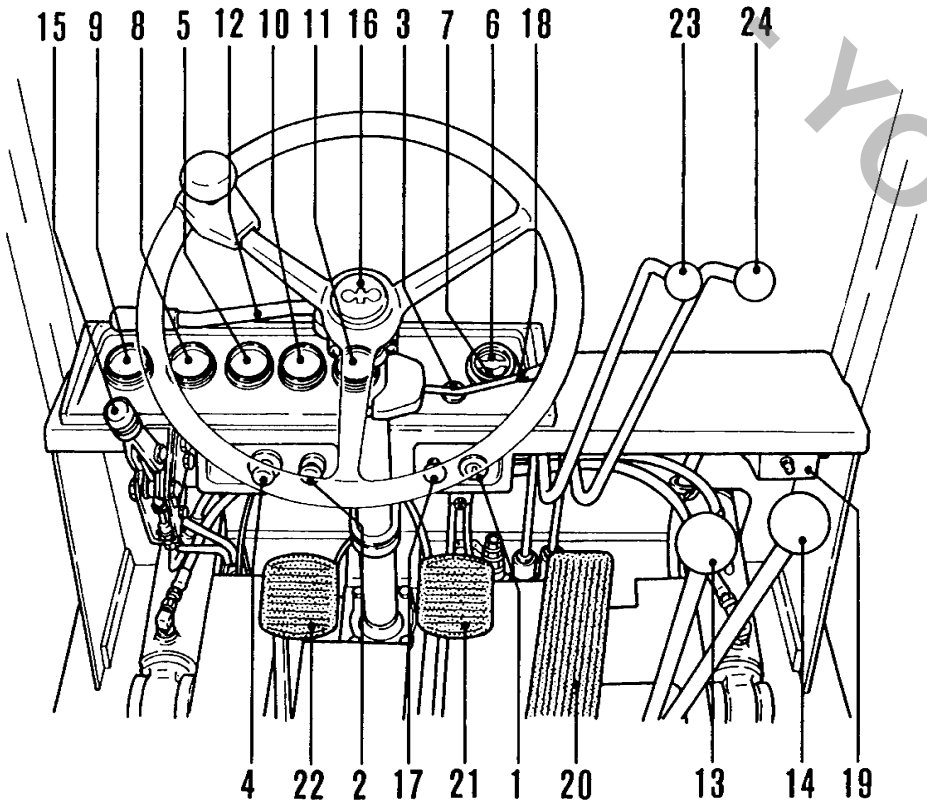
INSTRUMENTS AND CONTROLS



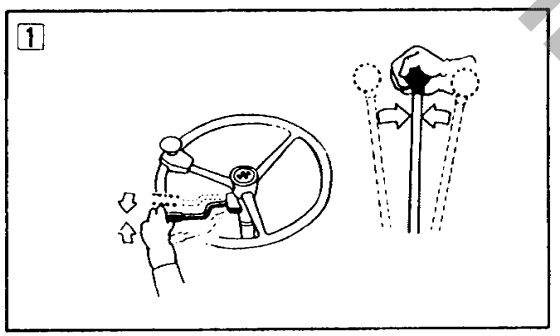
1. Starting switch
2. Choke knob (Gasoline type)
   Idle adjusting knob (FD15H, 18H)
3. Heater signal (Diesel type)
4. Engine stop knob (Diesel type)
   Separator warning lamp (trucks with separator)
5. Fuel gauge
6. Battery charge warning lamp
7. Engine oil pressure warning lamp
8. Water temperature gauge
9. Hour meter
10. Speedometer (Option)
11. Torque converter oil temperature gauge (Option)
12. Forward-reverse lever (TORQFLOW type)
13. Forward-reverse lever (Clutch type)
14. High-low speed lever (Clutch type)
15. Parking brake lever
16. Horn button
17. Lamp switch
18. Turn signal switch
19. Fuse box
20. Accelerator pedal
21. Brake pedal
22. Clutch pedal (Clutch type)
    Inching pedal (TORQFLOW type)
23. Lift lever
24. Tilt lever

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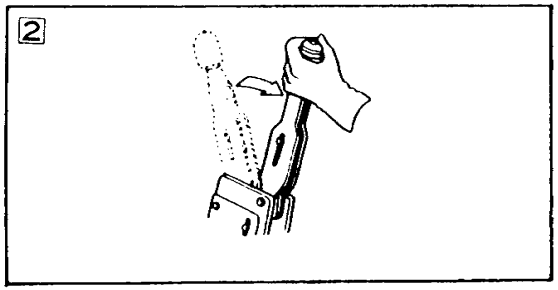
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OPERATING YOUR MACHINE

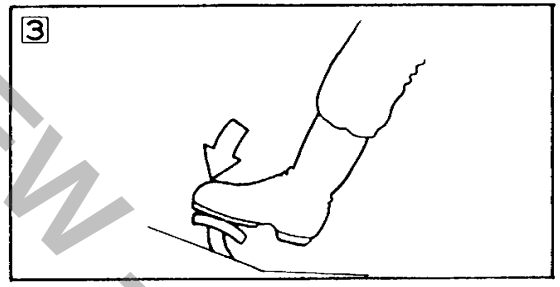
ENGINE STARTING



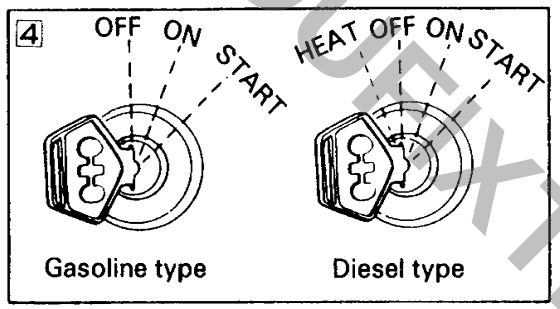
Shift forward-reverse and high-low speed levers to the NEUTRAL position.



Pull parking lever securely.



TORQFLOW type:
Depress inching pedal.
Clutch type:
Depress clutch pedal.



Insert key into starting switch. Turn key to START while lightly depressing accelerator pedal. Immediately return key to ON after engine has started.

The key returns automatically to ON when released.

★ Heat engine by turning key to HEAT before turning it to START Engine heating is over when heater signal turns red. (Diesel type)
★ Do not leave key turned to HEAT for 30 seconds or more. (Diesel type)
★ Cranking limit
Gasoline type:
Within 5 seconds.
Diesel type:
Within 10 seconds.
★ If engine fails to start, allow an interval of about 20 seconds before again trying to start the engine.
★ Never turn key switch to START once engine has started.
★ Never turn key switch to OFF position when engine is running.

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(XXA)

ITEM	SERVICE	Check before starting	Every 100 hours service	Initial 200 hours service	Every 200 hours service	Every 600 hours service	Every 1200 hours service	Every 2400 hours service	
Body exterior	Oil or water leakage	○							
Tires, rims	Air pressure, rim tightening torque, wear, damage	○							
Coolant	Level	○							
Battery	Electrolyte level	○							
Fan belt	Tension, damage	○							
Engine oil	Level	○							
Hydraulic tank	Oil level	○							
Brake pedal	Play	○							
Clutch pedal (clutch type)	Play	○							
Inching pedal (TORQ. type)	Play and interlocking point	○							
Brake fluid	Level	○							
Parking brake	Play	○							
Horn	Function	○							
Lamp	Function	○							

ITEM	SERVICE	Check before starting	Every 100 hours service	Initial 200 hours service	Every 200 hours service	Every 600 hours service	Every 1200 hours service	Every 2400 hours service	
CHECK AFTER STARTING ENGINE									
Machine exterior	Abnormal noise generation, vibration	○							
Engine	Exhaust gas color	○							
Steering wheel	Play	○							
Gauges	Function, damage	○							
Lift chain	Tension	○							
CHECK WHILE DRIVING SLOWLY									
Steering wheel	Play, wobbling	○							
Brake	Function	○							
Clutch pedal	Function	○							
Inching pedal	Function	○							

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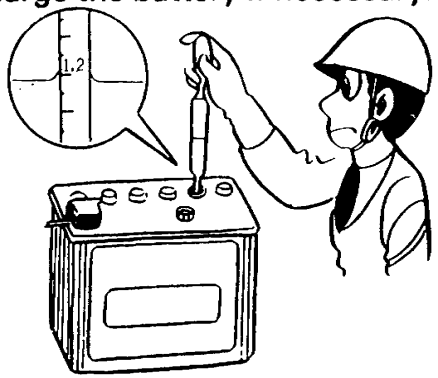
REPLACEMENT AND CHECK

BATTERY

- **Low-maintenance battery**

ELECTROLYTE

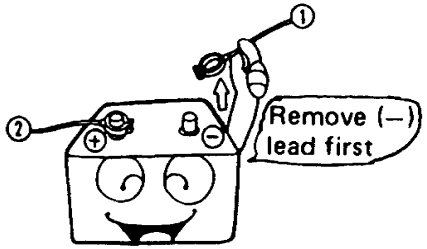
Measure the specific gravity of the electrolyte with a hydrometer, and charge the battery if necessary.



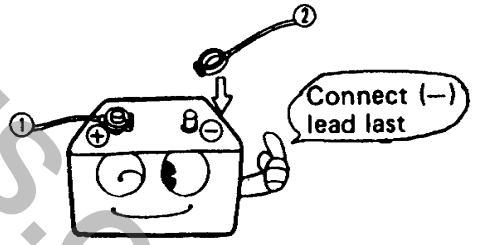
S.G. of electrolyte	Charging condition	Need for charging
1.260	Full	No
1.220	1/4 discharged	
1.190	1/2 discharged	Yes
1.110	Fully discharged	

⚠ **If the electrolyte gets on your clothes or skin, immediately wash it away with a large quantity of fresh water.**

REMOVING AND INSTALLING



- Remove the lead from the earth side (normally the (–) terminal side) of the battery.
  It is dangerous to let a tool, etc, to touch the (+) terminal and the body at the same time, since this causes a spark.



- When remounting, connect the earth side last.

F-04784

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(XXA)

SERVICE DATA

① Unit: mm • kg • kgm • kg/cm^2

Check Item	Unit	FG10/14/15/18	FG10H/15H/18H FG10S/15S/18S	FD10/14/15/18	FD15H/18H

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WIRING DIAGRAM (XXA)

WIRING DIAGRAM

(XXA) **FG10H/15H/18H**

FG10/14/15/18 **FG10S/15S/18S**



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FOREWORD

Thank you for purchasing this Komatsu machine.

This manual describes procedures for operation, handling, lubrication, maintenance, checking, and adjustment. It will help the operator realize peak performance through effective, economical and safe machine operation.

- Please read this manual carefully BEFORE operating the machine.
- Please continue studying this manual until proper operation is completely reinforced into personal habit.

⚠ · · · · Sections headed by this symbol are important points related to safety.
The instructions given must be followed at all times without fail.

★ · · · · Sections headed by this symbol are points related to operation or maintenance. When driving, operating work equipment or maintaining the machine, pay careful attention to the instructions given.

This manual describes principally the handling of trucks, daily inspections and simple periodic maintenances.

The Operation and Maintenance Manual has been divided into two volumes, one dealing with operation and the other dealing with safety. Please read through both volumes for safe operation.

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