DX23, DX26

Tractors

SERVICE MANUAL

87367148

CASE IH AGRICULTURE

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DX23, DX26
REPAIR MANUAL
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The following pages are the collation of the contents pages from each section and chapter of the DX23, DX26 Repair manual. Complete Repair part # 87367148.

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 DX23, DX26 Tractors.

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SECTION 00 - GENERAL INFORMATION

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Chapter 1 - General Information

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Chapter 1 - Engine Systems

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PUSH RODS		
Tractor Model	**DX23**	**DX26**
Length	157 mm (6.18 in.)	174.3 mm (6.86 in.)
Diameter	6.3 mm (0.248 in.)	6.3 mm (0.248 in.)

ROCKER ARMS		
Tractor Model	**DX23**	**DX26**
Shaft Diameter		
Standard	11.65 - 11.67 mm (0.458 - 0.459 in.)	11.65 - 11.67 mm (0.458 - 0.459 in.)
Minimum	11.57 mm (0.456 in.)	11.57 mm (0.456 in.)
Shaft-to-Rocker Clearance		
Standard	0.032 - 0.068 mm (0.001 - 0.003 in.)	0.032 - 0.068 mm (0.001 - 0.003 in.)
Maximum	0.2 mm (0.008 in.)	0.2 mm (0.008 in.)

LUBRICATION SYSTEM		
Tractor Model	**DX23**	**DX26**
Pressure Relief Valve Opening Pressure	3.43 - 4.41 bar (49.8 - 63.7 psi)	3.43 - 4.41 bar (49.8 - 63.7 psi)
Rotor-to-Vane Clearance		
Standard	0.1 - 0.15 mm (0.004 - 0.006 in.)	0.1 - 0.15 mm (0.004 - 0.006 in.)
Maximum	0.25 mm (0.010 in.)	0.25 mm (0.010 in.)
Rotor-to-Cover Clearance		
Standard	0.1 - 0.15 mm (0.004 - 0.006 in.)	0.1 - 0.15 mm (0.004 - 0.006 in.)
Maximum	0.20 mm (0.008 in.)	0.20 mm (0.008 in.)
Crankcase Capacity	3.0 liters (3.2 US qts.) less oil filter 3.3 liters (3.5 US qts.) with oil filter	3.0 liters (3.2 US qts.) less oil filter 3.3 liters (3.5 US qts.) with oil filter

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TROUBLESHOOTING SAFE OPERATION CIRCUIT (OPERATOR NOT PRESENT PTO(S) ENGAGED) GEAR TRANSMISSION		
CONDITION	**POSSIBLE CAUSE**	**REMEDY**
Engine does not continue to run while operator is NOT seated with range gears in neutral, parking brake engaged, rear and mid PTO(s) in the "OFF" position	Defective transmission or PTO safety switches	Test switch and replace if necessary
	Blown 40-amp slow blow 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

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, and mid PTO(s) in the "OFF" position and rear PTO engaged	Defective transmission or PTO safety switches	Test switch and replace if necessary
	Blown 40-amp slow blow fuse	Inspect and replace 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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ALTERNATOR TROUBLESHOOTING

NO CHARGING

FAULT LOCATION	POSSIBLE CAUSE	CORRECTION
Wiring	Loose connection, short circuit	Repair
Alternator	Loose connection, no ground, short circuit	Repair or replace
	Defective rectifier	Replace
	Loose connection on RF resistor	Replace
Regulator	Defective regulator	Replace
	Loose connection of alternator or regulator	Repair or replace

INSUFFICIENT CHARGING

FAULT LOCATION	POSSIBLE CAUSE	CORRECTION
Wiring	Loose connection or short circuit	Repair
Alternator	Loose drive belt	Repair
	Short in rotor coil	Replace
	Short in stator coil	Replace
	Defective rectifier	Replace
	Insufficient brush contact	Repair or replace
Regulator	Defective regulator	Replace
	Loose connection of alternator and regulator	Repair
Battery	Defective battery	Replace

OVERCHARGE

FAULT LOCATION	POSSIBLE CAUSE	CORRECTION
Battery	Internal short	Replace
Regulator	Defective regulator	Replace

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