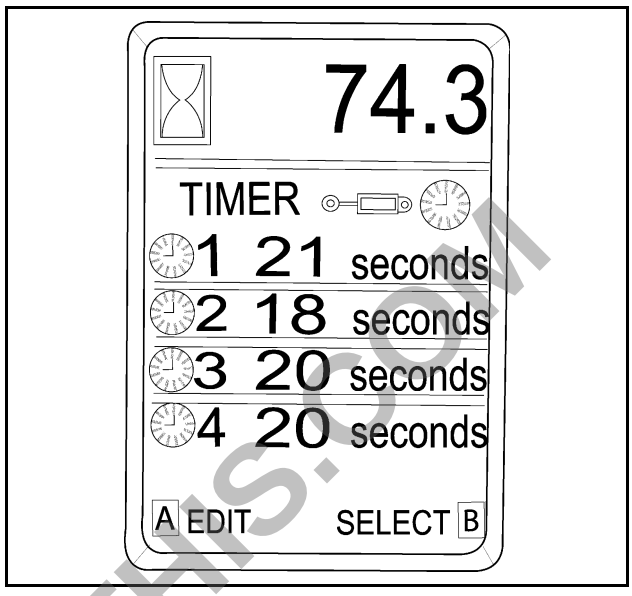
Remote Timer Screen Editing



RD05J008

Each timer readout will display from 1 to 30 seconds or Continuous operation.

When the "A" key (EDIT) is depressed, the TIMER 1 will be displayed in reverse image. When the value is in reverse image, the value can be changed by using the INCR and DECR keys.

NOTE: *When the remote valve function switch for a remote valve is in the hydraulic motor position the timer value displayed for that valve will be displayed as Continuous operation and can not be edited.*

Pressing the DECR key will decrease the value by 1 second each time the key is pressed until the value reaches 1 second. Pressing the INCR key will increase the value by 1 second each time the key is pressed until the value reaches 30 seconds. When the display shows 30 seconds and the INCR key is pressed the display will change to Continuous operation. Pressing and holding the DECR or INCR keys will scroll through the numbers at a faster rate.

Pressing the "B" key (SELECT), when the value beside TIMER 1 is in reverse image will cause that value to return to normal image and the value beside TIMER 2 to be displayed in reverse image. While in reverse image the value can be changed as described above. When the "B" key (SELECT) is pressed again the reverse image will transition to the next TIMER value until the last TIMER value is in reverse image. When the last TIMER value (TIMER 4 or TIMER 5 if equipped) is in reverse image and the "B" key (select) is pressed, all values will be in normal display and the INCR and DECR keys will cause transitions between screens.

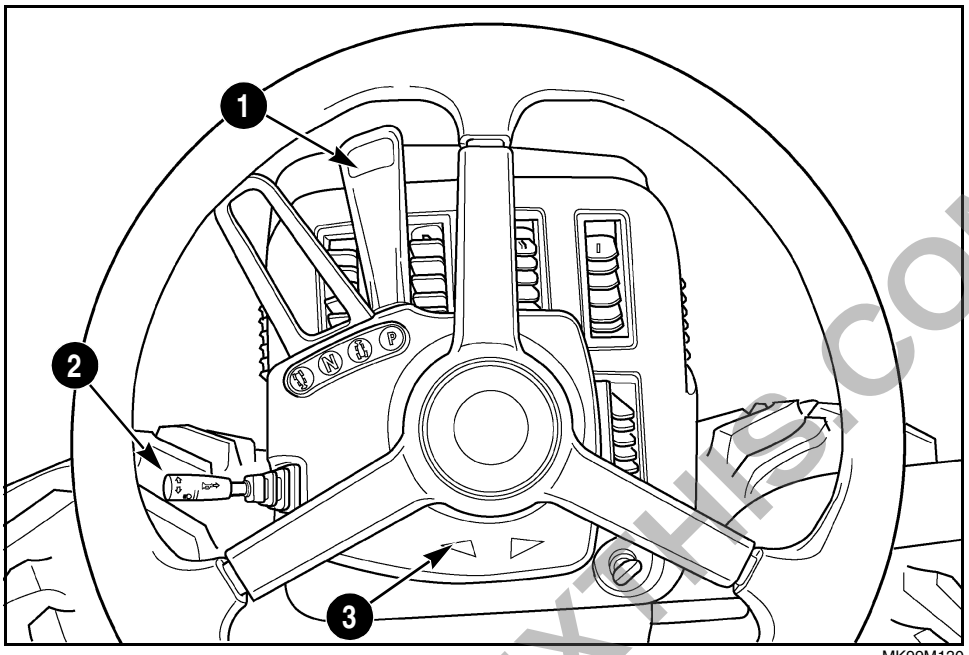
The edit mode may be exited at any time by pressing the "A" key (EDIT). This will save the edited values and return all values to normal display. The INCR and DECR keys will then cause transitions between screens.

While in edit mode if the EDIT, SEL, INCR, or DECR keys are not pressed for 1 minute, the edit mode will be exited and all values will return to normal display. The INCR and DECR keys will then cause transitions between screens.

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STEERING COLUMN CONTROLS



MK99M130

1. **TRANSMISSION CONTROL LEVER** (Powershift Only) - Lift the lever and move the lever from the upper PARK position to the left one indent to select FORWARD. One more indent to the left will select NEUTRAL, and all the way to the left will select REVERSE. See Powershift Transmission Control System for detailed information.

NOTE: *The control lever PARK position is NOT a mechanical function of the transmission. The PARK position activates the multiple disk park brake circuit. The control lever must be in PARK when starting the engine.*

2. **DIRECTION TURN SIGNAL SWITCH** - Move the turn signal lever UP to indicate a RIGHT turn. Move the turn signal lever DOWN to indicate a LEFT turn. The center position is OFF. When the Direction Turn Signal Switch (2) is used, the amber hazard lamps will be illuminated as follows:

   A. When the turn signal lever is pushed UP, the RH cab amber hazard lamps, RH wide transport lamp, RH tail lamp and steering column RH indicator (3) will flash ON and OFF. The LH cab amber hazard lamps, LH wide transport lamp, LH tail lamp and steering column turn indicator lamp (3) will be steady ON.

   B. When the turn signal switch lever is pushed DOWN, the LH cab amber hazard lamps, LH wide transport lamp, LH tail lamp and steering column LH indicator (3) will flash ON and OFF. The RH cab amber hazard lamps, RH wide transport lamp, RH tail lamp and steering column turn indicator lamp (3) will be steady ON.

HORN BUTTON - The horn button is part of the direction turn signal lever. Push IN on the end of the lever to operate the horn.

HIGH/LOW BEAM SWITCH - The high/low beam switch is part of the direction turn signal lever. The centered lever position is LOW beam. Move the switch away from the center position for HIGH beam. The high beam indicator lamp on the instrument cluster will illuminate when in high beam. Pull the lever toward you for MOMENTARY HIGH beam even when the lights are OFF to flash the lights.

NOTE: *This switch works whenever the front headlights are ON to turn the HIGH beam and CENTER lamp ON and OFF, even when only the work lamps are ON.*

3. **TURN SIGNAL INDICATORS** - Indicates which direction turn signal is activated or when front and rear amber warning lamps are flashing.

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LUBRICATION AND MAINTENANCE CHART

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	
Driveshaft Carrier Bearing	1				50	
Air Filter Cab - Outside (See Note 2)	1	250				
Air Tubing Engine	1			500		
Engine Belts	2			500		
Battery Electrolyte Level	3			500		
Engine Oil (See Note 6)	1		500			
Engine Oil Filter	1		500			
Engine Fuel Filter (See Note 7)	1		500			
PTO Carrier Bearing	1				500	
PTO Slip Joint	2				500	
Radiator and Coolers	3	500				
Engine Coolant SCA Level	1			500		
Engine Crankcase Breather Filter	1		1000			
Engine Air Filter - Primary (See Note 3)	1		1500			
Engine Air Filter - Secondary	1		1500			
Axle/Hydraulic Oil	1		1500			
Axle Lube Filter (See Note 7)	1		1500			
Hydraulic Oil Filter (See Note 7)	1		1500			
Hydraulic Oil Vent	1	1500				
Transmission Oil	1		1500			
Transmission Oil Filter (See Note 7)	1		1500			
Idler and Roller Wheel Oil (See Note 8)	40		1500			

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

GENERAL SPECIFICATIONS

Diesel Engine

Tractor Model	STX 380	STX 430 (M)*	STX 430 (PS)*	STX 480	STX 530
Engine Make/Model	CASE IH	CASE IH	CASE IH	CUMMINS QSX	CUMMINS QSX
Type	Six Cylinder, Four Stroke Cycle				
Aspiration	Turbo Charged, Air to Air After-Cooled				
Emission Level (tier)	3	3	3	3	3
Firing Order	1-4-2-6-3-5			1-5-3-6-2-4	
Bore	(135 mm)			6.5 inch (137 mm)	
Stroke	(150 mm)			6.7 inch (168 mm)	
Displacement	787 cu. inch (12.9 Liter)			912 cu. inch (15.0 Liter)	
Compression Ratio	16.5:1			17:1	
Cylinder Sleeves	Mid-Stop, Replaceable Wet Type				
High Idle (no load)	2030-2155 RPM			2125-2165 RPM	2230-2288 RPM
Rated Speed	2000 RPM			2000 RPM	2100 RPM
Idle Speed	850 - 900 RPM				
Power Rating HP (kw)	384 (286)	434 (324)	434 (324)	485 (362)	535 (399)
Peak Torque at 1400 RPM lb-ft (Nm)	1412 (1914)	1501 (2035)	1596 (2164)	1783 (2417)	1873 (2539)
Torque Rise - %	40	32	40	40	40

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

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Warning Fault Displays

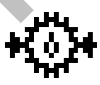
The programmable display will notify the operator when there is a problem with the engine, transmission, hydraulics or other operational systems that require corrective action. The warnings include an audible alarm, an indicator light and text in the programmable display. The warnings are divided into 4 levels of importance and decending order of priority within each level. In the case of multiple faults or warnings the higher level or higher priority within a level will be the warning displayed. The following tables are listings of the icons, warning text, problems and corrective action required in order of importance and priority.

Critical Warning Displays - Level 1 - Standard and Performance

Level 1 critical warnings require immediate attention or there will be serious damage to the tractor. When a critical fault occurs, the red stop light, the amber warning light and the audible alarm will flash continuously and a text message will appear in the lower display. For very high engine coolant temp and very low engine oil pressure, the light near the gauge will also flash. **Shut down the engine immediately**.

NOTE: *For tractors equipped with the Performance Instrumentation Cluster, the engine will be shut down in 30 seconds after the fault is detected. The lower display will show the 30 second count down timer.*

IMPORTANT: *Level 1 warnings can not be turned off by pressing the "RESET" button. If the tractor must be moved, cycle the key switch to get an additional 30 seconds of running time to move the tractor. This can be done as many times as necessary to reach a desired location. However, damage to the tractor can occur.*

Display		Problem	Corrective Action
	**ENGINE INTAKE AIR TEMP VERY HIGH**	High air to air temperature.	Shut the tractor engine OFF immediately and check the heat exchanger for blockage.
	**ENGINE OIL PRESSURE VERY LOW**	Low engine oil pressure.	Shut the tractor engine OFF immediately and check oil level or other cause.
	**ENGINE COOLANT TEMP VERY HIGH**	High engine coolant temperature.	Shut the tractor engine OFF immediately and check coolant level or radiator for blockage or other cause.
	**TRANSMISSION OIL TEMP VERY HIGH**	High transmission oil temperature.	Shut the tractor engine OFF immediately and check for blocked cooler or other cause.
	**HYDRAULIC OIL TEMP VERY HIGH**	High hydraulic oil temperature.	Shut the tractor engine OFF immediately. Check oil level. Check for blocked cooler or other cause.
	**TRANSMISSION OIL PRESSURE VERY LOW**	Low transmission oil pressure.* (Powershift only)	Shut the tractor engine OFF. Check transmission oil level or other cause.

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WHEEL BOLT TORQUES

Bushing to Hub Bolts (See Note 1).....220-260 lb ft (300-350 Nm)
Wheel to Hub Bolts (See Note 2) .....390-420 lb ft (530-570 Nm)
Spacer to Hub Bolts (See Note 2) .....390-420 lb ft (530-570 Nm)
Wheel to Spacer Bolts (See Note 2).....390-420 lb ft (530-570 Nm)

NOTE 1: *Apply antisieze grease to the threads.* ***Do not*** *exceed 260 lb ft (350 Nm).*

NOTE 2: *Lubricate threads lightly with SAE 10W-30 engine oil.*

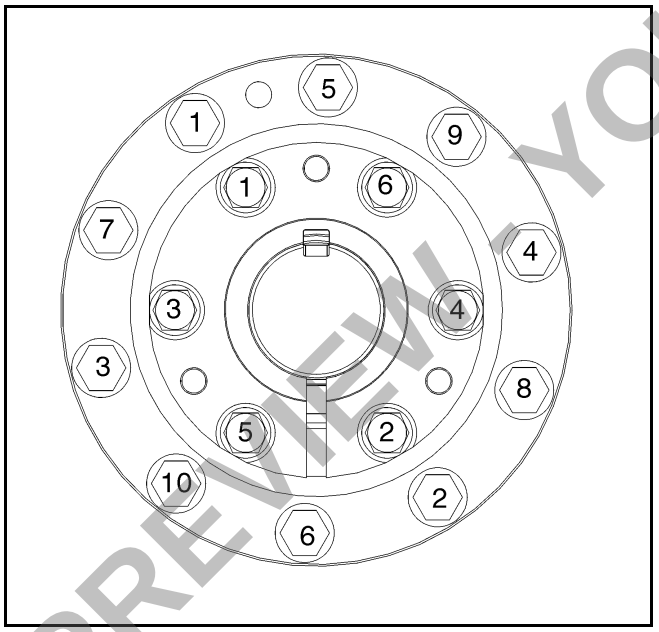
IMPORTANT: *DO NOT exceed the maximum specified wet torque values listed. Check the torque of all bolts after the first 30 minutes of operation and every 10 hours of operation until the bolt torque stabilizes.*

Wheel Offset Direction Change

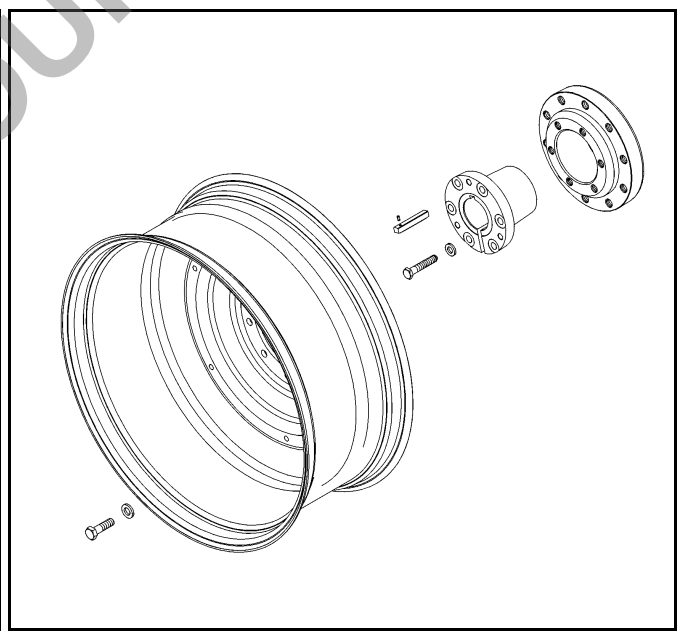
If you need to change the direction of the wheel offset (in or out), remove the tire and wheel from one side of the tractor and mount on the other side of tractor.

IMPORTANT: *Do not use lubricant between the bushing and the axle.*

Tighten all wheel and/or hub bolts to the specified wet torque value in the bolt sequence shown whenever wheels and/or hubs are removed. If the bushing is separated from the hub, apply antisieze grease on the entire tapered surface of the bushing before assembly into the hub.



RT97J015


RH97K069

Dual Wheel Installation

When dual wheels are used, the inner wheel can be installed with the concave face IN and the outer wheel with the concave face OUT. See Tire Tread Positions in this manual for dual tread settings.

Check the torque of all bolts after 30 minutes of operation. Check after every 10 hours of operation until the bolt torque stabilize. See Special Bushing Bolt Wrench.

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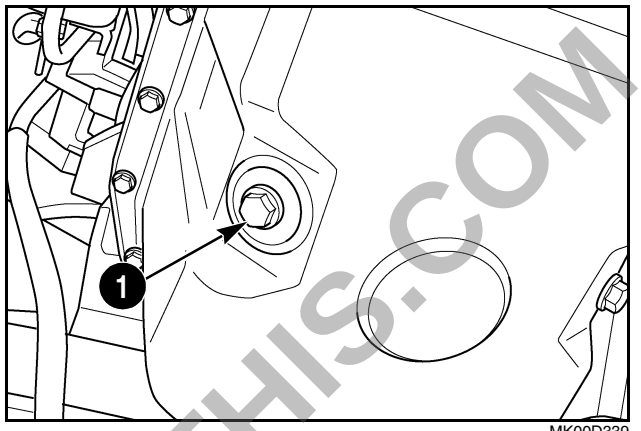
500 HOUR MAINTENANCE

Engine Oil Change

Change the engine oil and filter every 500 hours or once a year, or before storage whichever occurs first. Your dealer has approved oil and filters. Do not use other types of oil or filters.

NOTE: *For best results change the oil and filter while the engine is still warm to the touch from operation. The tractor must be on a level surface.*

1. Remove the oil pan drain plug, (1) and drain the oil from the engine. Reinstall and tighten the drain plug.
2. Clean the area around the oil filter head. Use a filter strap wrench to remove the spin-on type filter (2).

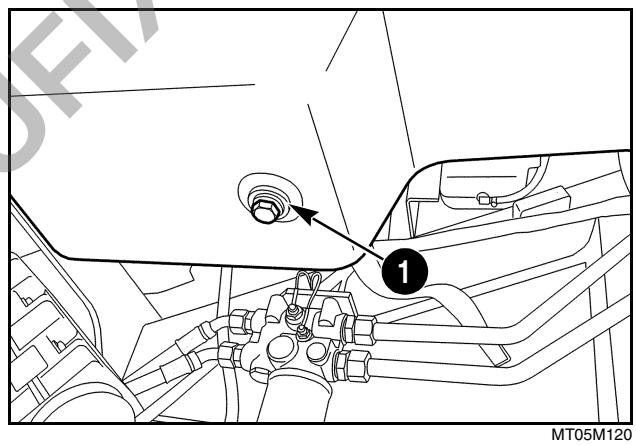


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NOTE: *Be sure the seal did not remain on the filter head.*

3. Fill the new filter with new oil of the specified type. Apply a light film of clean oil to the seal on the new filter.

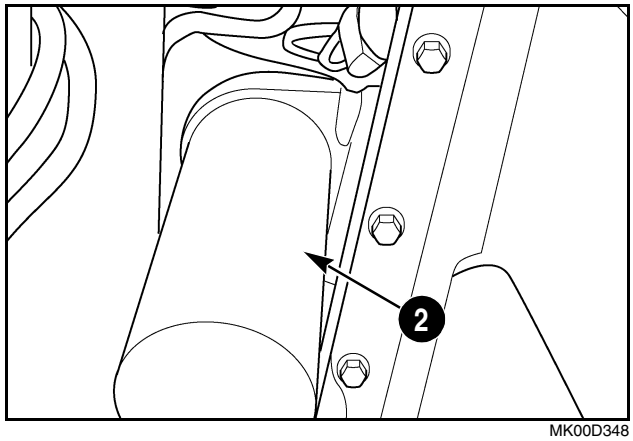


MT05M120

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4. Install the filter (2). Turn the filter clockwise until the seal contacts the filter head. Tighten the filter an additional 1/2 to 3/4 turn by hand.

NOTE: *DO NOT use a filter wrench to install the filter. If the filter is too tight you can damage the seal and filter.*



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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 CNH America LLC instructions on machine operation and maintenance.

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Implement Width Setup Information

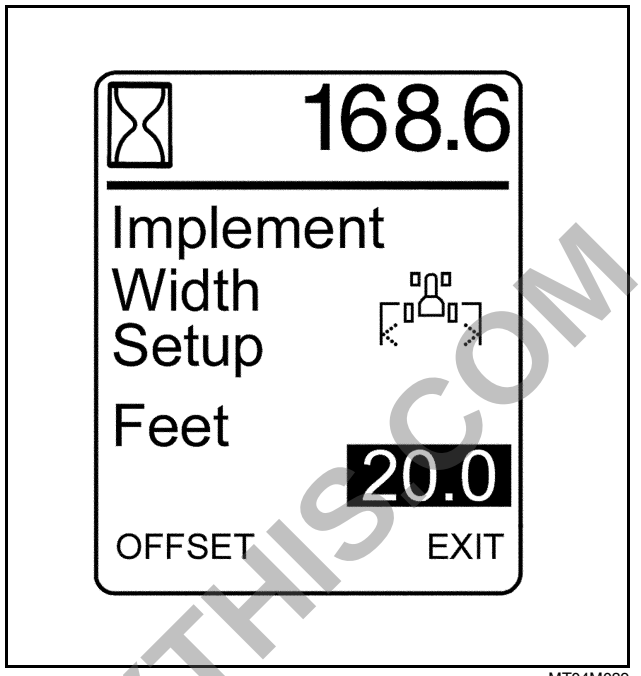
This screen displays the implement width currently programmed into the monitor in feet or meters.

When the Area screen is displayed, pressing the AREA button for two seconds will cause the implement Width Setup screen to be displayed.

ADJUSTING IMPLEMENT WIDTH: With the IMPLEMENT WIDTH SETUP screen displayed, pressing the INCR or DECR button will change the feet (meters) currently programmed into the monitor. Pressing and releasing the INCR or DECR button will increase or decrease the measurement one digit at a time. Pressing and holding the INCR or DECR button will change the digit at a rate of 3.2 feet (meters) per second.

AREA EDIT: When the desired implement width is obtained, pressing the “A” button will enter the change and cause the Area Edit screen to be displayed.

RETURNING TO AREA SCREEN: When the desired implement width is obtained, pressing the “B” button will enter the change and return to the Area screen.



MT04M039

Area Edit

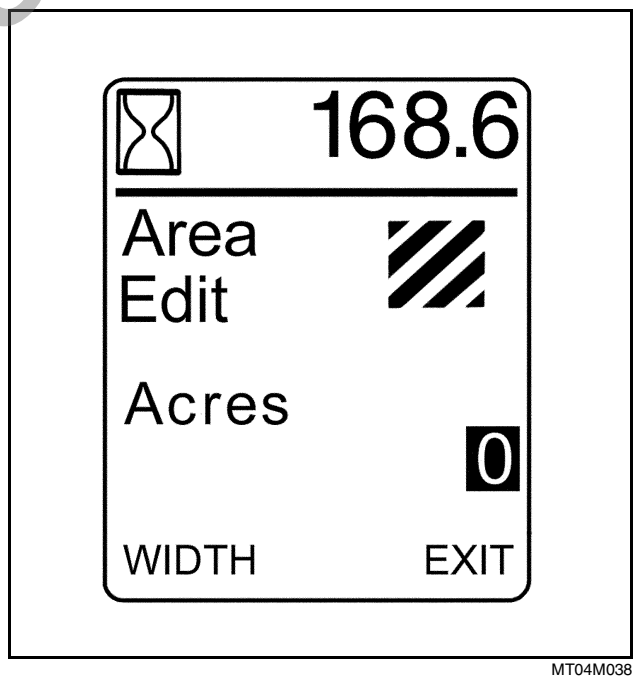
This screen displays the Area Edit screen which allows the total accumulated acres (hectares) to be increased or decreased, permitting an initial offset or correction to be entered.

When the Implement Width Setup screen is displayed, pressing the “A” button will cause the Area Edit screen to be displayed.

RESETTING ACCUMULATED AREA: With the Area Edit screen displayed, pressing the INCR or DECR button will change the acres (hectares) currently accumulated into the monitor. Pressing and releasing the INCR or DECR button will increase or decrease the measurement one digit at a time. Pressing and holding the INCR or DECR button will change the digit at a rate of 3.2 acres (hectares) per second.

RETURNING TO IMPLEMENT WIDTH SETUP: When the desired accumulated area is obtained, pressing the “A” button will enter the change and return to the implement Width Setup screen.

RETURNING TO AREA SCREEN: When the desired accumulated area is obtained, pressing the “B” button will enter the change and return to the Area screen.



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METRIC SIZE RADIAL TIRE PRESSURE AND LOAD CAPACITY CHART

U.S. STANDARD - 30 MPH Maximum Travel Speeds

Inflation- PSI		6	7	9	10	12	13	15	17	20	23	26	29
Tire Size	Wheels	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs
480/80R46	T	2980	3250	3530	3840	4170	4400	4660	5250	5860	6440	6770	7010
520/85R38	D	3400	3780	4120	4470	4860	5140	5410	6120	6910	7520	N/A	N/A
520/85R42	D	3590	4000	4350	4720	5000	5410	5810	6510	7260	8010	N/A	N/A
	T	3350	3720	4050	4400	4660	5040	5410	6070	6770	7460	N/A	N/A
520/85R46	D	3780	4120	4470	4860	5280	5630	5980	6690	7520	8230	N/A	N/A
	T	3530	3840	4170	4530	4920	5250	5580	6230	7010	7670	N/A	N/A
620/70R42	D	4000	4350	4720	5140	5630	5980	6290	7080	8010	8710	N/A	N/A
650/85R38	S	NR	NR	6600	7150	7850	8250	8800	9900	11000	12000	12800	13200
710/70R38	D	4720	5140	5630	6120	6510	7080	7520	8490	9420	10300	N/A	N/A
710/70R42	D	4860	5410	5810	6290	6910	7260	7740	8710	9680	10820	N/A	N/A
800/70R38	D	5630	6290	6690	7260	8010	8490	8980	10300	11260	12580	N/A	N/A
900/50R42	D	5000	5410	5980	6510	6910	7520	8010	8980	10030	10820	N/A	N/A

METRIC - 50 KPH Maximum Travel Speeds

Tire Inflation (kPa)		40	50	60	70	80	90	100	120	140	160	180	200
Inflation (bar)		0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.4	1.6	1.8	2.0
Tire Size	Wheels	Kg	Kg	Kg	Kg	Kg	Kg	Kg	Kg	Kg	Kg	Kg	Kg
480/80R46	T	1355	1475	1600	1740	1885	1995	2110	2380	2665	2910	3075	3180
520/85R38	D	1540	1715	1865	2025	2200	2330	2465	2770	3125	3410	N/A	N/A
520/85R42	D	1630	1815	1970	2140	2265	2465	2640	2950	3300	3630	N/A	N/A
	T	1515	1690	1835	1995	2110	2295	2460	2745	3075	3385	N/A	N/A
520/85R46	D	1715	1865	2025	2200	2400	2550	2705	3035	3410	3740	N/A	N/A
	T	1600	1740	1885	2050	2235	2380	2520	2830	3180	3485	N/A	N/A
620/70R42	D	1815	1970	2140	2330	2550	2705	2860	3210	3630	3960	N/A	N/A
710/70R38	D	2140	2330	2550	2770	2950	3210	3410	3850	4290	4665	N/A	N/A
710/70R42	D	2200	2465	2640	2860	3125	3300	3520	3960	4400	4930	N/A	N/A
800/70R38	D	2550	2849	3030	3289	3628	3846	4068	4666	5100	5699	N/A	N/A
900/50R42	D	2265	2465	2705	2950	3125	3410	3630	4070	4530	4930	N/A	N/A

S = Singles **D = Duals** **N/A = Not Available** **NR = Not Recommended**

NOTE: *When using front frame mounted equipment or liquid tanks, remove all ballast from the front axle. Only the dual tires listed in the charts have sufficient capacity to run at maximum weight.*

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