TEN00369-01

Operation & Maintenance Manual

MOTOR GRADER **GD675-5**

SERIAL NUMBERS 55001 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®

MidWestTech | Komatsu GD675-5 Motor Grader Operation & Maintenance Manual | Public... Order the manual at mid-west-tech.com >

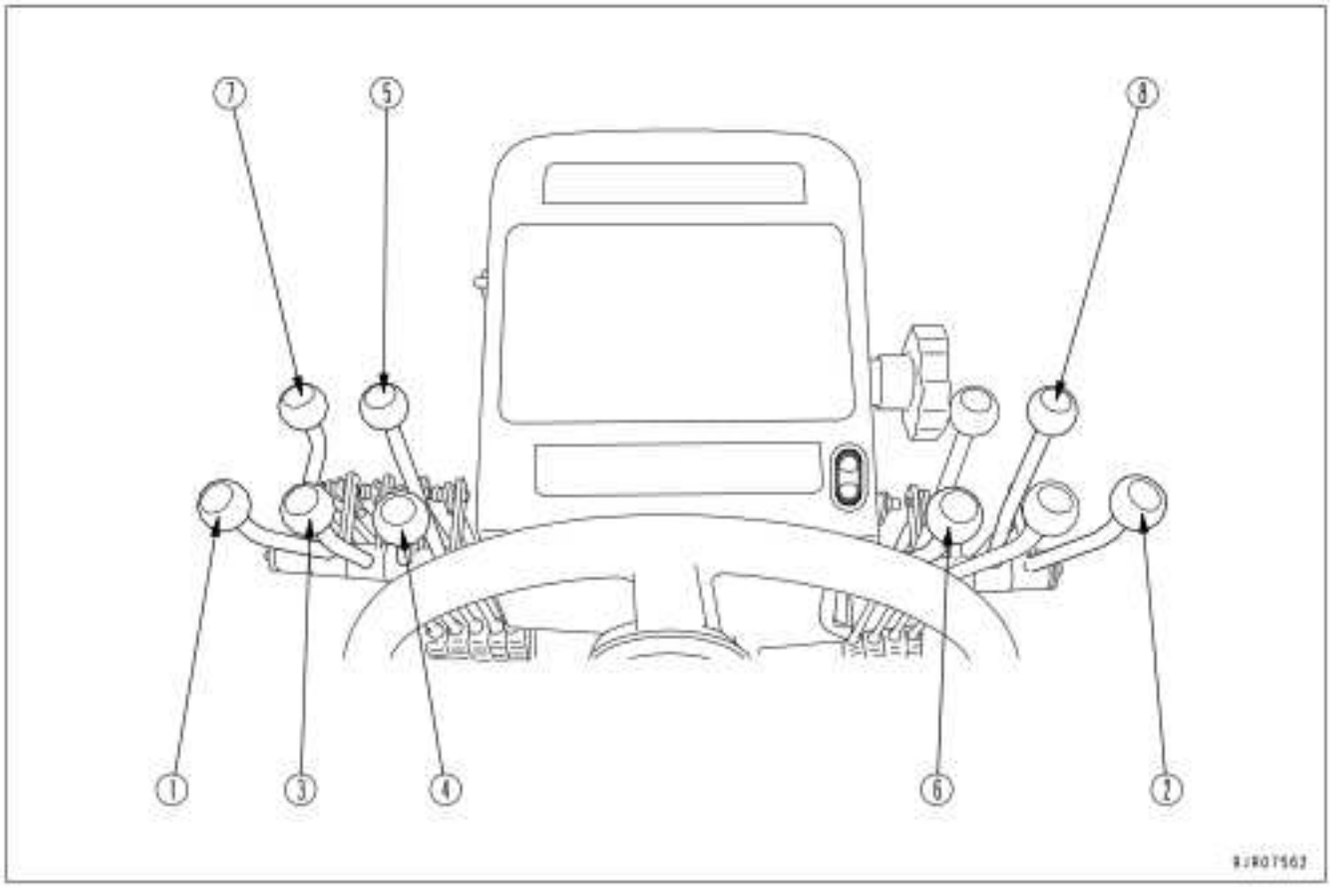
SLOW BLOW FUSE ---- 3- 65
ELECTRIC POWER TAKEOFF ---- 3- 66
HANDLING BATTERY DISCONNECTOR SWITCH ---- 3- 67
OPENING, CLOSING CAB DOORS ---- 3- 68
BACKUP ALARM ---- 3- 69
AM/FM RADIO ---- 3- 70
AIR CONDITIONER ---- 3- 76
OPERATION MANUAL STORAGE ---- 3- 80
TOOL BOX ---- 3- 80
GREASE PUMP HOLDER ---- 3- 81
CUP HOLDER ---- 3- 81
ASHTRAY ---- 3- 81
FIRE EXTINGUISHER ---- 3- 81
HANDLING MACHINES EQUIPPED WITH KOMTRAX ---- 3- 82
OPERATION ---- 3- 83
CHECK BEFORE STARTING ENGINE ---- 3- 83
STARTING ENGINE ---- 3-101
OPERATIONS, CHECKS AFTER STARTING ENGINE ---- 3-104
STOPPING ENGINE ---- 3-106
CHECK AFTER STOPPING ENGINE ---- 3-106
TRAVELING POSTURE FOR MACHINE ---- 3-107
MOVING MACHINE OFF (FORWARD, REVERSE, SHIFTING GEAR), STOPPING ---- 3-108
TURNING MACHINE ---- 3-119
OPERATING WORK EQUIPMENT ---- 3-122
WORK WHICH CAN BE CARRIED OUT USING A MOTOR GRADER ---- 3-129
PRECAUTIONS WHEN OPERATION ---- 3-150
ADJUSTING WORK EQUIPMENT POSTURE ---- 3-155
PARKING MACHINE ---- 3-164
CHECKS AFTER COMPLETION OF OPERATION ---- 3-166
LOCKING ---- 3-167
HANDLING THE TIRES ---- 3-168
COMBINATION OF SNOW RADIAL TIRE AND CHAIN ---- 3-169
TRANSPORTATION ---- 3-170
STEPS FOR TRANSPORTATION ---- 3-170
LOADING, UNLOADING WORK ---- 3-170
PRECAUTIONS FOR LOADING ---- 3-171
LIFTING MACHINE ---- 3-172
COLD WEATHER OPERATION ---- 3-174
PRECAUTIONS FOR LOW TEMPERATURE ---- 3-174
CAUTIONS AFTER COMPLETION OF WORK ---- 3-175
AFTER COLD WEATHER ---- 3-175
LONG-TERM STORAGE ---- 3-176
BEFORE STORAGE ---- 3-176
DURING STORAGE ---- 3-176
AFTER STORAGE ---- 3-176
TROUBLESHOOTING ---- 3-177
AFTER RUNNING OUT OF FUEL ---- 3-177
WHEN LEANING PIPING IS DAMAGED ---- 3-177
TOWING THE MACHINE ---- 3-178
IF BATTERY IS DISCHARGED ---- 3-180

MidWestTech | Komatsu GD675-5 Motor Grader Operation & Maintenance Manual | P... Order the manual at mid-west-tech.com >

IF THE GEAR SHIFT LEVER OF THE TRANSMISSION HAS ANY TROUBLE ---- 3-183
METHODS OF LOWERING WORK EQUIPMENTS AFTER THE ENGINE STOPS (RELEASE OF THE HYDRAULIC CIRCUIT PRESSURE FOR WORK EQUIPMENTS) ---- 3-184
OTHER TROUBLE ---- 3-186
MAINTENANCE ---- 4- 1
GUIDES TO MAINTENANCE ---- 4- 2
OUTLINES OF SERVICE ---- 4- 4
HANDLING OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC ---- 4- 4
RELATING TO ELECTRIC SYSTEM ---- 4- 7
WEAR PARTS ---- 4- 8
WEAR PARTS LIST ---- 4- 8
RECOMMENDED FUEL, COOLANT, AND LUBRICANT ---- 4- 10
USE OF FUEL, COOLANT AND LUBRICANTS ACCORDING TO AMBIENT TEMPERATURE ---- 4- 11
RECOMMENDED BRANDS, RECOMMENDED QUALITY FOR PRODUCTS OTHER THAN KOMATSU GENUINE OIL ---- 4- 12
STANDARD TIGHTENING TORQUES FOR BOLTS AND NUTS ---- 4- 13
TORQUE LIST ---- 4- 13
PERIODIC REPLACEMENT OF CRITICAL PARTS ---- 4- 14
CRITICAL PARTS ---- 4- 14
MAINTENANCE SCHEDULE CHART ---- 4- 15
MAINTENANCE SCHEDULE CHART ---- 4- 15
SERVICE PROCEDURE ---- 4- 17
INITIAL 250 HOURS SERVICE (only after the first 250 hours) ---- 4- 17
WHEN REQUIRED ---- 4- 18
CHECK BEFORE STARTING ---- 4- 39
EVERY 50 HOURS SERVICE ---- 4- 40
EVERY 250 HOURS SERVICE ---- 4- 43
EVERY 500 HOURS SERVICE ---- 4- 55
EVERY 1000 HOURS SERVICE ---- 4- 61
EVERY 2000 HOURS SERVICE ---- 4- 69
EVERY 4000 HOURS SERVICE ---- 4- 75
EVERY 8000 HOURS SERVICE ---- 4- 77
SPECIFICATIONS ---- 5- 1
SPECIFICATIONS ---- 5- 2
ATTACHMENTS, OPTIONS ---- 6- 1
HANDLING BLADE ACCUMULATOR ---- 6- 2
FEATURES OF BLADE ACCUMULATOR ---- 6- 2
METHOD OF OPERATING BLADE ACCUMULATOR ---- 6- 3
INDEX ---- 7- 1

MidWestTech | Komatsu GD675-5 Motor Grader Operation & Maintenance Manual | P... Order the manual at mid-west-tech.com >

OPERATING WORK EQUIPMENT



(1) Left blade lift cylinder control lever
(2) Right blade lift cylinder control lever
(3) Blade side shift control lever
(4) Blade rotation control lever
(5) Power tilt control lever
(6) Drawbar side shift control lever
(7) Ripper/Scarifier control lever (if equipped)
(8) Front attachment control lever (if equipped)

MidWestTech | Komatsu GD675-5 Motor Grader Operation & Maintenance Manual | P... Order the manual at mid-west-tech.com >

EVERY 250 HOURS SERVICE

Maintenance for every 50 hours service should be carried out at the same time.

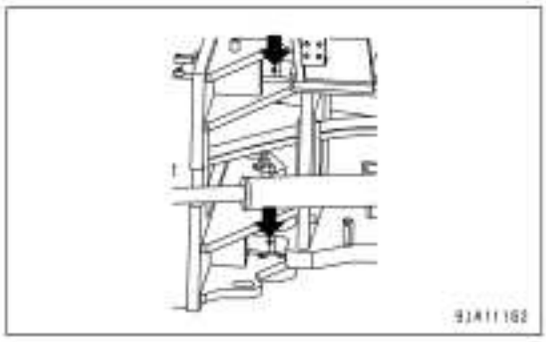
LUBRICATING

⚠ WARNING

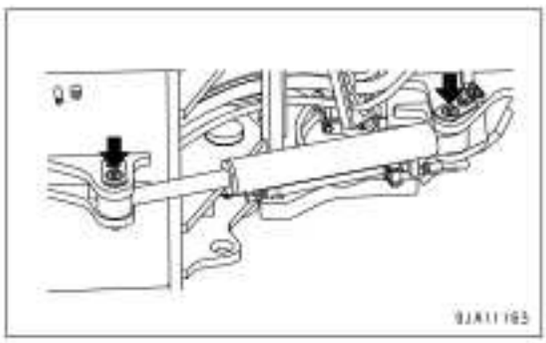
- **Set the gear shift lever to the P (Parking) position and fix the front and rear frames by using the articulate lock pin.**
- **Lower the work equipment to the ground and stop the engine.**
- **Grease on flat ground.**

1. Using a grease pump, pump in grease through the grease fittings shown by arrows.
2. After greasing, wipe off any old grease that was pushed out.

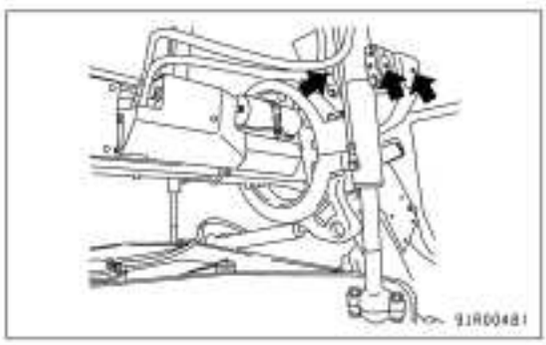
Articulate pin (2 places)



Articulate cylinder pin (4 places)



Blade lift cylinder yoke (6 places)



MidWestTech | Komatsu GD675-5 Motor Grader Operation & Maintenance Manual | P... Order the manual at mid-west-tech.com >

CHECK CIRCLE GUIDE CLEARANCE, ADJUST

⚠ WARNING

- If there is no clearance between the root of the teeth (or the tip of the teeth) of the pinion gear of the circle rotator and the tip of the teeth (or the root of the teeth) of the circle gear after maintenance has been carried out, replace the guide.
- When raising the blade, do not raise it higher than necessary.

NOTICE

If the condition remains as below even after maintenance is carried out, replace the circle guide.

- When there is no clearance (R) between the circle and circle guide.
- When there is no clearance between the root of the teeth (or the tip of the teeth) of the pinion gear of the circle rotator and the tip of the teeth (or the root of the teeth) of the circle gear.

- Prepare the following:
  Feeler gauge
- Shims (thickness: 1 mm (0.039 in), 0.5 mm (0.020 in); 2 types)

CHECKING

1. Raise the blade and use a feeler gauge to measure clearance (P) between the bottom face of the drawbar and the top face of the swing circle as shown in the diagram. The standard clearance is 1.5 ± 0.5 mm (0.059 ± 0.020 in).
2. Keep the blade raised and use a feeler gauge to measure clearance (Q) F (front), (Q) C (center), and (Q) R (rear) between the circle and circle guide as shown in the diagram when force is applied at the rear.
   Standard clearances (Q) F, (Q) C, and (Q) R are as follows.
   (Q) F = 0 mm, (Q) C = 0.7 mm (0.028 in), (Q) R = 1.5 mm (0.059 in), or (Q) F = (Q) R = 1 mm (0.039 in)

MidWestTech | Komatsu GD675-5 Motor Grader Operation & Maintenance Manual | P... Order the manual at mid-west-tech.com >