MX80C, MX90C and MX100C Tractors.

MX80C, MX90C and MX100C Tractors

Operators Manual

P.I.N. JJE1053089 and After

Don 6-20150

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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 PERSONAL INJURY OR DEATH. M171B

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

- **DANGER:** Indicates an immediate hazardous situation which if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- **WARNING:** Indicates a potentially hazardous situation which if not avoided, will result in serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates a potentially hazardous situation which 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.

Safety Decals on this machine which are ISO-two panel Pictorial type 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.

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WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH. 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.
- Clear 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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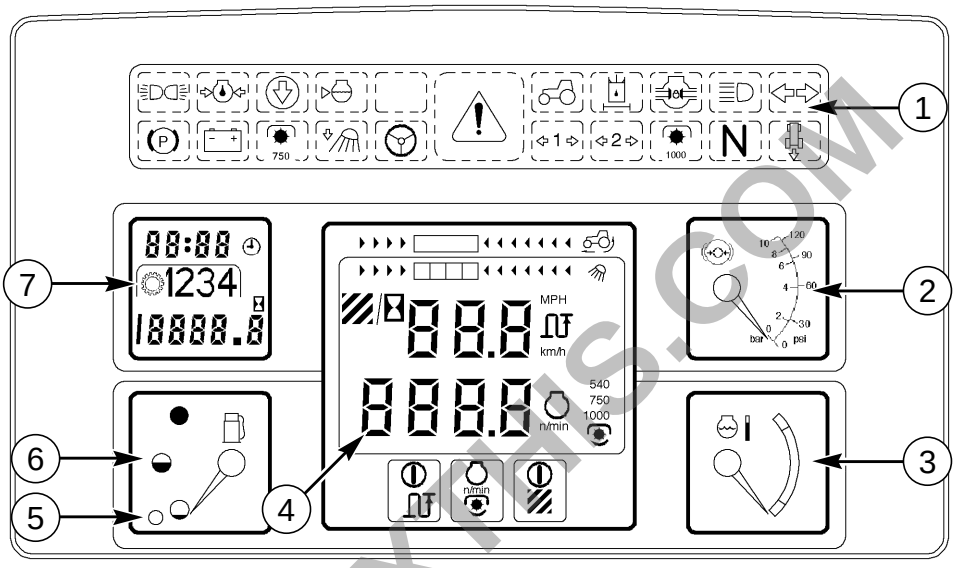
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DELUXE (DIGITAL) INSTRUMENT CLUSTER (If Equipped)



DS999G182

1. INDICATOR LAMPS - see page 31 for more details.

2. CASE LOGO or AIR PRESSURE GAUGE (If Equipped) - indicates system pressure for pneumatic trailer brakes.

3. ENGINE COOLANT TEMPERATURE GAUGE -

   Yellow area: low temperature.

   Green area: normal working temperature.

   Red area: overheating.

IMPORTANT: *If the pointer is in the red area, the master warning lamp will flash. STOP THE ENGINE AND CHECK THE CAUSE OF OVERHEATING. Make sure the engine is cool before starting any inspection.*

4. MAIN DIGITAL DISPLAY - See Main Digital Display on Page 32 of this manual for more information.

5. LOW FUEL WARNING LAMP

6. FUEL LEVEL GAUGE

7. CLOCK, POWERSHIFT INDICATOR AND ENGINE HOURMETER

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Sun Visor

Deluxe Cab Visor (If Equipped)

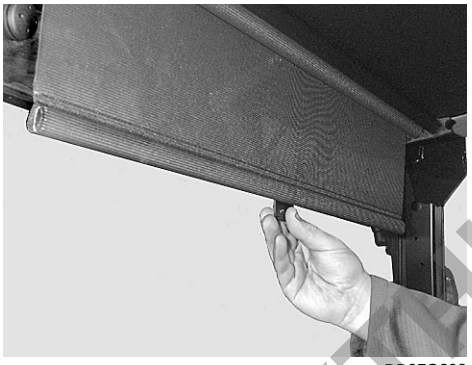


DP96J366

Pull down or push up as required.

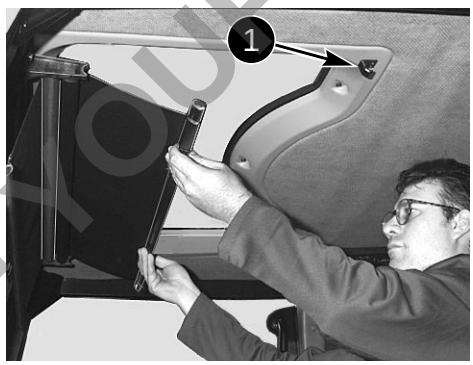
Low Profile Cab Visors (If Equipped)

2 sun visors are available, roof and windshield:



DD97G208

Windshield Visor (If Equipped) - Pull down or push up as required.



DD97G207

Roof Visor (If Equipped) - Pull visor and attach into retaining clips (1).

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Filling Procedure

STEP 1 (Mixing The Solution)

Add the correct amount of calcium chloride ($CaCl_2$) into the correct amount of water, see previous charts for the required degree of protection from freezing.

> **WARNING:** *SLOWLY add calcium chloride to water, stirring continuously. NEVER ADD WATER TO CALCIUM CHLORIDE. To do so will cause a violent reaction. When correctly mixed, the solution will increase in temperature. Allow the solution to cool before adding to the tire. See your authorized CASE dealer for details.* M573

STEP 2

Raise one side of the tractor and turn the wheel so that the valve is at the top, see illustration opposite.

STEP 3

Remove the valve core and connect the hand pump.

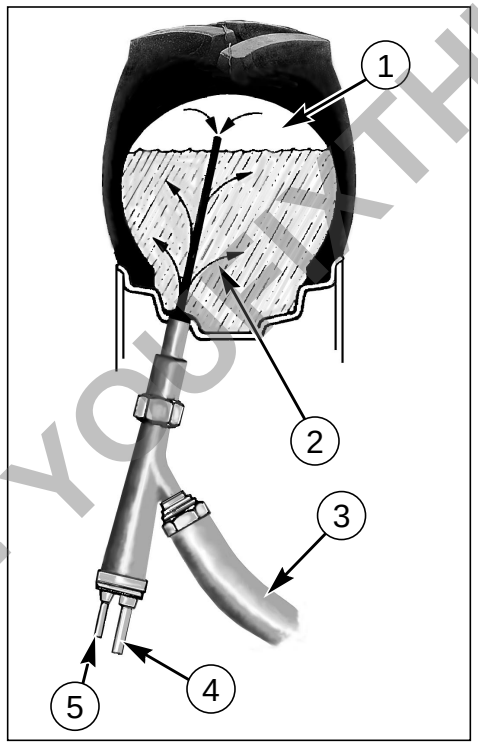
STEP 4

Measure the amount of solution added to the tire and use the figures in the previous charts to calculate the weight added.

STEP 5

When sufficient weight has been added, remove the pump. Install the valve core. Inflate the tire to the correct pressure, see “Tire Pressures and Load Capacities” on page 185.

NOTE: *When liquid ballast is used, inflate the tires 0.14 bar (2 psi) more than the recommended pressure. This will compensate for aeration that occurs when the tire is in motion.*



DH97M216

1. AIR
2. WATER ENTERING TIRE
3. WATER SUPPLY
4. AIR SUPPLY
5. AIR VENT

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FUSES AND RELAYS

Fuses

The fuses give protection to the electrical circuits of the tractor and cab.

To service the fuses remove the left hand side panel from the front console. To replace a fuse, pull the fuse out of the clips and push a new fuse in.

IMPORTANT: *Make sure the new fuse has the same ampere rating as the fuse being replaced.*



RP95F100

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41	42	43	44
37	38	39	40
33	34	35	36
29	30	31	32

FUSE BLOCKS
NOTE:
19, 20 - 10 AMP Circuit Breaker
32 - 15 AMP Circuit Breaker

22	23	24	25	26	27	28
15	16	17	18	19	20	21
8	9	10	11	12	13	14
1	2	3	4	5	6	7

1. Horn ..... 15 amps
2. Front Lower Work Lamps ..... 25 amps
3. Cab Roof Work Lamps ..... 25 amps
4. Rear Fender Work Lamps ..... 15 amps
5. F/N/R ..... 5 amps
6. LH Position Lights, Trailer Gauge Light ..... 10 amps
7. RH Position Lights ..... 10 amps
8. Spare
9. Headlamp, LH Low Beam (Circuit Breaker) ..... 10 amps
10. Headlamp, RH Low Beam (Circuit Breaker) ..... 10 amps
11. Rear Fog Lamp ..... 10 amps

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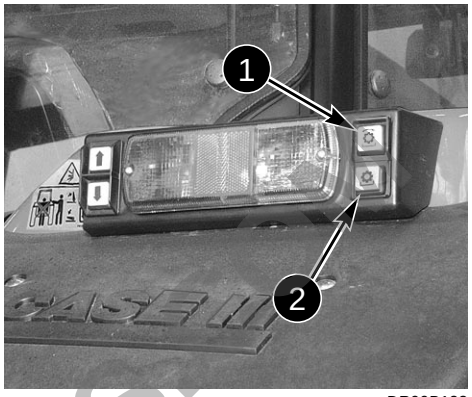
External PTO Controls (Rear Fender Remote PTO, If Equipped)

With the tractor stationary, the operator can leave the cab and use the remote push button switches to turn the PTO ON/OFF.

Remote control of the PTO is independent of the internal cab controls and the Operator Presence Switch.

NOTE: *The tractor must be stationary for the remote push buttons to operate.*

NOTE: *When the PTO is engaged and the tractor is in motion, if any of the remote PTO push buttons are operated the PTO will immediately disengage. The PTO indicator lamp on the right hand console will flash. To turn off the flashing lamp push the PTO ON/OFF switch fully down to the OFF position. To restart the PTO lift the locking collar on the PTO ON/OFF switch and pull the switch up to the ON position. To reset the remote PTO feature turn the keyswitch to OFF then restart the tractor.*



DR99B123

1. ON (YELLOW)
2. OFF(RED)

WARNING: *Stand well clear of the PTO shaft when operating the external PTO controls or injury can result from contact with moving parts.* M524

Turning the PTO ON using external Controls:

Press and hold the yellow ON push button for 3 seconds.

The PTO indicator lamp on the right hand console will illuminate.

NOTE: *If the push button is released before the 3 second period the PTO will disengage.*

Turning the PTO OFF using external controls:

Press the red OFF push button to immediately disengage the PTO.

The PTO indicator lamp on the right hand console will turn off.

NOTE: *When turning the PTO OFF using the external controls after it has been turned ON from inside the cab the PTO will disengage and the PTO indicator lamp on the right hand console will flash. To turn off the flashing lamp push the PTO ON/OFF switch fully down to the OFF position.*
To restart the PTO, either press the ON remote push button or restart from inside the cab.

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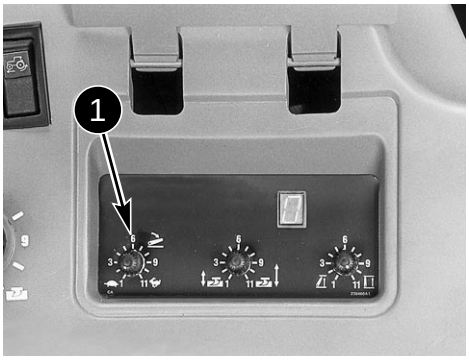
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STEP 5



DP96N112

Adjust the DROP SPEED CONTROL (1) until the implement lowers at the speed desired.

IMPORTANT: ***Turn the LOAD CONTROL knob fully clockwise to the (0) off position, this will prevent unwanted hitch movement when the tractor is moving at more than 0.8 km/h (0.5 mph).***

If the position control knob is moved quickly the hitch will lower at the set drop rate. Move the outer ring to set "Bottom" or lowest hitch position desired. This will provide a reference point for returning the knob to the original implement depth position each time the knob is moved and also to maintain the same depth.

STEP 6



DP99B116

Operate the tractor and implement in the field. Set the implement depth with the POSITION CONTROL KNOB. The rate of hitch movement is determined by the amount the knob is moved. If the knob is moved slowly a precision control mode is provided to move the hitch slowly to match the knob.

STEP 7



DP96H299

Use the UP position to temporarily raise the implement without changing any of the hitch position adjustments. Use the DOWN position to return the implement to its original position.

IMPORTANT: *Always use the Hitch position control knob to raise the hitch for road transport. put the control knob in the transport lock position and the up/down switch in the up position.*

NOTE: *To adjust for load control operation, do Steps on next page.*

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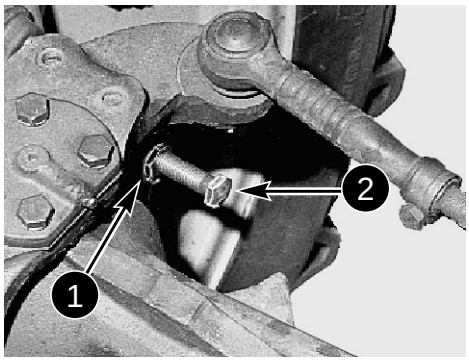
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MFD Axle - Steering Stops

IMPORTANT: *NEVER operate the tractor without steering stops installed or the axle will be damaged.*

The steering stops are used to give the required steering clearance between the front tires and tractor frame.

The stops are located on the rear of each swivel housing.



D24904

MX80C TRACTOR SHOWN

Steering Stop Adjustment

STEP 1

Loosen the lock nuts (1).

STEP 2

Adjust the steering stop bolts (2) to achieve correct steering angle. Tighten the lock nuts.

The angles you can set the stops to depends upon:

1. The size of front tires fitted.
2. The tread width setting.
3. If front fenders are fitted.
4. If Oscillation Stops are fitted.
5. If a downswept exhaust is fitted.

IMPORTANT: *After adjustment turn the steering wheel to full lock in both directions and check to make sure the tires or fenders DO NOT touch the tractor frame.*

IMPORTANT: *When installing a front loader check the manufacturers recommendations for axle steering and oscillation stops.*

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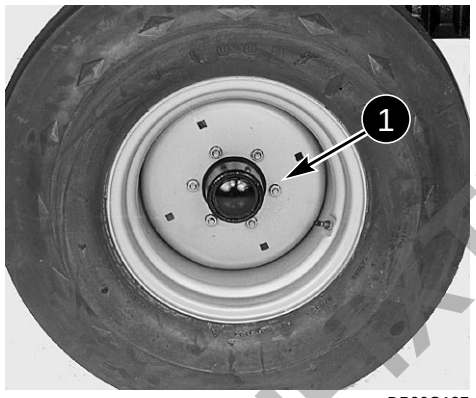
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Front Wheel Bolt Torques

The front wheel bolt hardware must be correctly torqued when the unit has been serviced or after wheel tread spacing has been adjusted.

All front wheel bolts/nuts must be tightened with a torque wrench to the correct figure after the first 30 minutes of use and then every 10 hours thereafter until the torques stabilize.

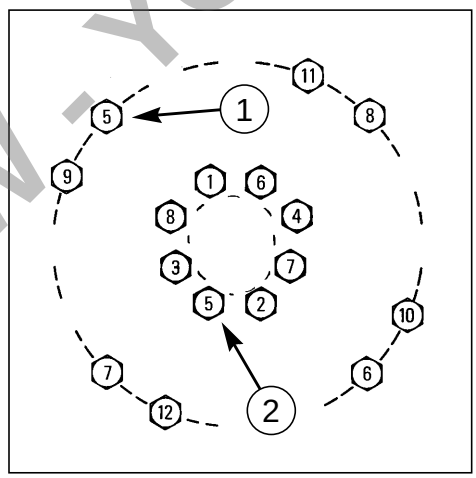
Two Wheel Drive (2WD)



DP99G137

Tighten the front wheel mounting nuts (1) to a torque of:
108 to 136 Nm (80 to 100 lbs ft)

Mechanical Front Drive (MFD)



5100166

Tighten the center disc to rim nuts (1) to a torque of 280 to 340 Nm (206 to 250 ft lb) in the numbered sequence shown. The center disc must fit flush against the rim lugs when assembled.

Tighten the center disc to axle hub nuts (2) to a torque of 300 to 350 Nm (221 to 258 ft lb) for NEW nuts and 400 to 450 Nm (295 to 332 ft lb) for USED nuts in the numbered sequence shown.

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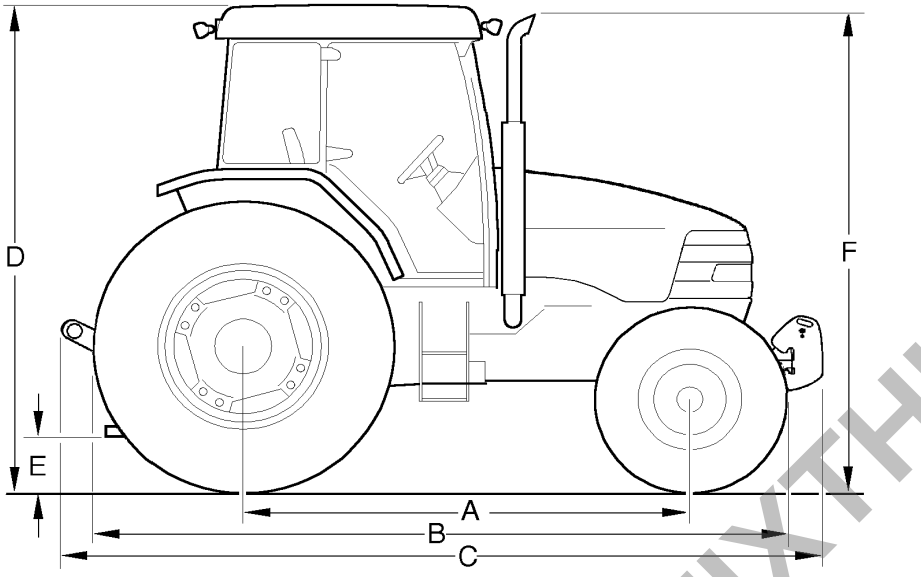
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Two Wheel Drive (2WD) Tractor with Deluxe Cab



MODEL	A	B	C		D	E	F
			WITHOUT WEIGHT EXTENSION	WITH WEIGHT EXTENSION			
MX80C MX90C MX100C	2400mm (94.5 in)	3623 mm (142.6 in)	4355 mm (171.5 in)	4686 mm (184.5 in)	2761 mm (108.7 in)	249 mm (9.8 in)	2573 mm (101.3 in)

Dimensions shown are with the following tire sizes fitted on the tractor.

Front 10.00-16
Rear 18.4R30

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OPERATING INSTRUCTIONS

BEFORE STARTING THE ENGINE

IMPORTANT: *An OPERATOR PRESENCE SAFETY SWITCH is fitted in the FORWARD/NEUTRAL/REVERSE (F/N/R) circuit, activated by the operator sitting on the seat. See OPERATING THE TRANSMISSION on Page 67 of this manual.*

WARNING: *ONLY operate the tractor when sitting on the seat. DO NOT try to bypass the OPERATOR PRESENCE SAFETY SWITCH, for example, by putting heavy objects on the seat. This can result in serious injury or death.* M519

WARNING: *Before starting the engine, be sure all operating controls are in neutral and the park brake is engaged. This will eliminate accidental movement of the machine or start up of power driven equipment.* M106E

WARNING: *Never start the engine in a closed building. Proper ventilation is required under all circumstances.* M142A

Do the following checks before starting the tractor for the first time. See REGULAR SERVICE CHART on Page 236 of this manual.

1. Make sure all persons that operate or do maintenance on the tractor understand that clean fuel is important.
2. Check all lubrication fittings.
3. Check the oil levels in the engine crankcase and transmission.
4. Check the water level in the batteries (if battery is not maintenance - free).
5. Check that the fuel tank is filled with clean fuel of the specifications given in this manual. Clean around the fuel tank cap before you remove the cap.
6. Check the fuel system, cooling system and engine oil pan for leaks.
7. Check that the alternator and compressor belts are adjusted correctly.
8. Remove any water or sediment from the fuel primary filter.
9. Check the air pressure of the tires.
10. If your tractor has a power takeoff, make sure the safety guard is installed and in good condition.
11. Check the coolant level in the coolant recovery bottle and radiator. Add water and ethylene glycol coolant as needed.

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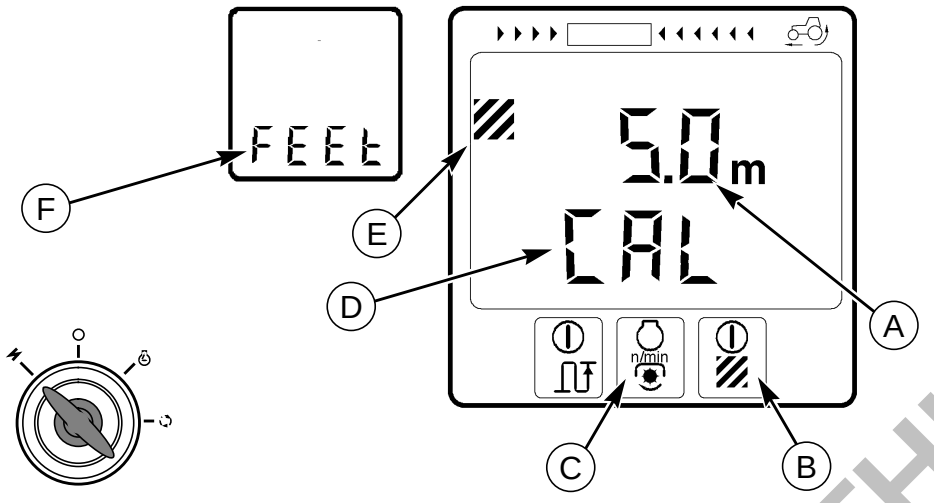
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2. Programming in the Implement Width Mode



DS98K064

STEP 1

To access the implement width programming mode, press the AREA FUNCTION switch (B) while turning the keyswitch from OFF to the ACCESSORY position.

The upper display (A) will show the previous width setting and the lower display (D) will show “CAL”. The area symbol (E) will also illuminate.

STEP 2

Press the AREA FUNCTION switch (B) to increase the implement width. Press the ENGINE RPM/PTO RPM switch (C) to decrease the implement width. Make sure the decimal point setting is accurate.

The implement width is programmable between 0 and 99.9. The factory setting is 5.0 metres for Europe and 16.4 feet for North America.

STEP 3

Turn the keyswitch to the OFF position to save the implement width setting and exit the implement width programming mode.

If MPH is selected for the ground speed, implement width is shown in FEEt (F) on the clock display. If km/h is selected, implement width will be displayed in metres (m).

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FRONT HITCH PREPARATION (If Equipped)

Hitch System

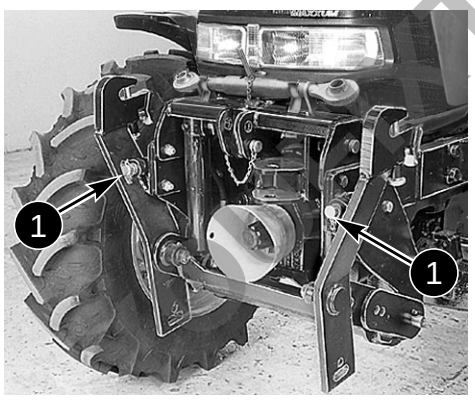
The front hitch system is operated through a (single acting) first remote hydraulic valve circuit.

Move the lever rearward to raise the linkage and forward to lower. The linkage is power lifted and weight lowered. The linkage is free to float upward on partial stroke.

The hitch is designed for Category II implements only. Lower links are rigidly mounted with no lateral movement. The lower links have claw ends and the top link a ball end. The top link can be adjusted for length and has a rigid or float position.

Lift Capacity ..... 2359 kg (5200 lb)

Lower Links Stored Position



DH97N053

When the front hitch is not being used, store the lower links as shown in the photograph. Insert the storage retaining pins (1) and linch pins.

Top Link Stored Position



DH97N004

When the front hitch is not being used, store the top link as shown in the photograph.

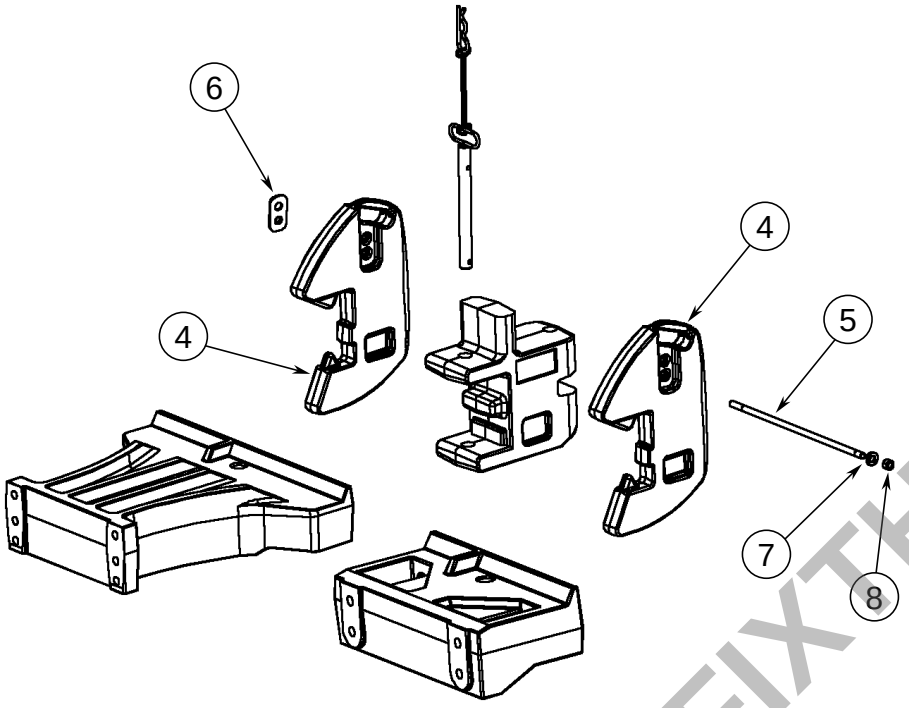
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DI99G109

4. WEIGHT 45 kg (100 lb)
5. THREADED PLATE
6. BOLT
7. WASHER
8. NUT

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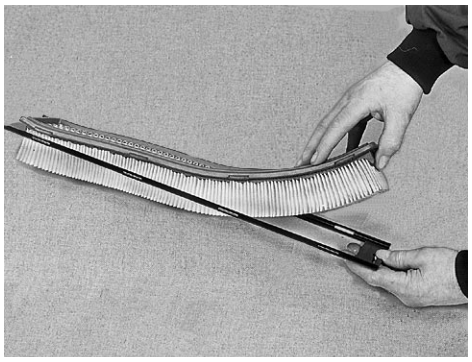
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1000 HOUR MAIN SERVICE

STEP 4



DP97A070

Remove the old element from the metal retainer.

IMPORTANT: *The old element MUST be put into a sealed container and disposed of in accordance with local regulations. Be responsible for the environment.*

STEP 5

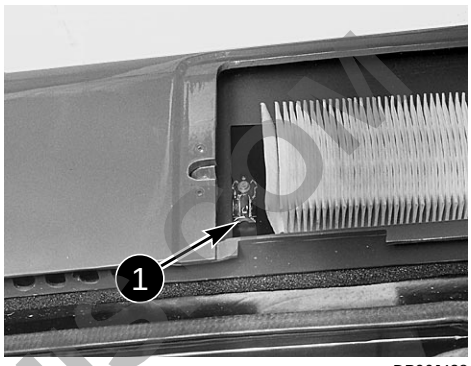


DP97A071

Install the new element into the retainer making sure the rubber surround is pressed firmly inside the retainer rim and the retaining lugs are located in the slots in the retainer.

NOTE: *Replace the element with a genuine CASE part.*

STEP 6



DP96J438

Install the new filter assembly and push the catch (1) up.

Close the cover.

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