



# Service Manual

## Chassis & Mast

### FGC15K

AF81C-00011-up  
AF81D-00011-up  
AF81E-00011-up

### FGC25K

AF82C-00011-up  
AF82D-00011-up  
AF82E-00011-up

### FGC18K

AF81C-00011-up  
AF81D-00011-up  
AF81E-00011-up

### FGC25K HO

AF82C-90011-up  
AF82D-90011-up  
AF82E-90011-up

### FGC20K

AF82C-00011-up  
AF82D-00011-up  
AF82E-00011-up

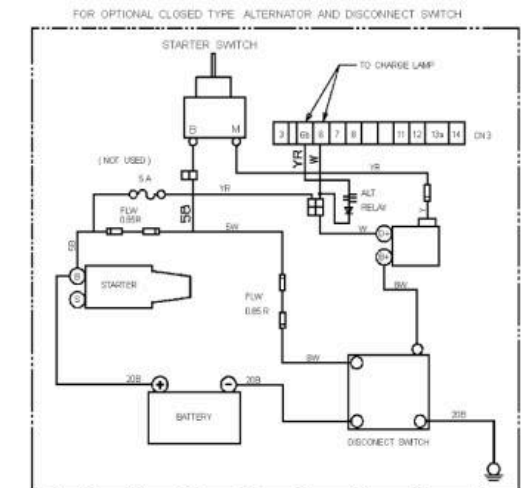
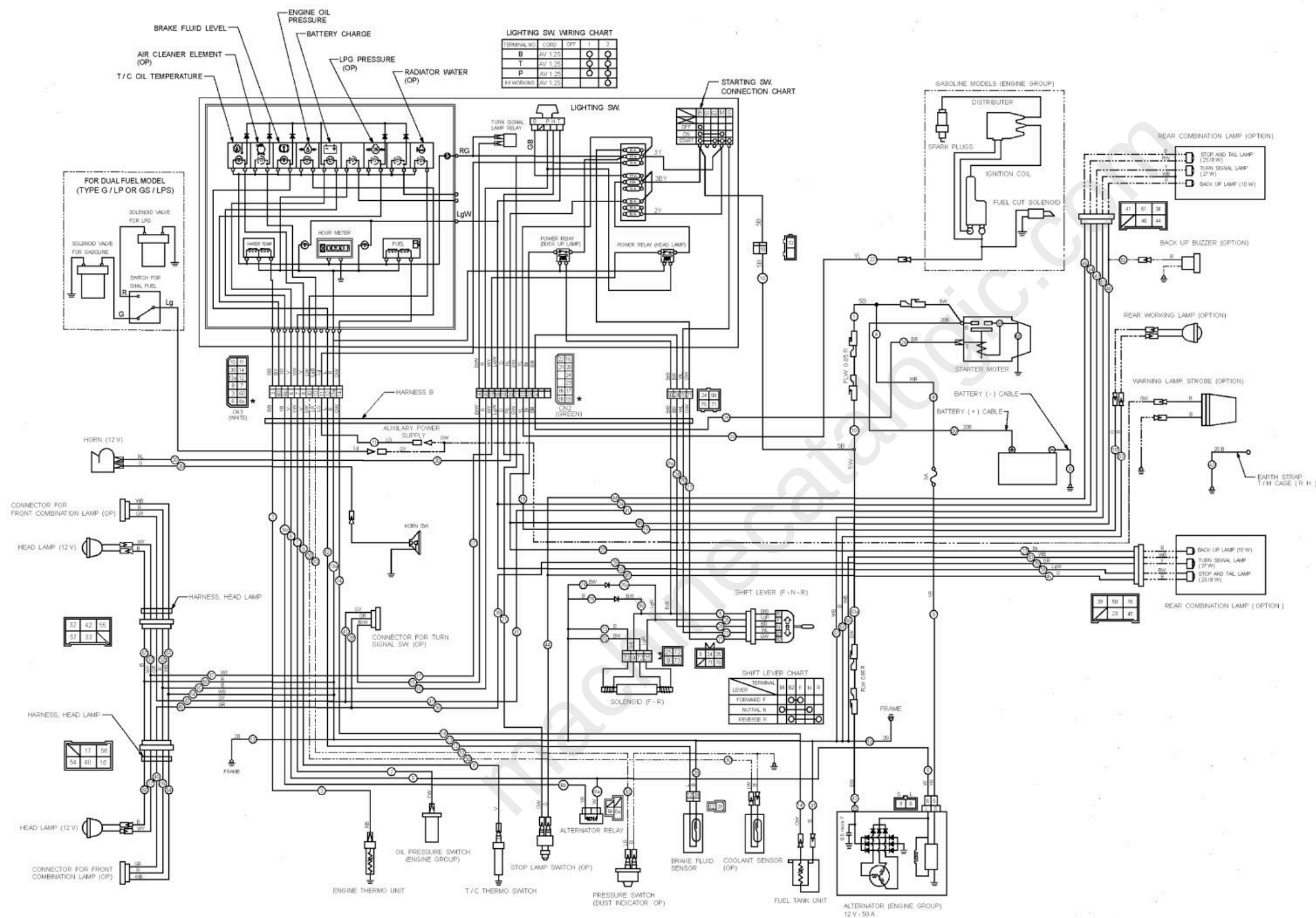
### FGC30K

AF83C-00011-up  
AF83D-00011-up  
AF83E-00011-up

### FGC20K HO

AF82C-90011-up  
AF82D-90011-up  
AF82E-90011-up

# Electrical Schematic



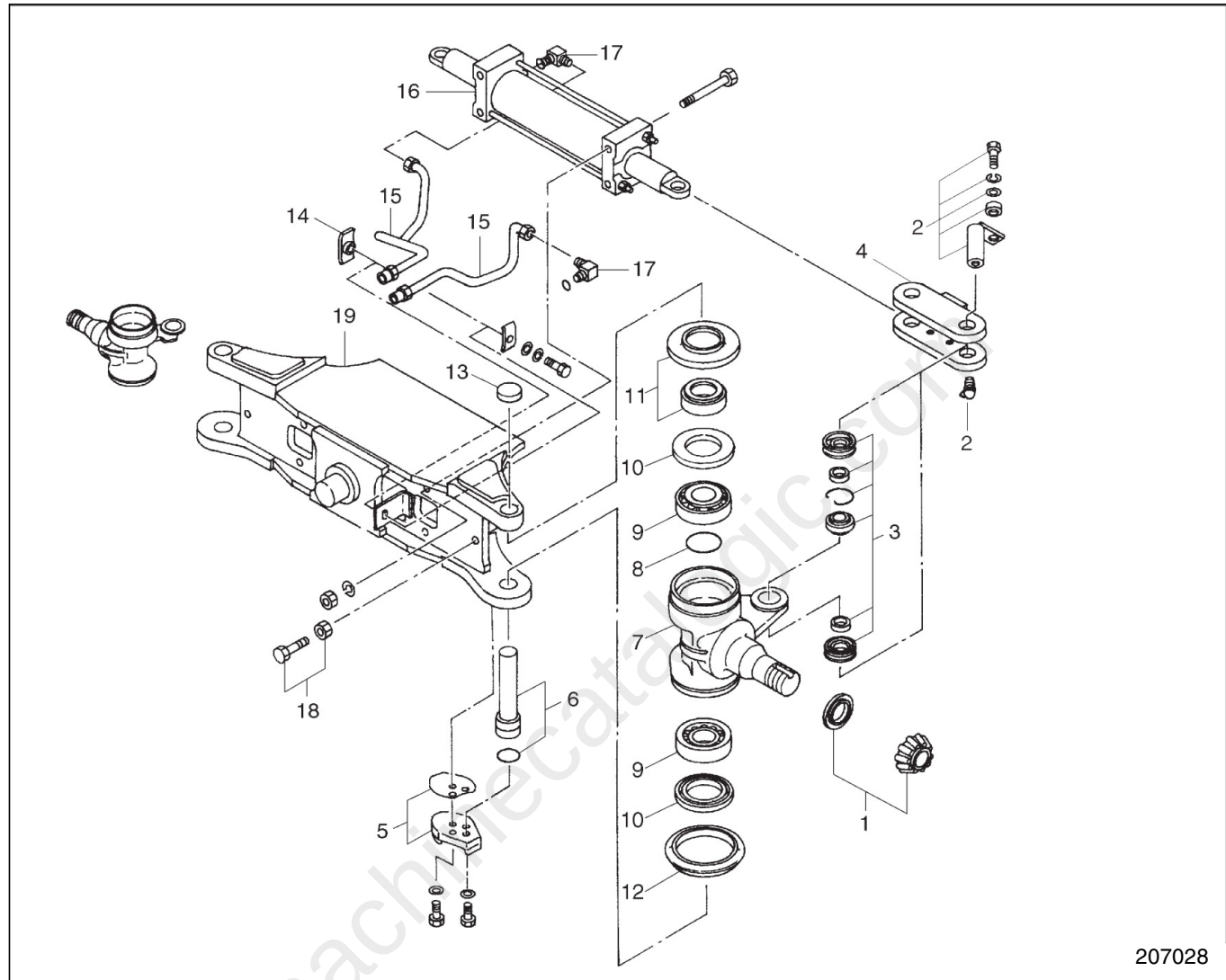
| WIRE COLOR  | CODE |
|-------------|------|
| BLACK       | B    |
| WHITE       | W    |
| RED         | R    |
| GREEN       | G    |
| YELLOW      | Y    |
| BROWN       | Br   |
| BLUE        | L    |
| LIGHT GREEN | Lg   |
| VIOLET      | V    |

4. MALE SIDE OF CONNECTOR SHOWN.  
 3. TERMINAL ARRANGEMENT OF CONNECTOR SHOWN BY MARK (•) MUST BE TO CONSOLE BOX INSTRUMENT ARRANGEMENT.  
 2. CIRCUIT SHOWN BY CHAIN DOUBLE DASH LINE (---) MUST BE OPTIONAL CIRCUIT.  
 NOTES: 1. UNLESS OTHERWISE SPECIFIED WIRE SIZE MUST BE 1.25mm<sup>2</sup>.

| MHI           |               |           |                    |
|---------------|---------------|-----------|--------------------|
| Schematic No. | Use for       | Truck No. | Serial No.         |
| ES019 - 70150 | 99719 - 70150 | FGC15K    | AF81C - 00011 - up |
|               |               | FGC18K    | AF81C - 00011 - up |
|               |               | FGC20K    | AF82C - 00011 - up |
|               |               | FGC20K HO | AF82C - 90011 - up |
|               |               | FGC25K    | AF82C - 00011 - up |
|               |               | FGC25K HO | AF82C - 90011 - up |
|               |               | FGC30K    | AF83C - 00011 - up |

## Rear Axle Assembly

### Disassembly



207028

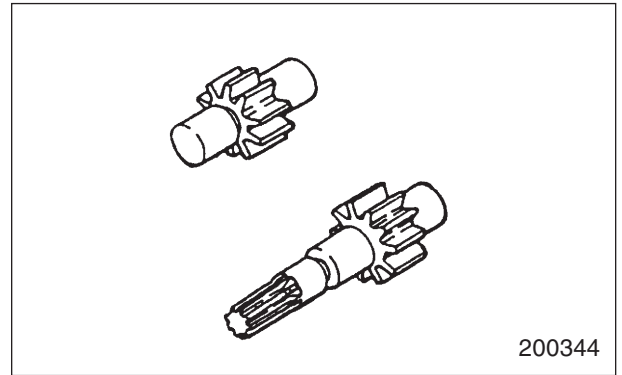
### Sequence

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

## Inspection after Disassembly

### 1. Drive and driven gears

Inspect the gear teeth for wear and damage. Similarly inspect the journals and splines.



### 2. Pump covers, body and bushings

Inspect these parts for wear and damage.

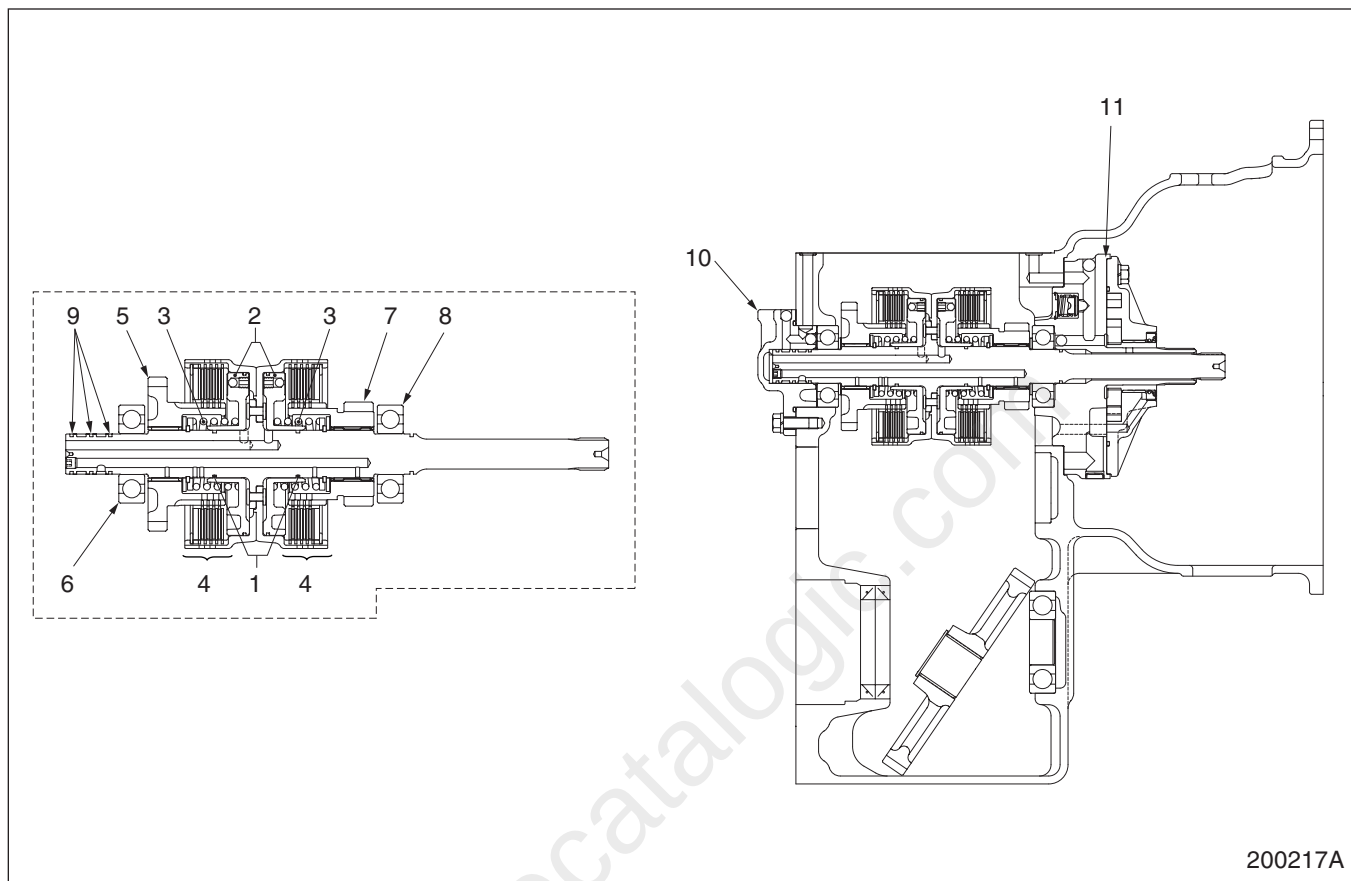
## Reassembly

### Suggestions for Reassembly

- (1) Before starting reassembly, visually inspect all parts to be sure they are perfectly clean, and apply hydraulic oil to the sliding surfaces of the gear plate.
- (2) Replace oil seals, backup rings and plate seal once disturbed.
- (3) Apply a thin coat of grease to the lip of each oil seal and to the seals just before fitting them.
- (4) Tighten the cover bolts.
- (5) The fit of the pump gears in the reassembled pump may be satisfactory if the pump shaft rotates smoothly and lightly when turned by hand with an adjustable wrench.

## Reassembly

### Input Shaft



#### Sequence

- |                                                             |                               |
|-------------------------------------------------------------|-------------------------------|
| 1 Seal ring                                                 | 6 Thrust washer, Ball bearing |
| 2 Clutch pistons, Piston rings                              | 7 Reverse gear, Thrust washer |
| 3 Clutch spring, Spring retainer, Snap ring                 | 8 Thrust washer, Ball bearing |
| 4 Friction plates, Mating plates, Pressure plate, Snap ring | 9 Seal ring                   |
| 5 Forward gear, Thrust washer                               | 10 Servo case , O-ring        |
|                                                             | 11 Pump assembly              |

#### Start by:

- (a) Install the following parts to the transmission case:

- Ball bearings and oil seals (two) for output shaft

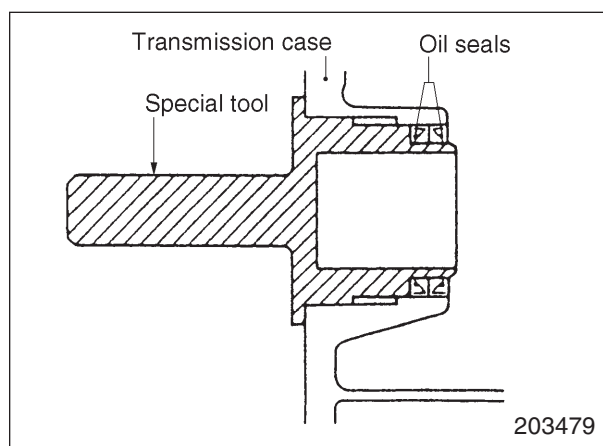
Special tool needed

|           |               |
|-----------|---------------|
| Installer | 91268 - 04300 |
|-----------|---------------|

- Taper roller bearing outer race for idler gear shaft

- (b) Put the output gear in the transmission case.

- (c) Apply grease or oil to the oil seals.



## Full Version Available

### Mitsubishi FGC15K Forklift Service Manual (99719-70150)

Mitsubishi FGC15K forklift service manual, LPG truck engine, hydraulics, drive, and wiring repair procedures in PDF. Instant PDF download.

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