DX35, DX40, DX45 Tractors

Operator's Manual

86617827

CASE IH

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PRECAUTIONARY STATEMENTS

PERSONAL SAFETY

Throughout this manual and on machine decals, you will find precautionary statements (“CAUTION”, “WARNING”, and “DANGER”) followed by specific instructions. These precautions are intended for the personal safety of you and those working with you. Please take the time to read them.



CAUTION: THE WORD “CAUTION” IS USED WHERE A SAFE BEHAVIORAL PRACTICE ACCORDING TO OPERATING AND MAINTENANCE INSTRUCTIONS AND COMMON SAFETY PRACTICES WILL PROTECT THE OPERATOR AND OTHERS FROM ACCIDENT INVOLVEMENT.



WARNING: THE WORD “WARNING” DENOTES A POTENTIAL OR HIDDEN HAZARD WHICH HAS A POTENTIAL FOR SERIOUS INJURY. IT IS USED TO WARN OPERATORS AND OTHERS TO EXERCISE EVERY APPROPRIATE MEANS TO AVOID A SURPRISE INVOLVEMENT WITH MACHINERY.



DANGER: THE WORD “DANGER” DENOTES A FORBIDDEN PRACTICE IN CONNECTION WITH A SERIOUS HAZARD.

FAILURE TO FOLLOW THE “CAUTION”, “WARNING”, AND “DANGER” INSTRUCTIONS MAY RESULT IN SERIOUS BODILY INJURY OR DEATH.

MACHINE SAFETY

Additional precautionary statements (“ATTENTION” and “IMPORTANT”) are followed by specific instructions. These statements are intended for machine safety.

ATTENTION: The word “ATTENTION” is used to warn the operator of potential machine damage if a certain procedure is not followed.

IMPORTANT: The word “IMPORTANT” is used to inform the reader of something he needs to know to prevent minor machine damage if a certain procedure is not followed.

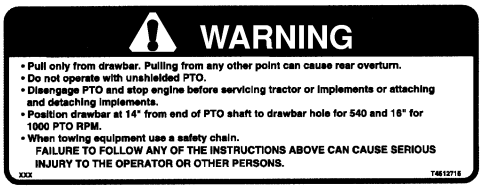
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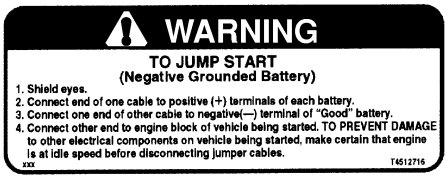
DECALS

If safety or instruction decals become damaged or illegible, new decals should be obtained from your Dealer and placed at their original positions.

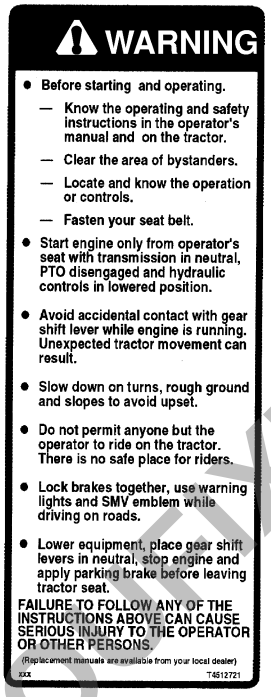
SAFETY DECALS



WARNING: Pull Only From Drawbar
PART NO: 86532904
LOCATION: PTO Shield



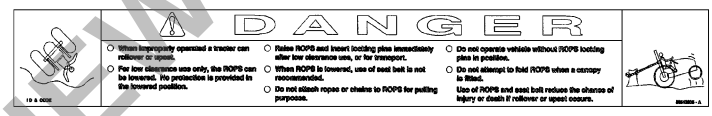
WARNING: To Jump Start
PART NO: 86532905
LOCATION: Coolant overflow tank



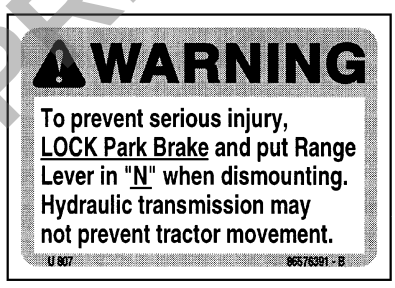
WARNING: Before Starting and Operating
PART NO: 86532909
LOCATION: Inside Left-Hand Fender



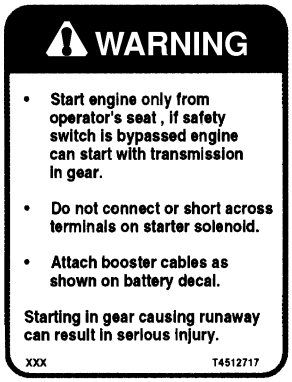
WARNING: Rotating Fan and Belts
PART NO: 86532907
LOCATION: Both sides of Radiator Shroud



DANGER: ROPS
PART NO: 86543805
LOCATION: Top under side of ROPS



WARNING: Lock Park Brake
PART NO: 86576391
LOCATION: Right Side Dash
Left of handle throttle



WARNING: Start Engine Only From Operator's Seat
PART NO: 86579295
LOCATION: On Starter Motor

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MINIMUM HARDWARE TIGHTENING TORQUES

IN FOOT POUNDS (NEWTON-METERS) FOR NORMAL ASSEMBLY APPLICATIONS

INCH HARDWARE AND LOCKNUTS

NOMINAL SIZE	SAE GRADE 2		SAE GRADE 5		SAE GRADE 8		LOCKNUTS		NOMINAL SIZE
	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD	GR.B w/GR5 BOLT	GR.C w/GR8 BOLT	
1/4	55* (6.2)	72* (8.1)	86* (9.7)	112* (13)	121* (14)	157* (18)	61* (6.9)	86* (9.8)	1/4
5/16	115* (13)	149* (17)	178* (20)	229* (26)	250* (28)	324* (37)	125* (14)	176* (20)	5/16
3/8	17 (23)	22 (30)	26 (35)	34 (46)	37 (50)	48 (65)	19 (26)	26 (35)	3/8
7/16	27 (37)	35 (47)	42 (57)	54 (73)	59 (80)	77 (104)	30 (41)	42 (57)	7/16
1/2	42 (57)	54 (73)	64 (87)	83 (113)	91 (123)	117 (159)	45 (61)	64 (88)	1/2
9/16	60 (81)	77 (104)	92 (125)	120 (163)	130 (176)	169 (229)	65 (88)	92 (125)	9/16
5/8	83 (112)	107 (145)	128 (174)	165 (224)	180 (244)	233 (316)	90 (122)	127 (172)	5/8
3/4	146 (198)	189 (256)	226 (306)	293 (397)	319 (432)	413 (560)	160 (217)	226 (306)	3/4
7/8	142 (193)	183 (248)	365 (495)	473 (641)	515 (698)	667 (904)	258 (350)	364 (494)	7/8
1	213 (289)	275 (373)	547 (742)	708 (960)	773 (1048)	1000 (1356)	386 (523)	545 (739)	1

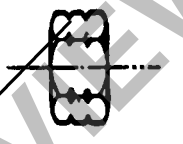
NOTE: Torque values shown with * are inch pounds.

IDENTIFICATION
CAP SCREWS AND CARRIAGE BOLTS



SAE GRADE 2 | SAE GRADE 5 | SAE GRADE 8 | REGULAR NUTS | SAE GRADE 5 HEX NUTS | SAE GRADE 8 HEX NUTS

LOCKNUTS



GRADE IDENTIFICATION

GRADE A NO NOTCHES

GRADE B ONE CIRCUMFERENTIAL NOTCH

GRADE C TWO CIRCUMFERENTIAL NOTCHES



GRADE IDENTIFICATION

GRADE A NO MARKS

GRADE B THREE MARKS

GRADE C SIX MARKS

MARKS NEED NOT BE LOCATED AT CORNERS



GRADE A NO MARK
GRADE B LETTER B
GRADE C LETTER C

GRADE IDENTIFICATION

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SECTION 2

OPERATION

CONTROLS AND INSTRUMENTS

SEAT, SEAT BELT, AND ROLLOVER PROTECTIVE STRUCTURE (ROPS)

Adjusting the Tractor Seat

Your tractor is equipped with an adjustable suspension seat.

To move the seat fore and aft, raise the release lever, 1. Because the seat is on an inclined base, more effort is required to move the seat rearward than forward.

To adjust the flotation of the seat, turn the knob, 2, clockwise for a firmer ride or counter clockwise for a softer ride.

To swivel the seat, raise the handle, 3, and swivel in the desired direction. The seat will swivel and lock at 10° or 20° to the right or the left.

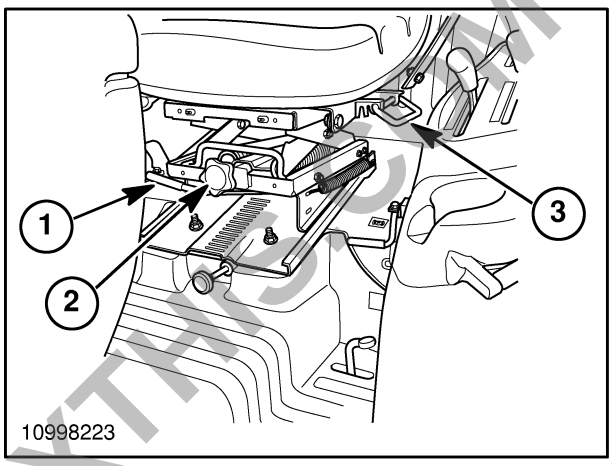


Figure 2-1

Adjusting the Seat Belt

To lengthen the seat belt, tip the buckle end down and pull on the buckle until the ends can be joined. To shorten the belt, buckle it, then pull on the loose end until the belt is snug.

Use soap and water to clean the seat belt if necessary. Do not use carbon tetrachloride, naphtha, etc., as these substances will weaken the webbing. Additionally, do not bleach or redye the webbing, as these products will also weaken the webbing.

Replace the seat belt if it becomes damaged or worn.

NOTE: Optional armrests shown.

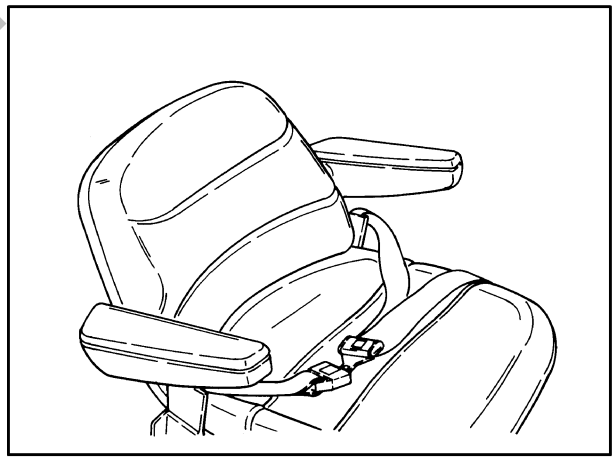


Figure 2-2

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WARNING: FUEL OIL IN THE INJECTION SYSTEM IS UNDER HIGH PRESSURE AND CAN PENETRATE THE SKIN. UNQUALIFIED PERSONS SHOULD NOT REMOVE OR ATTEMPT TO ADJUST A PUMP, INJECTOR NOZZLE, OR ANY PART OF THE FUEL INJECTION SYSTEM.

- **DO NOT USE YOUR HAND TO CHECK FOR LEAKS. USE A PIECE OF CARDBOARD OR PAPER TO SEARCH FOR LEAKS.**
- **IF ANY FLUID IS INJECTED INTO THE SKIN, OBTAIN MEDICAL ATTENTION IMMEDIATELY OR GANGRENE MAY RESULT.**

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SERIOUS INJURY.

Refueling the Tractor

The fuel tank filler cap, 1, is located at the rear of the tractor. Before removing the cap, wipe all dust and dirt from around the cap to prevent debris from falling into the tank while filling.

Use an approved fuel container and check the inside of the container periodically for cleanliness. Fuel tank capacity is 13 U.S. gals. (54.5 L).

NOTE: The fuel cap is a vented-type. Use only an approved Case IH replacement cap to prevent fuel system-related problems.

If there is no filter on the storage tank or fuel container, filter the fuel through a 100-mesh or finer screen when filling the tractor fuel tank. Keep the tractor tank as full as possible (without filling to capacity) to minimize condensation.

NOTE: It is a good practice to fill the fuel tank at the end of each day, as this will reduce overnight condensation.

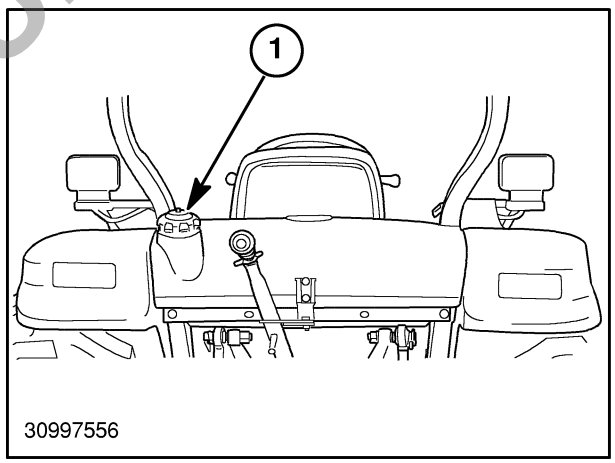
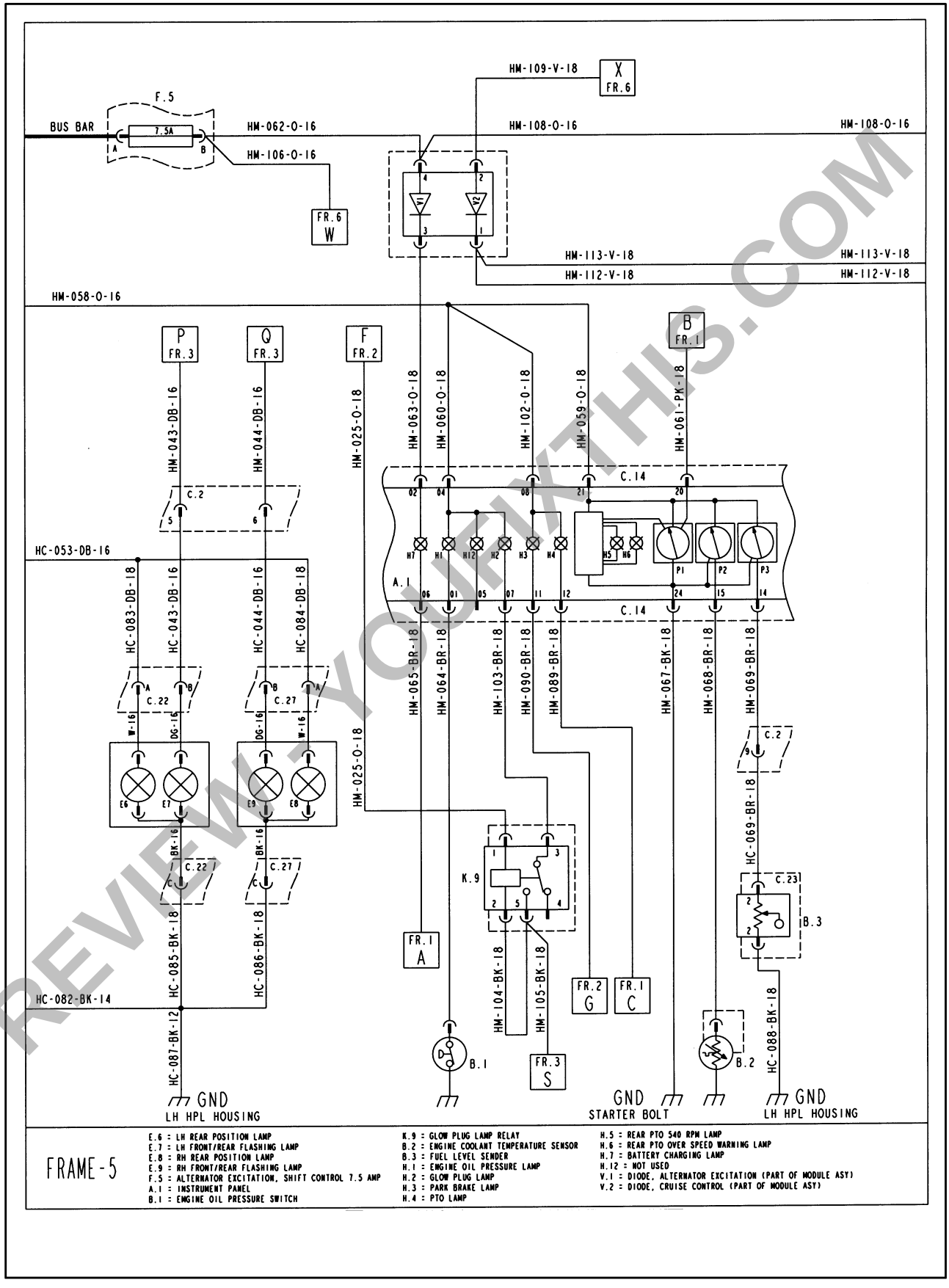


Figure 3-2

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	Model DX35—Hydrostatic	Model DX40—Hydrostatic	Model DX45—Hydrostatic
CAST IRON WEIGHTS			
Front End:			
Ag, R-4 & Turf Tires with FWD	(2) weights @ 29.7 kg (66 lbs.) each	(2) weights @ 29.7 kg (66 lbs.) each	(2) weights @ 29.7 kg (66 lbs.) each
	Optional (2) weights @ 45 kg (100 lbs.) each	Optional (2) weights @ 45 kg (100 lbs.) each	Optional (2) weights @ 45 kg (100 lbs.) each
FWD Axle: (with extension bracket)	(5) weights @ 26 kg (60 lbs.) each Total 26 kg (300 lbs.)	(5) weights @ 26 kg (60 lbs.) each Total 26 kg (300 lbs.)	(5) weights @ 26 kg (60 lbs.) each Total 26 kg (300 lbs.)
	Or	Or	Or
	(5) weights @ 45 kg (100 lbs.) each Total 225 kg (500 lbs.)	(5) weights @ 45 kg (100 lbs.) each Total 225 kg (500 lbs.)	(5) weights @ 45 kg (100 lbs.) each Total 225 kg (500 lbs.)
Rear Wheel:			
R-4 Tires	(4) weights (2) per wheel @ 34 kg (75 lbs.) each	(4) weights (2) per wheel @ 34 kg (75 lbs.) each	(4) weights (2) per wheel @ 34 kg (75 lbs.) each
Turf Tires	---	---	---
Ag. Tires	(4) weights (2) per wheel @ 48 kg (105 lbs.) each	(4) weights (2) per wheel @ 48 kg (105 lbs.) each	(4) weights (2) per wheel @ 48 kg (105 lbs.) each
DRAWBARS			
Swinging/ Extendible	Standard	Standard	Standard
3 POINT HITCH			
Category Type	I	I	I
Position Control Type	Hydraulic	Hydraulic	Hydraulic
Draft Control Type	Top Link Sensing (DIA)	Top Link Sensing (DIA)	Top Link Sensing (DIA)
Drop Rate Control	Standard	Standard	Standard
Lift Capacity @ 24" Behind Kg (lbs.)	920 (2025)	1059 (2330)	1059 (2330)

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PREDELIVERY SERVICE

Check and Adjust as Required

INOPERATIVE SERVICE CHECKS

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3. ____ Radiator Coolant Level, 3-16
4. ____ Fan Belt Tension, 3-18
5. ____ Battery Cleanliness, Vent Openings, Electrolyte Level, & Charge, 3-21
6. ____ Engine Oil Level, 3-6
7. ____ Power Steering Reservoir Oil Level, 3-14
8. ____ Transmission & Rear Axle Oil Level, 3-12
9. ____ Front Axle & Final Reduction Gear Case Oil Level (FWD), 3-30
10. ____ Hydraulic Lift Control Drop Rate Adjustment, 2-26
11. ____ Top Link (present), 2-20
12. ____ Brake Adjustment & Pedal Equalization, 3-29
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14. ____ Front Wheel Bolt Torque-125 ft. lbs. (169 N·m) (2WD & FWD), 3-27
15. ____ Front Wheel Toe-in, 3-28
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17. ____ Body Panels & Paint Condition, 3-35
18. ____ Seat Functions, 2-1

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2. ____ Seat Belts Installed, 2-1
3. ____ ROPS Bolt Torque-55 ft. lbs. (74.5 N·m); Seat Belt Bolt Torque-35 ft. lbs. (47.4 N·m), 3-19
4. ____ PTO Shield Installed, 2-16
5. ____ SMV Emblem Installed, 2-8
6. ____ Safety Decals Installed, 0-8, 0-9, 0-10
7. ____ Neutral Start Switches Operation, 2-6
8. ____ Parking Brake & Latch Operation, 2-10
9. ____ Flashing Lights/Tail Lights Operation, 2-8
10. ____ Operator's Manual (present) Manual #86617827

OPERATIVE SERVICE CHECKS

All operating checks are to be performed with tractor at normal operating temperature.

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2. ____ Fluid & Oil Leaks
3. ____ Maximum No-load Speed & Idle Speed Adjustments (Max: 2855 RPM, Idle: 1025 RPM)
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   ____ Flow Control Operation, 2-22
6. ____ FWD-Drive Lever Operation, 2-11
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TRACTOR MODEL NO. _____ **INSPECTION PERFORMED** _____

TRACTOR SERIAL NO. _____ **WARRANTY EXPLAINED** _____

Owner's Signature _____ **Date** _____

Dealer's Signature _____ **Date** _____

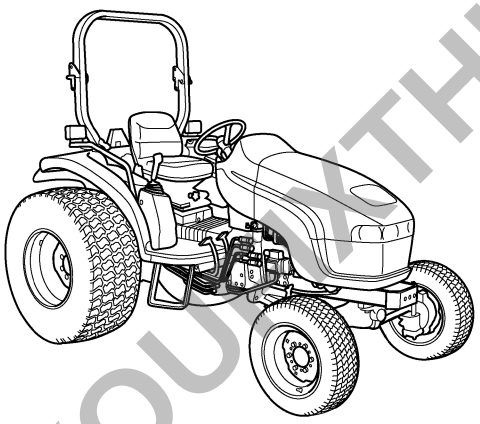
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TO THE OWNER:

This manual contains information concerning the operation, adjustment, and maintenance of the Models DX35, DX40 and DX45. You have purchased a dependable machine, but only by proper care and operation can you expect to receive the performance and long service built into this tractor. Please have all operators read this manual carefully and keep the manual available for ready reference.

Your dealer will instruct you in the general operation of your tractor. (Refer to the “Delivery Report” at the back of this manual.) Your dealer’s staff of factory-trained service technicians will be glad to answer any questions that may arise regarding the operation of your tractor.

Your dealer carries a complete line of genuine Case IH parts. These parts are manufactured and carefully inspected to insure high quality and accurate fitting of any necessary replacement parts.



CAUTION: THIS SYMBOL IS USED THROUGHOUT THIS BOOK WHENEVER PERSONAL SAFETY IS INVOLVED. TAKE TIME TO READ AND FOLLOW THE INSTRUCTIONS. BE CAREFUL!

CAUTION: PICTURES IN THIS MANUAL MAY SHOW PROTECTIVE SHIELDING OPEN OR REMOVED TO BETTER ILLUSTRATE A PARTICULAR FEATURE OR ADJUSTMENT.

BE CERTAIN, HOWEVER, TO CLOSE OR REPLACE ALL SHIELDING BEFORE OPERATING THE MACHINE.

IMPROVEMENTS

Case IH is continually striving to improve its products. We reserve the right to make improvements or changes when it becomes practical and possible to do so, without incurring any obligation to make changes or additions to the equipment sold previously.

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LUBRICATION FITTINGS

NOTE: After every 50 hours of normal operation, apply a good quality grease to the lubrication points listed below (refer to the Recommended Lubricants chart). When operating under extremely dirty conditions, lubricate more frequently than every 50 hours.

- Steering Linkage
- Front Axle Pivot
- Power Steering Cylinder
- Pedal Shaft—HST & Brake Pedals
- 3-Point Linkage

To lubricate these points:

1. Wipe away all old grease and dirt from the lubrication fittings to prevent dirt or foreign material from entering as new grease is applied.
2. Use a high pressure grease gun to force in the new grease. Apply pressure until clean grease oozes from each lubrication point.
3. Wipe away any excess grease.

DIESEL FUEL

- Use clean, quality No. 1-D or No. 2-D fuel (ASTM D975).
- Use No. 1-D fuel if the ambient temperature is expected to be lower than 40°F (4°C) or if the tractor is to be used at an altitude exceeding 5000 ft. (1524 m).
- Use No. 1-2 diesel fuel with a pour point of at least 10°F (-12°C) below the expected ambient temperature to prevent fuel flow problems in cold weather.
- Keep dirt from entering the fuel tank.
- Sulfur content of the fuel should be no more than 0.5%.
- Sediment and water content should not exceed 0.05%.
- Minimum cetane number is 40. Low temperature or high altitude operation may require use of fuel with a higher cetane number.
- Use properly mixed winter fuel when temperatures are extremely cold. In most areas, diesel fuel is properly blended for summer and winter grades as ambient temperatures change. In winter, use winter grade diesel fuel only. Otherwise, the fuel may cloud and block the fuel system.

Fuel Usage Safety

- UNDER NO CIRCUMSTANCES should gasoline, alcohol, or gasohol be added to diesel fuel. These combinations can create an increased fire or explosive hazard.
- Never remove the fuel cap or refuel the tractor while the engine is running or hot.
- Never smoke while refueling or anywhere near fuel.
- When filling the tank, maintain control of the nozzle.
- Do not fill the fuel tank to capacity. Allow room for expansion.
- Wipe up spills immediately.
- Always tighten the fuel cap securely.
- If the original fuel tank cap is lost, always replace it with a Case IH approved cap. A “will-fit” cap may not be safe.
- Keep equipment properly maintained.
- Do not drive equipment near open fires.
- Never use gasoline for cleaning parts.

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