TEN00013-00
(Replaces SEAM049901T)

Operation & Maintenance Manual

D65EX-15
D65PX-15
D65WX-15

CRAWLER DOZER

SERIAL NUMBERS

D65EX-15	67001 and up
D65PX-15	67001 and up
D65WX-15	67001 and up

December 2004

KOMATSU

MidWestTech | Komatsu D65EX-15, D65PX-15, D65WX-15 Crawler Dozer Operation & Mai... Order the manual at mid-west-tech.com >

CONTENTS

FOREWORD 1- 1
FOREWORD 1- 2
SAFETY INFORMATION 1- 6
INTRODUCTION 1- 8
FRONT/REAR, LEFT/RIGHT DIRECTIONS OF MACHINE 1- 8
NECESSARY INFORMATION 1- 9
PRODUCT IDENTIFICATION NUMBER (PIN)/MACHINE SERIAL NO. PLATE 1- 9
ENGINE SERIAL NO. PLATE 1- 9
POSITION OF SERVICE METER 1- 10
TABLE OF ENTER SERIAL NO. AND DISTRIBUTOR 1- 10
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- 17
STARTING ENGINE 2- 17
OPERATION 2- 19
TRANSPORTATION 2- 22
BATTERY 2- 23
TOWING 2- 25
PRECAUTIONS FOR MAINTENANCE 2- 26
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
FRONT PANEL 3- 6
SWITCHES 3- 33
CONTROL LEVERS AND PEDALS 3- 37
CIRCUIT BREAKER 3- 45
FUSE 3- 46
FUSIBLE LINK 3- 47
ELECTRIC POWER TAKE-OUT ADAPTER 3- 48
DOOR - OPEN LOCK 3- 49
SASH GLASS INTERMEDIATE LOCK 3- 49
DOOR POCKET 3- 50
OPENING AND CLOSING ENGINE SIDE COVER 3- 50
ASHTRAY 3- 51
CUP HOLDER 3- 51
TOOL BOX 3- 51
CAR STEREO, HANDLING 3- 52
AIR CONDITIONER, HANDLING 3- 60
ACCUMULATOR, HANDLING 3- 65
OPERATION 3- 66
CHECK BEFORE STARTING ENGINE, ADJUST 3- 66
STARTING ENGINE 3- 82
OPERATIONS AND CHECKS AFTER STARTING ENGINE 3- 87

MidWestTech | Komatsu D65EX-15, D65PX-15, D65WX-15 Crawler Dozer Operation &... Order the manual at mid-west-tech.com >

STOPPING ENGINE ---- 3- 90
MACHINE OPERATION ---- 3- 91
SHIFTING GEARS ---- 3- 94
SHIFTING BETWEEN FORWARD AND REVERSE ---- 3- 97
STEERING MACHINE ---- 3- 99
PRECAUTIONS FOR OPERATION ---- 3-101
WORK POSSIBLE USING BULLDOZER ---- 3-103
ADJUSTING POSTURE OF WORK EQUIPMENT ---- 3-105
PARKING MACHINE ---- 3-109
CHECK AFTER STOPPING ENGINE ---- 3-110
CHECK AFTER FINISHING WORK ---- 3-110
LOCKING ---- 3-111
TIPS FOR LONGER UNDERCARRIAGE LIFE ---- 3-112
TRANSPORTATION ---- 3-115
TRANSPORTATION MEANS ---- 3-115
REMOVING CAB ---- 3-115
PRECAUTIONS WHEN REMOVING WORK EQUIPMENT ---- 3-115
PRECAUTIONS WHEN REMOVING ROPS ---- 3-116
LOADING, UNLOADING WORK ---- 3-117
LIFTING MACHINE ---- 3-120
TRAVELING ON ROADS ---- 3-121
COLD WEATHER OPERATION ---- 3-122
PRECAUTIONS FOR LOW TEMPERATURE ---- 3-122
AFTER COMPLETION OF WORK ---- 3-124
AFTER COLD WEATHER ---- 3-124
LONG-TERM STORAGE ---- 3-125
BEFORE STORAGE ---- 3-125
DURING STORAGE ---- 3-125
AFTER STORAGE ---- 3-125
TROUBLESHOOTING ---- 3-126
AFTER RUNNING OUT OF FUEL ---- 3-126
MACHINE TOWING METHOD ---- 3-127
IF BATTERY IS DISCHARGED ---- 3-128
OTHER TROUBLE ---- 3-132
MAINTENANCE ---- 4- 1
GUIDE TO MAINTENANCE ---- 4- 2
OUTLINE OF SERVICE ---- 4- 5
HANDLING OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC ---- 4- 5
RELATING TO ELECTRIC SYSTEM ---- 4- 8
WEAR PARTS LIST ---- 4- 9
WEAR PARTS LIST ---- 4- 9
RECOMMENDED FUEL, COOLANT, AND LUBRICANT ---- 4- 11
USE OF FUEL, COOLANT AND LUBRICANTS ACCORDING TO AMBIENT TEMPERATURE ---- 4- 12
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- 15
MAINTENANCE SCHEDULE CHART ---- 4- 17

MidWestTech | Komatsu D65EX-15, D65PX-15, D65WX-15 Crawler Dozer Operation &... Order the manual at mid-west-tech.com >

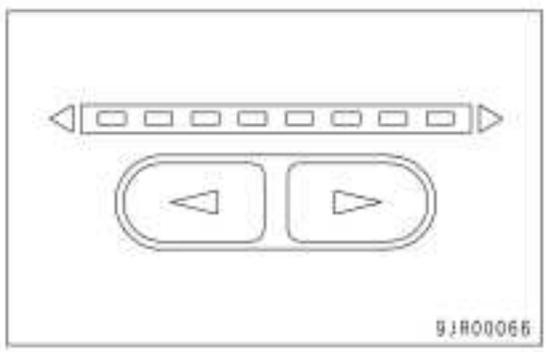
MAINTENANCE SCHEDULE CHART ---- 4- 17
ADJUST INJECTOR ---- 4- 19
SERVICE PROCEDURE ---- 4- 20
WHEN REQUIRED ---- 4- 20
CHECK BEFORE STARTING ---- 4- 40
EVERY 50 HOURS SERVICE ---- 4- 41
EVERY 250 HOURS SERVICE ---- 4- 42
EVERY 500 HOURS SERVICE ---- 4- 52
EVERY 1000 HOURS SERVICE ---- 4- 56
EVERY 2000 HOURS SERVICE ---- 4- 61
EVERY 4000 HOURS SERVICE ---- 4- 65
EVERY 8000 HOURS SERVICE ---- 4- 67
SPECIFICATIONS ---- 5- 1
SPECIFICATIONS ---- 5- 2
ATTACHMENTS, OPTIONS ---- 6- 1
GENERAL PRECAUTIONS ---- 6- 2
PRECAUTIONS RELATED TO SAFETY ---- 6- 2
HANDLING HYDRAULIC RIPPER ---- 6- 3
GENERAL VIEW ---- 6- 3
EXPLANATION OF COMPONENTS ---- 6- 4
OPERATION ---- 6- 5
TROUBLESHOOTING ---- 6- 7
MAINTENANCE ---- 6- 8
SPECIFICATIONS ---- 6- 8
HANDLING TRIMMING DOZER ---- 6- 9
GENERAL VIEW ---- 6- 9
EXPLANATION OF COMPONENTS ---- 6- 10
OPERATION ---- 6- 12
MAINTENANCE ---- 6- 15
SPECIFICATIONS ---- 6- 19
DELUXE SEAT ---- 6- 20
HEADREST ---- 6- 22
EQUIPPING FIRE EXTINGUISHER AND FIRST-AID KIT ---- 6- 23
INDEX ---- 7- 1

MidWestTech | Komatsu D65EX-15, D65PX-15, D65WX-15 Crawler Dozer Operation &... Order the manual at mid-west-tech.com >

METHOD OF OPERATION

Switch / Condition of use		Fan switch	Air conditioner switch	Temperature control switch	FRESH/RECIRC selector switch
Cooling	Rapid	HI	ON	All blue	RECIRC
	Normal	HI - LO	ON	More than half are blue	FRESH
Dehumidifying, heating		HI - LO	ON	More than half are red	FRESH
Heating	Rapid	HI	OFF	All red	RECIRC
	Normal	HI - LO	OFF	More than half are red	FRESH
Defroster		HI	ON	More than half are red	FRESH
Vetilation or pressurizing		HI - LO	OFF	All blue	FRESH

When defrosting, set the temperature control switch so that all lamps are red. This will improve defrosting and demisting.



WHEN NOT USING THE AIR CONDITIONER REGULARLY

Run the air conditioner at cooling or dehumidification + heating for several minutes from time to time to prevent the loss of the oil film in various parts of the compressor.

REMARK

If the temperature inside the cab is low, the air conditioner may not work. In such cases, use the recirculated air to warm up the inside of the cab, then turn the air conditioner switch on. The air conditioner will be run.

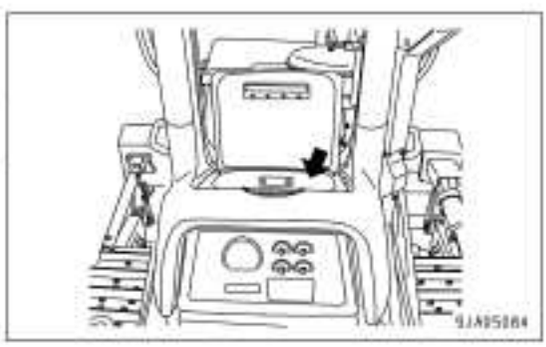
COOL BOX

When the cooling is being used, this can be used for keeping drinks and other things cool.

When the heating is being used, it can be used to keep things warm.

Do not use the cool box for things which smell or leak water or break easily.

Do not use it as a holder for tools or other small objects.



MidWestTech | Komatsu D65EX-15, D65PX-15, D65WX-15 Crawler Dozer Operation &... Order the manual at mid-west-tech.com >

EVERY 250 HOURS SERVICE

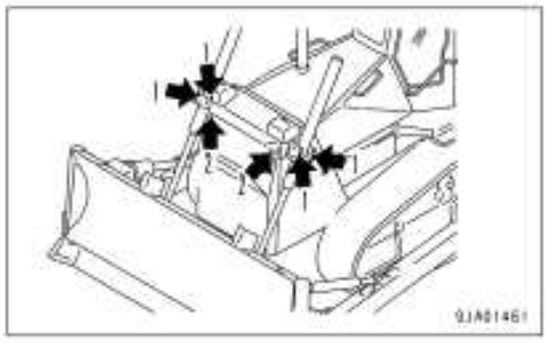
Maintenance for every 50 hours service should be carried out at the same time.

LUBRICATING

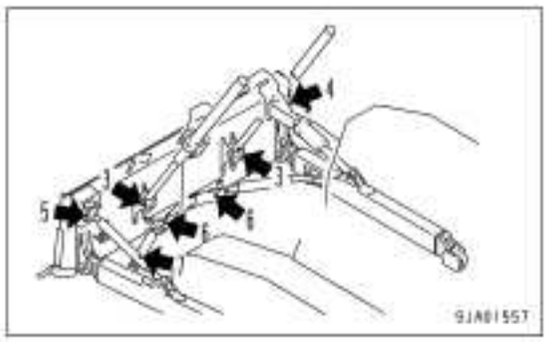
1. Lower the blade to the ground, then stop the engine.
2. Using a grease pump, pump in grease through the grease fittings shown by arrows.
3. After greasing, wipe off any old grease that was pushed out.

POWER TILTDOZER

(1) Lift cylinder support yoke (4 places)
(2) Lift cylinder support shaft (2 places)



(3) Lift cylinder ball joint (2 places)
(4) Tilt cylinder ball joint (1 place)
(5) Tilt brace ball joint (1 place)
(6) Brace ball joint (2 places)
(7) Tilt brace thread (1 place) (screw-adjustable)

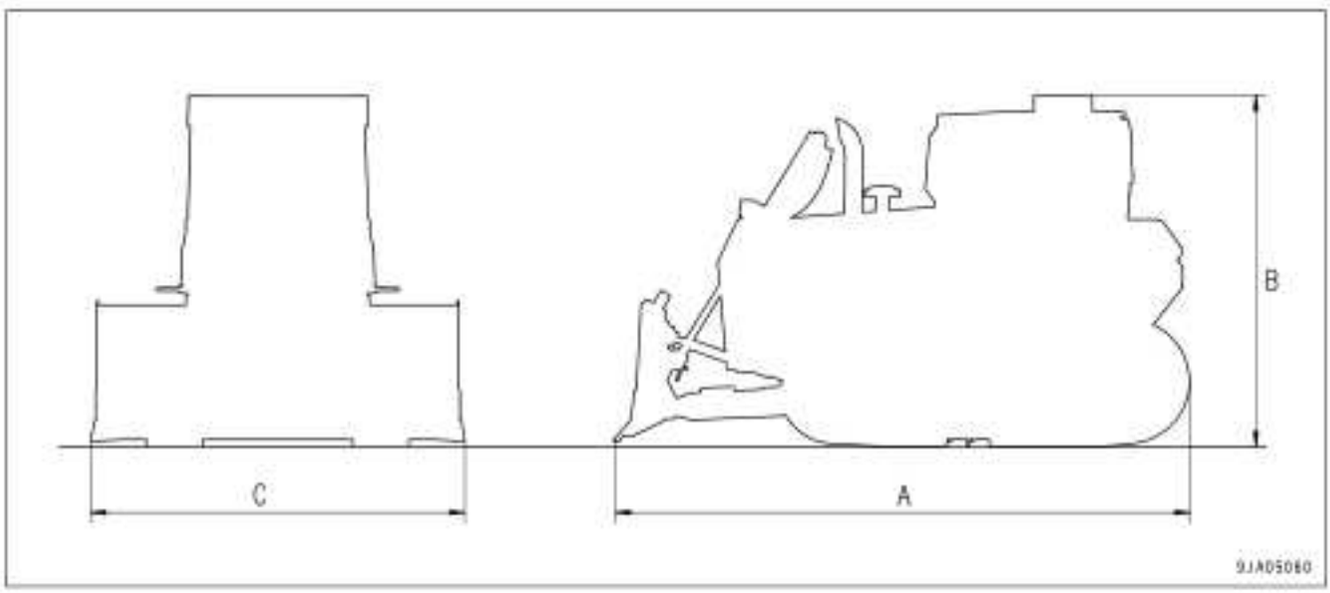


MidWestTech | Komatsu D65EX-15, D65PX-15, D65WX-15 Crawler Dozer Operation &... Order the manual at mid-west-tech.com >

SPECIFICATIONS

Power tiltdozer, ROPS guard, cab, air conditioner

	Item		Unit	D65EX-15	D65PX-15	D65WX-15
	Machine weight		kg (lb)	19,550 (43,108)	20,950 (46,195)	20,860(45,996)
	Name of engine		-	Komatsu SA6D125E-3 diesel engine		
	Engine horsepower		Kw(HP)/rpm	140(187)/1,950		
A	Overall length		mm (ft in)	5,210 (17'1")	5,550 (18'3")	5,440(17'10")
B	Overall height		mm (ft in)	3,220 (10'7")	3,255 (10'8")	3,220 (10'7")
C	Overall width		mm (ft in)	3,415 (11'2")	3,970 (13'0")	3,640 (11'11")
	Travel speed (1st/2nd/3rd)	Forward	km/h (MPH)	3.9/6.8/10.6 (2.4/4.2/6.6)		
		Reverse	km/h (MPH)	5.0/8.6/13.4 (3.1/5.5/8.3)		



MidWestTech | Komatsu D65EX-15, D65PX-15, D65WX-15 Crawler Dozer Operation &... Order the manual at mid-west-tech.com >