TEN00177-02

Operation & Maintenance Manual

MOTOR GRADER **GD555-3A**

SERIAL NUMBERS 11001 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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CONTENTS

FOREWORD ---- 1- 1
FOREWORD ---- 1- 2
SAFETY INFORMATION ---- 1- 3
INTENDED USE ---- 1- 5
DIRECTIONS OF MACHINE ---- 1- 5
LOCATION OF PLATES, TABLE TO ENTER SERIAL NO. AND DISTRIBUTOR ---- 1- 6
MACHINE SERIAL NO. PLATE POSITION ---- 1- 6
ENGINE SERIAL NO. PLATE POSITION ---- 1- 6
SERVICE METER POSITION ---- 1- 7
TABLE TO ENTER SERIAL NO. AND DISTRIBUTOR ---- 1- 7
SAFETY ---- 2- 1
SAFETY INFORMATION ---- 2- 2
SAFETY LABELS ---- 2- 4
POSITION FOR ATTACHING SAFETY LABELS ---- 2- 4
SAFETY LABELS ---- 2- 5
GENERAL PRECAUTIONS ---- 2- 9
PRECAUTIONS DURING OPERATION ---- 2- 18
STARTING ENGINE ---- 2- 18
OPERATION ---- 2- 20
TRANSPORTATION ---- 2- 25
BATTERY ---- 2- 26
TOWING ---- 2- 28
PRECAUTIONS FOR MAINTENANCE ---- 2- 29
PRECAUTIONS WITH TIRES ---- 2- 35
OPERATION ---- 3- 1
GENERAL VIEW ---- 3- 2
GENERAL VIEW OF MACHINE ---- 3- 2
GENERAL VIEW OF CONTROLS AND GAUGES ---- 3- 3
EXPLANATION OF COMPONENTS ---- 3- 6
METERS AND LAMPS ---- 3- 6
SWITCHES ---- 3- 13
CONTROL LEVERS, PEDALS ---- 3- 24
DUST INDICATOR ---- 3- 33
ARTICULATE LOCK PIN ---- 3- 33
FUSE BOX ---- 3- 33
OPERATION ---- 3- 35
CHECK BEFORE STARTING ENGINE ---- 3- 35
STARTING ENGINE ---- 3- 48
OPERATIONS, CHECKS AFTER STARTING ENGINE ---- 3- 52
STOPPING ENGINE ---- 3- 54
CHECK AFTER STOPPING ENGINE ---- 3- 54
TRAVELING POSTURE FOR MACHINE ---- 3- 55
MOVING MACHINE OFF (FORWARD, REVERSE, SHIFTING GEAR), STOPPING ---- 3- 56
TURNING MACHINE ---- 3- 60
OPERATING WORK EQUIPMENT ---- 3- 63
WORK WHICH CAN BE CARRIED OUT USING A MOTOR GRADER ---- 3- 69
PRECAUTIONS WHEN OPERATION ---- 3- 90
ADJUSTING WORK EQUIPMENT POSTURE ---- 3- 94
PARKING MACHINE ---- 3-105

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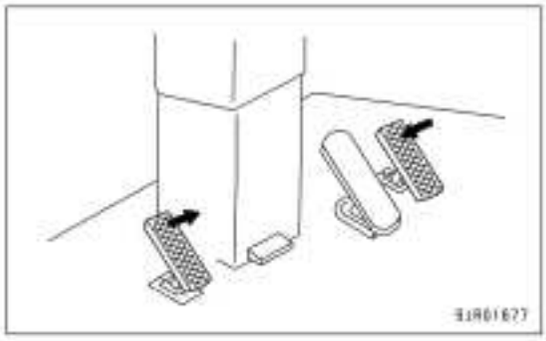
CHECKS AFTER COMPLETION OF OPERATION ---- 3-106
LOCKING ---- 3-107
HANDLING THE TIRES ---- 3-107
TRANSPORTATION ---- 3-108
LOADING, UNLOADING WORK ---- 3-108
PRECAUTIONS FOR LOADING ---- 3-109
COLD WEATHER OPERATION ---- 3-110
PRECAUTIONS FOR LOW TEMPERATURE ---- 3-110
CAUTIONS AFTER COMPLETION OF WORK ---- 3-111
AFTER COLD WEATHER ---- 3-111
LONG-TERM STORAGE ---- 3-112
BEFORE STORAGE ---- 3-112
DURING STORAGE ---- 3-112
AFTER STORAGE ---- 3-112
TROUBLESHOOTING ---- 3-113
AFTER RUNNING OUT OF FUEL ---- 3-113
WHEN LEANING PIPING IS DAMAGED ---- 3-114
TOWING THE MACHINE ---- 3-115
IF BATTERY IS DISCHARGED ---- 3-117
OTHER TROUBLE ---- 3-120
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
USE OF FUEL, COOLANT AND LUBRICANTS ACCORDING TO AMBIENT TEMPERATURE ---- 4- 9
STANDARD TIGHTENING TORQUES FOR BOLTS AND NUTS ---- 4- 13
TORQUE LIST ---- 4- 13
PERIODIC REPLACEMENT OF CRITICAL PARTS ---- 4- 15
CRITICAL PARTS ---- 4- 15
MAINTENANCE SCHEDULE CHART ---- 4- 16
MAINTENANCE SCHEDULE CHART ---- 4- 16
SERVICE PROCEDURE ---- 4- 18
INITIAL 250 HOURS SERVICE (only after the first 250 hours) ---- 4- 18
WHEN REQUIRED ---- 4- 19
CHECK BEFORE STARTING ---- 4- 32
EVERY 50 HOURS SERVICE ---- 4- 33
EVERY 250 HOURS SERVICE ---- 4- 34
EVERY 500 HOURS SERVICE ---- 4- 49
EVERY 1000 HOURS SERVICE ---- 4- 55
EVERY 2000 HOURS SERVICE ---- 4- 63
EVERY 4000 HOURS SERVICE ---- 4- 69
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

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CAR RADIO ---- 6- 4
EXPLANATION OF COMPONENTS ---- 6- 4
METHOD OF OPERATION ---- 6- 7
PRECAUTIONS FOR USE ---- 6- 9
AIR CONDITIONER ---- 6- 10
LOCATIONS AND FUNCTIONS OF CONTROL PANEL ---- 6- 10
METHOD OF OPERATION ---- 6- 12
PRECAUTIONS WHEN USING ---- 6- 12
TESTING AND MAINTENANCE ---- 6- 12
HANDLING ADJUSTABLE SEAT ---- 6- 13
ADJUST OPERATOR'S SEAT ---- 6- 13
HANDLING AIR-SUSPENSION SEAT ---- 6- 14
ADJUST OPERATOR'S SEAT ---- 6- 14
HANDLING MACHINES EQUIPPED WITH KOMTRAX ---- 6- 16
BASIC PRECAUTIONS ---- 6- 16
INDEX ---- 7- 1

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4. Let inching pedal (3) back and depress accelerator pedal (2) to move the machine off.



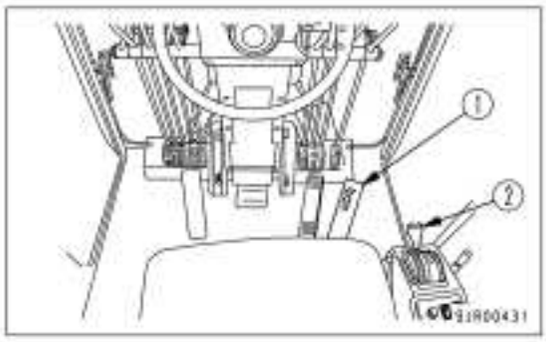
CAUTION

Don't shift the gear while depressing the inching pedal.
2 or more second after shifting gear, depress the inching pedal from pressed position.

SHIFTING GEAR ON MACHINE

WARNING

Avoid sudden shifting of gear when traveling at high speed. When shifting gear, use the brake to reduce speed before shifting gear.

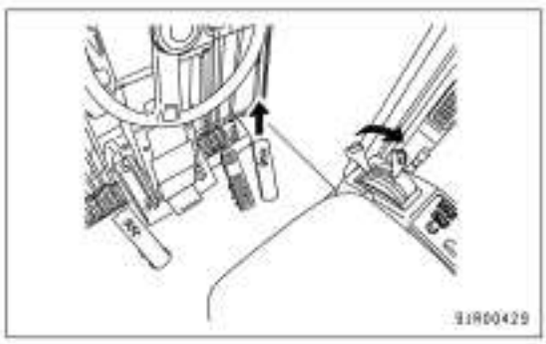


NOTICE
When shifting gear, always shift one gear at a time.

When shifting gear, do as follows.

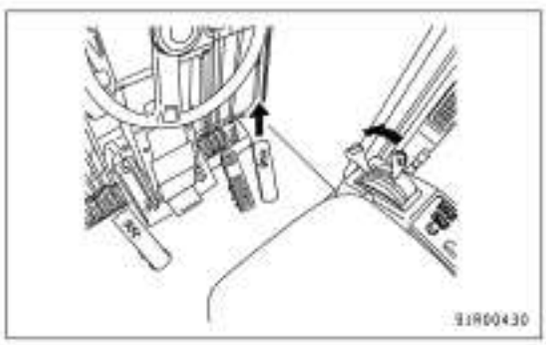
INCREASE SPEED

Let back accelerator pedal (1) and shift gearshift lever (2) up to the next speed range.



REDUCING SPEED

Release accelerator pedal (1) to reduce speed, then shift gearshift lever (2) down one range.



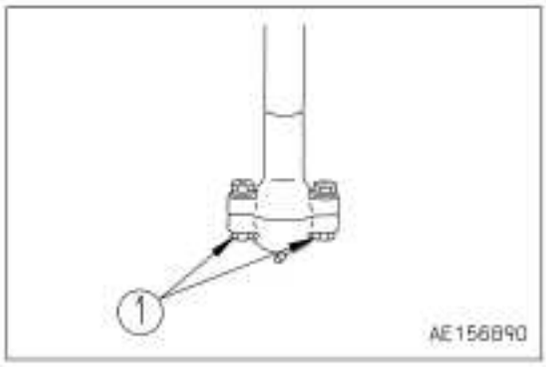
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CHECK BALL JOINT CLEARANCE, ADJUST

Check and adjust all locations with ball joints at the links of the work equipment.
Check for any play in the ball joint, and if the axial play is more than 1 mm (0.039 in), adjust as follows.

- Prepare a thickness gauge

1. Remove all the shims from the ball joint.
2. Tighten the caps with bolts (1) to make the same clearance on the left and right.
3. Measure the clearance with a thickness gauge, then insert one shim more than this dimension, and tighten the cap.
   Thickness of one shim : 0.2 mm (0.008 in),
   0.5 mm (0.020 in)

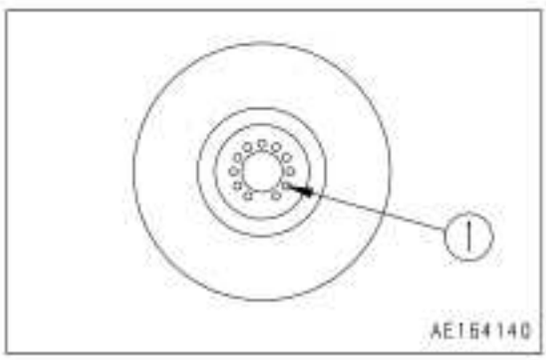


CHECK AND TIGHTEN WHEEL HUB NUT AND HUB BOLT

NOTICE

Loose wheel hub nuts and hub bolts (1) will result in shortened life of tires or other troubles.

1. Carefully check for loose bolts (1).
   When checking for loose borts (1), always turn the borts (1) in the tightening direction to check.
   Tightening torque: 610 to 765 Nm
   (62.5 to 78.0 kgm , 452.1 to 564.2 lbft)



2. If a hub bolt is broken, replace all the hub bolts.

CHECKING WHEEL RIM, LOCK RING AND SIDE RING FOR CORROSION AND WEAR

If the wheel rim, lock ring and side ring are heavily corroded, ask the tire manufacturer or your Komatsu distributor for inspection.

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EVERY 2000 HOURS SERVICE

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

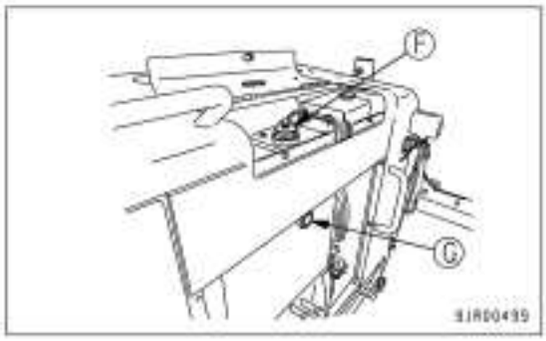
CHANGE OIL IN HYDRAULIC TANK

⚠ WARNING

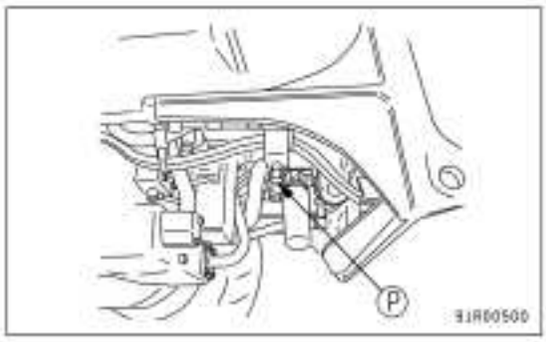
- **The parts and oil are at high temperature immediately after the engine is stopped, and may cause burns. Wait for the temperature to go down before starting the work.**
- **When removing the oil filler cap, turn it slowly to release the internal pressure, then remove it.**

- Refill capacity: 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°). 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. Loosen oil filler port (F) slowly to completely release the air inside the hydraulic tank.
3. To return the oil inside the accumulator to the tank, stop the engine, then depress the brake approx. 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.



4. Put an oil container under drain plug (P) to catch the oil.
5. To prevent getting oil on yourself, loosen drain plug (P) and drain the oil.
   To prevent the oil from spurting out, loosen drain plug (P), then gradually remove it.
6. After draining the oil, install drain plug (P).
7. Refill the specified quantity of engine oil through oil filler (F).
8. After filling with oil, check that the oil is at the specified level. For details, see "CHECK OIL LEVEL IN HYDRAULIC TANK, ADD OIL (PAGE 4-44)".
9. Install oil filler (F).



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