435
445
445CT
Skid Steer

Operator's Manual

Revision Date: 09/2005

Bur 6-87531NA

CASE CONSTRUCTION

MidWestTech | Case 435, 445, 445CT Skid Steer Operator's Manual | Publication 6-87531 Order the manual at mid-west-tech.com >

TABLE OF CONTENTS

TO THE OWNER 1
- RIGHT, LEFT, FRONT AND REAR OF MACHINE 3
- PRODUCT IDENTIFICATION AND SERIAL NUMBERS 4
- MACHINE COMPONENTS 6

SAFETY RULES 9
- UTILITY SAFETY 11
- PERSONNEL 12
- GENERAL 12
- PROPER ENTRY AND EXIT 13
- STARTING AND STOPPING PRECAUTIONS 14
- OPERATING PRECAUTIONS 15
- MAINTENANCE PRECAUTIONS 17
- FUEL HANDLING PRECAUTIONS 18
- BURN PREVENTION 19
- HAZARDOUS CHEMICAL PRECAUTIONS 19
- TRANSPORTING PRECAUTIONS 19
- ROLL-OVER PROTECTIVE STRUCTURE 20
- FIRE EXTINGUISHER 20
- SEAT BELT PRECAUTIONS 21
- SPECIFIC PRECAUTIONS TO THIS MACHINE 22
- EMERGENCY EXIT 26

SAFETY DECALS 27

INSTRUMENTS AND CONTROLS 41
- INSTRUMENT PANEL 41
- BATTERY MASTER DISCONNECT SWITCH 47

LEFT HAND CONTROL LEVER 48

RIGHT HAND CONTROL LEVER 49

TRAVEL/STEERING/RIDE CONTROL 51

TRAVEL/STEERING CONTROLS 52

THROTTLE CONTROLS 53

HYDRAULIC BYPASS CONTROL 54

AUXILIARY HYDRAULIC ATTACHMENT CONTROL PEDAL 55

AUXILIARY ELECTRO-HYDRAULIC CONTROLS (IF EQUIPPED) 58

OPERATOR'S SEAT 62

CAB DOOR LATCHES (IF EQUIPPED) 64

SLIDING SIDE WINDOWS (IF EQUIPPED) 64

WINDSHIELD WASHER CONTROLS 65

DOME LAMP CONTROLS 65

AUXILIARY ELECTRICAL SWITCH 66

ROTATING BEACON 66

OPERATING INSTRUCTIONS 67
- DAILY INSPECTION 67
- STARTING THE ENGINE 70
- PARKING THE MACHINE AND STOPPING THE ENGINE 71

TRIM THIS EDGE

TRIM THIS EDGE

RIGHT PAGE (Chapter First Page)

Bur 6-87531na

MidWestTech | Case 435, 445, 445CT Skid Steer Operator's Manual | Publication 6-87531 Order the manual at mid-west-tech.com >

RUN-IN PERIOD 72
ENGINE 72
WHEEL NUTS 72
HYDRAULIC FILTER 72
DRIVE CHAINS 72
OPERATING IN COLD WEATHER 73
OPERATING IN HOT WEATHER 74
BOOSTER BATTERY CONNECTION 75
JUMP STARTING AT THE REMOTE JUMP START TERMINALS (IF EQUIPPED) 76
MACHINE OPERATION 77
ENGINE SPEED 77
MOVING A DISABLED MACHINE 78
JOB SITE OPERATION 79
OPERATING THE LOADER 80
MANUAL ATTACHMENT COUPLER 82
HYDRAULIC ATTACHMENT COUPLER (IF EQUIPPED) 85
HIGH FLOW HYDRAULIC SYSTEM 89
RIDE CONTROL 90
ANTI-VANDAL LOCKOUT 91
TRANSPORTING THE MACHINE 92
PRIOR TO LOADING 92
LIFTING THE MACHINE WITH A CRANE 93

WHEEL AND TIRES 95

LUBRICATION / MAINTENANCE 99
LOADER LIFT ARM LOCK PIN 100
TILTING THE OPERATORS COMPARTMENT FORWARD 102
ENGINE HOURMETER 105
MAINTENANCE LUBRICATION SCHEDULE 105
SYSTEMGARD LUBRICATION ANALYSIS PROGRAM 106
ENVIRONMENT 106
FLUIDS AND LUBRICANTS 107
REAR ACCESS DOORS 108
LUBRICATION/MAINTENANCE CHART 110
EVERY 10 HOURS OR DAILY 111
100 HOUR INITIAL FINAL DRIVE 122
EVERY 250 HOURS 123
EVERY 500 HOURS 129
EVERY 1000 HOURS 136
EVERY 2000 HOURS 139

TRIM THIS EDGE

TRIM THIS EDGE

LEFT PAGE

Bur 6-87531na

MidWestTech | Case 435, 445, 445CT Skid Steer Operator's Manual | Publication 6-87531 Order the manual at mid-west-tech.com >

ADJUSTMENT/MAINTENANCE 143
STEEL TRACK ADJUSTMENTS 143
ADJUSTING THE HAND THROTTLE 145
MAINTENANCE OF THE SEAT BELT 148
RIDE CONTROL ACCUMULATOR 148
ROLL-OVER PROTECTION STRUCTURE 149
FIRE EXTINGUISHER 151
PLASTIC AND RESIN PARTS 151
REMOVAL OF SLIDING SIDE WINDOWS (IF EQUIPPED) 152

ELECTRICAL SYSTEM 153
ALTERNATOR CHARGING SYSTEM 153
BATTERY SERVICE 154
WORK LAMPS 156
TAIL LAMPS 157
FUSES AND RELAYS 159

MACHINE STORAGE 161
STORAGE PREPARATION 161
STORAGE REMOVAL 162

SPECIFICATIONS 163
435 ENGINE 163
445 - 445CT ENGINE 164
ELECTRICAL SYSTEM 165
COOLING SYSTEM 166
HYDRAULIC SYSTEM 166
POWER TRAIN 166
BRAKES 166
OPERATING WEIGHTS 167
SHIPPING WEIGHTS (APPROXIMATE) 167
ADDITIONAL WEIGHTS FOR OPTIONAL EQUIPMENT 167
BUCKET CAPACITIES 168
MATERIAL WEIGHT 169
435 - 445 OPERATING DATA AND DIMENSIONS 174
445CT OPERATING DATA AND DIMENSIONS 178

AFTER DELIVERY CHECK 187

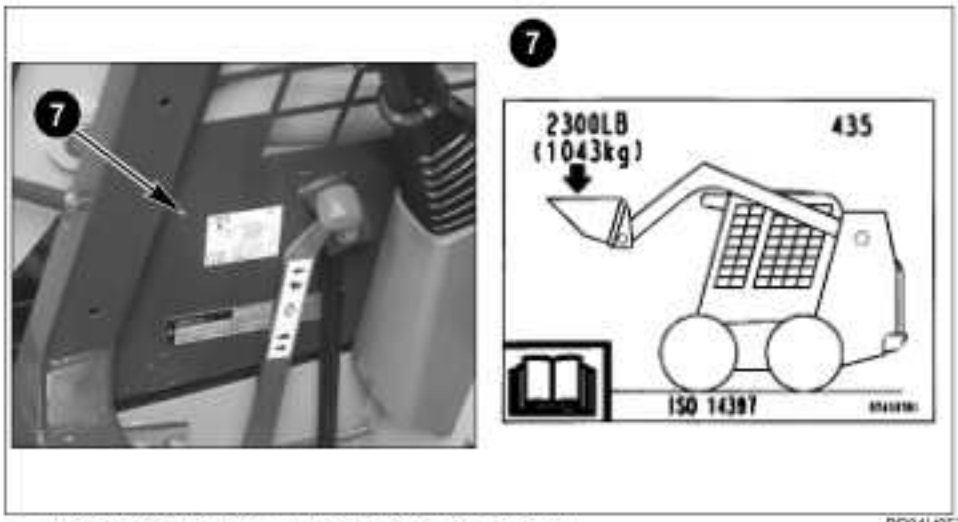
TRIM THIS EDGE

TRIM THIS EDGE

RIGHT PAGE

Bur 6-87531na

MidWestTech | Case 435, 445, 445CT Skid Steer Operator's Manual | Publication 6-87531 Order the manual at mid-west-tech.com >



BD04H057

7. INFORMATION DECAL- LIFT CAPACITY, 435 SHOWN

435 capacity .....1043 kg (2300 lbs)
445 capacity .....1134 kg (2500 lbs)
445CT capacity .....1134 kg (2500 lbs)

TRIM THIS EDGE

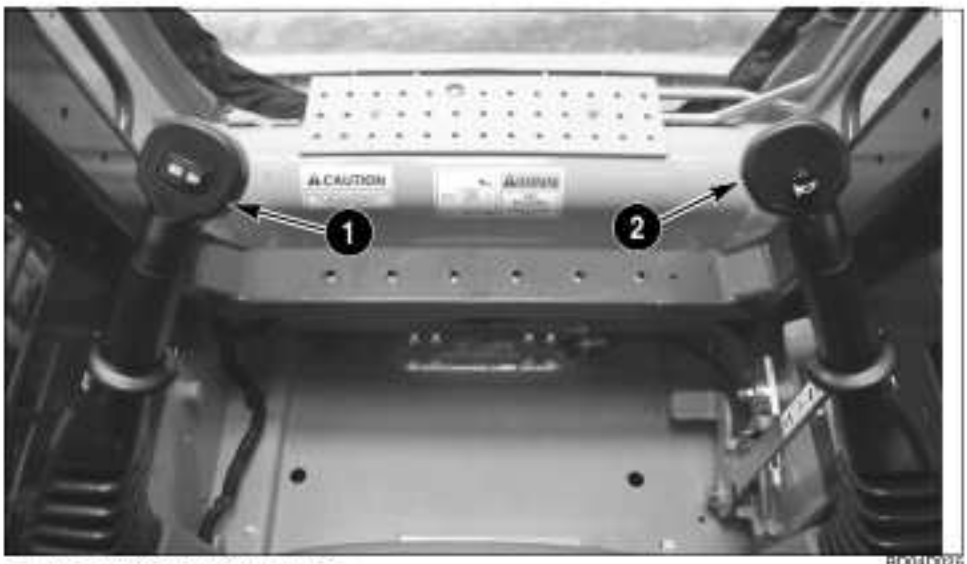
TRIM THIS EDGE

RIGHT PAGE

Bur 6-87531na

MidWestTech | Case 435, 445, 445CT Skid Steer Operator's Manual | Publication 6-87531 Order the manual at mid-west-tech.com >

TRAVEL/STEERING/RIDE CONTROL



1. LEFT HAND CONTROL LEVER
2. RIGHT HAND CONTROL LEVER

IMPORTANT: *Keep all control lever movements smooth.*

Push both of the controls forward to move the machine forward. Pull both of the controls rearward to move the machine in reverse. Move the controls forward a short distance for maximum power and slow speed. Move the controls completely forward for maximum speed.

Move both the control levers to NEUTRAL to stop the machine.

TRIM THIS EDGE

TRIM THIS EDGE

RIGHT PAGE

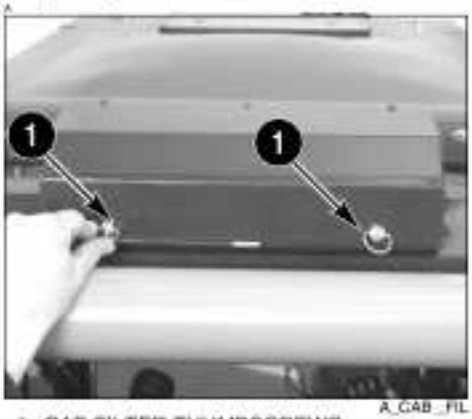
Bur 6-87531na

MidWestTech | Case 435, 445, 445CT Skid Steer Operator's Manual | Publication 6-87531 Order the manual at mid-west-tech.com >

EVERY 1000 HOURS

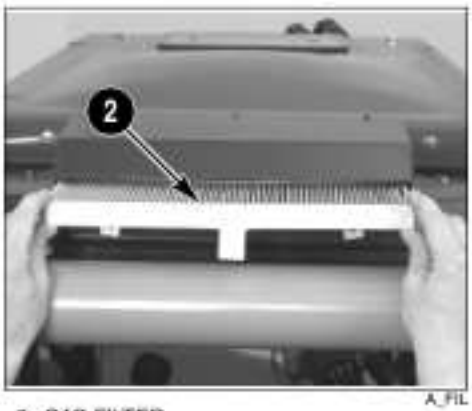
Cab Filter

The cab filter should be checked every 1000 hours of operation. Inspect, clean or replace the filter as necessary. In extreme work conditions the filter should be checked and cleaned more frequently.



1. CAB FILTER THUMBSCREWS

To access the cab filter remove the two thumbscrews.



2. CAB FILTER

Remove and check the filter for damage, debris or dirt.

Cleaning with compressed air:

- You must wear face protection for this procedure.
- You must not use more than 2 bar (30 psi) of compressed air.
- You must not hold the nozzle closer than 25 mm (1 inch) from the filter.



BS19K083

TRIM THIS EDGE

TRIM THIS EDGE

LEFT PAGE

Bur 6-87531na

MidWestTech | Case 435, 445, 445CT Skid Steer Operator's Manual | Publication 6-87531 Order the manual at mid-west-tech.com >