TEN00334-05

Operation & Maintenance Manual

MOTOR GRADER **GD825A-2**

SERIAL NUMBERS 12503 and up

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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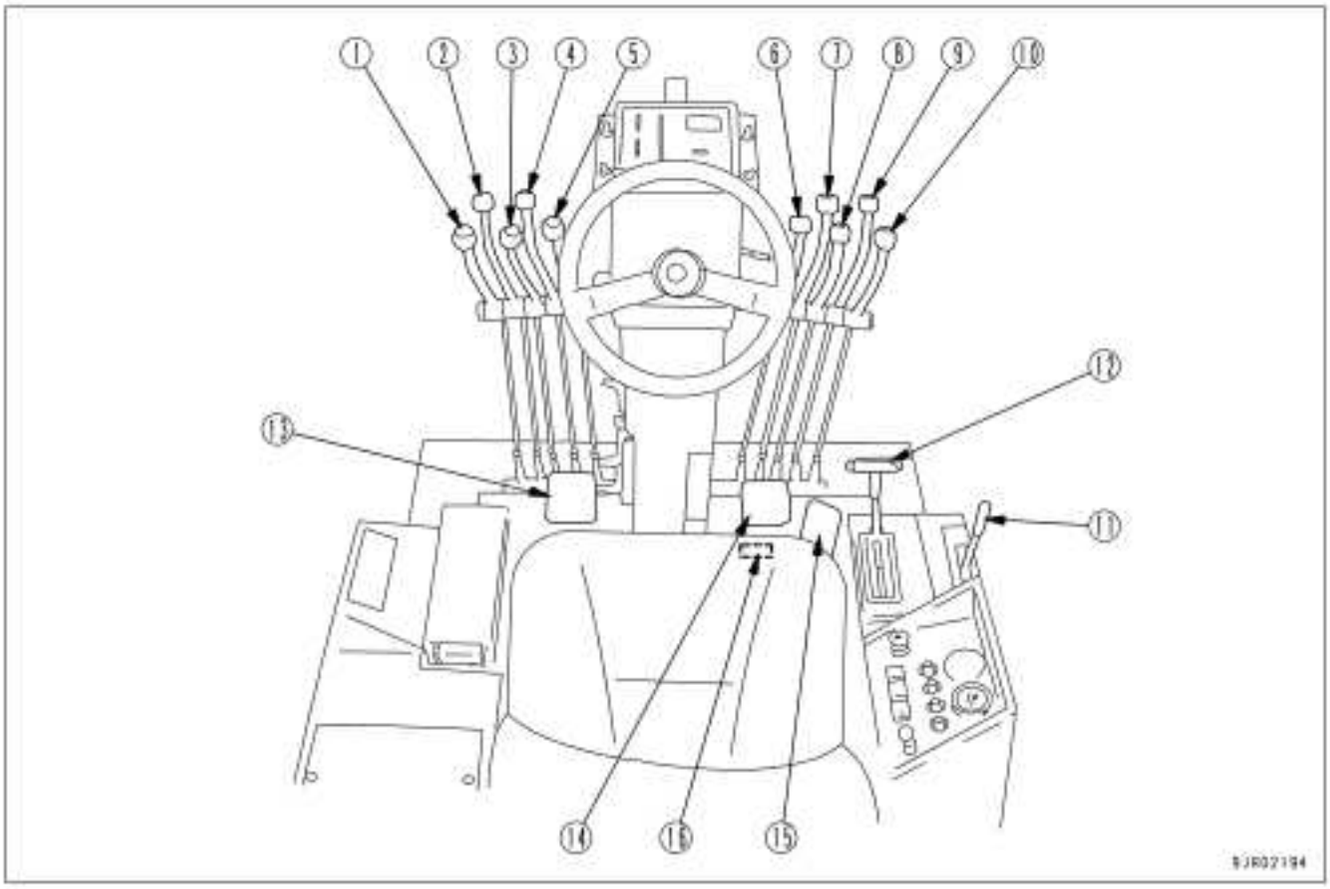
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CONTROL LEVERS, PEDALS



(1) Left blade lift cylinder control lever
(2) Ripper lift cylinder control lever (if equipped)
(3) Blade side shift control lever
(4) Power tilt control lever
(5) Blade rotation control lever
(6) Drawbar side shift control lever
(7) Articulate control lever
(8) Leaning control lever
(9) Option lever
(10) Right blade lift cylinder control lever
(11) Fuel control lever
(12) Gearshift lever
(13) Inching pedal
(14) Brake pedal
(15) Accelerator pedal
(16) Decelerator pedal

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SERVICE PROCEDURE

INITIAL 250 HOURS SERVICE (ONLY AFTER THE FIRST 250 HOURS)

Perform the following maintenance only after the first 250 hours of operation on new machines.

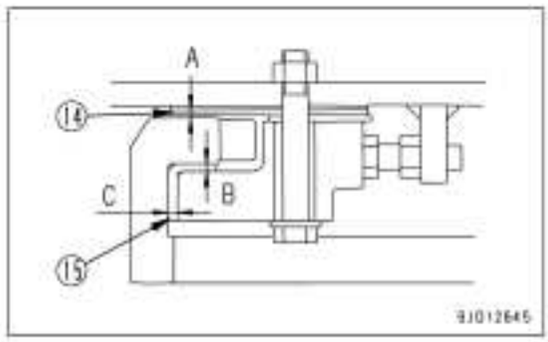
- REPLACE FUEL FILTER CARTRIDGE
- CHECK CIRCLE GUIDE CLEARANCE, ADJUST
- CHECK, ADJUST SLIP LOAD FOR DRY-TYPE CLUTCH FOR BLADE ROTATION GEAR
- CHANGE OIL IN TRANSMISSION CASE, CLEAN STRAINER
- CHANGE OIL IN FINAL DRIVE CASE, CLEAN STRAINER
- REPLACE RETURN FILTER ELEMENT AND CLEAN SUCTION STRAINER IN HYDRAULIC TANK
- CHANGE OIL IN HYDRAULIC TANK
- CHANGE OIL IN CIRCLE REVERSE GEAR CASE
- CHANGE OIL IN TANDEM DRIVE CASE
- CHECK AND ADJUST ENGINE VALVE CLEARANCE

For details of the method of replacing or maintaining, see EVERY 500 HOURS, EVERY 1000 HOURS and EVERY 2000 HOURS SERVICE.

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4. Lower the blade to the ground slightly, loosen bolt (1), and loosen lock nuts (6), (10), and (12). After loosening push bolts (7), (11), and (13), open circle guide (2) with push bolt (11) so that F = 0.
   (When doing this, open right and left bolts evenly.)
   With F = 0 state, tighten lock nut (10), and tighten bolt (1).
5. Open circle guide (3) with push bolt (13) so that C = 0.
   (When doing this, open right and left bolts evenly.)
   With C = 0 state, loosen push bolt (13) once. After tightening push bolt (13) until it touches circle guide (3) with your hands, loosen push bolt (13) by 1/4 turn to tighten lock nut (12), and move circle guide (3) until it touches push bolt (13), and tighten bolt (1).
6. Open circle guide (4) with push bolt (7) so that R = 0.
   (When doing this, open right and left bolts evenly.)
   With R = 0 state, loosen push bolt (7) once. After tightening push bolt (7) until it touches circle guide (4) with your hands, loosen push bolt (7) by 1/2 turn to tighten lock nut (6), and move circle guide (4) until it touches push bolt (7), and tighten bolt (1).
7. After checking, F = 0, C = Max. 0.7 mm (0.028 in), R = Max. 1.5 mm (0.059 in), or F = C = R = Max. 1 mm (0.039 in), retighten bolt (1), lock nuts (6), (10), and (12).
8. Coat the sliding surface (P, F, C, R) of the circle guide with lubricant (LM-P).
9. Check that it rotates 90° to the left and right at high bank.

REMARK
If the following condition is reached, replace the wear plate of the guide.
When dimension A of wear plate (14) or dimensions B or C of wear plate (15) become 2 mm (0.079 in).



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