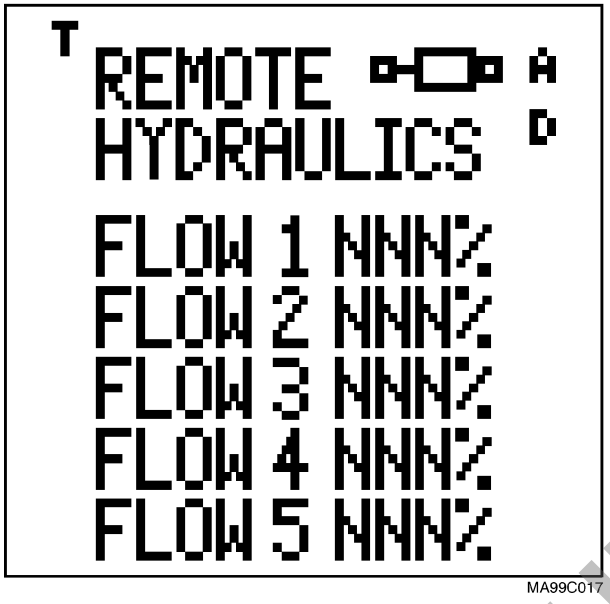
Remote Hydraulic Information

This screen displays the remote hydraulic coupler flow as a percentage of total available flow at each remote coupler. The hydraulic flow information is active at all times.



MA99C017

The Remote Hydraulic data screen will be displayed when any of the five messages exceed 5% of the set value for each remote coupler. The set point value is initially the value of the first valid message received and thereafter, of the message value when the data screen was last exited.

Press the INCR or DECR button until the Remote Hydraulic screen is displayed. When the data screen is entered, it is entered via detection of changed settings. The original data display screen will be returned to after ten seconds. The timer will restart, without exiting the data screen, when any of the five remote messages exceed 5% of the message when the timer last started.

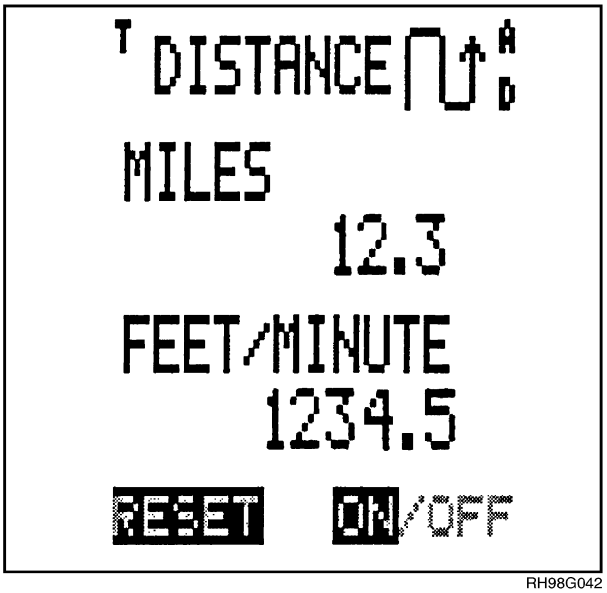
Distance Information

This screen displays accumulated distance and instantaneous rate.

Press the INCR or DECR button until the Distance screen is displayed. This screen shows the total distance accumulated and the rate in English or Metric measurement.



RH98G041



RH98G042

When the distance function is ON, it records distance and the rate per minute. When in English measurement it records total feet covered until 5280 feet are accumulated, then automatically changes to miles. It also records instantaneous feet covered per minute. When in Metric measurement it records total distance in kilometers and rate in meters per minute.

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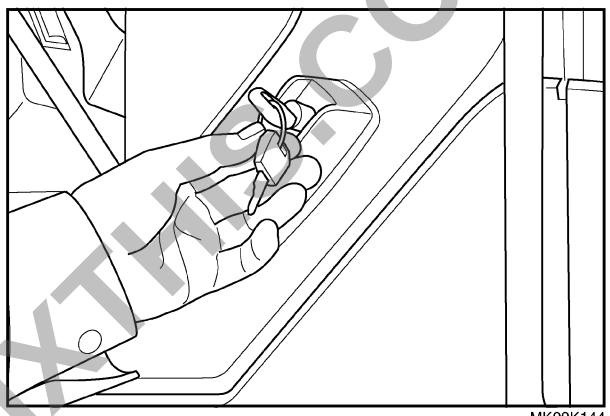
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The following section gives an overview and location of all the cab controls. For in-depth operating instructions, refer to the appropriate section in this manual for further details.

TRACTOR ACCESS

Cab Door Lock

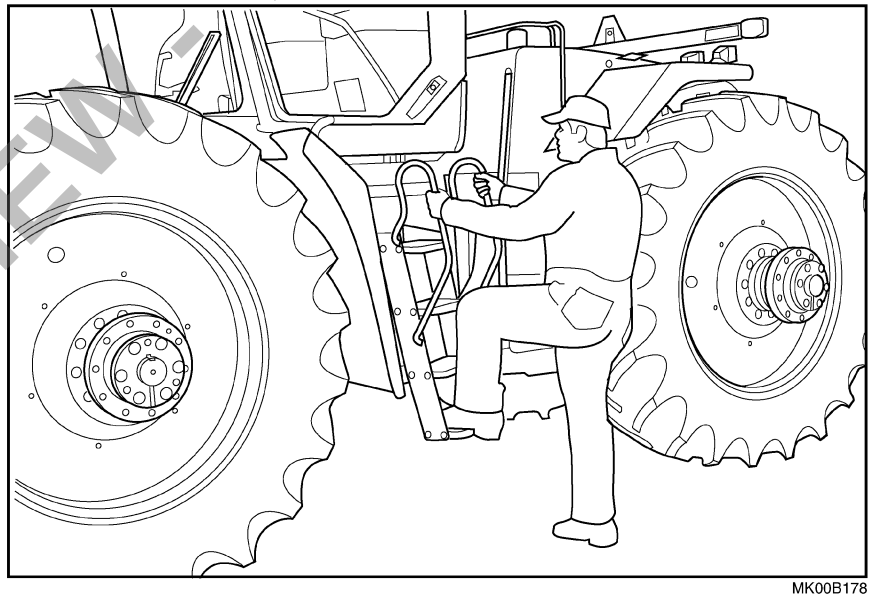
Use the key for the key switch to lock or unlock the cab door from the outside.



MK99K144

WARNING: *Jumping on or off the machine can cause an injury. Always face the machine, use the hand rails and steps, and get on or off slowly. Maintain a three point contact to avoid falling, (both hands on rails and one foot on the step, or one hand on the hand rail and both feet on the steps).*

SM516



MK00B178

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LUBRICATION AND MAINTENANCE CHART

Service Schedule 10 Hours or Daily 50 Hours or Weekly 250 Hours or Monthly 500 Hours or 6 Months 1500 Hours or 12 Months 6000 Hours or 2 Years SERVICE POINTS	NO OF POINTS	FREQUENCY IN HOURS				
		CLEAN	CHANGE	CHECK	GREASE	DRAIN
Engine Oil Level	1			10		
Hydraulic/Axle Oil Level	1			10		
Transmission Oil Level	1			10		
Engine Coolant Level	1			10		
Fuel Level	1			10		
General Tractor Inspection (See Note 1)				10		
Articulation Hinge - Upper - Front	1				50	
Oscillation Hinge - Rear	1				50	
Articulation Hinge - Lower	1				50	
Articulation Cylinder - Front - LH and RH	2				50	
Articulation Cylinder - Rear - LH and RH	2				50	
Water Trap - Fuel Tank and Fuel Filter (See Note 7)	2					50
Hitch Cylinder Pin - Upper - LH and RH	2				50	
Hitch Cylinder Pin - Lower - LH and RH	2				50	
Hitch Rockshaft - LH and RH	4				50	
Hitch Lift Links and Top Link	12				50	
Air Filter Cab - Outside (See Note 2)	1	250				
Air Tubing Engine	1			500		
Alternator/Water Pump Belt	1			500		
Compressor Belt	1			500		
Battery Electrolyte Level	2			500		
Engine Oil (See Note 6)	1		500			
Engine Oil Filter	1		500			
Engine Fuel Filter (See Note 7)	1		500			
Driveshaft Carrier Bearing	1				500	
PTO Carrier Bearing	1				500	
PTO Slip Joint	2				500	
Radiator and Coolers	3	500				
Engine Coolant SCA Level	1			500		
Engine Air Filter - Primary (See Note 3)	1		1500			
Engine Air Filter - Secondary	1		1500			
Axle/Hydraulic Oil	1		1500			
Axle Lube Filter	1		1500			
Hydraulic Oil Filter	1		1500			
Hydraulic Oil Vent	1	1500				
Transmission Oil	1		1500			
Transmission Oil Filter	1		1500			

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The following section covers all engine specifications, power train specifications, travel speeds, weights and dimensions on the tractor.

DIESEL ENGINE

Model
- STX 275 ..... Case 6TAA-8304
- STX 325 ..... Case 6TAA-9004

Type ..... Six Cylinder, Four Stroke Cycle, Turbocharged, Air to Air Aftercooled
Firing Order 1-5-3-6-2-4
Bore ..... 4.49 Inch (114 mm)
Stroke
- STX 275 ..... 5.31 Inch (135 mm)
- STX 325 ..... 5.69 Inch (144.5 mm)

Displacement
- STX 275 ..... 506 Cubic Inch (8.3 Liter)
- STX 325 ..... 543 Cubic Inch (8.9 Liter)

Compression Ratio
- STX 275 ..... 17.1:1
- STX 325 ..... 16.6:1

Cylinder Sleeves ..... Replaceable Wet Type
High Engine Idle (without load) ..... 2100 - 2145 RPM
Rated Engine Speed ..... 2000 RPM
Engine Idle Speed ..... 850 RPM

Engine Lubrication System

Oil Pressure at Idle Speed (Minimum) ..... 10 PSI (69 kPa)
Oil Pressure at High Idle ..... 40 to 50 PSI (276 TO 344 kPa)
Type of System ..... Pressure and Spray

Fuel System

Fuel Injection Pump ..... CUMMINS
Fuel Injectors ..... CUMMINS
Tank Capacity ..... 200 Gallons (758 Liters)

Air Intake System

Type ..... Dry Type, Two Stage Aspirator System with Service Indicator in Instrument Cluster

Transmission - Power Shift

Type ..... 16 Speed Full Power Shift, 16 Forward and 2 Reverse Speeds
Shift Control ..... Electronically Controlled, Hydraulically Operated

Transmission - Manual Shift

Type ..... 24 Speeds Forward, 6 Speeds in Reverse, Constant Mesh, Synchronized Shift
Gear Shift Control ..... Lever Actuated
Rangeshift Control ..... Lever Actuated
HI-LO Power Shift Control ..... Actuated Electrically by Switch on Throttle Control

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The following section covers the proper starting and transmission operation of the tractor.

BEFORE STARTING THE ENGINE

Before starting your tractor for the first time make the following checks. Also see Lubrication/Filters/Fluids and Maintenance/Adjustments for regular service schedule.

1. Make sure all persons that operate or do maintenance on the tractor understand that clean fuel is important.
2. Check all lubrication fittings for grease as given in the Lubrication Chart.
3. Check the oil level in the engine crankcase. Check the fluid level in the transmission and hydraulic reservoir.
4. Check that the tractor fuel tank is filled with clean fuel that has the specifications given in this manual.

NOTE: *Clean around the fuel tank cap before you remove the cap.*

5. Check the fuel system, cooling system and engine oil pan for leaks.
6. Check that the alternator and compressor belts are adjusted correctly.
7. Remove any water or sediment from the water trap of the fuel tank.
8. Check the air pressure of the tires.
9. If your tractor has a power takeoff, make sure the safety guard is installed.
10. Check the coolant level in the coolant recovery bottle. Add water and ethylene glycol coolant as needed.

WARNING: *Before starting the engine, be sure all operating controls are in neutral or park lock position. This will eliminate accidental movement of the machine or start up of power driven equipment.* SM106E

Daily Inspection

Do a daily walk around visual inspection of the tractor. Check for such items as hoses or wires rubbing against other components, oil leaks, trash buildup, loose bolts or anything that would affect the normal operation of the tractor.

Make any necessary corrections before operating the tractor.

RUN-IN PROCEDURE

Engine Run-In

It is important that the run-in instructions for a new engine be followed. Proper run-in will increase engine power and service life. If the engine is not run-in properly the piston rings and cylinder bore can be damaged.

Your tractor is shipped from the factory with 15W-40 oil in the engine crankcase. If the tractor is operated in high or low ambient temperature and/or severe operating conditions, change to the recommended oil viscosity grade as specified. See Engine Lubrication.

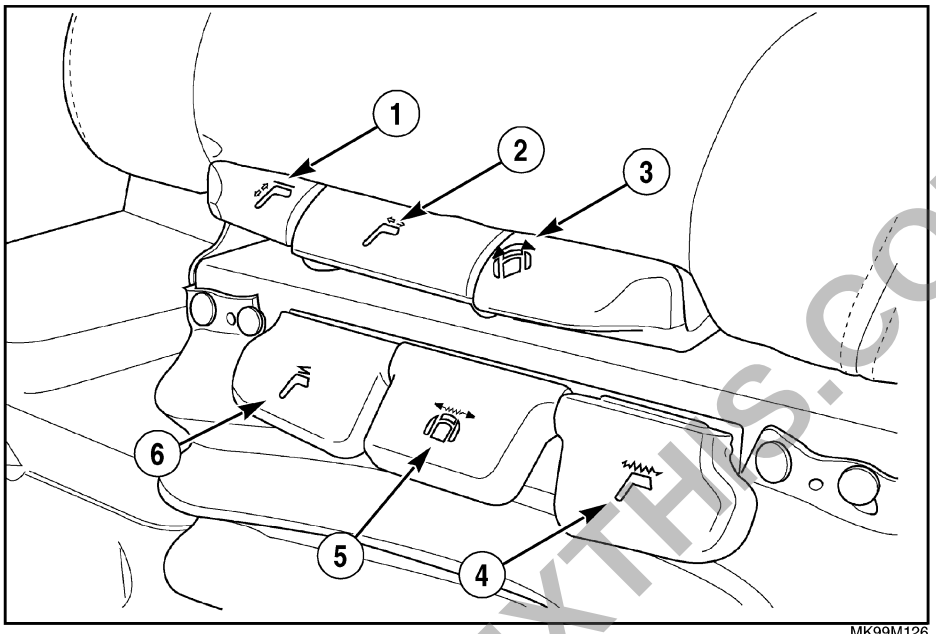
During the initial 100 hours of operation, operate the tractor as follows:

1. Do not run the engine at idle speed for long periods of time.
2. Operate at reduced load range as much as possible.
3. Do not lug the engine. Shift to a lower gear to prevent lugging.
4. Operate in a gear range that permits acceleration to governed speed when more power is required.
5. Monitor the engine instruments frequently during operation. Reduce throttle and/or load if the coolant temperature exceeds safe operating limits.
6. Check the oil level every 8 to 10 hours of operation.
7. Avoid starting and immediately stopping a cold engine.

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OPERATORS SEAT WITH AIR SUSPENSION



MK99M126

Your operators seat is equipped with controls to permit you to adjust the seat for your personal comfort. Adjust the seat as follows:

1. HEIGHT ADJUSTMENT SWITCH - The seat can be raised or lowered by increasing or decreasing the air pressure in the seat. Pull UP on the switch to increase the air pressure and raise the seat. Push DOWN on the switch to decrease the air pressure and lower the seat. The key switch must be in the ACCESSORY or ON position to raise or lower the seat.
2. FORE/AFT - The operators seat can be adjusted forward or rearward for individual operator size. Pull UP on the lever and slide the seat to the desired position. Release the lever to lock the seat in position.
3. SEAT SWIVEL - The seat swivels to the right and left of center. Lift the swivel control lever UP until seat can swivel. Turn the seat to the desired position. Push the lever DOWN to lock the seat in one of seven positions. The seat can also swivel freely. Lift the swivel control lever all the way up past the lever detent. The seat can now swivel freely. To lock the seat in position, push the swivel control lever DOWN past the detent.
4. FORE/AFT ISOLATOR - The seat can float a short distance forward or rearward when the isolator lever is lifted up. With the isolator lever in the DOWN position, the seat will not float forward or rearward. Having the seat in the float position will absorb shocks and reduce operator fatigue when traveling over rough terrain.
5. LATERAL ISOLATOR - The seat can float a short distance right or left when the isolator lever is DOWN. With the isolator lever in the UP position, the seat will not float right or left. Having the lever in the float (Down) position will absorb shocks and reduce operator fatigue when traveling over rough terrain. The Lateral Isolator Lever can lock the seat in three positions, Left - Middle - and Right.
6. RIDE FIRMNESS CONTROL - The amount of firmness can be adjusted for personal comfort. This control is infinitely adjustable. The lever up is soft. Push the lever down to increase the firmness.

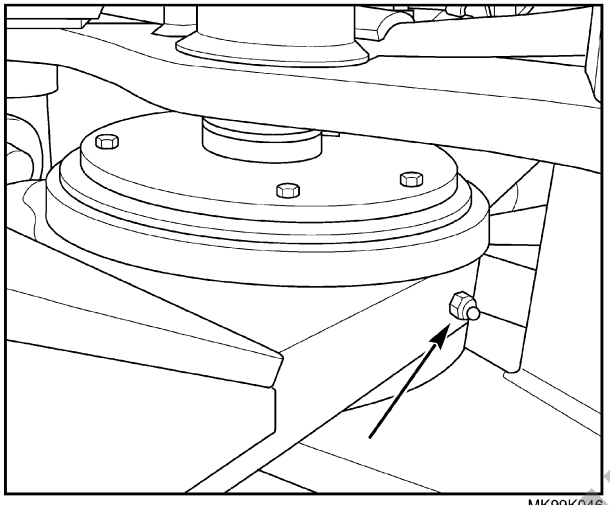
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50 HOUR MAINTENANCE

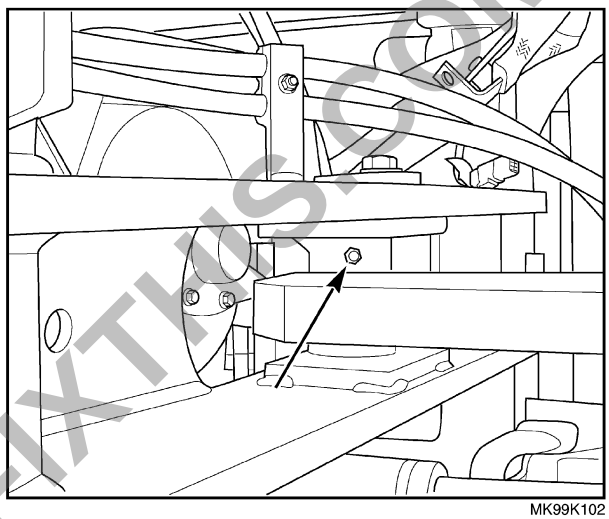
Grease Fittings

Use CASE 251 EP Grease or equivalent NLGI No. 2 Multi-Purpose Lithium EP Grease on all grease fittings.



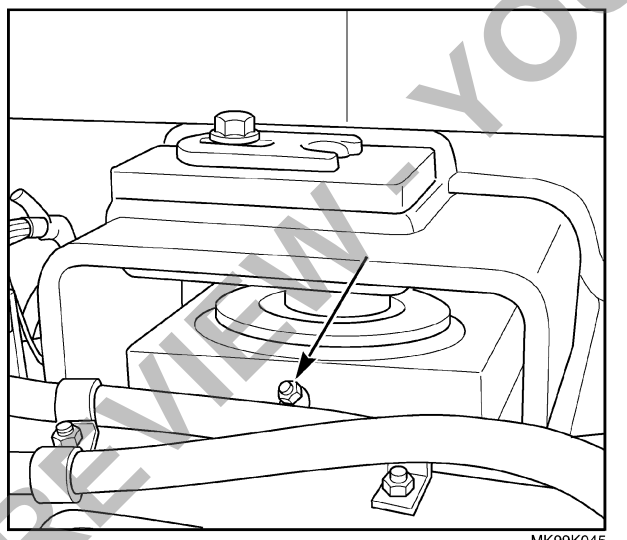
MK99K046

ARTICULATION HINGE-LOWER



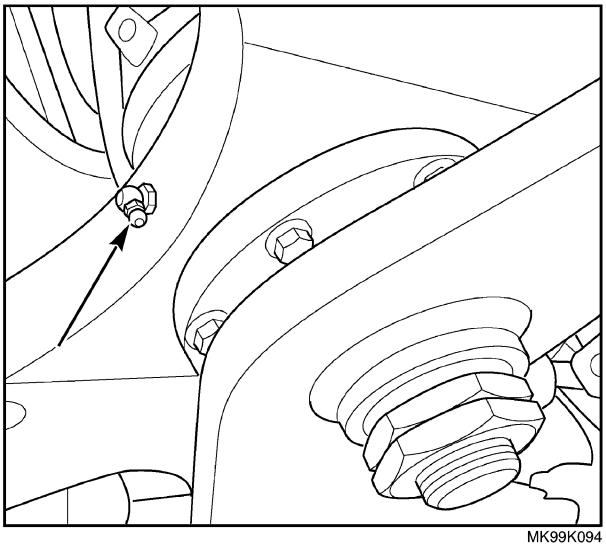
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ARTICULATION HINGE - UPPER



MK99K045

OSCILLATION HINGE - REAR



MK99K094

PIVOT PIN- FRONT (*ACCUSTEER* ONLY)

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Brakes

Service Brake	Hydraulic Multiple Disc Wet Brake Integral with Front and Rear Differentials
Park Brake	Electrically Controlled. Spring Applied and Pressure Released. Integral with Front/Rear Differentials

Axle Differential And Final Drives

Type	Bar Type with Integral Wet Brake, Spiral Bevel Ring/Pinion Gears. Pressure Lubed and Oil Cooled
Final Drive	3-Pinion Planetary
Total Axle Reduction (Ratio)	25.7
Bar Diameter	4.0 Inch (101.6 mm)
Bar Length	120 Inch (3048 mm)

Power Takeoff (If Equipped)

PTO Type	Live Independent System Integral with Transmission
Type Clutch	Electro/Hydraulically Actuated
Rotation	Clockwise from Rear of Tractor
1000 RPM	20 Splines 1.75 Inch Diameter
Engine Speed for 1000 RPM	2000 RPM

Hydraulic System

Type	Closed Center, Load Sensing, Pressure Compensating System
Remote Valve	
Standard	Mechanically Operated, Closed Center Stack Type with Line Locks on Lift Ports
Optional	Electro/Hydraulic Controlled, Closed Center Stack Type with In-Cab Variable Flow Control for Each Section Also Line Locks on all Lift Ports
Standard System Pump Capacity (at 2000 PSI - 2000 RPM)	40 GPM (151.4 L/min)
High Output Pump Capacity (If Equipped) (at 2000 PSI - 2000 RPM)	55 GPM (208 L/min)
Steering	Articulated, Full Priority, Two Double Acting Cylinders
Maximum Steering Pressure	2700 PSI (18 613 kPa)
Couplings	ISO Standard Couplers
Maximum System Pressure	2900 PSI (19 995 kPa)

Hitch System (If Equipped)

Type Control	Manual or Electronic
Type Valve	Three Position - Lift, Hold and Lower
Type Draft Arms	Rigid, Swing Type with Manual Float Adjustment
Type Hitch	Three Point Category IV-N
Hitch Coupler (adjustable)	Category III or IV-N
Lift Capacity (OECD Static)	
24 Inch (610 mm) Back	16 000 lb (7248 kg)

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GENERAL TABLE OF CONTENTS

1-TO THE OWNER **1**
PRODUCT IDENTIFICATION AND SERIAL NUMBERS 3
CHEMICAL TANK MOUNTING 6
BUSINESS BAND RADIOS 7

2-SAFETY/DECALS **9**
SAFETY 9
SAFETY DECALS 12
ROLL OVER PROTECTIVE STRUCTURE (ROPS) 16
SEAT BELTS 18
TRACTOR WARNING LAMPS AND SMV SYMBOL 19
IMPLEMENT WARNING LAMPS AND SMV SYMBOL 20
SAFETY CHAIN 20

3-OPERATING CONTROLS **21**
TRACTOR ACCESS 21
OPERATORS SEAT WITH AIR SUSPENSION 23
STEERING COLUMN CONTROLS 26
STEERING COLUMN ADJUSTMENT 27
FOOT PEDALS 28
CENTER CONSOLE CONTROLS 29
RH ARMREST CONTROL CONSOLE 31
REMOTE VALVE FUNCTION CONTROL 34
ARM REST CONTROL CONSOLE ADJUSTMENT (IF EQUIPPED) 40
UPPER CONSOLE CONTROLS 40
STANDARD HVAC CONTROL SYSTEM 44
AUTOMATIC CLIMATE CONTROL OPERATION (IF EQUIPPED) 45
AUTOMATIC CLIMATE CONTROL OPERATION 47
DEFOG CONTROL OPERATION 47
TROUBLESHOOTING THE HVAC CONTROL SYSTEM 47

4-INSTRUMENTATION **53**
ROPS POST INSTRUMENT CLUSTER 53
PROGRAMMING THE DISPLAY MONITOR 56
INSTRUMENT PANEL BACKLIGHT INTENSITY 57
CHANGING THE REMOTE VALVE EXTEND/RETRACT VALUES (IF EQUIPPED) 57
CHANGING TIRE RADIUS 58
RADAR SENSOR CALIBRATION 58
RADAR CALIBRATION PROCEDURE 58
TIRE AVERAGE ROLLING RADIUS CHART 60
DYNAMIC ROLLING RADIUS 60
STEERING CONTROLLER CALIBRATION 61
CRITICAL WARNING DISPLAYS 64
NON-CRITICAL WARNING DISPLAYS 64
DIAGNOSTIC WARNING DISPLAYS 66
INFORMATION WARNING DISPLAYS 67

5-OPERATING INSTRUCTIONS **77**
BEFORE STARTING THE ENGINE 77
RUN-IN PROCEDURE 77
ENGINE OVERSPEED 78
SEAT BELT 78
NORMAL ENGINE STARTING PROCEDURE 79
STOPPING THE ENGINE 81
COLD TEMPERATURE OPERATION 82
TOWING THE TRACTOR 86

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THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF DEATH OR SERIOUS INJURY.

M171C

If Safety Decals on this machine use the words **Danger, Warning or Caution,** which are defined as follows:

- **DANGER:** Indicates an immediate hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- **WARNING:** Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates an potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

If Safety Decals on this machine are ISO two panel Pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as  and  if used, are RED.

WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE DEATH OR SERIOUS INJURY. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the Manual(s) pertaining to the machine.
- Reads and understands ALL Safety Decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow Case Corporation instructions on machine operation and maintenance.

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TRANSPORTING THE TRACTOR 87
FRONT STEERING OPERATION (IF EQUIPPED) 88
COMBINATION STEERING OPERATION 88
CRAB STEERING 88
ARTICULATION ONLY STEERING OPERATION 88
STEERING DISPLAY MONITOR 88
POWERSHIFT TRANSMISSION OPERATION (IF EQUIPPED) 89
24-SPEED TRANSMISSION OPERATION (IF EQUIPPED) 93
DIFFERENTIAL LOCK (IF EQUIPPED) 95
CONSTANT ENGINE SPEED OPERATION (IF EQUIPPED) 96

6-FIELD OPERATION 97
OPERATING THE POWER TAKEOFF (PTO) 99
STANDARD DRAWBAR 101
THREE POINT HITCH PREPARATION 106
HITCH COUPLER - CATEGORY III OR IV-N 111
HITCH OPERATION 115
REMOTE HYDRAULICS 123
AUXILIARY IMPLEMENT POWER CONNECTIONS 134

7-IN FIELD PERFORMANCE 137
TRACTOR BALLAST 137
FRONT AND REAR SUITCASE WEIGHTS 143
FRONT SUITCASE WEIGHT, TIE BOLT AND CLAMP INSTALLATION 144
WHEEL WEIGHTS 146
WHEEL WEIGHT BOLT TORQUE 146
TIRE AND RIM SERVICE 147
TIRE PRESSURE FOR MAXIMUM TIRE LOAD AT RATED INFLATION 150
WHEEL BOLT TORQUES 153
WHEEL OFFSET DIRECTION CHANGE 153

8-LUBRICATION/FILTERS/FLUIDS/MAINTENANCE 161
LUBRICATION AND MAINTENANCE 161
PLASTIC AND RESIN PARTS 161
LUBRICANTS AND CAPACITIES 161
ENGINE LUBRICATION 162
GRILLE AND HOOD ACCESS 164
LUBRICATION AND MAINTENANCE CHART 166
AIR INDUCTION SYSTEM 189

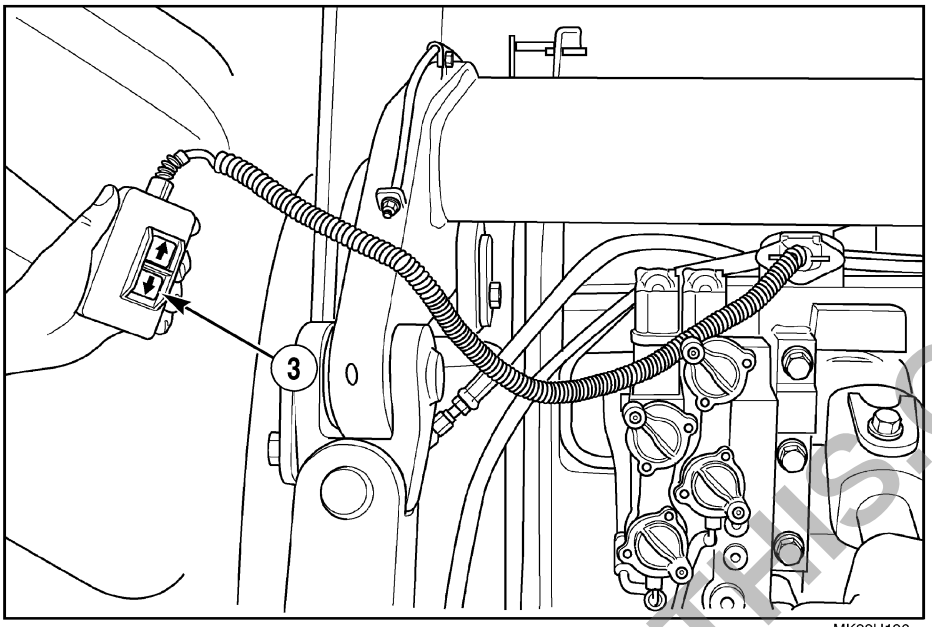
9-ELECTRICAL SYSTEM 209
SPECIFICATIONS 209
GENERAL SERVICE INFORMATION 215
DIESEL ENGINE 217

10-SPECIFICATIONS 217
TRACTOR WEIGHTS 219
TRAVEL SPEEDS (MPH) 220
TRAVEL SPEEDS (KPH) 221
APPROXIMATE TRAVEL SPEEDS (KPH) 222
APPROXIMATE TRAVEL SPEEDS (MPH) 223
APPROXIMATE OVERALL MEASUREMENTS 224

DETAIL INDEX 225

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4. Push the BOTTOM switch button (3) to LOWER the hitch.
5. When the switch buttons are released, the hitch will stop and stay at the height selected until the hitch controls inside the cab are used to operate the hitch.
6. If both switch buttons are pushed at the same time the hitch will stop. When the buttons are released, the system will reset in approximately one second and the switch can be used in the normal manner.
7. After all connections and adjustments have been made, shut off the engine, disconnect the remote switch from the rear outlet. Store the switch in the cab.
8. The hitch system must be enabled with the HITCH POSITION CONTROL after each use of the remote switch. Refer to Enabling the Hitch System in this section.

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