TEN00446-09

Operation & Maintenance Manual

MOTOR GRADER **GD655-5**

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.

KOMATSU®

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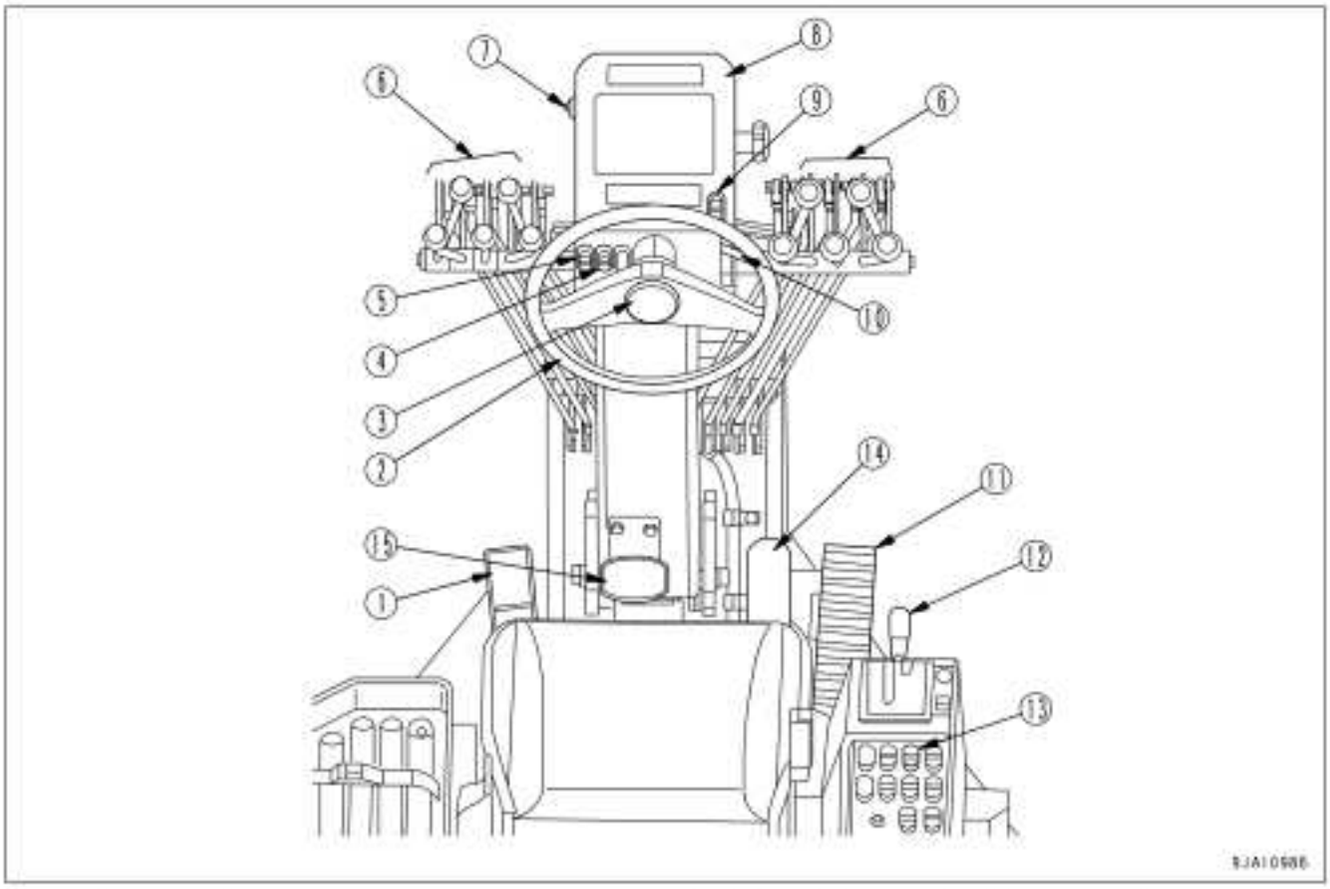
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GENERAL VIEW OF CONTROLS AND GAUGES



(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 2000 HOURS SERVICE

Maintenance for every 50, 250, 500 and 1000 hours service should be performed at the same time.

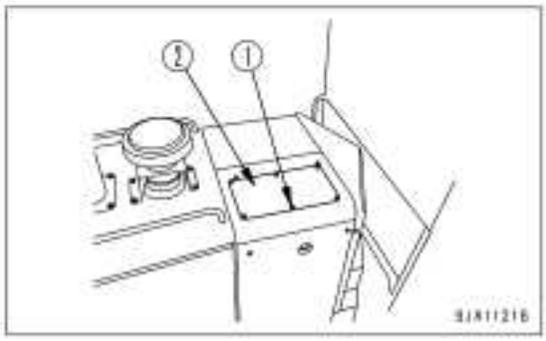
CHANGE OIL IN HYDRAULIC TANK, CLEAN STRAINER

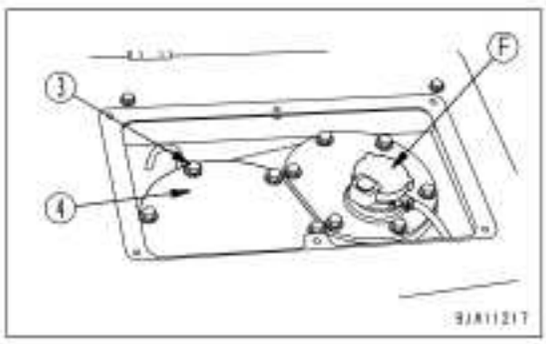
⚠ WARNING

- **Immediately after the engine is stopped, its parts and oil are still very hot, and may cause burn injury. Accordingly, wait until they have cooled down before starting the work.**
- **When removing the oil filler cap, turn it slowly to release the internal pressure, then remove it.**

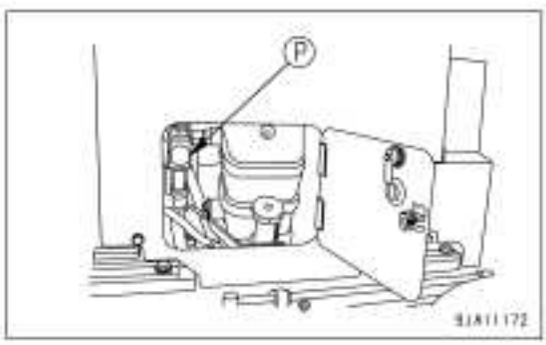
- Refill amount of oil: 45 liters (11.88 US gal)

1. Set the machine in position as follows to check the oil level.
   - Return the leaning of the front tires to the upright position and face the wheels straight to the front.
   - Set the front frame and rear frame facing straight (articulated angle = 0 deg.). Install the articulate lock pin.
   - Return the blade sideshift to the center of the machine, set the blade at right angles to the chassis and lower it lightly to the ground.
2. Remove bolt (1), then remove cover (2).
3. Loosen oil filler port (F) slowly to completely release the air inside the hydraulic tank.
4. To return the oil inside the accumulator to the tank, stop the engine, then depress the brake approximately 20 times. For machines equipped with a blade accumulator, turn the accumulator "ON", then stop the engine, and operate the blade lift lever to release the pressure.





5. Put an oil container under drain plug (P) to catch the oil.
6. To prevent getting oil on yourself, remove drain plug (P) and drain the oil.
   To prevent the oil from spurting out, gradually loosen drain plug (P).



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