TEN00447-07

Operation & Maintenance Manual

MOTOR GRADER **GD675-5**

SERIAL NUMBERS 55016 and up

ecot3

WARNING

Unsafe use of this machine may cause serious injury or death. Operators and maintenance personnel must read this manual before operating or maintaining this machine. This manual should be kept near the machine for reference and periodically reviewed by all personnel who will come into contact with it.

NOTICE

Komatsu has Operation & Maintenance Manuals written in some other languages. If a foreign language manual is necessary, contact your local distributor for availability.

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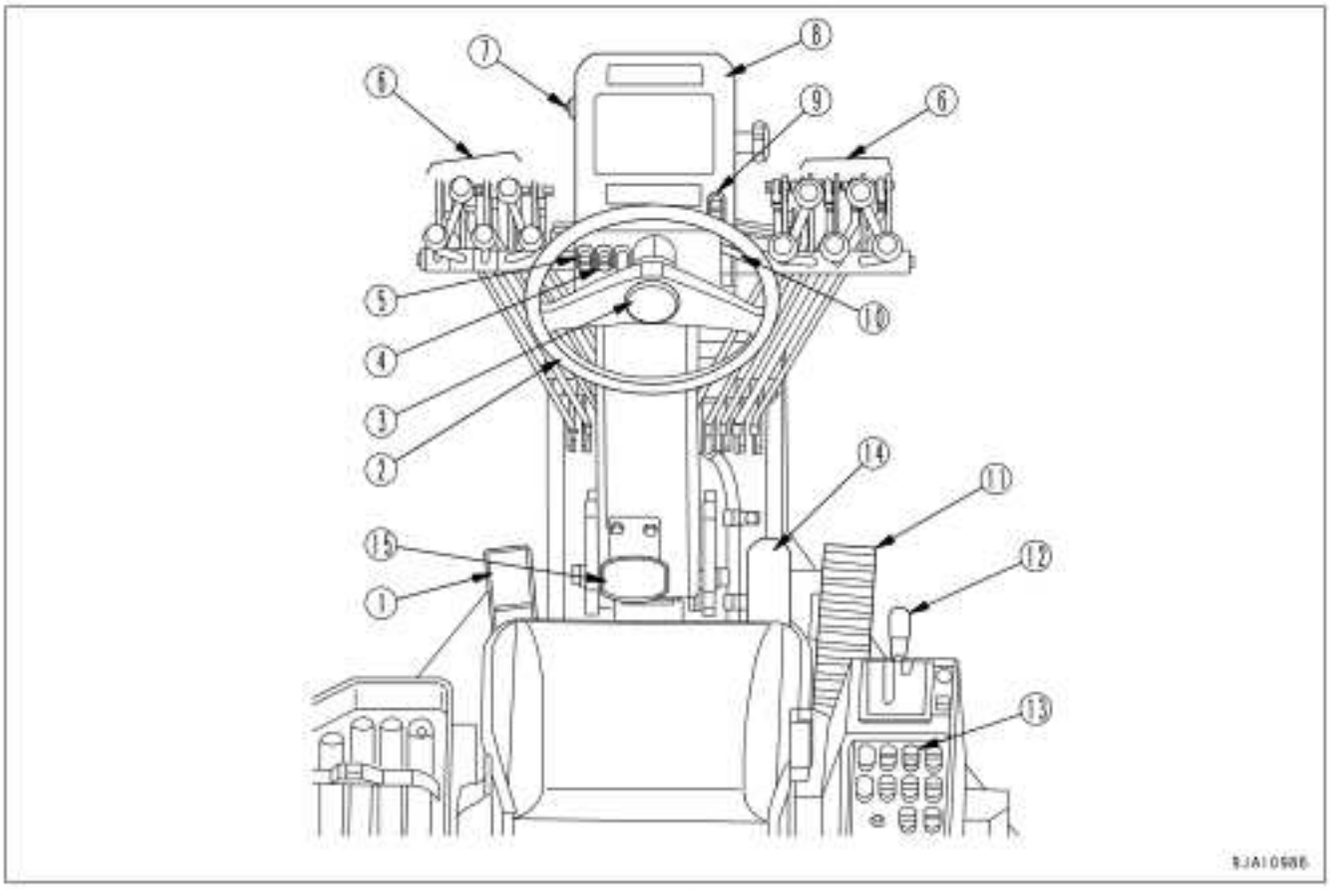
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GENERAL VIEW OF CONTROLS AND GAUGES



(1) Inching pedal
(2) Steering wheel
(3) Horn button
(4) Machine monitor mode selector switch 2
(5) Machine monitor mode selector switch 1
(6) Work equipment control lever
(7) Dimmer switch
(8) Machine monitor
(9) Differential lock switch (if equipped)
(10) Turn signal lever
(11) Accelerator pedal
(12) Gear shift lever
(13) Right side panel
(14) Brake pedal
(15) Steering console tilt pedal

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Capacity \ Reservoir		Engine oil pan	Transmission case	Tandem drive case	Final drive case Differential lock
Specified	Liters	25.4	60	57	17
	US gal	6.71	15.85	15.06	4.49
Refill	Liters	23.1	45	57	17
	US gal	6.10	11.89	15.06	4.49

Capacity \ Reservoir		Hydraulic system	Circle reverce gear case Slip clutch type	Fuel tank	Cooling system
Specified	Liters	132	7	416	39.5
	US gal	34.87	1.85	107.8	10.44
Refill	Liters	69	7	-	39.5
	US gal	18.23	1.85	-	10.44

NOTICE

Always use diesel oil for the fuel.

To ensure good fuel consumption characteristics and exhaust gas characteristics, the engine mounted on this machine uses an electronically controlled high-pressure fuel injection device. This device requires high precision parts and lubrication, so if low viscosity fuel with low lubricating ability is used, the durability may drop markedly.

The ASTM diesel fuel recommended by Komatsu may contain 5% or less of biofuel. The EN diesel fuel may contain 7% or less of it. Use the fuel which is filled into the storage tank or the fuel tank of the machine as soon as possible.

Note 1: HTHS (High-Temperature High-Shear Viscosity 150°C (302°F)), specified by ASTM D4741 must be equal to or higher than 3.5 mPa-S. Komatsu EOS0W30 and EOS5W40 are the most suitable oils.

Note 2: Powertrain oil has different properties from engine oil. Be sure to use the recommended oils.

Note 3: Hyper grease (G2-T, G2-TE) has a high performance.
When it is necessary to improve the lubricating ability of the grease in order to prevent squeaking of pins and bushings, the use of G2-T or G2-TE is recommended.

Note 4: Coolant

1) Komatsu genuine SUPERCOOLANT (AF-NAC) has the important function of preventing corrosion as well as preventing freezing.
Even in the areas where freezing is not an issue, the use of coolant is essential.
Komatsu machines are supplied with SUPERCOOLANT (AF-NAC). SUPERCOOLANT (AF-NAC) has excellent anticorrosion, antifreeze and cooling properties and can be used continuously for 2 years or 4000 hours. SUPERCOOLANT (AF-NAC) is strongly recommended wherever available.
2) For details of the density of the coolant, see "CLEAN INSIDE OF COOLING SYSTEM (PAGE 4-19)".
Coolant is supplied already diluted. In this case, add the pre-diluted fluid to keep the tank full. (Never dilute the coolant with ordinary water.)
3) To maintain the anticorrosion properties of coolant, always keep the density of coolant between 30% and 64%.

RECOMMENDED BRANDS, RECOMMENDED QUALITY FOR PRODUCTS OTHER THAN KOMATSU GENUINE OIL

When using commercially available oils other than Komatsu genuine oil, consult your Komatsu distributor.

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EVERY 1000 HOURS SERVICE

Maintenance for every 50, 250 and 500 hours service should be performed at the same time.

REPLACE FUEL MAIN FILTER CARTRIDGE

⚠ WARNING

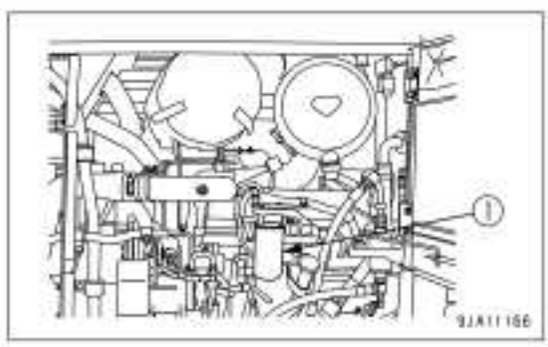
- **Immediately after the engine is stopped, all parts are still very hot. Accordingly, wait until they have cooled down before replacing the filter.**
- **High pressure is generated inside the engine fuel piping system when the engine is running.**
  When replacing the filter, wait for at least 30 seconds after stopping the engine to let the internal pressure go down before replacing the filter.
- **Do not bring any open flame close.**

NOTICE

- **Genuine Komatsu fuel filter cartridges use a special filter that has highly efficient filtering ability. When replacing the filter cartridge, always use a genuine Komatsu part.**
- **The common rail fuel injection system used on this machine consists of more precise parts than the conventional injection pump and nozzle.**
  If any part other than a genuine Komatsu filter cartridge is used, dust or dirt may get in and cause problems with the injection system. Always avoid using substitute parts.
- **When performing inspection or maintenance of the fuel system, pay more attention than normal to the entry of dirt. If dirt is stuck to any part, use fuel to wash it off completely.**

- Container to catch the fuel
- Prepare a filter wrench

1. Open the engine side cover on the right side of the machine.
2. Set the container to catch the fuel under the filter cartridge.
3. By using a filter wrench, turn filter cartridge (1) counterclockwise to remove it.
4. Clean the filter holder.



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