DX21, DX24

Tractors

SERVICE MANUAL

87055743

CASE IH AGRICULTURE

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DX21, DX24
REPAIR MANUAL
COMPLETE CONTENTS

SECTION 00 - GENERAL INFORMATION 2

SECTION 10 - ENGINE SYSTEMS 3

SECTION 18 - SINGLE CLUTCH 10

SECTION 21 - TRANSMISSION SYSTEMS 11

SECTION 25 - FRONT AXLE - FRONT WHEEL DRIVE 13

SECTION 27 - DIFFERENTIAL AND REAR AXLE 14

SECTION 29 - HYDROSTATIC TRANSMISSION 15

SECTION 31 - POWER TAKE-OFF SYSTEMS 19

SECTION 33 - BRAKES 20

SECTION 35 - HYDRAULIC SYSTEM 21

SECTION 41 - POWER STEERING SYSTEM 24

SECTION 44 - WHEELS AND TIRES 26

SECTION 55 - ELECTRICAL SYSTEM 26

SECTION 90 - PLATFORM 32

The following pages are the collation of the contents pages from each section and chapter of the DX21 and DX24 Repair manual. Complete Repair part # 87055743.

The sections used through out all Case IH product Repair manuals may not be used for each product. Each Repair manual will be made up of one or several books. Each book will be labeled as to which sections are in the overall Repair manual and which sections are in each book.

The sections listed above are the sections utilized for the DX21 and DX24 Tractors.

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SECTION 00 - GENERAL INFORMATION

BOOK 1 - 87055744

Chapter 1 - General Information

CONTENTS

Section	Description	Page
	Introduction	2
	Precautionary Statements	3
	Safety	4
	The Tractor	4
	Servicing the Tractor	4
	Operating the Tractor	5
	Driving the Tractor	5
	Operating the PTO	6
	Diesel Fuel	6
	Safety Frame (ROPS)	6
	Safety Decals	7
	Instruction Decals	9
	Product Identification Plate	13
	International Symbols	14
	Specifications	15
	General Dimensions	20
	Minimum Hardware Tightening Torques	23
	Lubricants	25
	Adjustments	26

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SECTION 10 - ENGINE SYSTEMS

BOOK 1 - 87055744

Chapter 1 - Engine Systems

CONTENTS

Section	Description	Page
	Description and Operation – General Information	6
	Identification Chart	6
	Cylinder Head and Valve Train Components	6
	Cylinder Block Assembly	7
	Overhaul – Engine	8
	Engine Preparation	8
	Disassembly	8
	Fuel Injector and Glow Plug	10
	Removal	10
	Oil Pressure Switch	10
	Removal	10
	Temperature Sending Switch and Alternator	11
	Removal	11
	Fan, Water Pump, and External Oil Tube	11
	Removal	11
	Valve Cover	11
	Removal	11
	Rocker Shaft and Push Rod	12
	Removal	12
	Cylinder Head	12
	Removal	12
	Valve Tappet	12
	Removal	12
	Fuel Shut-off Solenoid	13
	Removal	13
	Engine Timing Gear Cover	13
	Removal	13
	Timing Gears and Camshaft	15
	Removal	15
	Oil Sump	15
	Removal	15

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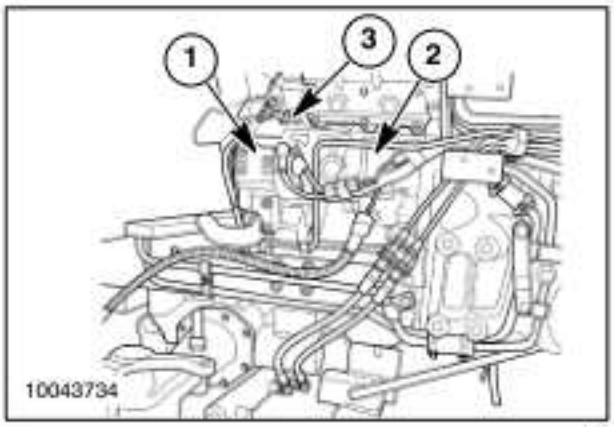
CYLINDER BLOCK		
Tractor Model	**DX21**	**DX24**
Bore		
Standard	77.0 - 77.019 mm (3.031 - 3.032 in.)	77.0 - 77.019 mm (3.031 - 3.032 in.)
Maximum	77.2 mm (3.039 in.)	77.2 mm (3.039 in.)
Head Surface Warp		
Standard	0.05 mm (0.002 in.)	0.05 mm (0.002 in.)
Maximum	0.12 mm (0.005 in.)	0.12 mm (0.005 in.)

*DX21 and DX24 - If bore size exceeds 77.2 mm (3.04 in.) replace the long block.

PISTON		
Tractor Model	**DX21**	**DX24**
Diameter		
Standard	76.9325 - 76.9475 mm (3.029 - 3.0294 in.)	76.9325 - 76.9475 mm (3.029 - 3.0294 in.)
Minimum	76.7 (3.021 in.)	76.7 (3.021 in.)
Bore Clearance		
Standard	0.0425 - 0.0765 mm (0.0017 - 0.003 in.)	0.0425 - 0.0765 mm (0.0017 - 0.003 in.)
Maximum	0.25 mm (0.010 in.)	0.25 mm (0.010 in.)
Wrist Pin Bore		
Standard	20.998 - 21.004 mm (0.8267 - 0.8269 in.)	20.998 - 21.004 mm (0.8267 - 0.8269 in.)
Maximum	21.016 mm (0.827 in.)	21.016 mm (0.827 in.)
Wrist Pin Diameter		
Standard	20.998 - 21.002 mm (0.8267 - 0.8268 in.)	20.998 - 21.002 mm (0.8267 - 0.8268 in.)
Minimum	20.98 mm (0.826 in.)	20.98 mm (0.826 in.)
Wrist Pin Clearance		
Standard	0.0 - 0.006 mm (0.0 - 0.0002 in.)	0.0 - 0.006 mm (0.0 - 0.0002 in.)
Maximum	0.02 mm (0.00078 in.)	0.02 mm (0.00078 in.)

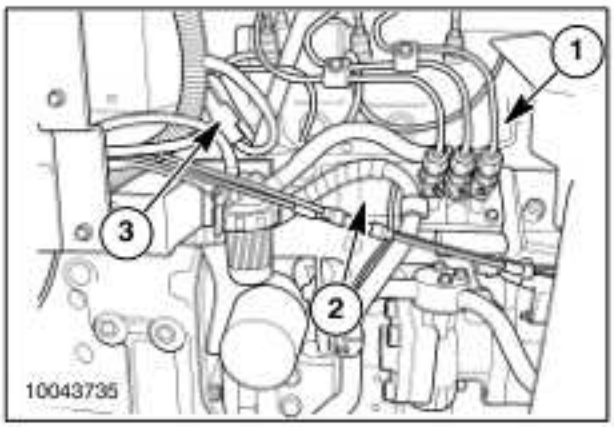
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20. Disconnect the wiring harness from the alternator, 1, starter, 2, temperature sending unit, 3.



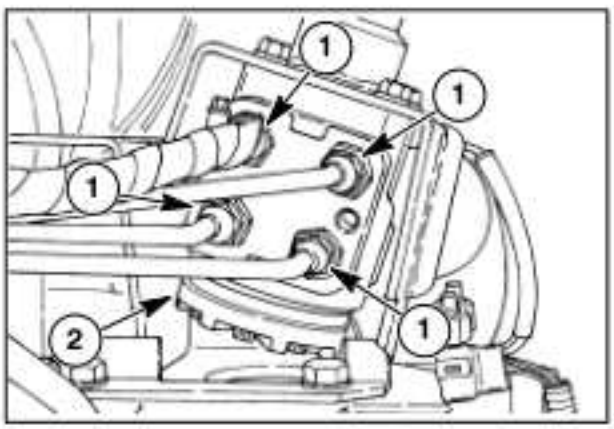
19

21. Disconnect the wiring harness from the engine oil pressure switch, 1, engine stop solenoid, 2 and disconnect the connector for the glow plug, 3. Remove the front wiring harness from the firewall.



20

22. Remove the power steering oil pipes, 1, from the power steering control valve, 2.



21

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TROUBLESHOOTING SAFE OPERATION CIRCUIT (OPERATOR NOT PRESENT) REAR PTO ENGAGED GEAR TRANSMISSION		
CONDITION	**POSSIBLE CAUSE**	**REMEDY**
Engine does not continue to run while operator is NOT seated with transmission in neutral, parking brake engaged and mid PTO(s) in the "OFF" position and rear PTO engaged	Defective transmission, parking brake or PTO safety switches	Test switch and replace if necessary
	Blown 40 amp main fuse	Inspect and replace main fuse as necessary
	Blown 15 amp fuse	Inspect and replace 15 amp fuse as necessary
	Malfunctioning safety controller	Inspect controller and replace as necessary
	Malfunctioning fuel shutoff solenoid	Test fuel shutoff solenoid and replace as necessary
	Open wiring in safe operation circuit	Check for loose connectors, grounds, and wiring damage

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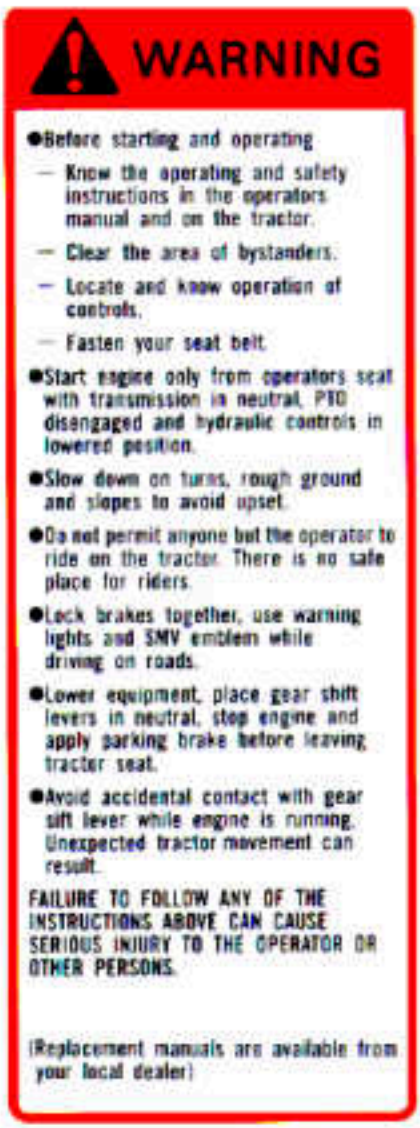
SAFETY DECALS

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

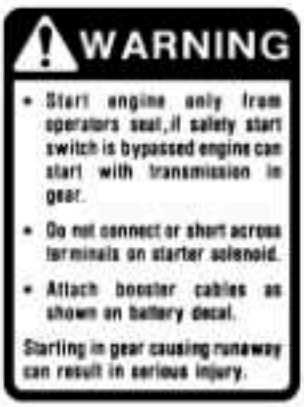


WARNING: Pull Only From Drawbar
PART NO: SBA390194661
LOCATION: On Back of Toolbox





WARNING: Do Not Operate With Shield Removed
PART NO: SBA390198480
LOCATION: Inside of Engine Side Shields



WARNING: Start Engine Only from Operator's Seat
PART NO: SBA190196682
LOCATION: On the Starting Motor

WARNING: Before Starting and Operating
PART NO: SBA390198380
LOCATION: Front of L.H. Fender

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