TEN00352-00

Operation & Maintenance Manual

BULLDOZER

D275AX-5E0

SERIAL NUMBERS 30209 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.

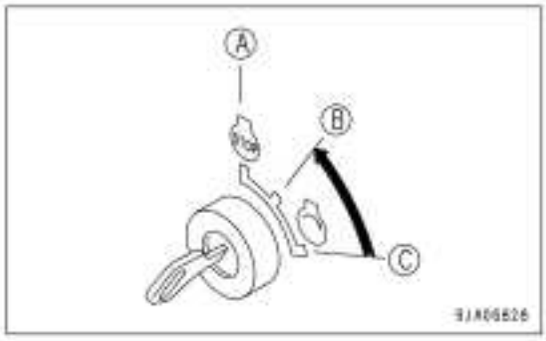
KOMATSU®

MidWestTech | Komatsu D275AX-5E0 Bulldozer Operation & Maintenance Manual | Public... Order the manual at mid-west-tech.com >

CAP WITH LOCK ---- 3- 55
DOOR OPEN LOCK ---- 3- 57
SASH GLASS INTERMEDIATE LOCK ---- 3- 58
DOOR POCKET ---- 3- 58
ASHTRAY ---- 3- 58
TOOL BOX ---- 3- 59
CAR STEREO, HANDLING ---- 3- 60
AIR CONDITIONER, HANDLING ---- 3- 68
OPERATION ---- 3- 73
CHECK BEFORE STARTING ENGINE, ADJUST ---- 3- 73
STARTING ENGINE ---- 3- 95
OPERATIONS AND CHECKS AFTER STARTING ENGINE ---- 3-100
STOPPING ENGINE ---- 3-103
MOVING MACHINE ---- 3-104
STOPPING MACHINE ---- 3-106
SHIFTING GEAR ---- 3-107
SHIFTING BETWEEN FORWARD AND REVERSE ---- 3-112
STEERING MACHINE ---- 3-114
PRECAUTIONS FOR OPERATION ---- 3-117
PARKING MACHINE ---- 3-119
CHECK AFTER STOPPING ENGINE ---- 3-120
CHECK AFTER FINISHING WORK ---- 3-121
LOCKING ---- 3-121
WORK POSSIBLE USING BULLDOZER ---- 3-122
EFFECTIVE USE OF MODE SELECTION SYSTEM ---- 3-124
RIPPER OPERATION ---- 3-129
OPERATING METHOD FOR RIPPING OPERATIONS ---- 3-132
ADJUSTING POSTURE OF WORK EQUIPMENT ---- 3-137
TIPS FOR LONGER UNDERCARRIAGE LIFE ---- 3-141
TRANSPORTATION ---- 3-143
TRANSPORTATION PROCEDURE ---- 3-143
LOADING, UNLOADING WORK ---- 3-143
METHOD OF LIFTING MACHINE ---- 3-146
TRAVELING ON ROADS ---- 3-147
REMOVAL OF CAB ---- 3-148
INSTALLATION OF CAB ---- 3-148
COLD WEATHER OPERATION ---- 3-149
PRECAUTIONS FOR LOW TEMPERATURE ---- 3-149
AFTER COMPLETION OF WORK ---- 3-151
AFTER COLD WEATHER ---- 3-151
LONG-TERM STORAGE ---- 3-152
BEFORE STORAGE ---- 3-152
DURING STORAGE ---- 3-152
AFTER STORAGE ---- 3-152
STARTING MACHINE AFTER LONG-TERM STORAGE ---- 3-152
TROUBLESHOOTING ---- 3-153
AFTER RUNNING OUT OF FUEL ---- 3-153
METHOD OF TOWING MACHINE ---- 3-154
IF BATTERY IS DISCHARGED ---- 3-155
OTHER TROUBLE ---- 3-159

MidWestTech | Komatsu D275AX-5E0 Bulldozer Operation & Maintenance Manual | P... Order the manual at mid-west-tech.com >

6. When the engine starts, release the key in starting switch (2). The key will return automatically to the ON position (B).



REMARK
Immediately after starting the engine, run at idle. While running the engine, release the decelerator pedal and do not operate the work equipment.
Guideline for idle time
- Cold weather: At least 15 seconds
- 1st start after changing engine oil or engine oil filter: 20 seconds

7. When the engine rotation stabilizes, return to the low idle (MIN) position of fuel control dial (1) and then carry out the warming-up operation.

REMARK
- Regardless of the ambient temperature, if the key in starting switch (2) is turned from OFF position to left, preheating pilot lamp (3) will light up and preheating will start. (Preheating continues while the starting switch is held at the left.)
  For the details of the preheating time, see the table in Step 5.
- While preheating is being carried out, the preheating pilot lamp (3) lights up to show that preheating is being carried out. After it lights up for 36 seconds, it flashes for 16 seconds and goes out. When it goes out, complete the preheating immediately.
- If the engine does not start with the above operation, wait for about 2 minutes, and repeat steps from Step 3. And 4.
- The relationship between the actuation time of the turbo protect function and the engine cooling water temperature is as follows.
  Even if the fuel control dial is operated within the time given below, the engine speed will not change.

Coolant temperature	Turbo protect time (sec.)
Above 10°C (50°F)	0
10 to -10°C (50 to 14°F)	Change 0 to 20
below -10°C (14°F)	20

- In cold weather, the turbo protect function is actuated, so the engine speed is kept at 1000 rpm or below for several seconds. After that, it becomes the speed set by the position of the fuel control dial.

MidWestTech | Komatsu D275AX-5E0 Bulldozer Operation & Maintenance Manual | P... Order the manual at mid-west-tech.com >

EVERY 500 HOURS SERVICE

CHANGE OIL IN ENGINE OIL PAN, REPLACE ENGINE OIL FILTER CARTRIDGE ---- 4- 58
REPLACE POWER TRAIN OIL FILTER ELEMENT, STEERING LUBRICATING OIL FILTER ELEMENT ---- 4- 60
CHECK OIL LEVEL IN FINAL DRIVE CASE, ADD OIL ---- 4- 61
REPLACE FUEL PRE-FILTER CARTRIDGE ---- 4- 62

EVERY 1000 HOURS SERVICE

REPLACE FUEL MAIN FILTER CARTRIDGE ---- 4- 64
REPLACE FUEL TANK BREATHER ELEMENT ---- 4- 66
REPLACE HYDRAULIC TANK BREATHER ELEMENT ---- 4- 66
CHANGE OIL IN POWER TRAIN CASE, WASH STRAINERS (POWER TRAIN PUMP STRAINER, SCAVENGING PUMP STRAINER) ---- 4- 67
CHECK, CLEAN FUEL STRAINER ---- 4- 69
CHECK FOR LOOSE ROPS MOUNT BOLTS ---- 4- 69
CHECK HOSE CLAMPS BETWEEN AIR CLEANER AND TURBOCHARGER, TURBOCHARGER AND AFTERCOOLER, AFTERCOOLER AND ENGINE ---- 4- 70
REPLACE CHARGE FILTER ELEMENT ---- 4- 71

EVERY 2000 HOURS SERVICE

CHANGE OIL IN HYDRAULIC TANK, REPLACE HYDRAULIC OIL FILTER ELEMENT, CLEAN HYDRAULIC TANK STRAINER ---- 4- 72
CHANGE OIL IN FINAL DRIVE CASE ---- 4- 74
CHANGE OIL IN DAMPER CASE, CLEAN DAMPER BREATHER ---- 4- 75
CHECK PIVOT BEARING OIL LEVEL, ADD OIL ---- 4- 77
CHECK OIL LEVEL IN RECOIL SPRING, ASSIST CYLINDER CASE, ADD OIL ---- 4- 77
CHECK ALTERNATOR ---- 4- 78
CHECK ENGINE VALVE CLEARANCE, ADJUST ---- 4- 78
CHECKING CHARGE PRESSURE OF NITROGEN GAS IN ACCUMULATOR (FOR CONTROL CIRCUIT) ---- 4- 78

EVERY 4000 HOURS SERVICE

REPLACE ACCUMULATOR (FOR CONTROL CIRCUIT) ---- 4- 82
CHECK WATER PUMP ---- 4- 82
CHECK STARTING MOTOR ---- 4- 82
CHECKING FOR LOOSENESS OF HIGH-PRESSURE CLAMP, HARDENING OF RUBBER ---- 4- 83
CHECKING FOR MISSING FUEL SPRAY PREVENTION CAP, HARDENING OF RUBBER ---- 4- 84
CHECK MAIN FRAME, WORK EQUIPMENT (BLADE, RIPPER) ---- 4- 85

EVERY 8000 HOURS SERVICE

REPLACE HIGH-PRESSURE PIPING CLAMP ---- 4- 86
REPLACE FUEL SPLAY PREVENTION CAP ---- 4- 86

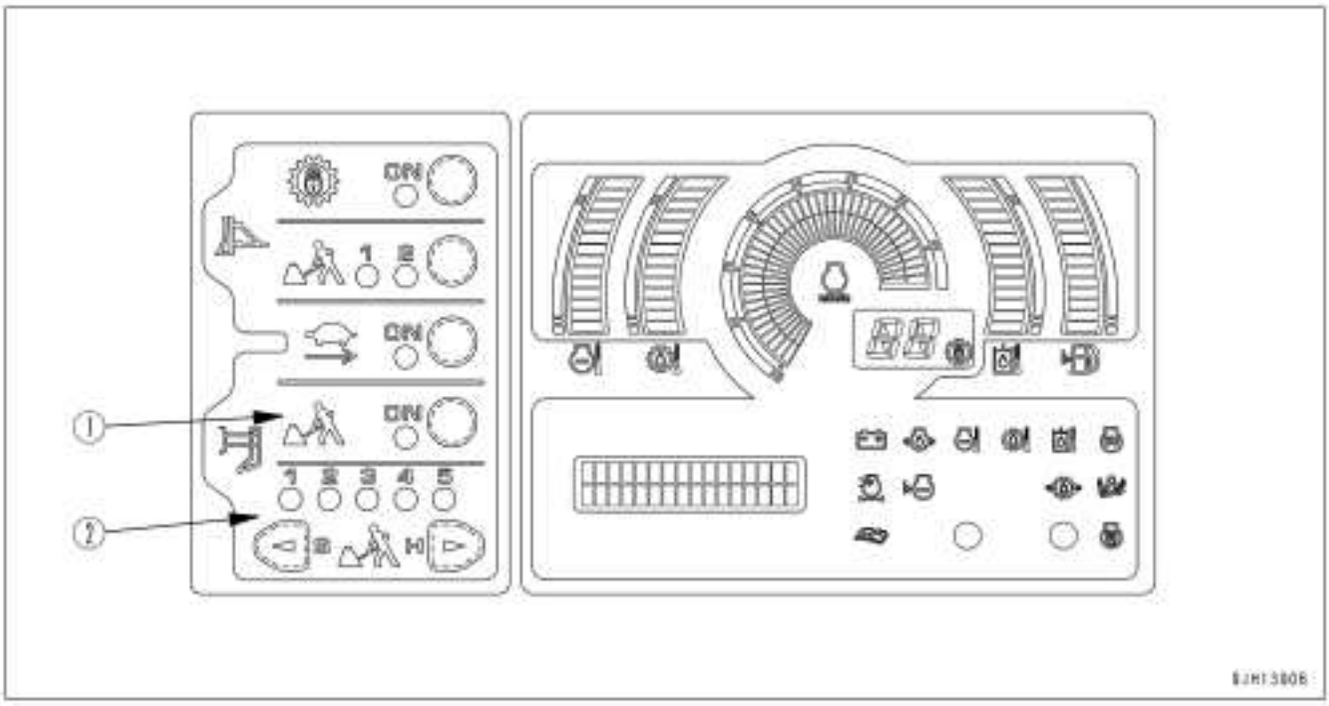
MidWestTech | Komatsu D275AX-5E0 Bulldozer Operation & Maintenance Manual | P... Order the manual at mid-west-tech.com >

SHOE SLIP CONTROL

MODE SELECTION SWITCH PANEL (SHOE SLIP CONTROL)

- Press each mode switch to turn it ON or OFF and to select the mode.
- For details of setting the mode to use, see "EFFECTIVE USE OF MODE SELECTION SYSTEM (PAGE 3-124)".

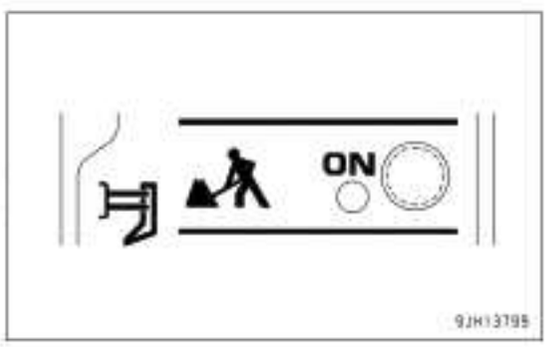
- The economy mode, reverse slow mode, and shoe slip control mode can be used independently or in combination.



(1) Shoe slip control switch (2) Rock selection mode selector switch

SHOE SLIP CONTROL SWITCH

This switch (1) is used for ripping operations.
When it is switched ON, the lamp lights up.



NOTICE

If the shoe slip control is switched ON, the rock selection mode is automatically set to [3], so switch the rock selection mode to match the type of rock.

MidWestTech | Komatsu D275AX-5E0 Bulldozer Operation & Maintenance Manual | P... Order the manual at mid-west-tech.com >