



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

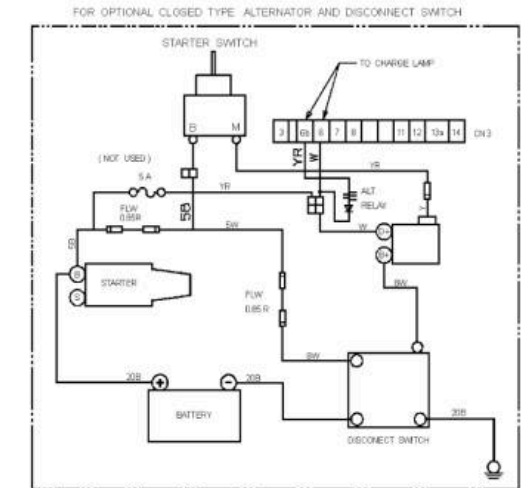
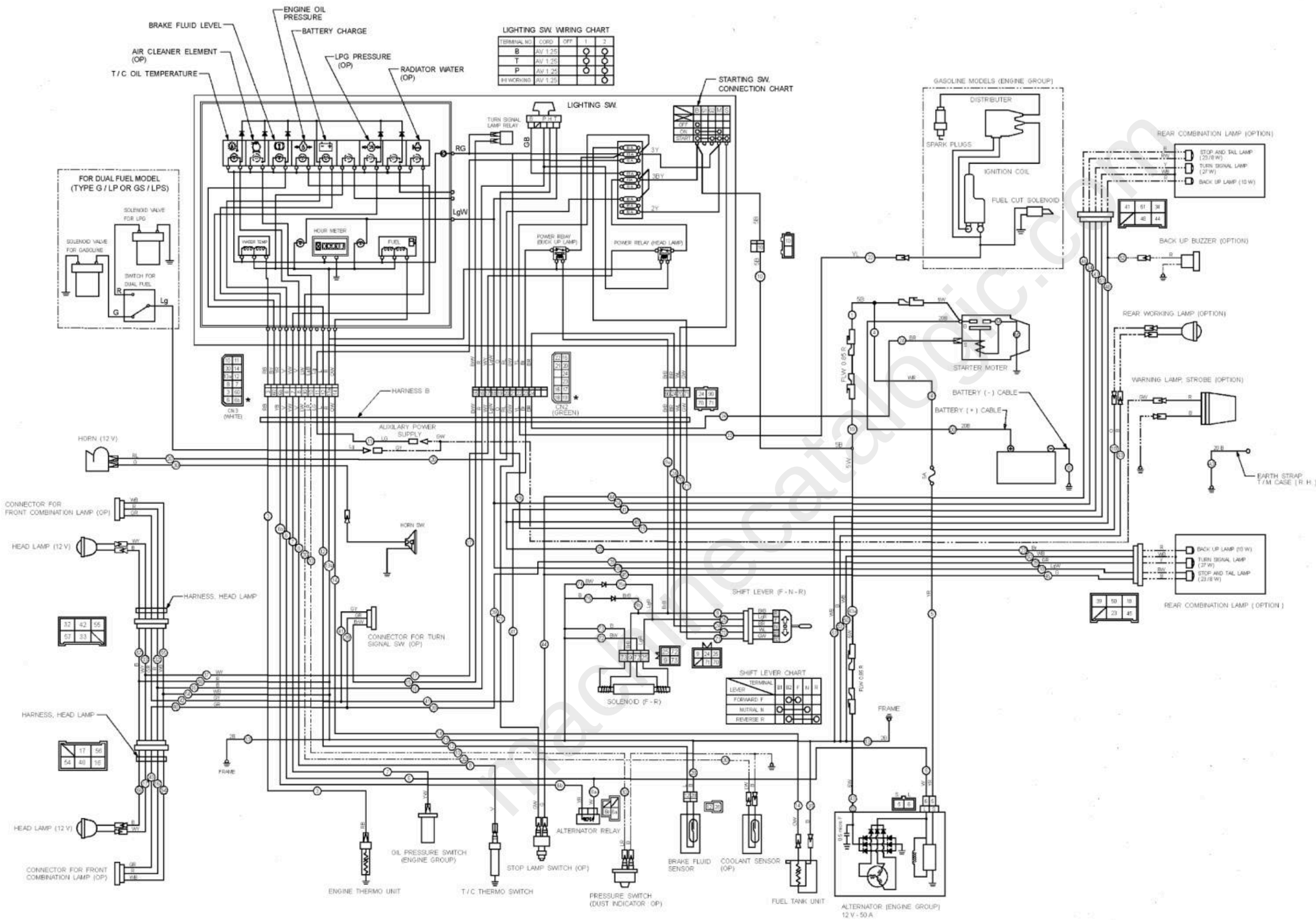
FGC30K

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

FGC20K HO

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

Electrical Schematic



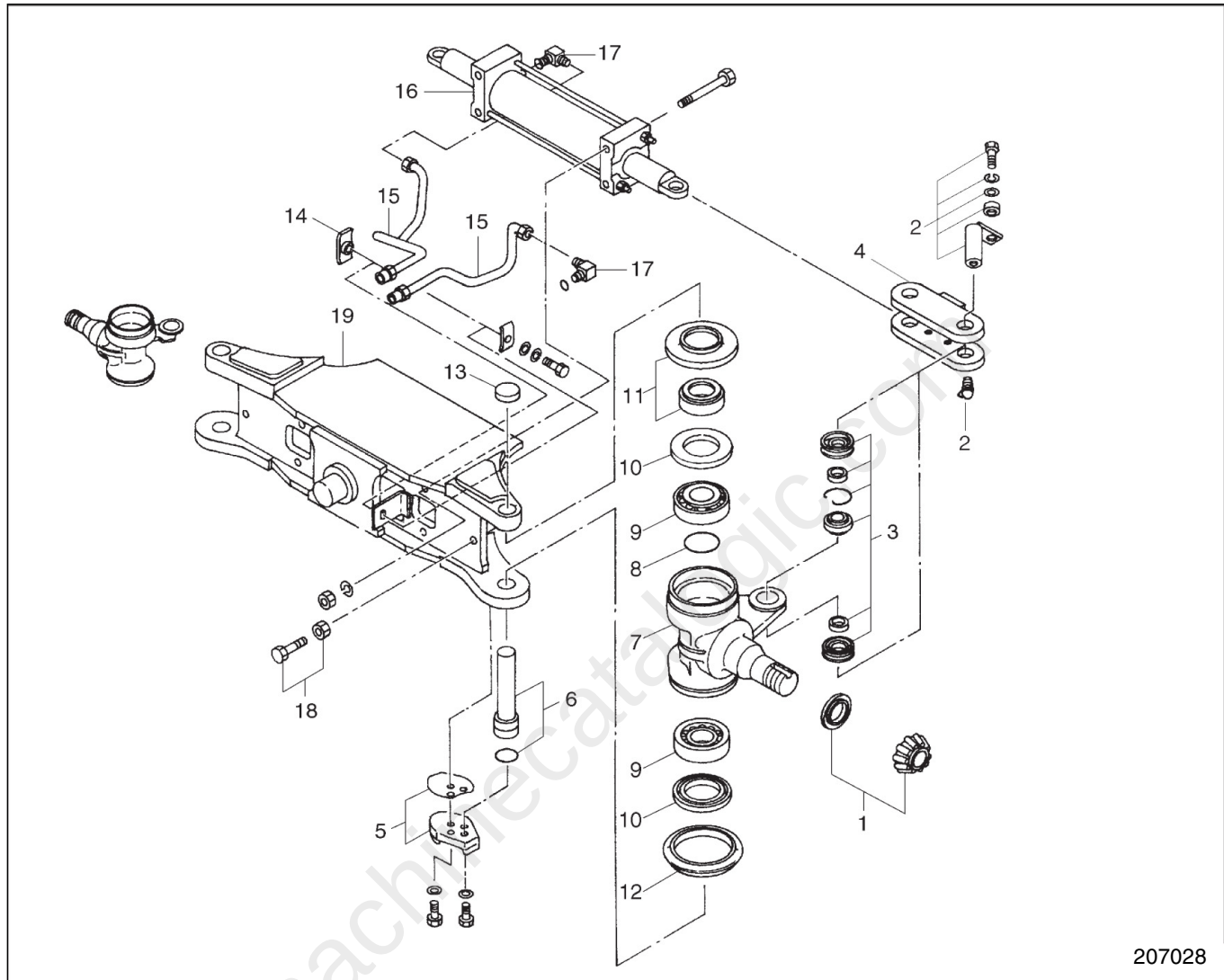
WIRE COLOR	CODE
BLACK	B
WHITE	W
RED	R
GREEN	G
YELLOW	Y
BROWN	Br
BLUE	L
LIGHT GREEN	Lg
VIOLET	V

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 1.25mm².

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

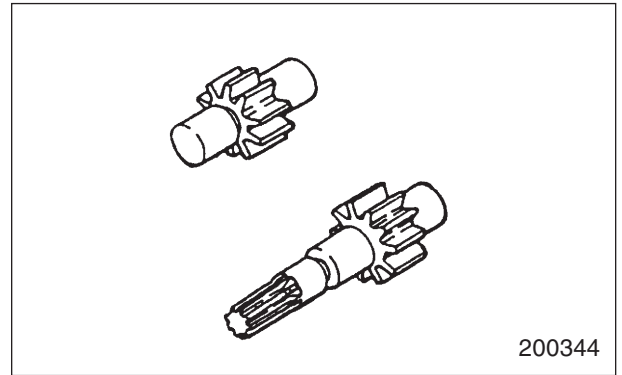
Sequence

- | | |
|---|--|
| 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.

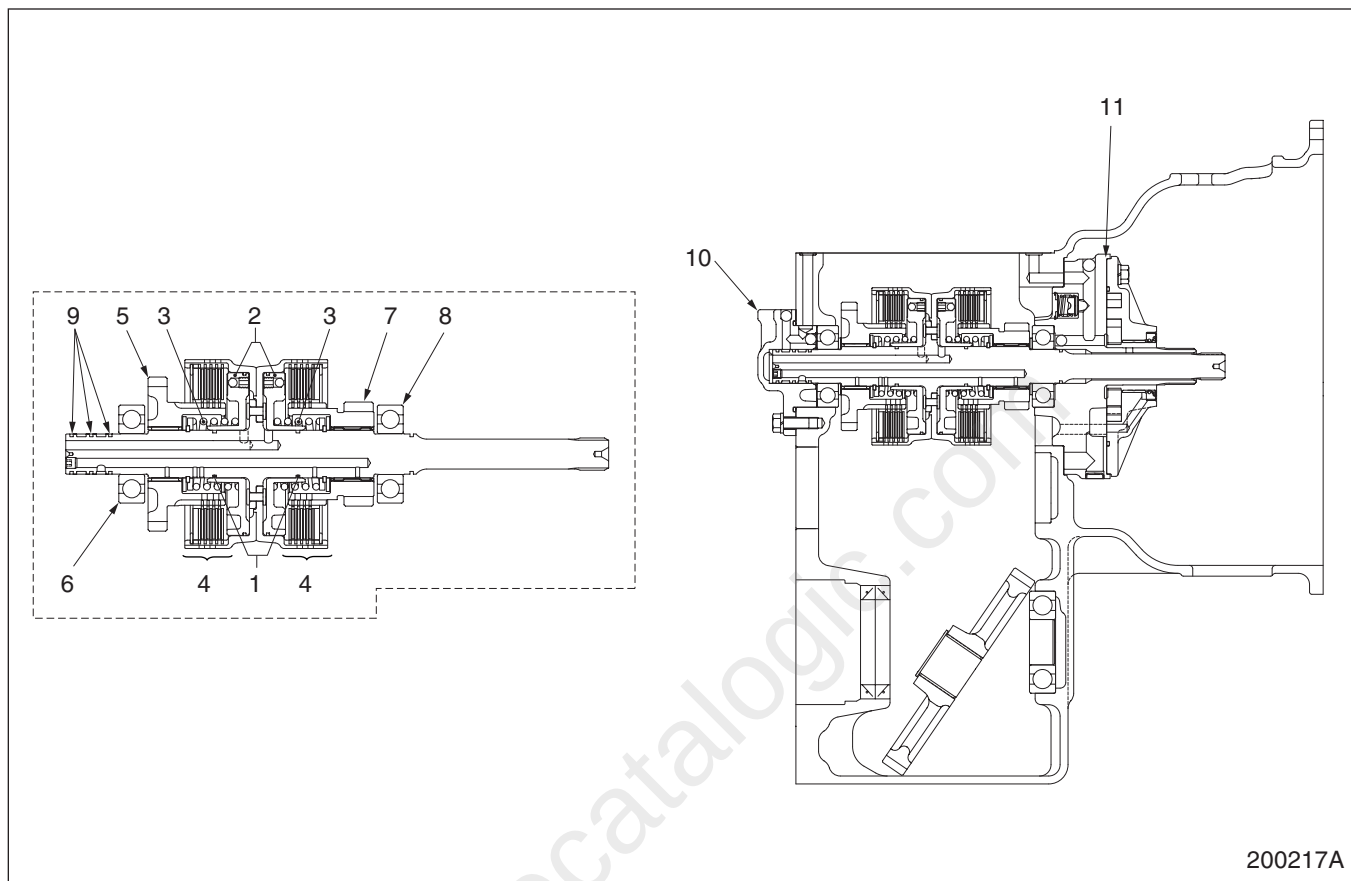
Reassembly

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

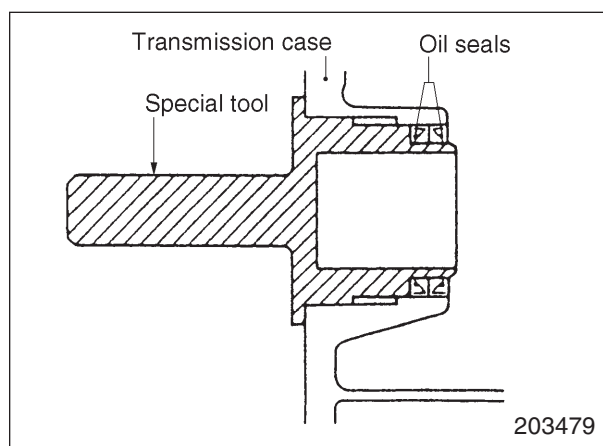
Special tool needed

Installer	91268 - 04300
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- 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 FGC20K HO Forklift Service Manual (99719-70150)

Mitsubishi FGC20K HO forklift service manual PDF, covers engine, transmission, hydraulics, and wiring repairs for AF82C/AF82D/AF82E trucks.

VIEW THE FULL MANUAL

<https://machinecatalogic.com/mitsubishi-fgc20k-ho-forklift-service-manual-99719-70150/>