GENERAL TABLE OF CONTENTS

1-TO THE OWNER **1**
STEIGER SERIES TRACTORS 3
PRODUCT IDENTIFICATION AND SERIAL NUMBERS 4
CHEMICAL TANK MOUNTING 9
BUSINESS BAND RADIO READY (IF EQUIPPED) 10
PRE-CONDITIONING NEW TRACKS 12

2 – SAFETY/DECALS **15**
SAFETY 15
PERSONAL SAFETY 18
INSTRUCTIONAL SEAT SAFETY 18
MAINTENANCE SAFETY 19
FIRE SAFETY 19
BATTERY SAFETY 20
MACHINE OPERATION AND ROLL-OVER SAFETY 20
HAZARDOUS CHEMICALS 21
SAFETY DECALS 22
ARTICULATION CYLINDER LOCKING BLOCKS 26
OPERATOR PROTECTIVE STRUCTURE 27
SEAT BELTS 29
TRACTOR WARNING LAMPS AND SMV SYMBOL 30
IMPLEMENT WARNING LAMPS AND SMV SYMBOL 31
SAFETY CHAIN 31

3-OPERATING CONTROLS **33**
TRACTOR ACCESS 33
OPERATOR'S SEAT WITH AIR SUSPENSION 35
STEERING COLUMN CONTROLS 39
STEERING COLUMN ADJUSTMENT 40
FOOT PEDALS 41
CENTER CONSOLE CONTROLS 42
RH ARMREST CONTROL CONSOLE 44
REMOTE VALVE FUNCTION CONTROL 47
ARM REST CONTROL CONSOLE ADJUSTMENT (IF EQUIPPED) 53
UPPER CONSOLE CONTROLS 53
HVAC CONTROL SYSTEM 57
AUTOMATIC TEMPERATURE CONTROL OPERATION 60

4-INSTRUMENTATION **65**
ROPS POST INSTRUMENT CLUSTER 65
PROGRAMMING THE DISPLAY MONITOR 70
CHANGING U.S. STANDARD OR METRIC DISPLAY UNITS 70
CHANGING TIRE RADIUS 71
TIRE AVERAGE ROLLING RADIUS CHART 72
DYNAMIC ROLLING RADIUS 72
RADAR SENSOR CALIBRATION 73
RADAR CALIBRATION PROCEDURE 73
OLD HOURS 74
OPERATOR ADJUSTED MENU PROGRAM 75
WARNING FAULT DISPLAYS 79
CRITICAL WARNING DISPLAYS - LEVEL 1 - STANDARD AND PERFORMANCE 79
NON-CRITICAL DISPLAYS - LEVEL 2 - STANDARD AND PERFORMANCE 80

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

This section gives important safety information for your tractor.

SAFETY

Understand that your safety and the safety of other persons is measured by how you service and operate this machine. Know the positions and operation of all controls before you try to operate. MAKE SURE YOU CHECK ALL CONTROLS IN A SAFE AREA BEFORE STARTING YOUR WORK.

READ THIS MANUAL COMPLETELY and make sure you understand the controls. All equipment has limits. Make sure you understand the speed, brakes, steering stability and load characteristics of this machine before you start to operate.

The safety information given in this manual does not replace safety codes, insurance needs, federal, state and local laws. Make sure your machine has the correct equipment needed by the local laws and regulations.

CNH AMERICA, LLC is continuing to work for your safety by making tractors with better protection and by providing these rules for safe operation.

WARNING: *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 PERSONAL INJURY OR DEATH.*

SM171B

Safety Rules

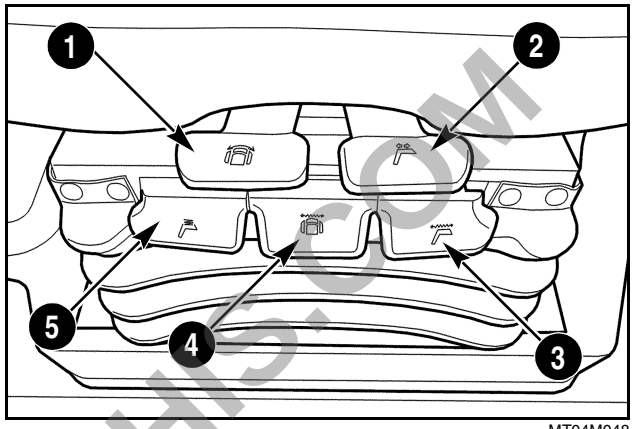
- Always sound horn before starting the tractor.
- Before starting the engine, be sure all operating controls are in neutral or park lock position. This will eliminate accidental movement of the machine or start up of power driven equipment. R106E
- Operate controls only when seated in the operator's seat. R137A
- Securely fasten your seat belt. Your machine is equipped with a ROPS cab, ROPS canopy or ROPS frame for your protection. The seat belt can help insure your safety if it is used and maintained. Never wear a seat belt loosely or with slack in the belt system. Never wear the belt in a twisted condition or pinched between the seat structural members. Inspect seat belt webbing, buckle and retractors to ensure they are not damaged. If damage is apparent, repair before operating the tractor. M437A
- A frequent cause of death or serious injury is persons falling off machinery and being run over. Keep cab door closed. Instructional seat is used only for instructing or service diagnosing only. DO NOT permit others to ride, especially children. Seat belt (if equipped) must be worn at all times. M488C
- Before leaving the tractor, stop the engine, put all controls in neutral or park lock position, remove the key from the key switch. R301B
- Stay off slopes too steep for safe operation. Shift down before you start up or down a hill with a heavy load. Avoid "free wheeling". R123A
- Do not drive on roads, or at high speed anywhere, with the differential lock engaged. Difficult steering will occur and can result in an accident. In field operation, use the differential lock for traction improvement, but release for turning at row ends. R116A

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

OPERATOR'S SEAT WITH AIR SUSPENSION

Your operator's seat is equipped with controls to adjust the seat for your personal comfort. Identify your seat and adjust the seat as explained.

Positive Response Seat



MT04M048

1. 
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. Release the lever to lock the seat in the desired position.

2. 
FORE/AFT - The operator's 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. 
FORE/AFT ISOLATOR - The seat can float a short distance forward or rearward when the isolator lever is lowered. With the isolator lever in the UP position, the seat does not float forward or rearward. The float position absorbs shocks and reduces operator fatigue when traveling over rough terrain.

4. 
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 does not float right or left. The float (DOWN) position absorbs shocks and reduces operator fatigue when traveling over rough terrain.

5. 
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.

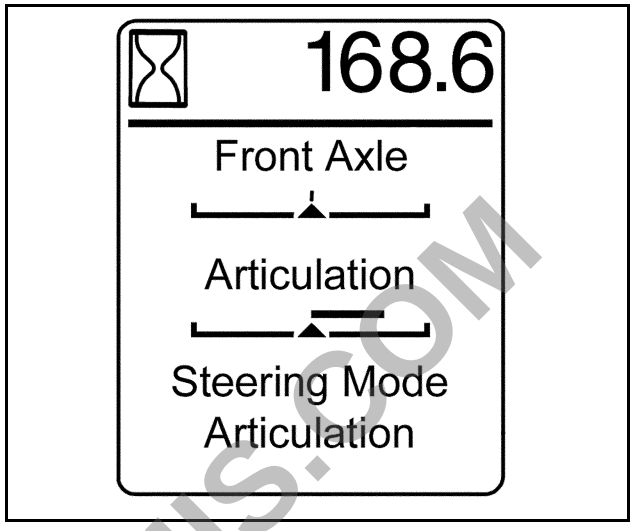
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Steering Information

If equipped with *ACCUSTEER* this screen displays on bar graphs the position of the front axle and articulation.

The bar graphs will show the position to the left or right of center or if the axle is centered. The display will show **Combination** under the **Steering Mode** heading when the *ACCUSTEER* is activated, **Articulation** when the *ACCUSTEER* is off and when there is a steering fault.



MT04M041

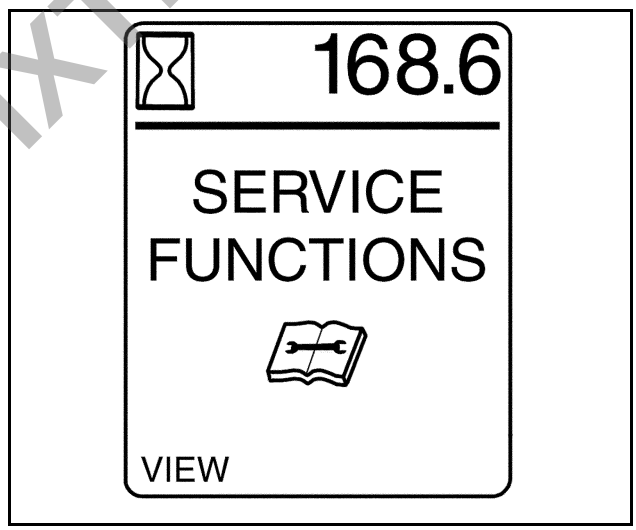
Service Functions

This screen displays and edits service function data based on engine hours.

Press the INCR or DECR button until the Service Functions screen is displayed. The Service Functions screens alert the operator when service needs to be performed based on the suggested service intervals.

When a service function limit has been reached, a three second alarm will sound and the display screen will flash and go directly to the service function in question. Pushing the “A”, “B” key or the “RESET” key will suppress the alarm for four hours. The alarm is re-enabled each time the key switch is turned ON.

When the Service Function screen is displayed, press the “A” button to scroll through each service function screen.

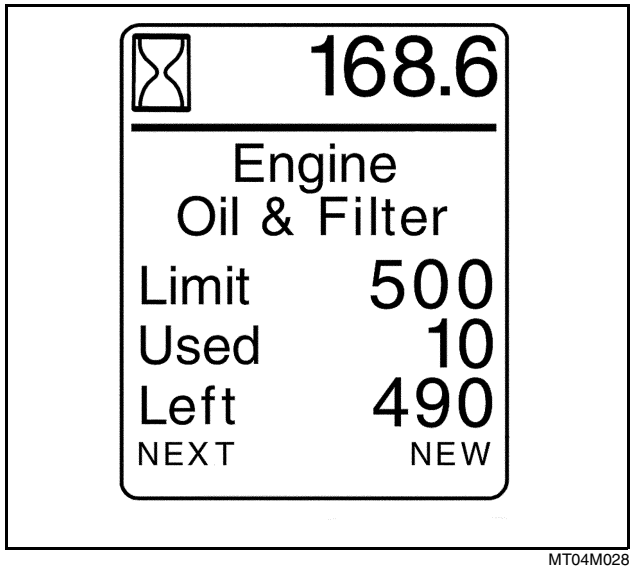


MT04M027

The top line of each display describes the service function name. The second line (Limit) indicates the recommended service intervals in engine hours. The third line (Used) shows the number of hours used. The fourth line (Left) shows the engine hours left before service should be performed.

SETTING USED VALUE TO ZERO: When the particular service screen is displayed, pressing the “B” key. The USED value will be highlighted. Now press and hold the “B” key for two seconds. The USED value will reset to zero.

EDITING THE LIMIT VALUE: Press INCR or DECR button to adjust the limit value for a particular application. The value cannot be increased beyond factory default. If the limit value is set to zero that function is disabled.

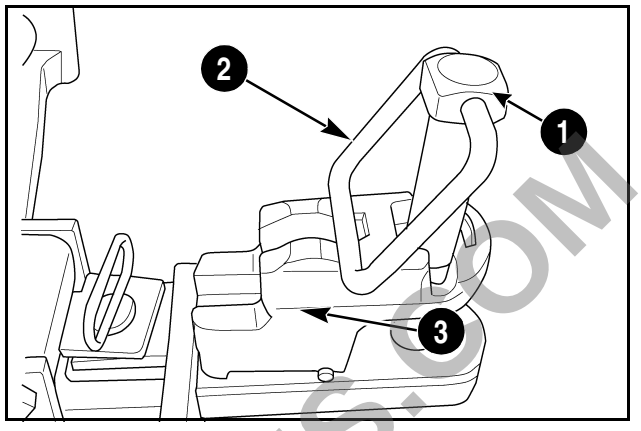


MT04M028

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

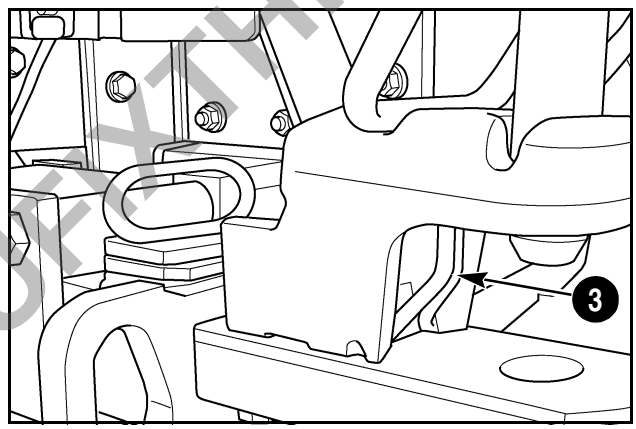
Drawbar Drop Pin Hammerstrap

Raise the drawpin (1). Pull the trigger (3) rearward and position the drawpin handle (2) in the cradle of the hammerstrap. Move the tractor into position to connect the tractor to the implement.



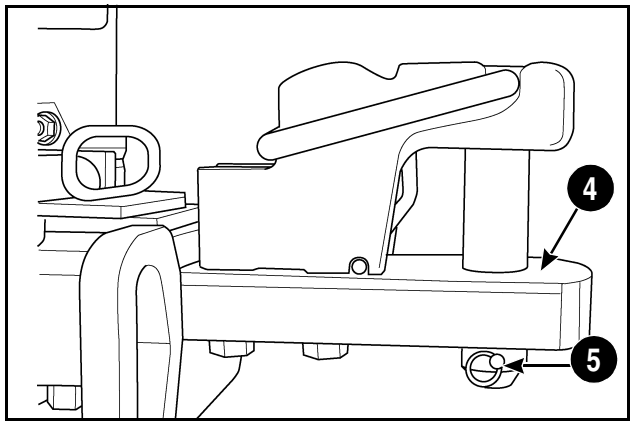
P1010022

The impact from the implement hitch on the hammerstrap trigger (3) will force the draw pin handle out of the hammerstrap cradle.



MK01E085

The draw pin will drop down through the implement hitch into the tractor drawbar (4), followed by the draw pin handle locking the draw-pin in place. Install the quick release pin (5) to secure the drawpin in the locked position.



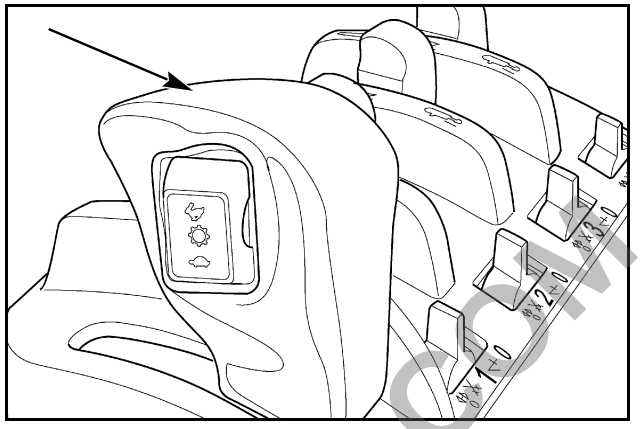
MK01E084

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

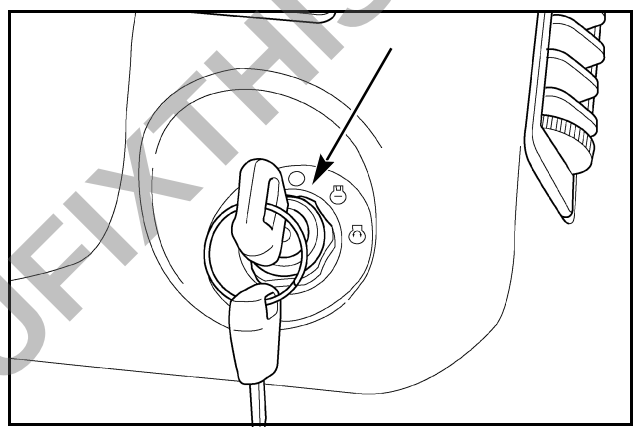
2. Move the throttle lever to the idle position for 3 to 5 minutes to decrease the temperature of the engine and turbocharger.

NOTE: *Lower the implement to the ground, if attached.*



MK99M030

3. Turn the key switch to the OFF position to stop the engine. Remove the key from the switch.



MK99M023

COLD TEMPERATURE OPERATION

To start and operate your tractor during cold ambient temperatures (20° F and below), use these procedures:

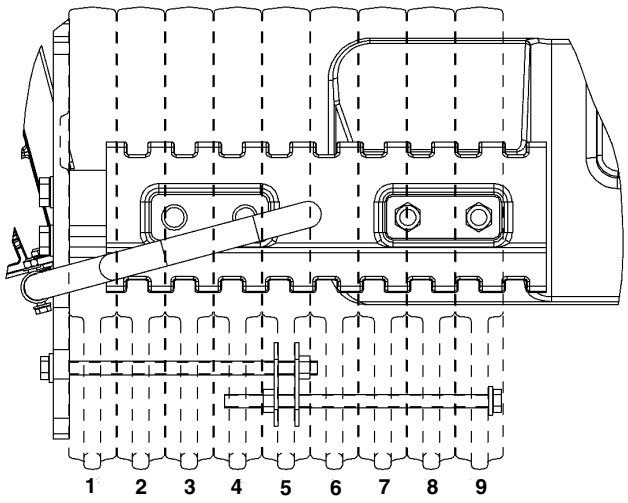
- BATTERIES - Must have a full charge.
- FUEL - Must be clean and free of water. See your fuel dealer for cold weather fuel requirements in your area.
- ENGINE OIL - Must have the correct viscosity for the ambient temperature range.
- TRANSMISSION/HYDRAULIC FLUID - Use the specified transmission fluid.

IMPORTANT: *To prevent possible damage to the transmission, DO NOT operate the tractor with cold transmission fluid. A transmission oil heat maintainer must be used when temperatures are -7° C (20° F) and below. See Transmission Oil Heat Maintainer in this manual.*

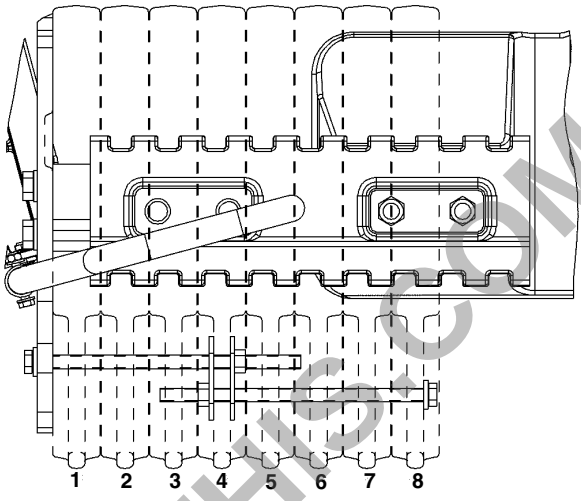
- COOLING SYSTEM - Must have a minimum of 50 percent ethylene glycol solution for protection.
- TIRES - If there is liquid in the tires (not recommended), the tires must have protection against temperatures below 32° F (0° C). See your dealer.
- STOPPING THE ENGINE -Permit the engine temperature to decrease before stopping.
- CONDENSATION IN FUEL TANK - To prevent condensation in the fuel tank and water entering the fuel system, fill the fuel tank after each operating day.
- FUEL TANK DRAIN VALVE - Remove water from the fuel tank periodically as required, and at each oil change to keep a water free fuel supply.
- Steiger 380 - 430 tractors will start and operate on four cylinders until coolant reaches a preset temperature value.

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

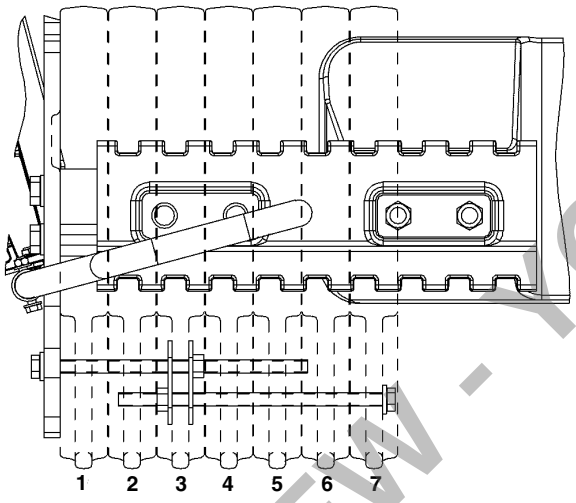
FRONT SUITCASE WEIGHT, TIE BOLT AND CLAMP INSTALLATION



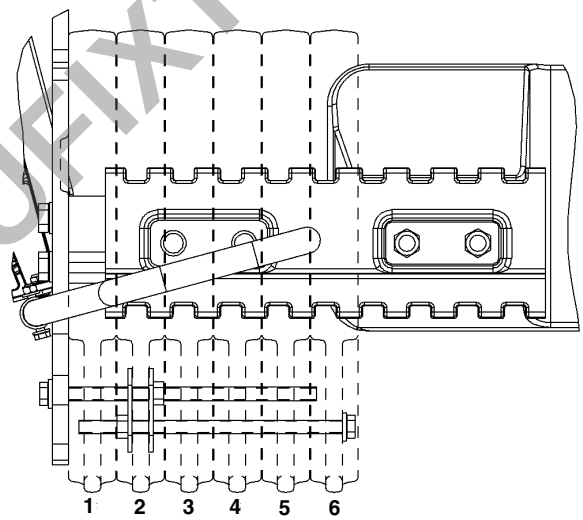
9 SUITCASE WEIGHTS PER SIDE



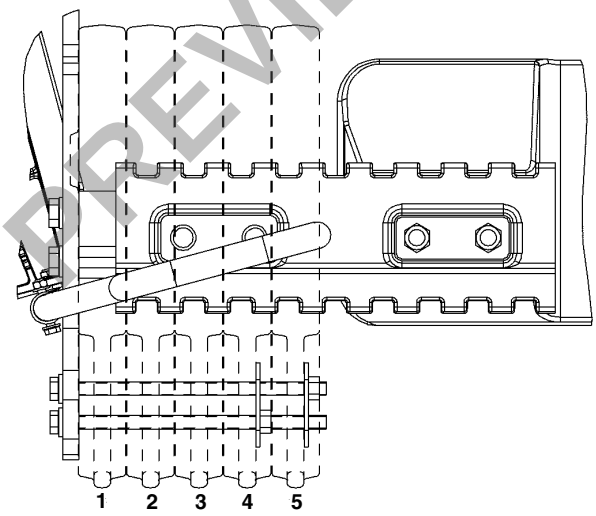
8 SUITCASE WEIGHTS PER SIDE



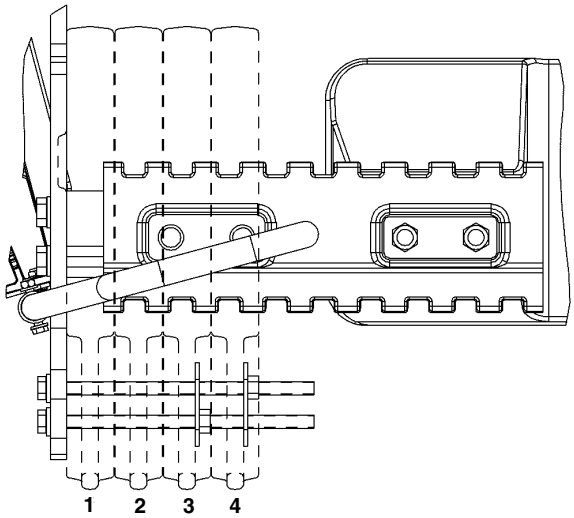
7 SUITCASE WEIGHTS PER SIDE



6 SUITCASE WEIGHTS PER SIDE



5 SUITCASE WEIGHTS PER SIDE



4 SUITCASE WEIGHTS PER SIDE

MS00H060

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Check Tire Air Pressure

Radial tires do not have tubes installed. Because of the lower operating pressures, it will be very important to use an accurate digital or dial type tire pressure gauge with 1 PSI (10 kPa) graduations. Check the tire inflation pressures at least every 250 hours (or one time per month) or whenever loads or operations change. Check the condition of the tires and rims for wear or damage. Check pressures before operating when the tires are cool. See Tire Pressure and Load Capacity Charts for recommended load inflation pressure for each tire size and type. Never exceed the maximum tire load rating.

NOTE: *The inflation tables for tires recommends the same inflation pressure for outer tires as the inner tire pressure.*

Tractors used in steep hillside or plow furrow operations should use inflation pressures 2 to 4 PSI (14 to 28 kPa) above the pressures listed in the inflation tables to compensate for lateral weight transfer.

Some hitch mounted implements (such as rippers) or towed implements that place a heavy vertical load on the drawbar (scrapers, planters, etc.), and front mounted dozer blades, chemical tanks etc add static weight to the tractor and must be considered when adjusting tire inflation pressures according to the inflation charts.

The best method to determine the static axle load under these conditions is to scale weigh the tractor. Use the following procedure to weigh the tractor on a scale to determine correct tire pressure.

1. Front axle weight with rear implement LOWERED or, front axle weight with front implement RAISED.
2. Rear axle weight with rear implement RAISED, or rear axle weight with front implement LOWERED.

NOTE: *If scale weighing is not possible, estimate the additional implement weight or use the weight stated in the implement operator's manual.*

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Engine Coolant Solutions

> **WARNING:** *Check and service cooling system according to the maintenance instructions. Hot coolant can spray out if deaeration tank cap is removed while system is hot. To remove the deaeration tank cap, let system cool, turn to first notch, then wait until all pressure is released. Scalding can result from fast removal of deaeration tank cap.*
>
> R141C

Case recommends the use of fully formulated antifreeze or coolant containing a pre-charge of Supplemental Coolant Additive (SCA). The antifreeze or coolant MUST meet the specifications outlined in TMC RP329 (ethylene glycol) or RP330 (propylene glycol). The use of fully formulated antifreeze or coolant greatly simplifies cooling system maintenance.

NOTE: *Copies of the TMC specifications can be obtained through Cummins Engine Company, Inc.*

Fully formulated ANTIFREEZE contains balanced amounts of antifreeze, SCA and buffering compounds, but does NOT contain 50% water. Fully formulated COOLANT contains balanced amounts of antifreeze, SCA and buffering compounds already premixed 50/50 with deionized water.

COMPLEAT™ engine coolant is premixed with ethylene or propylene antifreeze, deionized water and SCA in proper proportions available in one-gallon containers. When using this premix coolant, no extra dilution or mixing is required. However, periodic testing must be done to ensure SCA levels are within the recommended range. See SCA Service Requirements in this manual.

Antifreeze must be used in any climate for both freezing and boiling point protection. Case recommends a 50% concentration level of ethylene glycol or propylene glycol in most climates. Ethylene and propylene glycol can be mixed if necessary.

IMPORTANT: *You must check the concentration level using a refractometer. Both propylene and ethylene glycol protection levels (or a mixture of both) can be measured with the refractometer. Do NOT use a floating ball hydrometer. Using floating ball hydrometers can give incorrect readings.*

Do NOT use sealing additives in the cooling system. The use of sealing additives will build up in coolant low flow areas, clog coolant filters, and plug radiators and coolers. Do NOT install any additives or inhibitors that are not approved.

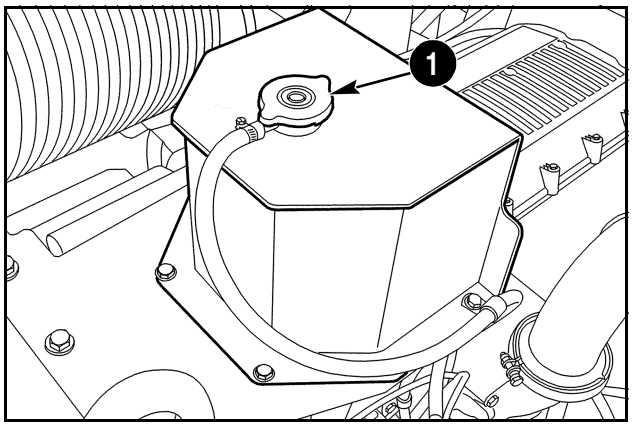
Change the coolant solution at the change interval recommended. The heat generated by the diesel engine causes a natural change in the inhibitors in the coolant which results in loss of protection.

Coolant loss can lead to dilution of corrosion and liner-pitting protection due to incorrect top-off practices. The top-off process is simplified by the use of fully formulated antifreezes and coolants because SCA addition is not required. Even small leaks at the hose clamps, radiator cores, cylinder head gaskets, and water pumps result in significant coolant loss over time. Dilution of cooling system protection is avoided, regardless of the amount of coolant loss, by using fully formulated coolant for system top-off.

Cooling System

The cooling system dearearation tank is located under the hood at the top rear of the engine.

1. Pressure Cap



MT05M135

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

Operator Adjusted Menu Program

This mode allows the operator to adjust the SIC/PIC display screen order, contrast, back lighting, egress lighting or decelerator.

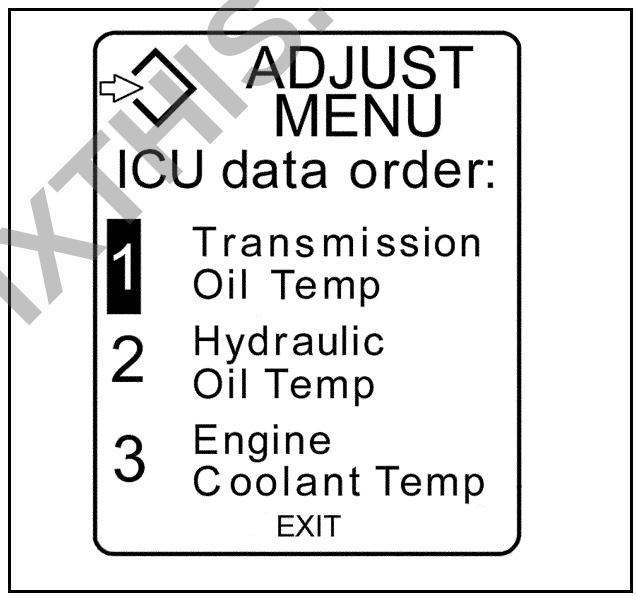
To Enter Program Adjust Menu

1. Press and hold the PROG key **after** the key switch has been on for 10 seconds or any time during operation.
2. ADJUST MENU will be displayed.
3. Use the INCR or DECR keys to select **Data Selection, Contrast Adjust, Back Light Adjust, Egress Lighting Control, Decelerator Adjustment or Exit**.

Data Selection Menu

This menu allows the operator to select the order the data will appear on the display screen. To change the order:

1. Enter the ADJUST MENU.
2. Use the INCR or DECR keys to select **Data Selection**.
3. Press the PROG key.
4. The display will show a complete list of ICU data in default order.
5. Use the INCR or DECR key to highlight the item to be changed.
6. Press the PROG key to highlight the text.
7. Use the INCR or DECR keys to move the text up or down in the list.
8. When the text is moved to its desired location press the PROG key to highlight the numbers. The text will remain where it was placed and all the other text will be adjusted to the new order.
9. Repeat Steps 5 through 8 to move any other text or use the INCR or DECR keys to highlight **Exit**.
10. Press the PROG key to exit the Data Selection Menu and save the changes.



MT04M040

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

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

GENERAL SPECIFICATIONS

Diesel Engine

Tractor Model	280	330	380	430 (M)*	430 (PS)*	480	530
Engine Make/Model	CDC 6TAA-8304	CDC 6TAA-9004	CASE CURSOR	CASE CURSOR	CASE CURSOR	CUMMINS QSX	CUMMINS QSX
Type	In-Line, Six Cylinder, Four Stroke Cycle						
Aspiration	Turbo Charged, Air To Air After Cooled						
Emission Level (tier)	3	2	3	3	3	3	3
Firing Order	1-5-3-6-2-4		1-4-2-6-3-5			1-5-3-6-2-4	
Bore	4.49 (114)		5.26 inch (135 mm)			6.5 inch (137 mm)	
Stroke	5.31 (135)	5.69 (144.5)	5.85 inch (150 mm)			6.7 inch (168 mm)	
Displacement	506 (8.3)	543 (9.0)	787 cu. inch (12.9 Liter)			912 cu. inch (15.0 Liter)	
Compression Ratio	17.1:1	16.6:1	16.5:1			17:1	
Cylinder Sleeves	Mid-Stop, Replaceable Wet Type						
High Idle (no load)	2125-2165 RPM		2030-2155 RPM			2125-2165 RPM	2230-2288 RPM
Rated Speed	2000 RPM		2000 RPM			2000 RPM	2100 RPM
Idle Speed	830-870 RPM		850-900 RPM				
Power Rating-HP (kw)	278 (205)	325 (242)	384 (286)	434 (324)	434 (324)	485 (362)	535 (399)
Peak Torque at 1400 RPM lb-ft (Nm)	1022 (1386)	1150 (1559)	1412 (1914)	1501 (2035)	1596 (2164)	1783 (2417)	1873 (2539)
Torque Rise - %	40	35	40	32	40	40	40

***M - Manual Shift**
PS - Power Shift

Engine Lubrication System

Oil Pressure at Idle Speed (Minimum)
- 280-330 ..... 10 PSI (69 kPa)
- 380-430 ..... 44 psi (300 kPa)
- 480-530 ..... 20 PSI (138 kPa)

Oil Pressure at High Idle
- 280-330 ..... 40 to 50 PSI (276 TO 344 kPa)
- 380-430 ..... 65 PSI (450 kPa)
- 480-530 ..... 35-40 PSI (240-276 kPa)

Type of System ..... Pressure and Spray

Fuel System

Fuel Injection Pump (380/430 Bosch) ..... CUMMINS
Fuel Injectors (380/430 Bosch) ..... CUMMINS
Tank Capacity
- 280-330 ..... 200 Gallons (758 Liters)
- 380-430-480-530 ..... 300 Gallons (1136 Liters)

Air Intake System

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

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 12 of 286 pages

The full manual includes:

- All 286 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Case IH Steiger 280, Steiger 330, Steiger 380, Steiger 430, Steiger 480, Steiger 530, Steiger Series Tractor, Steiger Wheel Tractor, Steiger Quadtrac Tractor Operator Manual



Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual