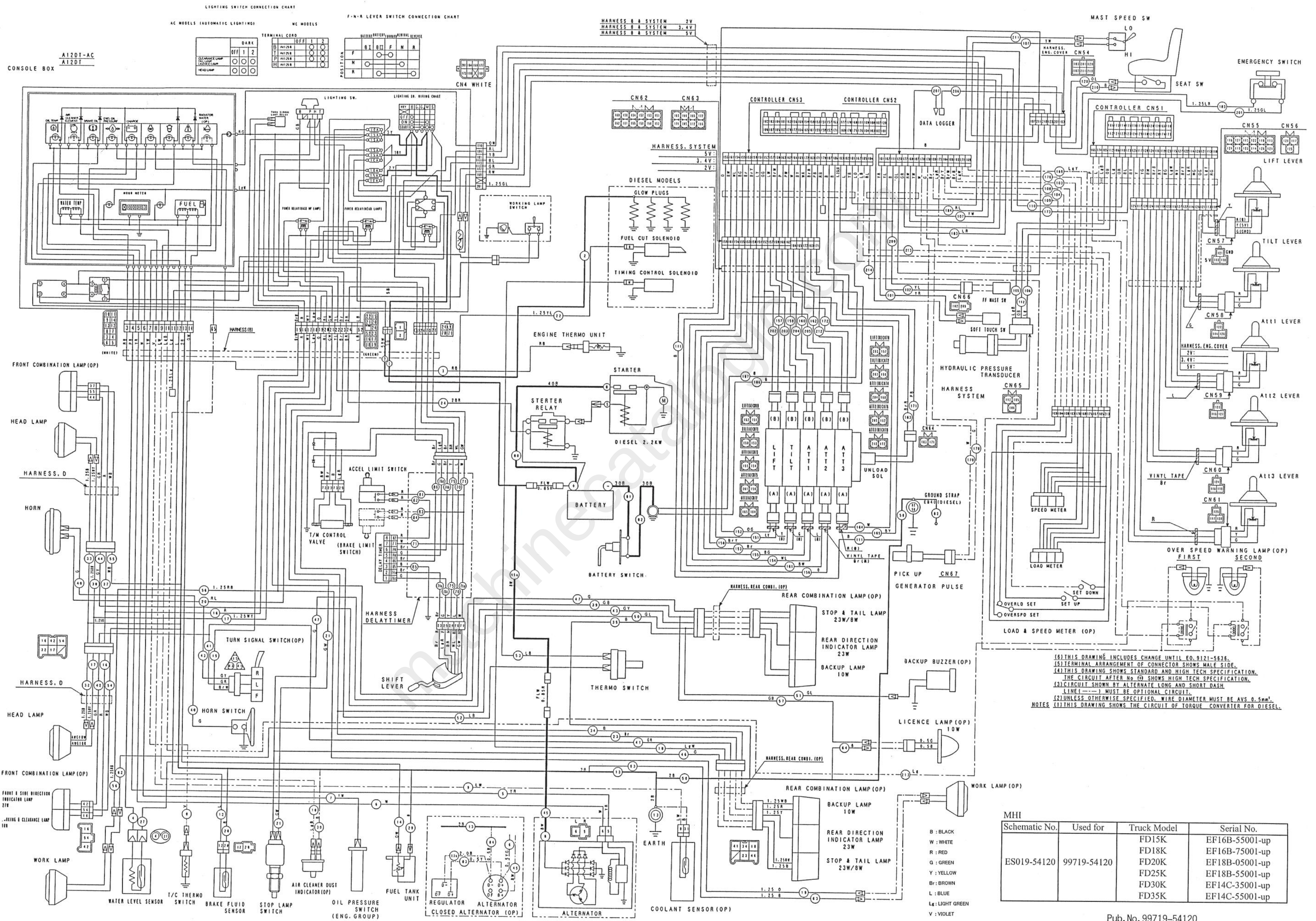
### **NOTE**

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

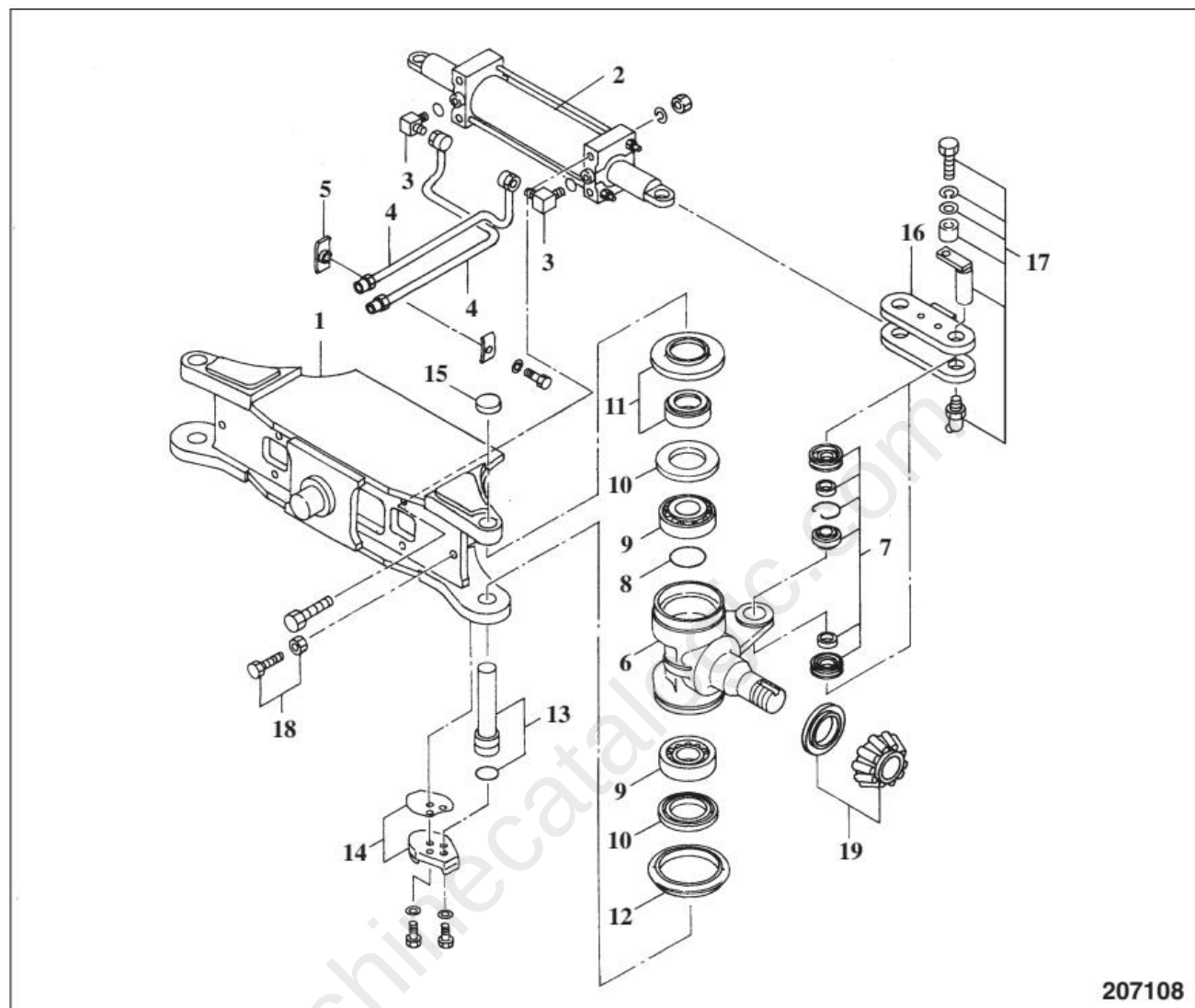
For use with the S4Q2/S4S  
Diesel Engine Service Manual.

**MC**  
**CHASSIS**  
**MAST**  
**OPTIONS**

## Electrical Schematic ( Type : Diesel )



# 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           |                                                               |

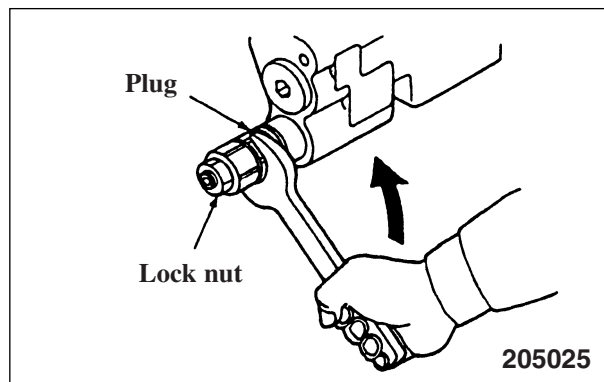
## Suggestions

### 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.

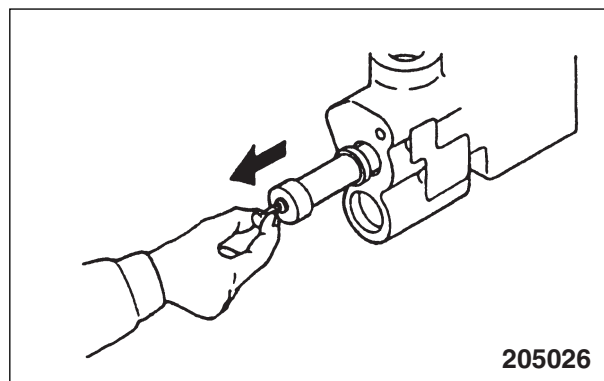
#### NOTE

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



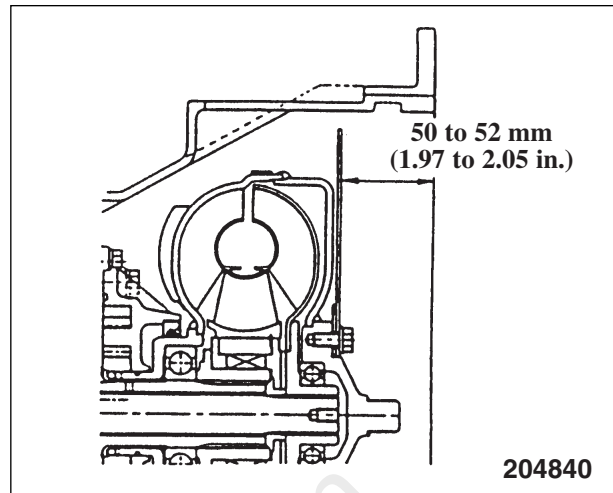
### 2. Inlet section

- (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 FG15K MC Forklift Service Manual (99719-54120)

Mitsubishi FG15K MC forklift service manual PDF, covers engine, hydraulics, drive train, and wiring for shop repair work. Instant PDF download.

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