

# **D35, DX35, D40, DX40, D45, DX45 CONTENTS**

**SECTION 00 - GENERAL INFORMATION**

**SECTION 10 - ENGINE**

**SECTION 18 - CLUTCH**

**SECTION 21 - TRANSMISSION**

**SECTION 23 - DRIVELINE**

**SECTION 25 - 4WD FRONT AXLE**

**SECTION 27 - DIFFERENTIAL, REAR AXLE**

**SECTION 29 - HYDROSTATIC TRANSMISSION**

**SECTION 31 - POWER TAKE-OFF (PTO) SYSTEMS**

**SECTION 33 - BRAKES**

**SECTION 35 - HYDRAULIC SYSTEM**

**SECTION 41 - STEERING**

**SECTION 44 - 2WD FRONT AXLE**

**SECTION 55 - ELECTRICAL**

**SECTION 90 - PLATFORM**

---

## SECTION 00 - GENERAL INFORMATION

### Chapter 1 - General Information

#### CONTENTS

Section	Description	Page
00 000	Introduction .....	00-2
	Safety .....	00-3
	Technical Information .....	00-4
	Safety Precautions .....	00-5
	Safety Decals - D35, D40, D45 .....	00-8
	Instruction Decals - D35, D40, D45 .....	00-9
	Safety Decals - DX35, DX40, DX45 .....	00-12
	Instruction Decals - DX35, DX40, DX45 .....	00-13
	International Symbols .....	00-17
	Specifications - D35, D40, D45 .....	00-18
	General Dimensions - D35, D40, D45 .....	00-25
	Specifications - DX35, DX40, DX45 .....	00-31
	General Dimensions - DX35, DX40, DX45 .....	00-37
	Minimum Hardware Tightening Torques .....	00-41
	Special Tools .....	00-43
	Lubricants .....	00-44
00 400	Recommended Lubricants .....	00-44
	Adjustments .....	00-45
	Tire Inflation Pressure - Adjustments .....	00-45
00 100	Pre-Season and Pre-Delivery Checklist .....	00-46

## INTRODUCTION

This repair manual provides the technical information needed to properly service the Case IH D35, DX35, D40, DX40, D45 and DX45 tractors. Use this manual in conjunction with the operator's manual for complete operation, adjustment, and maintenance information.

On Case IH equipment, left and right are determined by standing behind the unit, looking in the direction of travel.

## 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.

---



#### **DANGER**



The word “**DANGER**” denotes a forbidden practice in connection with a serious hazard.

---



#### **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.

---

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

### MACHINE SAFETY

The precautionary statement (“**IMPORTANT**”) is followed by specific instructions. This statement is intended for machine safety.

***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.

## TECHNICAL INFORMATION

### HARDWARE

#### GENERAL

The D35, DX35, D40, DX40, D45 and DX45 tractors have been built using metric hardware.

**NOTE:** *Be sure to use the hardware specified when using tapped holes, as trying to install a metric bolt in an inch thread, or an inch bolt in a metric thread, will damage the thread.*

Certain hardware must be tightened to specific torque specifications. If specific torque specifications are not noted, tighten the hardware to the standard torque chart specification listed in this manual.

#### PLATING

Hardware used on balers is plated with zinc chromate (gold color). Gold colored hardware has different torquing requirements from unplated or zinc plated (silver color) hardware because of the difference in the coefficient of friction of the plating material. The torque charts in this manual list the correct specifications for gold, silver, and unplated bolts.

#### NUT TIGHTENING

Whenever possible, the nut should be tightened, not the head of the bolt. When tightening using the bolt head, the clamp load can be lost because some of the torque applied twists the bolt instead of tensioning (stretching) it. The tension on the bolt is what holds the joint together.

Approximately 90% of the torque applied during assembly goes to overcoming friction between the parts. The other 10% is used to tension (stretch) the bolt. After assembly, the frictional forces disappear, which is the basis for the saying "If it does not fail during assembly, it will not fail in service." The bolt may later fail due to other factors, but not from being over tightened.

#### LOCKNUTS

Most locknuts are coated with a special lubricant that is dry to the touch. Anytime a locknut is used, a lower than normal torque is required. Refer to the torque charts in this manual for specific values.

#### JAM NUTS

When using a jam nut to lock a regular nut, the jam nut should be installed first and tightened to one half the recommended torque, then held in place while installing a regular nut to the recommended torque.

#### THREAD LUBRICATION

The addition of antiseize compound, Molykote, oil, graphite, or any other lubricant to a bolt decreases the friction between it and a nut. This makes it necessary to reduce the recommended torque to prevent over tensioning of the bolt. When using the torque charts in this manual, decrease the value by 20% whenever a lubricant is used.



## SAFETY PRECAUTIONS

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. To help prevent accidents, read and take the following precautions before operating this tractor. Equipment should be operated only by those who are responsible and instructed to do so.

### THE TRACTOR

1. Read the Operator's Manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
2. Use an approved roll bar and seat belt for safe operation. Overturning a tractor without a roll bar can result in death or injury. If your tractor is not equipped with a roll bar and seat belt, see your Case IH Dealer.
3. Always use the seat belt. The only instance when the seat belt should not be used is if the roll bar has been removed from the tractor or folding ROPS is in down position.
4. If a front end loader is to be installed, always use a FOPS (Falling Object Protective Structure) canopy to avoid injury from falling objects.
5. Use the handholds and step plates when getting on and off the tractor to prevent falls. Keep steps and platform cleared of mud and debris.
6. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.
7. Keep all safety decals clean of dirt and grime, and replace all missing, illegible, or damaged safety decals. See the list of decals in the Decal section of this manual.

### SERVICING THE TRACTOR

1. The cooling system operates under pressure which is controlled by the radiator cap. It is dangerous to remove the cap while the system is hot. Always turn the cap slowly to the first stop and allow pressure to escape before removing the cap entirely.
2. Keep any type of open flame away from the tractor and do not smoke while refueling. Wait for the engine to cool before refueling.
3. Keep the tractor and equipment, particularly brakes and steering, maintained in a reliable and

satisfactory condition to ensure your safety and comply with legal requirements.

4. Keep open flame or cold weather starting aids away from the battery to prevent fires or explosions. Use jumper cables according to instructions to prevent sparks which could cause explosion.
5. Stop the engine before performing any service on the tractor.
6. Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injury. If fluid is injected into the skin, obtain medical attention immediately or gangrene may result.
  - DO NOT use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.
  - Stop the engine and relieve pressure before connecting or disconnecting lines.
  - Tighten all connections before starting the engine or pressurizing lines.
7. Do not modify or permit anyone else to modify or alter this tractor or any of its components or functions without first consulting a Case IH Dealer.
8. The 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 other part of the fuel injection system. Failure to follow these instructions can result in serious injury.
9. Continuous long-term contact with used engine oil may cause skin cancer. Avoid prolonged contact with used engine oil. Wash skin promptly with soap and water.
10. Some components of your tractor, such as gaskets and friction surfaces (brake linings, clutch linings, etc.) may contain asbestos. Breathing asbestos dust is dangerous to your health. You are advised to have any maintenance or repair on such components carried out by an authorized Case IH Dealer. However, if service operations are to be undertaken on parts that contain asbestos, the essential precautions listed below must be observed:

- Work out of doors or in a well ventilated area.
- Dust found on the tractor or produced during work on the tractor should be removed by extraction, not by blowing.
- Dust waste should be dampened, placed in a sealed container, and marked to ensure safe disposal.
- If any cutting, drilling, etc. is attempted on materials containing asbestos, the item should be dampened and only hand tools or low speed power tools used.

## OPERATING THE TRACTOR

1. Before starting the tractor, apply the parking brake, place the PTO lever in the "OFF" position, the lift control lever in the down position, the remote control valve levers in the neutral position, and the transmission in neutral.
2. Always sit in the tractor seat when starting the engine or operating controls. Do not start the engine or operate controls while standing beside the tractor.
3. Do not bypass the neutral start switches. Consult your Case IH Dealer if your neutral start controls malfunction. Use jumper cables only in the recommended manner. Improper use can result in tractor runaway.
4. Avoid accidental contact with the gear shift lever while the engine is running, as this can cause unexpected tractor movement.
5. Before getting off the tractor, disengage the PTO, turn the engine off, and apply the parking brake. Never get off the tractor while it is in motion.
6. Do not park the tractor on a steep incline.
7. Do not operate the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes can cause death or illness.
8. If the power steering or engine ceases operating, stop the tractor immediately.
9. Pull only from the drawbar or the lower link drawbar in the down position. Use only a drawbar pin that locks in place. Pulling from the tractor rear axle or any point above the axle may cause the tractor to upset.
10. If the front end of the tractor tends to rise when heavy implements are attached to the three-point hitch, install front end or front wheel weights. Do not operate the tractor with a light front end.

11. Always set the hydraulic selector lever in position control when attaching or transporting equipment. Ensure hydraulic couplers are properly mounted and will disconnect safely in case of accidental detachment of implement.
12. Do not leave equipment in the raised position.
13. Use the flasher/turn signal lights and SMV signs when traveling on public roads both day and night (unless prohibited by law).
14. When operating at night, adjust lights to prevent blinding oncoming drivers.

## DRIVING THE TRACTOR

1. Watch where you are going, especially at row ends, on roads, around trees and low hanging obstacles.
2. To avoid upsets, drive the tractor with care and at a safe speed. Use extra caution when operating over rough ground, when crossing ditches or slopes, and when turning corners.
3. To provide two-wheel braking, lock tractor brake pedals together when transporting on roads.
4. Do not coast or free wheel down hills. Use the same gear when going downhill as is used when going uphill.
5. Any towed vehicle with a total weight exceeding that of the towing tractor should be equipped with brakes for safe operation.
6. If the tractor becomes stuck or the tires become frozen to the ground, back up the tractor to prevent upset.
7. Always check overhead clearance, especially when transporting the tractor.
8. When operating at night, adjust lights to prevent blinding oncoming drivers.

## OPERATING THE PTO

1. When operating PTO driven equipment, shut off the engine and wait until the PTO stops before getting off the tractor and disconnecting the equipment.
2. Do not wear loose clothing when operating the power take-off or when near rotating equipment.
3. When operating stationary PTO driven equipment, always place all gear shift levers in neutral position.

Apply the tractor parking brake, and block the rear wheels front and back.

4. To avoid injury, do not clean, adjust, unclog, or service PTO driven equipment when the tractor engine is running.
5. Ensure the PTO master shield is installed at all times. Always replace the PTO shield cap when the PTO is not in use.

### **DIESEL FUEL**

1. UNDER NO CIRCUMSTANCES should gasoline, alcohol, or blended fuels be added to diesel fuel. These combinations can create an increased fire or explosive hazard. Such blends are more explosive than pure gasoline in a closed container such as a fuel tank. **DO NOT USE THESE BLENDS.**
2. Never remove the fuel cap or refuel with the engine running or hot.
3. Do not smoke while refueling or when standing near fuel.
4. Maintain control of the fuel filler pipe nozzle when filling the tank.
5. Do not fill the fuel tank to capacity. Allow room for expansion.
6. Wipe up spilled fuel immediately.
7. Always tighten the fuel tank cap securely.
8. If the original fuel tank cap is lost, replace it with a Case IH approved cap. A non-approved, proprietary cap may not be safe.

9. Keep equipment clean and properly maintained.
10. Do not drive equipment near open fires.
11. Never use fuel for cleaning purposes.
12. Arrange fuel purchases so that winter grade fuels are not held over and used in the spring.

### **SAFETY FRAME (ROPS)**

Your Case IH tractor is equipped with a safety frame. It must be maintained in a serviceable condition. Be careful when driving through doorways or working in confined spaces with low headroom.

UNDER NO CIRCUMSTANCES should you:

- modify, drill, or alter the safety frame in any way. Doing so may render you liable to legal prosecution.
- attempt to straighten or weld any part of the main frame or retaining brackets which have suffered damage. Doing so may weaken the structure and endanger your safety.
- secure any parts on the main frame or attach your safety frame with anything other than the special high tensile bolts and nuts specified.
- attach chains or ropes to the main frame for pulling purposes.
- take unnecessary risks even though your safety frame affords you the maximum protection possible.



**WHEN YOU SEE THIS SYMBOL**

**IT MEANS:**

**ATTENTION!**

**BECOME ALERT!**

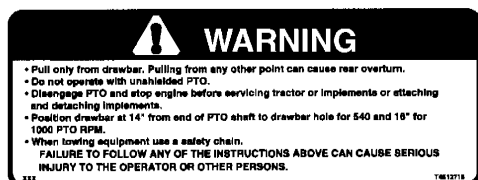
**YOUR SAFETY IS INVOLVED!**



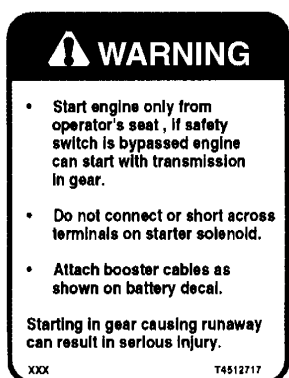
## DECALS - D35, D40, D45

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

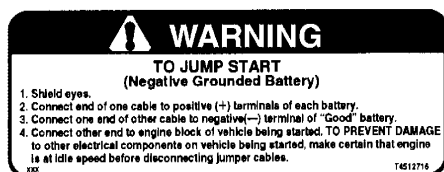
### SAFETY DECALS



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



WARNING: Start Engine  
Only From  
Operator's Seat  
PART NO: 86532906  
LOCATION: On the Starter Motor



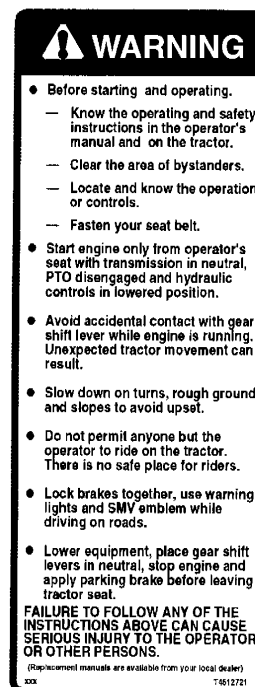
WARNING: To Jump Start  
PART NO: 86532905  
LOCATION: Front of Coolant  
Overflow Tank



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



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



WARNING: Before Starting  
and Operating  
PART NO: 86401125  
LOCATION: Left Console Panel

INSTRUCTION DECALS - D35, D40, D45



Front-Wheel Drive  
Control Lever  
PART NO: 86400177  
LOCATION: Left Fender



Position Control Lever  
PART NO: 86567896  
LOCATION: Right-Hand  
Quadrant



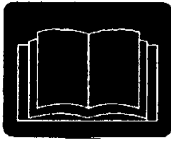
Operating Remote Control  
Valve-Single Spool  
PART NO: 86567895  
LOCATION: Right-Hand  
Fender

PTO Engagement  
PART NO: 86567890  
LOCATION: Left-Hand  
Seat Pan



Range Selector Lever  
(Manual)  
PART NO: 86567891  
LOCATION: Left fender





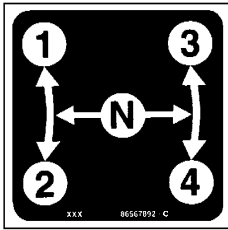
Hyd. Manifold Operation  
(See Operator's Manual)  
PART NO: 86532914  
LOCATION: Right-Hand Side  
of Hyd. Manifold/Air Filter Cap



Starter Switch  
PART NO: 86400175  
LOCATION: Starter Switch,  
Right Side of Instrument Panel



Engine Oil  
PART NO: 86532916  
LOCATION: Engine Oil  
Filler Cap



Main Shift Lever  
PART NO: 86567892  
LOCATION: Top right of dash



Coupler-Extending  
PART NO: 86532920



Coupler-Retracting  
PART NO: 86532919



Coupler-Extending  
PART NO: 86532921

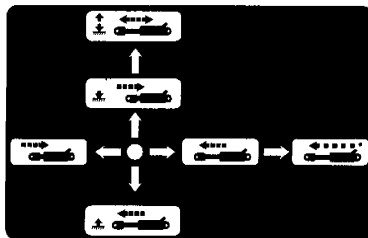


Coupler-Retracting  
PART NO: 86532922

Forward-Reverse Shuttle  
PART NO: 86567887  
LOCATION: Top Left  
of Dash



Power Steering Fluid  
PART NO: 86532903  
LOCATION: Top of P.S.  
Reservoir



Operating Remote  
Control Valve-  
Double Spool  
PART NO: 86532911  
LOCATION: Cover of  
2-Spool Remote Valve

Lubrication and  
Maintenance Intervals  
PART NO: 86400357  
LOCATION: Inside of Hood

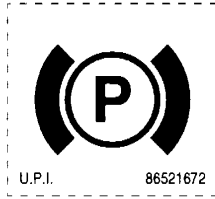
WATCH YOUR PROOF METER HOURS					
Lubrication and maintenance service intervals					
LUBRICATION AND MAINTENANCE ITEM	CHECK	CLEAN	LUBE	CHANGE	SERVICE INTERVAL
Radiator Coolant	•	•	•	•	Every 10 Hours or Daily
Engine Oil level	•	•	•	•	
Air Cleaner	•	•	•	•	
Transmission Oil Level	•	•	•	•	
Power Steering Oil Level	•	•	•	•	
Front Diff Oil Level	•	•	•	•	
Front Axle Oil Level	•	•	•	•	
Tires	•	•	•	•	
Clutch Pedal	•	•	•	•	
Battery	•	•	•	•	
Lubrication Fittings	•	•	•	•	Every 50 Hours
Steering Linkage	•	•	•	•	
2-Wheel Drive King Pins	•	•	•	•	
3-point Linkage	•	•	•	•	
Rear Shaft	•	•	•	•	
Brake Pedal	•	•	•	•	
Drive Shaft Cover	•	•	•	•	
H.S.T. Foot Pedal Shaft	•	•	•	•	
Power Steering	•	•	•	•	
Engine Oil	•	•	•	•	Every 100 Hours
Fuel Filter	•	•	•	•	
Air Cleaner	•	•	•	•	
Engine Oil Filter	•	•	•	•	
Fuel Filter	•	•	•	•	Every 200 Hours
Fan Belt	•	•	•	•	
Brakes	•	•	•	•	
H.S.T. Filter	•	•	•	•	Every 300 Hours
Front Axle Oil	•	•	•	•	
Front Diff Oil	•	•	•	•	
Hydraulic Filter	•	•	•	•	
Transmission Oil	•	•	•	•	
Fuel Injectors	•	•	•	•	Every 600 Hours
Valve Clearance	•	•	•	•	
Front Wheel Bearings	•	•	•	•	
Power Steering Oil	•	•	•	•	
Radiator Coolant	•	•	•	•	Seasonal
Air Cleaner Element	•	•	•	•	

Refer to your Operator's Manual  
for additional information.

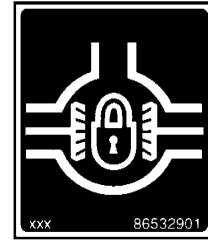
## SECTION 00 - GENERAL INFORMATION



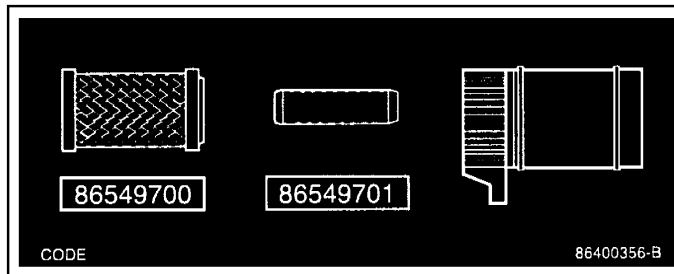
Flow Control Valve  
PART NO: 86400295  
LOCATION:  
Top of Flow Control Knob



Parking Brake  
PART NO: 86521672  
LOCATION: Right Front  
Deck Platform



Differential Lock  
PART NO: 86532901  
LOCATION: Right Rear  
Deck Platform



Air Cleaner Maintenance  
PART NO: 86400356  
LOCATION: Air Cleaner Canister



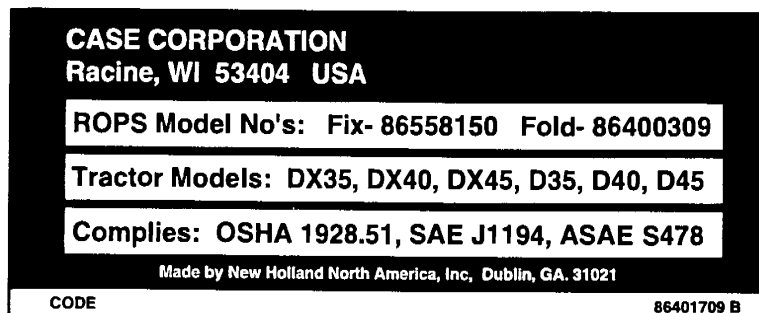
Turn Signal  
PART NO: 86400176  
LOCATION: Top Left Dash



Red Reflective Tape  
PART NO: 86400366  
LOCATION: Back Rear Fender



Throttle  
PART NO: FONN9N848BA  
LOCATION: Top Right Dash

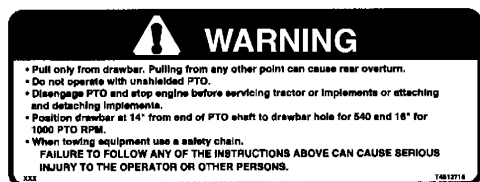


ROPS Certification  
PART NO: 86401709  
LOCATION: Inner Right Upright

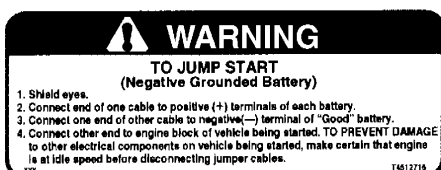
## DECALS - DX35, DX40, DX45

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

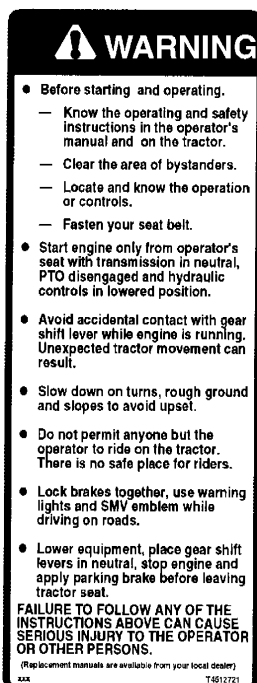
### SAFETY DECALS



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



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



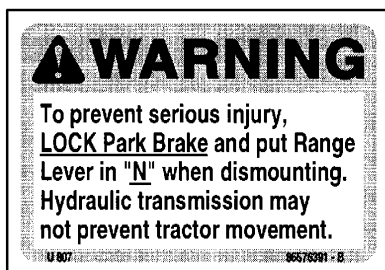
WARNING: Before Starting  
and Operating  
PART NO: 86532909  
LOCATION: Inside Left-Hand Fender



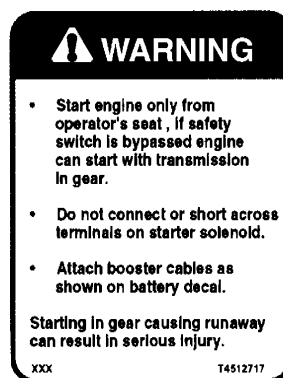
WARNING: Rotating Fan  
and Belts  
PART NO: 86532907  
LOCATION: Both sides of  
Radiator Shroud



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  
PART NO: 86579295  
LOCATION: On Starter Motor

**INSTRUCTION DECALS - DX35, DX40, DX45**

Range Selector  
Lever  
(Hydrostatic)  
PART NO:  
86567894  
LOCATION:  
Left-Hand POD Top

Position Control  
Lever  
PART NO:  
86567896  
LOCATION:  
Right-Hand POD Top

Operating Remote  
Control  
Valve-Single  
Spool  
PART NO:  
86567895  
LOCATION:  
Right-Hand POD Top

PTO Engagement  
PART NO: 86567890  
LOCATION: Left-Hand  
Pod Top



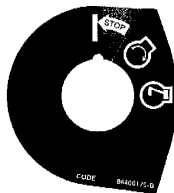
Front-Wheel  
Drive Control  
Lever  
PART NO:  
86400177  
LOCATION:  
Left-Hand POD Top

PTO Control  
Lever (Rear)  
PART NO:  
86400314  
LOCATION:  
Left-Hand POD Top

PTO Control  
Lever (Mid)  
PART NO:  
86400315  
LOCATION:  
Left-Hand POD Top



Differential Lock  
PART NO:  
86532901  
LOCATION: Above  
Pedal Left Side of  
Operator's Platform



Starter Switch  
PART NO:  
86400175  
LOCATION:  
Starter Switch,  
Right Side of  
Instrument Panel



Flow Control Valve  
PART NO:  
86400295  
LOCATION:  
Top of Flow Control  
Knob



Engine Oil  
PART NO:  
86532916  
LOCATION:  
Engine Oil Filler Cap



Hyd. Manifold Operation  
(See Operator's Manual)  
PART NO:  
86532914  
LOCATION:  
Right-Hand Side of Hyd.  
Manifold/Air Filter Cap



Coupler-Extending  
PART NO: 86532920



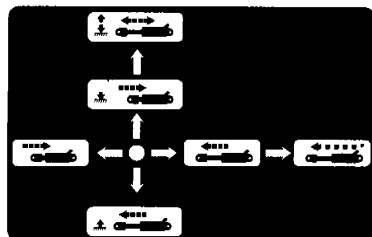
Coupler-Retracting  
PART NO: 86532919



Coupler-Extending  
PART NO: 86532921



Coupler-Retracting  
PART NO: 86532922



Operating Remote  
Control Valve-  
Double Spool  
PART NO:  
86532911  
LOCATION:  
Cover of 2-Spool  
Remote Valve

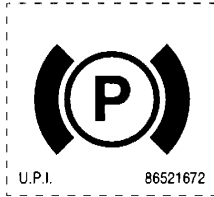


Power Steering Fluid  
PART NO:  
86532903  
LOCATION:  
Top of P.S. Reservoir

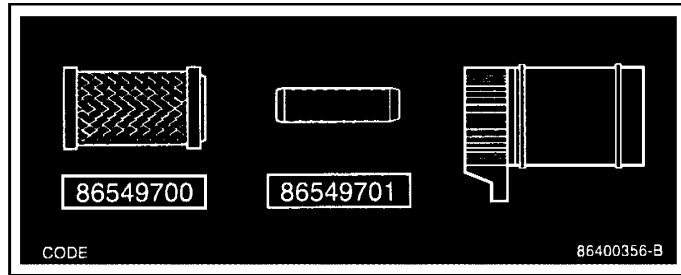
Lubrication and  
Maintenance Intervals  
PART NO:  
86532908  
LOCATION:  
Inside of Hood

WATCH YOUR PROOF METER HOURS				
Lubrication and maintenance service intervals				
LUBRICATION AND MAINTENANCE ITEM	CHECK	CLEAN	CHANGE	SERVICE INTERVAL
Radiator Coolant	*	*	*	Every 10 Hours or Daily
Engine Oil level	*	*	*	
Air Cleaner	*	*	*	
Transmission Oil Level	*	*	*	
Power Steering Oil Level	*	*	*	
Front Diff Oil Level	*	*	*	
Front Axle Oil Level	*	*	*	
Tires	*	*	*	
Clutch Pedal	*	*	*	
Battery	*	*	*	
Lubrication Fittings	*	*	*	Every 50 Hours
Steering Linkage	*	*	*	
2-Wheel Drive King Pins	*	*	*	
3-point Linkage	*	*	*	
Pivot Shaft	*	*	*	
Brake Pedal	*	*	*	
Drive Shaft Cover	*	*	*	
H.B.T. Foot Pedal Shaft	*	*	*	
Power Steering	*	*	*	
Engine Oil	*	*	*	Every 100 Hours
Fuel Filter	*	*	*	
Air Cleaner	*	*	*	
Engine Oil Filter	*	*	*	
Fuel Filter	*	*	*	Every 200 Hours
Fan Belt	*	*	*	
Brakes	*	*	*	
H.B.T. Filter	*	*	*	Every 300 Hours
Front Axle Oil	*	*	*	
Front Diff Oil	*	*	*	
Hydraulic Filter	*	*	*	
Transmission Oil	*	*	*	
Pull Injectors	*	*	*	Every 600 Hours
Valve Clearance	*	*	*	
Front Wheel Bearings	*	*	*	
Power Steering Oil	*	*	*	
Radiator Coolant	*	*	*	Seasonal
Air Cleaner Element	*	*	*	

Refer to your Operator's Manual  
for additional information.



Parking Brake  
PART NO: 86521672  
LOCATION: Left Side  
Seat Platform



Air Cleaner Maintenance  
PART NO: 86400356  
LOCATION: Air Cleaner Canister



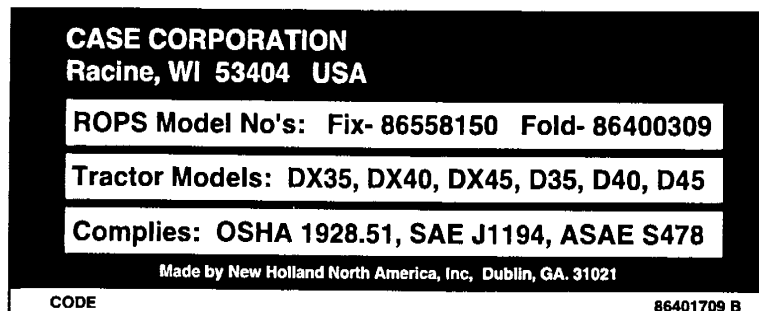
Turn Signal  
PART NO: 86400176  
LOCATION: Top Left Dash



Red Reflective Tape  
PART NO: 86400366  
LOCATION: Back Rear Fender



Throttle  
PART NO: FONN9N848BA  
LOCATION: Top Right Dash



ROPS Certification  
PART NO: 86401709  
LOCATION: Inner Right Upright



**PLEASE READ CAREFULLY:**

For a complete list of the pre-delivery service checks performed by your dealer, refer to the PRE-DELIVERY SERVICE checklist found at the back of this section.

A PRODUCT IDENTIFICATION PLATE is located on the *left-hand side of the transmission housing*. The numbers on the plate are important in the event your tractor should require future service. For your convenience, have your dealer record these numbers in the appropriate spaces below.

Case IH is continually striving to improve its products. We reserve the right to change prices, specification, or equipment at any time without notice.

All data given in this book is subject to production variations. Dimensions and weights are approximate only, and the illustrations do not necessarily depict tractors in standard condition. For exact information about any particular tractor, please consult your Case IH dealer.

<b>CASE CORPORATION</b>		<b>CASE IH</b>
● <b>Racine, Wisconsin</b>		●
<b>PRODUCT IDENTIFICATION NUMBER</b>		
<input type="text"/>		
<b>ENGINE</b>	<b>UNIT</b>	
<input type="text"/>	<input type="text"/>	
<b>TRANSMISSION</b>	<b>MODEL</b>	
<input type="text"/>	<input type="text"/>	
<input type="text"/>		
CE	<b>MADE IN U.S.A.</b>	

## INTERNATIONAL SYMBOLS

As a guide to the operation of your tractor, various international symbols have been used on instruments and controls. These symbols are depicted and described below.

	Engine Speed		Low Range		Battery
	Hours Recorded		Neutral		Power Take-off (ON)
	Engine Water Temperature		Diesel Fuel		Power Take-off (OFF)
	Air Filter		Glow		"Tortoise" - SLOW or Minimum Setting
	Engine Oil Pressure		Engine Stop		"Hare" - FAST or Maximum Setting
	Hazard Warning		Engine Oil		Warning
	Axle Connect		Parking Brake		Control Lever Operating Direction
	Axle Disconnect		Lights (Upper Beam)		Lift Arms (Raised)
	Continuously Variable		Lights (Lower Beam)		Lift Arms (Lowered)
	Increase		Lock		Remote Cylinder (Float)
	Decrease		Release Lock		Remote Cylinder (Retracted)
	Fuel Level		Up		Remote Cylinder (Extended)
	High Range		Down		Forward
	Middle Range		Differential Lock		Warning! Contains Asbestos
			Read Operator's Manual		

## SPECIFICATIONS - D35, D40, D45

	Model D35	Model D40	Model D45
<b>ENGINE</b>			
Type/Model .....	Diesel/N843L	Diesel/N844	Diesel/N844L
Engine Gross Horsepower ..	26.1 kw (35.0)	29.8 kw (40.0)	33.6 kw (45)
Cylinders .....	3	4	4
Bore .....	84 mm (3.31")	84 mm (3.31")	84 mm (3.31")
Stroke .....	100 mm (3.94")	90 mm (3.54")	100 mm (3.94")
Displacement .....	1.65 L (101.1 cu. in.)	2.0 L (121.7 cu. in.)	2.2 L (135.2 cu. in.)
Compression Ratio .....	22.5:1	22.5:1	22.5:1
Firing Order .....	1-2-3	1-3-4-2	1-3-4-2
Low Idle Speed .....	1025 ±50 RPM	1025 ±50 RPM	1025 ±50 RPM
Maximum Speed:			
High Idle .....	2855 RPM	2855 RPM	2855 RPM
Rated .....	2600 RPM	2600 RPM	2600 RPM
<b>CAPACITIES</b>			
Fuel Tank .....	54.5 liters/ 13 U.S. gals.	54.5 liters/ 13 U.S. gals.	54.5 liters/ 13 U.S. gals.
Cooling System .....	7.4 liters/ 7.8 U.S. qts.	7.9 liters/ 8.3 U.S. qts.	8.0 liters/ 8.4 U.S. qts.
Engine Crankcase:			
With Filter .....	5.8 liters/ 6.1 U.S. qts.	6.0 liters/ 6.3 U.S. qts.	6.0 liters/ 6.3 U.S. qts.
Rear Axle & Transmission (Includes Hydraulics) .....	36 liters/ 9.2 U.S. gals.	36 liters/ 9.2 U.S. gals.	36 liters/ 9.2 U.S. gals.
Power Steering .....	1.4 liters/ 1.5 U.S. qts.	1.4 liters/ 1.5 U.S. qts.	1.4 liters/ 1.5 U.S. qts.
Front Axle Final Reduction ... /Differential Gear Case	5.3 liters/ 5.6 U.S. qts.	5.3 liters/ 5.6 U.S. qts.	5.3 liters/ 5.6 U.S. qts.

	Model D35—	Model D40—	Model D45—
<b>COOLING SYSTEM</b>			
Type .....	Pressurized Liquid with Recirculating Bypass	Pressurized Liquid with Recirculating Bypass	Pressurized Liquid with Recirculating Bypass
Water Pump:			
Type .....	Centrifugal	Centrifugal	Centrifugal
Drive .....	V-Belt	V-Belt	V-Belt
Belt			
Deflection .....	10 mm-15 mm (7/16"-9/16") when 9-11 kg (20-25 lbs.) thumb pressure is applied midway between belt pulleys	10 mm-15 mm (7/16"-9/16") when 9-11 kg (20-25 lbs.) thumb pressure is applied midway between belt pulleys	10 mm-15 mm (7/16"-9/16") when 9-11 kg (20-25 lbs.) thumb pressure is applied midway between belt pulleys
Fan Diameter .....	410 mm (16.1")	410 mm (16.1")	410 mm (16.1")
Number of Fan Blades ....	6	6	6
Thermostat:			
Start to Open .....	71°C (160°F)	71°C (160°F)	71°C (160°F)
Fully Open .....	85°C (185°F)	85°C (185°F)	85°C (185°F)
Radiator Cap .....	0.9 bar (13 PSI)	0.9 bar (13 PSI)	0.9 bar (13 PSI)
<b>ELECTRICAL SYSTEM</b>			
Main System Protection ....	40 amp Maxifuse	40 amp Maxifuse	40 amp Maxifuse
Number Fuses for Circuit Protection .....	7	7	7
Alternator .....	12-volt, Heavy Duty, 40 amps	12-volt, Heavy Duty, 40 amps	12-volt, Heavy Duty, 40 amps
Battery Type .....	12-volt, w/ negative ground, 600 cca	12-volt, w/ negative ground, 600 cca	12-volt, w/ negative ground, 600 cca
Starter HP (KW) Rating .....	2.7 (2.0)	2.7 (2.0)	2.7 (2.0)
Battery Rating Amp Hrs. ....	64-69	64-69	64-69
Starting Motor .....	Solenoid Pre-Engaged Reduction	Solenoid Pre-Engaged Reduction	Solenoid Pre-Engaged Reduction
<b>FUEL SYSTEM</b>			
Fuel Type .....	Diesel	Diesel	Diesel
Type of Fuel to Use if Above 40°F .....	No. 2-Diesel, Cetane Rating: Minimum 40	No. 2-Diesel, Cetane Rating: Minimum 40	No. 2-Diesel, Cetane Rating: Minimum 40
Type of Fuel to Use if Below 40°F .....	No. 1-Diesel, Cetane Rating: Minimum 40	No. 1-Diesel, Cetane Rating: Minimum 40	No. 1-Diesel, Cetane Rating: Minimum 40
Injection Pump:			
Type .....	In-Line	In-Line	In-Line
Timing .....	18° BTDC	20° BTDC	18° BTDC

Thanks for your reading.

Please [click here](#) to download complete manual instantly.

And can also choose other manuals.

Feel free ---> write to me with any questions.

Our service email:

[manuals007@hotmail.com](mailto:manuals007@hotmail.com)