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CX50, CX60, CX70, CX80
CX90 and CX100 Tractors

Operators Manual Supplement
Creeper Transmission

Don 6-6000

CASE IH

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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 an potentially hazardous situation which if not avoided, will result in serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates an 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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CREEPER TRANSMISSION OPERATION

Transmission creeper speeds can be used for PTO type harvesting operations or other applications where slower ground speeds are desired.

IMPORTANT: *Do not use creeper for operations which require high drawbar pull.*

To operate in creeper use the following procedure:

STEP 1

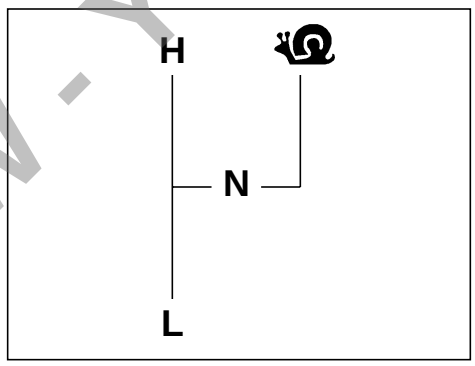
Using the correct starting procedure in your Operators Manual start the engine.

Press and hold the clutch pedal down and then carry out Steps 2, 3.

STEP 2

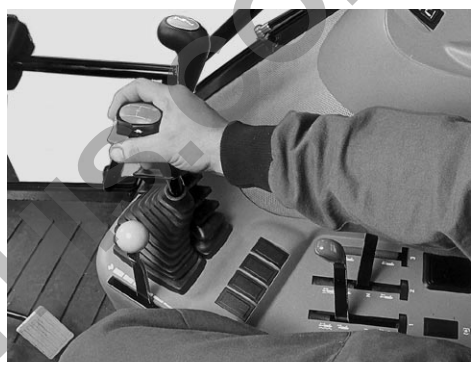


DP97F034



Engage creeper (snail symbol) using the RANGE lever.

STEP 3



DP97F033



DP97F002

Move the speed lever and 2 speed powershift switch to correct position to obtain required speed, see page 4 for creeper speeds available.

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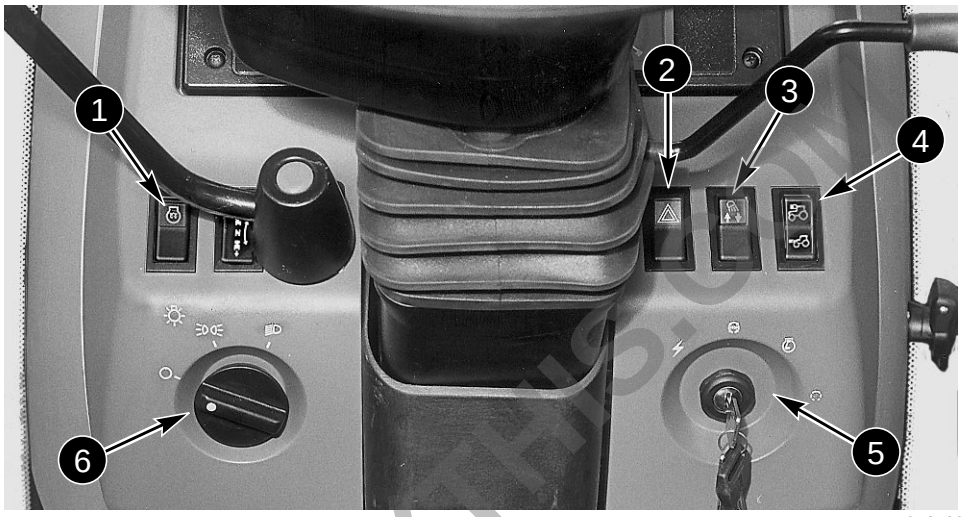
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OPERATING CONTROLS

Instrument Panel



DP97C136

1. THERMOSTART (COLD START) SWITCH (If Equipped) - See page 60 for instructions.

   OR

   ETHER (COLD START) SWITCH (If Equipped) - See page 61 for instructions.

2. HAZARD WARNING SIGNAL SWITCH

3. WORK LIGHTS - This is a three position rocker switch. The lights will operate as follows:

   First Position - OFF.

   Second Position - The rear work lights are ON. The lamp in the rocker switch will also be illuminated.

   Third Position - The front and rear work lights are ON. The lamp in the rocker switch for the rear work lights and the indicator lamp on the cluster for the front work lights will also be illuminated.

4. UPPER HEAD LAMPS SWITCH (If Equipped with Front Hitch) - With head lamp switch in third position press the front of the switch down, upper head lamps will illuminate and main head lamps will go off.

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APPROXIMATE CREEPER TRAVEL SPEEDS

NOTE: *For regular travel speeds refer to the Specifications section in your Operators Manual.*

CX50 and CX60 Tractors - 30 km/h Transmission

Speeds below are calculated at an engine speed of 2250 rpm.

REAR TIRES			18.4-30 12.4-38 (RR 720)	
FORWARD				
RANGE	SPEED	P/SHIFT	km/h	mph
	1		0.30	0.19
			0.36	0.22
	2		0.52	0.32
			0.63	0.39
	3		0.84	0.52
			1.02	0.64
	4		1.09	0.68
			1.31	0.81

REVERSE				
RANGE	SPEED		km/h	mph
	1		0.33	0.21
	2		0.58	0.36
	3		0.93	0.58
	4		1.20	0.75

= SPEED REDUCTION

= DIRECT DRIVE

= CREEPER

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SERVICE CHART

SERVICE HOURS	SERVICE POINTS	SEE PAGE	SERVICE REQUIRED				
			GREASE	DRAIN	CHECK	CLEAN	CHANGE
10	Fuel Level	234			X		
	Engine Oil Level	235			X		
	Transmission/Hydraulic Oil Level	236			X		
	Front PTO Oil Level	236			X		
	Coolant Recovery Reservoir Level	236			X		
	Pneumatic Trailer Brake Reservoir	237		X			
	Front/Rear Wheel Nut/Bolt Torques (See Note 9)	-			X		
	General Tractor Inspection - (See Note 1)	-			X		
50	Air Pressure in Tires	177			X		
	Fuel Water Trap - Fuel Filter	240		X			
	2WD Axle Grease Points - (See Note 8)	238	X				
	MFD Axle Grease Points - (See Note 8)	239	X				
	Engine Air Filter Dust Valve - (See Note 6)	240			X		
	Clutch Reservoir Level	240			X		
	Radiator and Coolers	241				X	
	Cab Air Recirculation Filter	242				X	
100	Rear Three Point Linkage - (See Note 8)	243	X				
	Front Three Point Linkage- (See Note 8)	243	X				
	Cab Air Intake Filter	244				X	
250	Front PTO Oil - (See Notes 6 and 7)	249					X
	Auto Hitch Locking Latches - (See Notes 2 and 6)	249	X				
	MFD Axle - Differential and Planetary Oil	250			X		
	Battery(s)	252			X		
	Trailer Hitches, Bolt Torques - (See Notes 2 and 6)	251			X		
	Fan and Alternator Belts	254			X		
	Compressor Belts	254			X		
	Drawbar Bolt Torques - (See Note 6)	252			X		
	Engine Oil	256					X
	Engine Oil Filter	256					X

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FRONT TIRES			
TIRE SIZE	WHEELS	MAXIMUM AXLE LOAD (2x TYRES) kg (lb) *	INFLATION PRESSURE bar (psi) **
RADIAL			
11.2R20 111A8	W/W9x20	2330 (5137)	1.6 (23)
12.4R20 116A8	W/W11x20	2670 (5886)	1.6 (23)
14.9LR20 119A8	W/W11x20	2910 (6415)	1.6 (23)
335/80R20 134G	W/W11x20	5300 (11 684)	3.5 (50)
375/75R20 136G	W/W11x20	5600 (12 346)	3.5 (50)
405/70R20 136G	W/W11x20	5600 (12 346)	2.4 (35)
8.3R24 8PR R1	W/W7-24	1870 (4123)	1.5 (22)
9.5R24 107A8	W/W7-24	2080 (4586)	1.6 (23)
11.2R24 114A8	W/W10-24	2520 (5556)	1.6 (23)
12.4R24 119A8	W/W10-24	2910 (6415)	1.6 (23)
360/70R24 122A8	W/W12-24	3210 (7077)	1.6 (23)
CROSSPLY			
7.50-16 6PR F2 3rib	W/5.50-16	1500 (3307)	2.8 (41)
7.50-16 6PR F2 T9	W/5.50-16	1500 (3307)	2.8 (41)
10.00-16 8PR F2	W/W8L-16	2430 (5357)	2.8 (41)
11.00-16 8PR F2	W/W8L-16	2640 (5820)	2.5 (36)
7.50-18 6PR F2 T9	W/5.50-18	1650 (3638)	2.8 (41)
7.50-18 6PR F2	W/5.50-18	1650 (3638)	2.8 (41)
10.5-18 6PR R1 (122G)	W/9.00-188	3210 (7077)	2.2 (32)
14.5/80-18 12PR R3	W/W11-18	6350 (13 999)	2.0 (29)
7.50-20 8PR	W/5.50-20	2060 (4475)	(3.4) 49
8.3-24 6PR R1	W/W7-24	1620 (3571)	1.5 (22)
9.5-24 6PR R1	W/W7-24	1840 (4056)	2.0 (29)
11.2-24 6PR R1	W/W10-24	2090 (4608)	1.8 (26)
12.4-24 6PR R1	W/W10-24	2400 (5291)	1.6 (23)

* At maximum inflation pressure.
** To match maximum load capacity.

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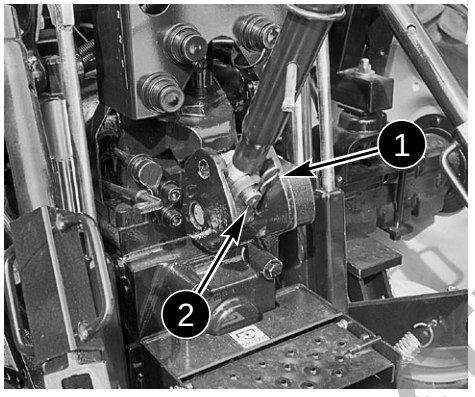
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Top Link Installation

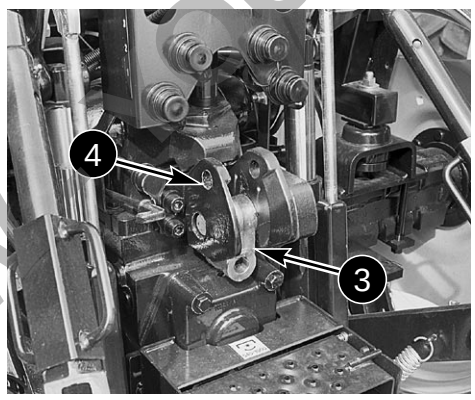
Top Mounting Hole

The top mounting hole is designed for dedicated Cat II top links which are provided on equipment such as hedge cutters and post hole borers.



DP99J055

To install the dedicated top link remove the 'R' clip (1) from the top link pin (2). Remove the link pin (2) and the existing top link from the tractor.



DP99J054

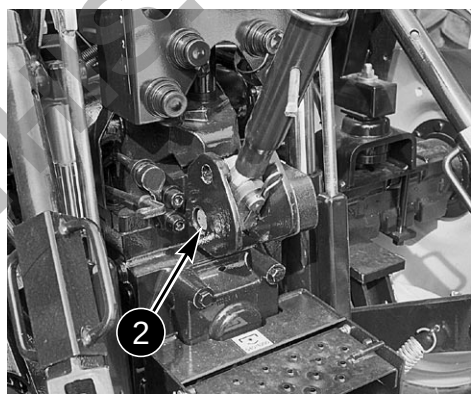
The yoke (3) will remain installed onto the lower pin.

Install the dedicated top link into the top mounting hole (4).

IMPORTANT: *Top link sensing will not operate when the dedicated top link is installed in the top mounting hole*

Bottom Mounting Hole

The bottom mounting hole (5) is designed for the special swivel type top link supplied with the tractor. Top link sensing is active through the bottom mounting hole.



DP99J055

IMPORTANT: *Top link sensing will not operate correctly if the top link is connected to the slotted hole on an implement.*

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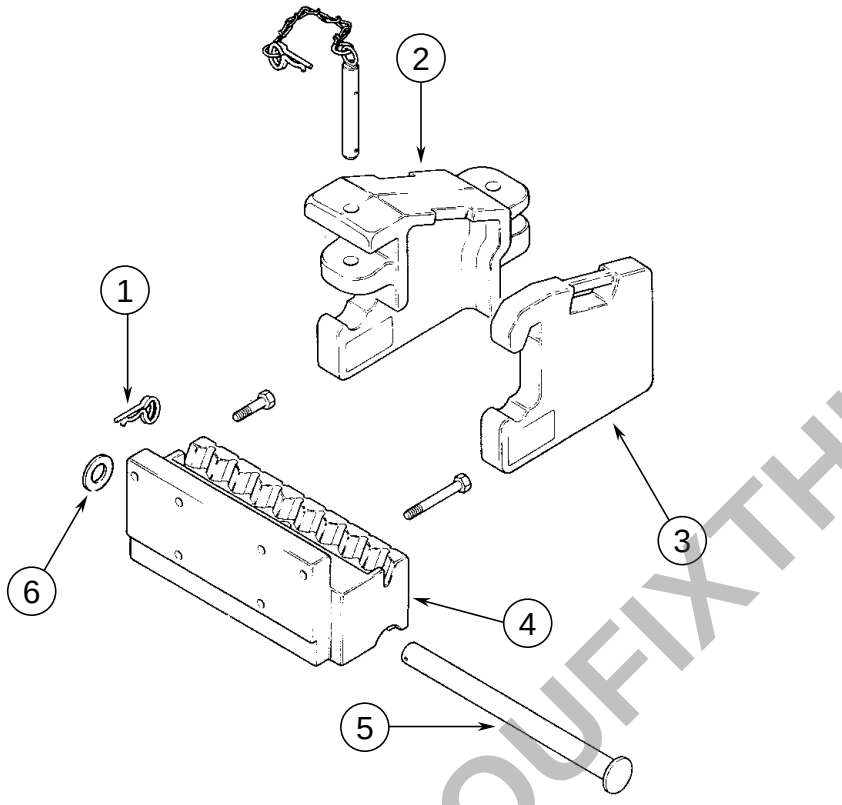
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Type A



1. SPRING CLIP
2. CLEVIS WEIGHT - 82 kg (181 lb)
3. WEIGHT - 47 kg (104 lb)
4. WEIGHT BRACKET - 94 kg (207 lb)
5. RETAINING TUBE
6. WASHER

Total Weight Added

Weight Frame and Clevis Weight..... 176 kg (388 lb)

Weight Frame, 6 Weights and Clevis Weight..... 458 kg (1010 lb)

Weight Frame and 9 Weights..... 517 kg (1140 lb)

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CX70, CX80, CX90, CX100 Tractors - Synchromesh (8F/8R) Transmission

Speeds below are calculated at an engine speed of 2200 rpm.

REGULAR SPEEDS			
REAR TIRES		18.4-30 (RR 720)	
FORWARD			
RANGE/GEAR		km/h	mph
LO	1	2.57	1.60
LO	2	4.18	2.60
LO	3	5.65	3.51
LO	4	8.11	5.04
HI	1	9.64	5.99
HI	2	15.67	9.74
HI	3	21.18	13.16
HI	4	30.41	18.90

REVERSE			
RANGE/GEAR		km/h	mph
LO	1	2.50	1.55
LO	2	4.07	2.53
LO	3	5.50	3.42
LO	4	7.90	4.91
HI	1	9.39	5.83
HI	2	15.26	9.48
HI	3	20.63	12.82
HI	4	29.62	18.41

LO = Low range, HI = High range, RR = Rolling Radius

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Connecting Implement to Drawbar

Make sure the following items are correct:

- Connect pull behind implements to the drawbar only.
- Use a hardened steel hitch pin to connect the implement to the drawbar. Make sure the pin is held securely in place with a lock pin.
- If both the tractor and implement are equipped with a drawbar clevis, remove the clevis from the tractor OR implement. DO NOT put a long hitch pin through both the implement clevis and the drawbar clevis. See example A and B for correct methods of using a clevis type hitch.

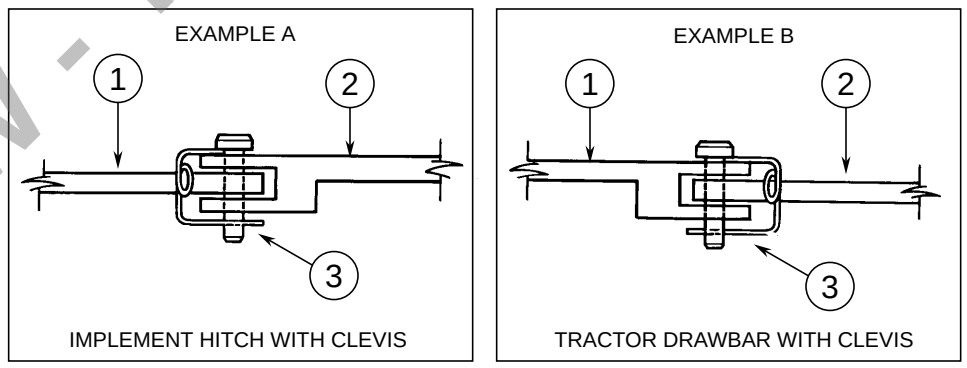
NOTE: *For **non-PTO work**, the clevis shown in example B can be mounted on top of or below the tractor drawbar as needed.*

- Adjust the drawbar so that the center line of the pulling force of the tractor will be aligned with the center line of the implement.
- When working with the drawbar, raise the lower links as high as possible to prevent interference between the lower links and the implement.
- When working with PTO, do the following:

A. Lock the drawbar in the center position on the drawbar support with the drawbar retaining pin, Also see page 81.

B. The clevis (if equipped) must be removed from the drawbar or mounted under the drawbar (See example B), to prevent possible interference between the clevis and the implement driveline.

IMPORTANT: *Use 50mm inner diameter towing eye only, see IMPLEMENT/ TRAILER DRAWBAR DIMENSIONS on Page 94 of this manual.*



PM023

1. TRACTOR DRAWBAR 2. IMPLEMENT HITCH 3. LOCK PIN

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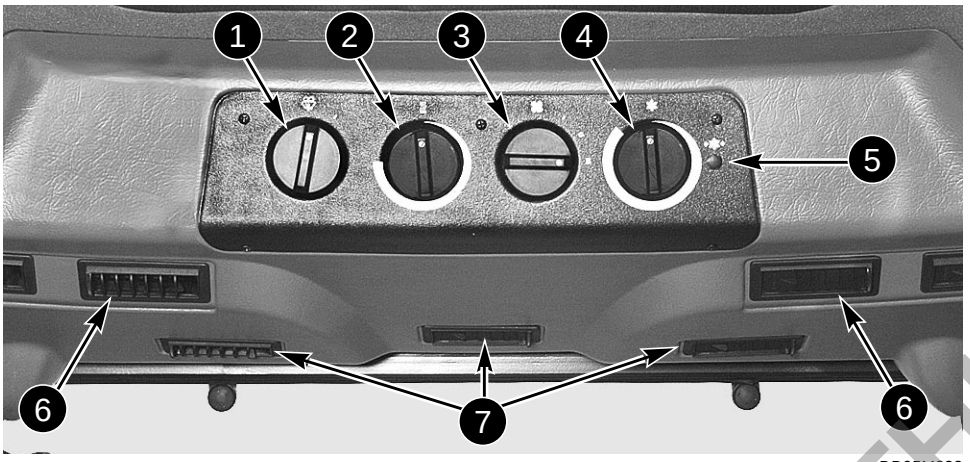
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OPERATOR CAB ENVIRONMENT CONTROLS

Deluxe Cab



DD95M222

1. WINDSHIELD WIPER/WASHER CONTROL - Two or Three Positions:

   Intermittent (If Equipped), clockwise to increase or counterclockwise to decrease wipes per minute.

   I Slow.

   II Fast.

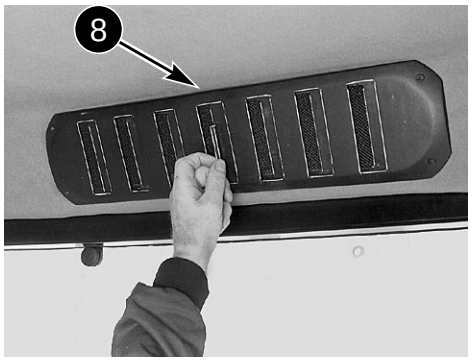
   NOTE: *On tractors equipped with the opening windshield there is only one speed.*

   Push the control knob to activate windshield washer (If Equipped).

2. TEMPERATURE CONTROL

NOTE: *Under certain conditions the heater fan can run at maximum speed when the control is in the 2nd, 1st or OFF position. This is a safety feature designed to prevent overheating of resistors in the circuit.*

3. BLOWER CONTROL
4. AIR CONDITIONER CONTROL - Blower must be operating.
5. AIR CONDITIONER PRESSURE INDICATOR LAMP
6. AIR OUTLET VENTS
7. DEFROSTER VENTS
8. RECIRCULATION VENT



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FIELD OPERATION

CREEPER TRANSMISSION OPERATION (If Equipped)

Transmission creeper speeds can be used for PTO type harvesting operations or other applications where slower ground speeds are desired.

IMPORTANT: *Do not use creeper for operations which require high drawbar pull.*

IMPORTANT: *DO NOT engage creeper while in 4th range, damage will occur to the transmission.*

To operate in creeper use the following procedure:

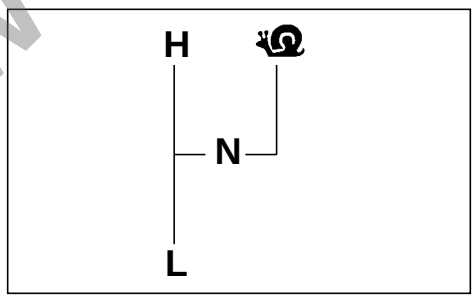
STEP 1

Using the correct starting procedure ion page 56 start the engine.
Press and hold the clutch pedal down and then carry out Steps 2, 3.

STEP 2



DP97F034



Engage creeper (snail symbol) using the RANGE lever.

STEP 3



DP97F033



DP97F002

Move the speed lever and 2 speed powershift switch to correct position to obtain required speed, see page 12 for creeper speeds available.

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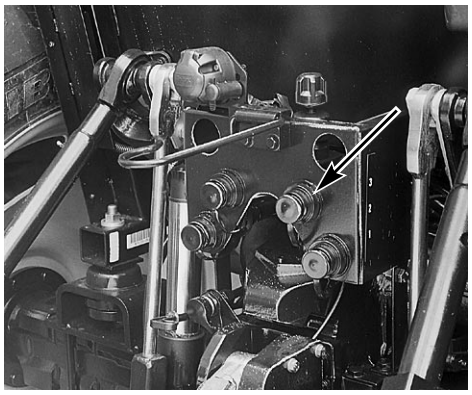
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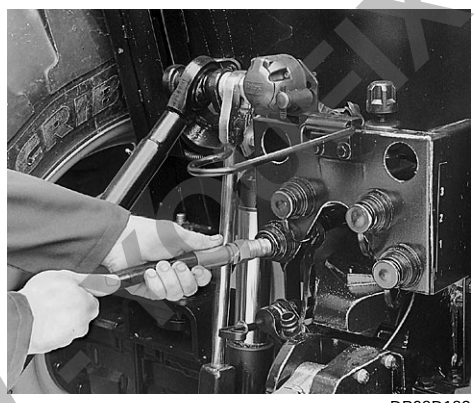
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Connecting Remote Hoses



DP98D182

The remote valve couplers are Numbered 1, 2 and 3 from the bottom upward, and are operated by the corresponding remote control levers on the right hand console.



DP98D183

Connect the implement to the remote couplers so that the implement lowers when the control lever is pushed forward and raises when the control lever is pulled rearward.

The couplers on the left are to raise the implement, the couplers on the right are to lower the implement, as seen looking at the rear of the tractor. Change the hoses over if the implement works in the opposite way.

The implement couplers can be connected or disconnected with the tractor or implement hydraulic system under pressure.

IMPORTANT: *When connecting the implement hose to the tractor, make sure there is enough hydraulic hose to permit the tractor to turn in both directions.*

To connect the coupler:

STEP 1

Remove the dust cap. Clean the male coupler before connecting.

STEP 2

To connect the hose to the remote coupler, Push the male coupler into the female coupler.

IMPORTANT: *All implements must be fitted with shrouded couplers which are available from your dealer. If an implement is not connected to the remotes using a shrouded coupler there will be restricted oil through the couplers resulting in inefficient machine operation, especially where high flow rates are required.*

STEP 3

To equalize the pressure in the coupler hose and tractor lines move the control lever on the console forward and rearward.

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Hood Access Panel, Removal (Fixed Hood Only)

STEP 1

Park the tractor on hard, level ground and apply the park brake. Stop the engine and remove the key from the key switch.

STEP 2



DP97C081

Remove the access panel at the rear of the hood.

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2000 HOUR MAIN SERVICE

NOTE: *The temporary bleed hose must be long enough to reach into the radiator filler neck and stay below the coolant level in the radiator. Make sure there are no kinks and the hose is secure.*

NOTE: *For CX50 and CX60 Tractors, make sure the temporary bleed hose is not in contact with the water pump belt.*

STEP 5

CX50, CX60 TRACTORS

Open the upper vent screw on the thermostat housing, (If Equipped). Fill the radiator with correct coolant solution, when coolant flows free from air, tighten the vent screw.

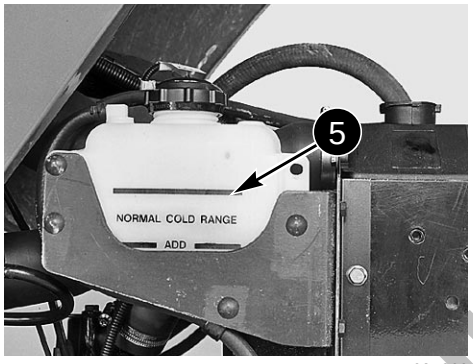
STEP 6

CX70, CX80, CX90, CX100 TRACTORS

Fill the radiator with correct coolant solution.

WARNING: *Add coolant to the radiator only when the engine is stopped or slowly idling. To avoid being scalded when the pressure type filler cap is being removed, turn the cap slowly to the first stop position to relieve pressure before removing the cap.* SM102A

STEP 7



DP98A366

Fill the coolant recovery reservoir to the 'normal' mark (5) with coolant solution.

STEP 8

To purge any air in the heater return hose (3) (STEP 4) loosen the clamp until coolant flows from the hose. Install a 5/8 inch diameter plug into the open end of the hose and secure with a hose clip. Remove the clamp.

STEP 9

Open the heater taps. Start and run the engine at low idle for 1 minute to purge any air from the heater into the radiator. STOP the engine.

WARNING: *Never operate the engine in a closed building. Proper ventilation is required under all circumstances. Exhaust fumes can cause serious injury or death.* M532

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