TEN00136-05

Operation & Maintenance Manual

BULLDOZER

D475ASD-5E0

SERIAL NUMBERS 30001 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.

KOMATSU®

MidWestTech | Komatsu D475ASD-5E0 Bulldozer Operation & Maintenance Manual | Publi... Order the manual at mid-west-tech.com >

CONTENTS

FOREWORD ---- 1- 1
FOREWORD ---- 1- 2
SAFETY INFORMATION ---- 1- 5
INTRODUCTION ---- 1- 7
FRONT/REAR, LEFT/RIGHT DIRECTIONS OF MACHINE ---- 1- 7
VISIBILITY FROM OPERATOR'S SEAT ---- 1- 8
BREAKING IN THE MACHINE ---- 1- 9
NECESSARY INFORMATION ---- 1- 10
PRODUCT IDENTIFICATION NUMBER (PIN), MACHINE SERIAL NO. PLATE ---- 1- 10
EPA REGULATIONS, ENGINE NUMBER PLATE ---- 1- 10
BLADE SERIAL NO. PLATE POSITION ---- 1- 11
POSITION OF SERVICE METER ---- 1- 11
TABLE TO ENTER SERIAL NO. AND DISTRIBUTOR ---- 1- 11
SAFETY ---- 2- 1
SAFETY ---- 2- 2
SAFETY LABELS ---- 2- 4
POSITIONS OF SAFETY PICTOGRAMS ---- 2- 4
SAFETY LABELS ---- 2- 5
GENERAL PRECAUTIONS ---- 2- 9
PRECAUTIONS FOR OPERATION ---- 2- 18
BEFORE STARTING ENGINE ---- 2- 18
OPERATION ---- 2- 20
TRANSPORTATION ---- 2- 24
BATTERY ---- 2- 25
TOWING ---- 2- 27
PRECAUTIONS FOR MAINTENANCE ---- 2- 28
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- 5
FRONT PANEL ---- 3- 5
SWITCHES ---- 3- 35
CONTROL LEVERS, PEDALS ---- 3- 40
DUST INDICATOR ---- 3- 46
POWER SOURCE ---- 3- 46
FUSE BOX ---- 3- 47
DOOR OPEN LOCK ---- 3- 51
SASH GLASS INTERMEDIATE LOCK ---- 3- 51
CAP WITH LOCK ---- 3- 52
DOOR POCKET ---- 3- 54
ASHTRAY ---- 3- 54
TOOL BOX ---- 3- 54
CLEAN INTERIOR OF CAB ---- 3- 54
CAR STEREO, HANDLING ---- 3- 55
AIR CONDITIONER, HANDLING ---- 3- 64
OPERATION ---- 3- 81
CHECK BEFORE STARTING ENGINE, ADJUST ---- 3- 81
STARTING ENGINE ---- 3-102

MidWestTech | Komatsu D475ASD-5E0 Bulldozer Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

OPERATIONS AND CHECKS AFTER STARTING ENGINE ---- 3-110
STOPPING ENGINE ---- 3-113
MOVING MACHINE ---- 3-114
STOPPING MACHINE ---- 3-116
SHIFTING GEAR ---- 3-117
SHIFTING BETWEEN FORWARD AND REVERSE ---- 3-122
STEERING MACHINE ---- 3-124
PRECAUTIONS FOR OPERATION ---- 3-127
PARKING MACHINE ---- 3-130
CHECK AFTER STOPPING ENGINE ---- 3-131
CHECK AFTER FINISHING WORK ---- 3-132
LOCKING ---- 3-132
PROHIBITED WORK OF SUPER DOZER ---- 3-133
EFFECTIVE USE OF SUPER DOZER ---- 3-135
EFFECTIVE USE OF MODE SELECTION SYSTEM ---- 3-138
ADJUSTING POSTURE OF WORK EQUIPMENT ---- 3-143
TIPS FOR LONGER UNDERCARRIAGE LIFE ---- 3-144
TRANSPORTATION ---- 3-146
TRANSPORTATION PROCEDURE ---- 3-146
LOADING, UNLOADING WORK ---- 3-146
METHOD OF LIFTING MACHINE ---- 3-149
TRAVELING ON ROADS ---- 3-150
REMOVAL OF CAB ---- 3-151
INSTALLATION OF CAB ---- 3-154
INSTALLATION OF ROPS ---- 3-155
COLD WEATHER OPERATION ---- 3-156
PRECAUTIONS FOR LOW TEMPERATURE ---- 3-156
AFTER COMPLETION OF WORK ---- 3-158
AFTER COLD WEATHER ---- 3-158
LONG-TERM STORAGE ---- 3-159
BEFORE STORAGE ---- 3-159
DURING STORAGE ---- 3-159
AFTER STORAGE ---- 3-159
STARTING MACHINE AFTER LONG-TERM STORAGE ---- 3-159
TROUBLESHOOTING ---- 3-160
AFTER RUNNING OUT OF FUEL ---- 3-160
METHOD OF TOWING MACHINE ---- 3-161
IF BATTERY IS DISCHARGED ---- 3-162
OTHER TROUBLE ---- 3-166
WHEN MODE SELECTION SYSTEM FLASHES ---- 3-170
MAINTENANCE ---- 4- 1
GUIDES TO MAINTENANCE ---- 4- 2
OUTLINES OF SERVICE ---- 4- 5
HANDLING OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC ---- 4- 5
OUTLINE OF ELECTRIC SYSTEM ---- 4- 8
HANDLING HYDRAULIC RELATED EQUIPMENT ---- 4- 9
WEAR PARTS ---- 4- 10
WEAR PARTS LIST ---- 4- 10
RECOMMENDED FUEL, COOLANT, AND LUBRICANT ---- 4- 11

MidWestTech | Komatsu D475ASD-5E0 Bulldozer Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

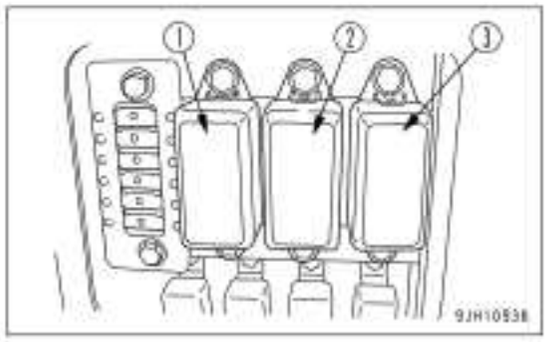
RECOMMENDED BRANDS, RECOMMENDED QUALITY FOR PRODUCTS OTHER THAN KOMATSU GENUINE OIL ---- 4- 13
STANDARD TIGHTENING TORQUES FOR BOLTS AND NUTS ---- 4- 14
TORQUE LIST ---- 4- 14
PERIODIC REPLACEMENT OF SAFETY CRITICAL PARTS ---- 4- 15
SAFETY CRITICAL PARTS ---- 4- 16
MAINTENANCE SCHEDULE CHART ---- 4- 18
MAINTENANCE SCHEDULE CHART ---- 4- 18
SERVICE PROCEDURE ---- 4- 20
INITIAL 250 HOURS SERVICE (ONLY AFTER THE FIRST 250 HOURS) ---- 4- 20
WHEN REQUIRED ---- 4- 21
CHECK BEFORE STARTING ---- 4- 53
EVERY 250 HOURS SERVICE ---- 4- 54
EVERY 500 HOURS SERVICE ---- 4- 62
EVERY 1000 HOURS SERVICE ---- 4- 68
EVERY 2000 HOURS SERVICE ---- 4- 76
EVERY 4000 HOURS SERVICE ---- 4- 85
EVERY 8000 HOURS SERVICE ---- 4- 89
SPECIFICATIONS ---- 5- 1
SPECIFICATIONS ---- 5- 2
ATTACHMENTS, OPTIONS ---- 6- 1
GENERAL PRECAUTIONS ---- 6- 2
PRECAUTIONS RELATED TO SAFETY ---- 6- 2
SELECTION OF TRACK SHOE ---- 6- 3
SELECTION OF TRACK SHOES ---- 6- 3
HANDLING MACHINES EQUIPPED WITH VHMS ---- 6- 4
VHMS INSTALLED, COMMUNICATIONS TERMINAL NOT INSTALLED ---- 6- 4
VHMS AND COMMUNICATIONS TERMINAL INSTALLED ---- 6- 5
INDEX ---- 7- 1

MidWestTech | Komatsu D475ASD-5E0 Bulldozer Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

FUSE CAPACITY AND NAME OF CIRCUIT

Fuse box (1)

NO.	Fuse capacity	Name of circuit
1	20A	VHMS controller
2	20A	VHMS permanently ON power source
3	20A	Permanent power supply for cab
4	10A	Permanent power supply for converter
5	20A	Converter



Fuse box (2)

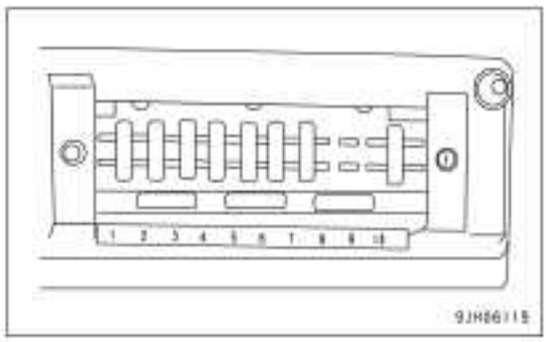
NO.	Fuse capacity	Name of circuit
1	5A	Back-up alarm
2	20A	Preheater power source, pin puller, air suspension seat
3	20A	Additional heater power source
4	20A	Working lamp
5	20A	Rear lamp

Fuse box (3)

NO.	Fuse capacity	Name of circuit
1	5A	ACC signal
2	20A	Horn
3	20A	Spare power source (1)
4	20A	Spare power source (2)
5	20A	Spare ACC signal

Fuse box (4)

NO.	Fuse capacity	Name of circuit
(1)	10A	Car radio, cigarette lighter, room lamp
(2)	10A	Rear wiper
(3)	10A	R.H. wiper
(4)	10A	Front wiper
(5)	10A	L.H. wiper
(6)	20A	Additional front lamp
(7)	20A	Additional rear lamp, revolving lamp
(8)	-	Spare
(9)	-	Spare
(10)	10A	Radio memory

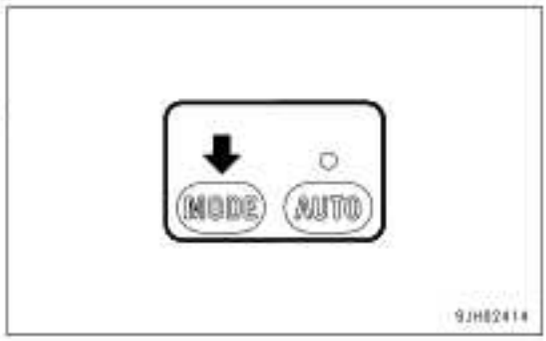


MidWestTech | Komatsu D475ASD-5E0 Bulldozer Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

Vent Selector Switch

Switch (4) is used to select the vents.

- When switch (4) is pressed, the display on monitor display (7) switches and air blows out from the vents displayed.
- During automatic operation, the vents are automatically selected.



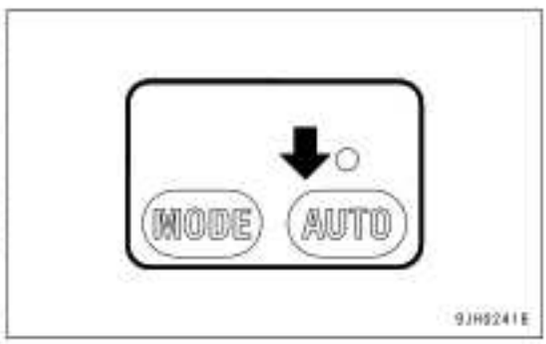
Liquid crystal display	Vent mode	Vent Ⓐ	Vent Ⓑ	Vent Ⓒ	Vent Ⓓ	Remarks
	Front and rear vents (including defroster vent)	○	○		(○)	—
	Front, rear, and foot vents (including defroster vent)	○	○	○	(○)	—
	Foot vent			○		—
	Front, foot vents (including defroster vent)		○	○	(○)	Cannot be selected for automatic operation
	Front vents (including defroster vent)		○		(○)	Cannot be selected for automatic operation

Note 1: Air blows out from vents marked ○
Note 2: The defroster vents can be opened or closed manually with the vent lever.

Auto Switch

With switch (5), the air flow, vents, and air source (RECIRC/FRESH) are automatically selected according to the set temperature.

- When auto switch (5) is pressed, the lamp above the auto switch lights up.
- Press switch (5), then use temperature control switch (3) to set the temperature, and run the air conditioner under automatic control.
- When the control is switched from automatic operation to manual operation, it is possible to operate the to change air flow, vents, and air source (RECIRC/FRESH). When manual control is used, lamp above the auto switch goes out.



REMARK

When Auto Mode is selected, if the set temperature is set to 18.0 °C (64.4 °F) or 32.0 °C (89.6 °F), the air flow is always set to High, but this is not a problem.

MidWestTech | Komatsu D475ASD-5E0 Bulldozer Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

MAINTENANCE SCHEDULE CHART

MAINTENANCE SCHEDULE CHART

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

REPLACE TRANSMISSION FILTER ELEMENT, TRANSMISSION LUBRICATION FILTER ELEMENT, AND TORQUE CONVERTER FILTER ELEMENT ---- 4- 64
CHANGE OIL IN POWER TRAIN CASE, CLEAN STRAINERS ---- 4- 68
CHANGE OIL IN HYDRAULIC TANK, REPLACE HYDRAULIC FILTER ELEMENT, CLEAN HYDRAULIC TANK STRAINER ---- 4- 76
CHANGE OIL IN FINAL DRIVE CASE ---- 4- 78

WHEN REQUIRED

CLEAN INSIDE OF COOLING SYSTEM ---- 4- 21
CHECK, CLEAN AND REPLACE AIR CLEANER ELEMENT ---- 4- 25
CHECK AND ADJUST TRACK TENSION ---- 4- 31
CHECK AND TIGHTEN TRACK SHOE BOLTS ---- 4- 34
REVERSE AND REPLACE THE END BITS AND CUTTING EDGES ---- 4- 35
CLEAN AND CHECK RADIATOR FINS, OIL COOLER FINS, AFTERCOOLER FINS ---- 4- 37
CLEAN FUEL TANK STRAINER ---- 4- 41
DRAIN WATER AND SEDIMENT IN FUEL TANK ---- 4- 41
CLEAN FUEL TANK BREATHER ---- 4- 41
CLEAN HYDRAULIC TANK BREATHER ---- 4- 41
CLEAN STEERING CASE BREATHER ---- 4- 42
CHECK UNDERCARRIAGE OIL ---- 4- 43
CLEAN AIR CONDITIONER AIR FILTER (FRESH/RECIRC FILTER) ---- 4- 44
REPLACE AIR CONDITIONER BELT ---- 4- 44
CHECK AND ADJUST AIR CONDITIONER ---- 4- 45
LUBRICATE DOOR HINGE ---- 4- 46
CHECK DOOR LATCH ---- 4- 46
CHECK DOOR LOCK STRIKER ---- 4- 47
REPLACE DOOR DAMPER ---- 4- 47
CHECK WINDOW WASHER FLUID LEVEL, ADD FLUID ---- 4- 47
REPLACE WIPER BLADE ---- 4- 48
BLEEDING AIR IN HYDRAULIC SYSTEM ---- 4- 49
LUBRICATING ---- 4- 50

MidWestTech | Komatsu D475ASD-5E0 Bulldozer Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >