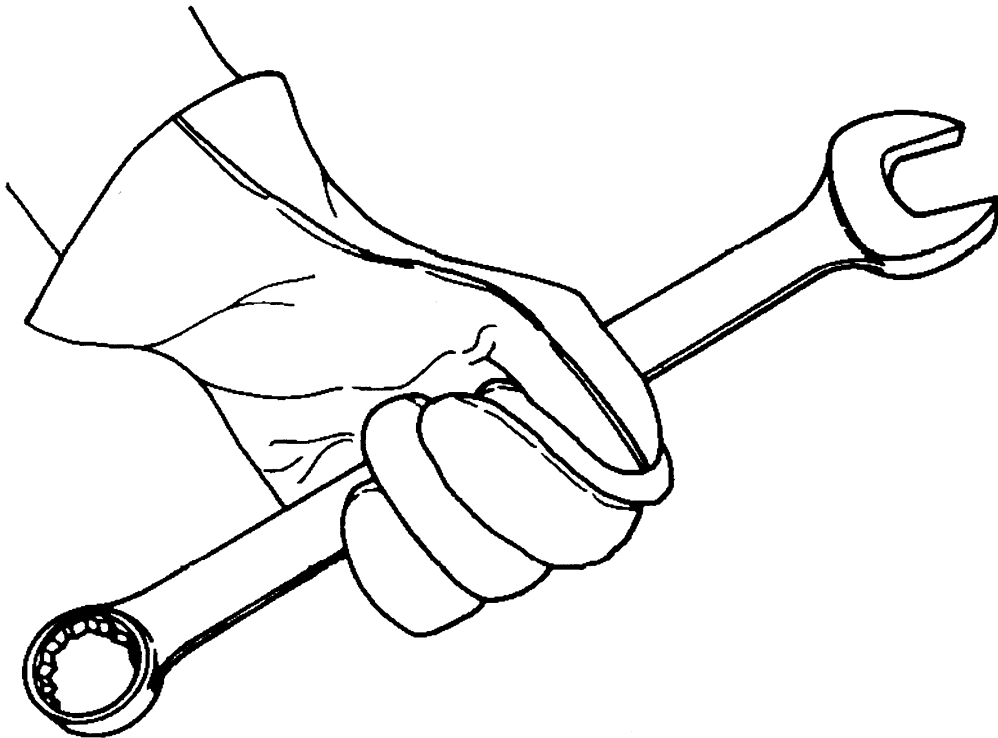




HYDRAULIC PUMP

COMPONENT REPAIR MANUAL



MELROE
INGERSOLL-RAND

6570268 (3-86)



bobcat
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INTRODUCTION

Melroe recommends that all service technicians attend either field or factory Bobcat Service Workshops for necessary information and education.

Workshops are held many times a year at various locations throughout the U.S. and Canada. Contact your District Service Manager or Melroe Service Office Gwinner, N.D. (701) 678-6165 for schedule.

This Component Repair Manual provides the Service Technician with information for servicing Hydraulic Pumps.

Make reference to the SERVICE MANUAL for your MODEL Loader to troubleshoot, test, remove and install the hydraulic pump.

See the INDEX Page to find your MODEL Loader, S/N listing, Tab #.

SAFETY INSTRUCTIONS

We Care About Your Safety.



! WARNING

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

W-2019-1285

BEFORE YOU WORK ON THE HYDRAULIC PUMP

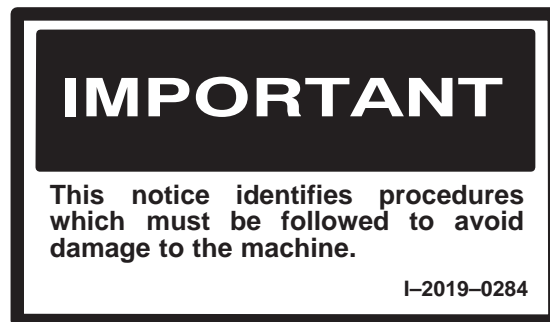
Read the complete sequence so you know the complete disassembly or assembly procedure before the work is actually started.



! WARNING

Warnings on the machine and in the manuals are for your safety. Failure to obey warnings can cause injury or death.

W-2044-1285



IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the machine.

I-2019-0284

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MODELS	S/N	TAB	SECTION	MANUFACTURE
farmboy, 440, 443	All	1	A	Cessna
530, 533	All	2	A	Vickers
540, 543	11999 & Below	2	A	Vickers
540, 543	12001 & Above	1	A	Cessna
630, 631, 632	All	2	A	Vickers
641, 642, 643	All	2	A	Vickers
720, 721, 722	All	2	A	Vickers
730, 731, 732	All	2	A	Vickers
741, 742, 743	All	2	A	Vickers
750 Series	All	4	A	Sundstrand
825	All	1	B	Cessna
843	12999 & Below	1	B	Cessna
843	13001 & Above	1	C	Cessna
943, 3022 & 3023 Charge Pump	All	1	D	Cessna
943 Implement Pump	All	1	E	Cessna
974	12818 & Above	3	A	Tyrone
975	12639 & Above	3	A	Tyrone
1213	All	1	C	Cessna
1600	11999 & Below	2	B	Vickers
1600	12001 & Above	3	B	Tyrone
2000	All	2	B	Vickers
2400	All	1	C	Cessna
T116	All	1	F	Cessna
T135 & T136	All	1	G	Cessna
Glossary of Terms	TAB #5			

CESSNA PUMP

PARTS IDENTIFICATION

MODEL: farmboy, 440, 443

540, 543 (S/N 12001 & Above)A-1

HYDRAULIC PUMP

Disassembly and AssemblyA-2

InspectionA-3

<https://www.ebooklibonline.com>

Hello dear friend!

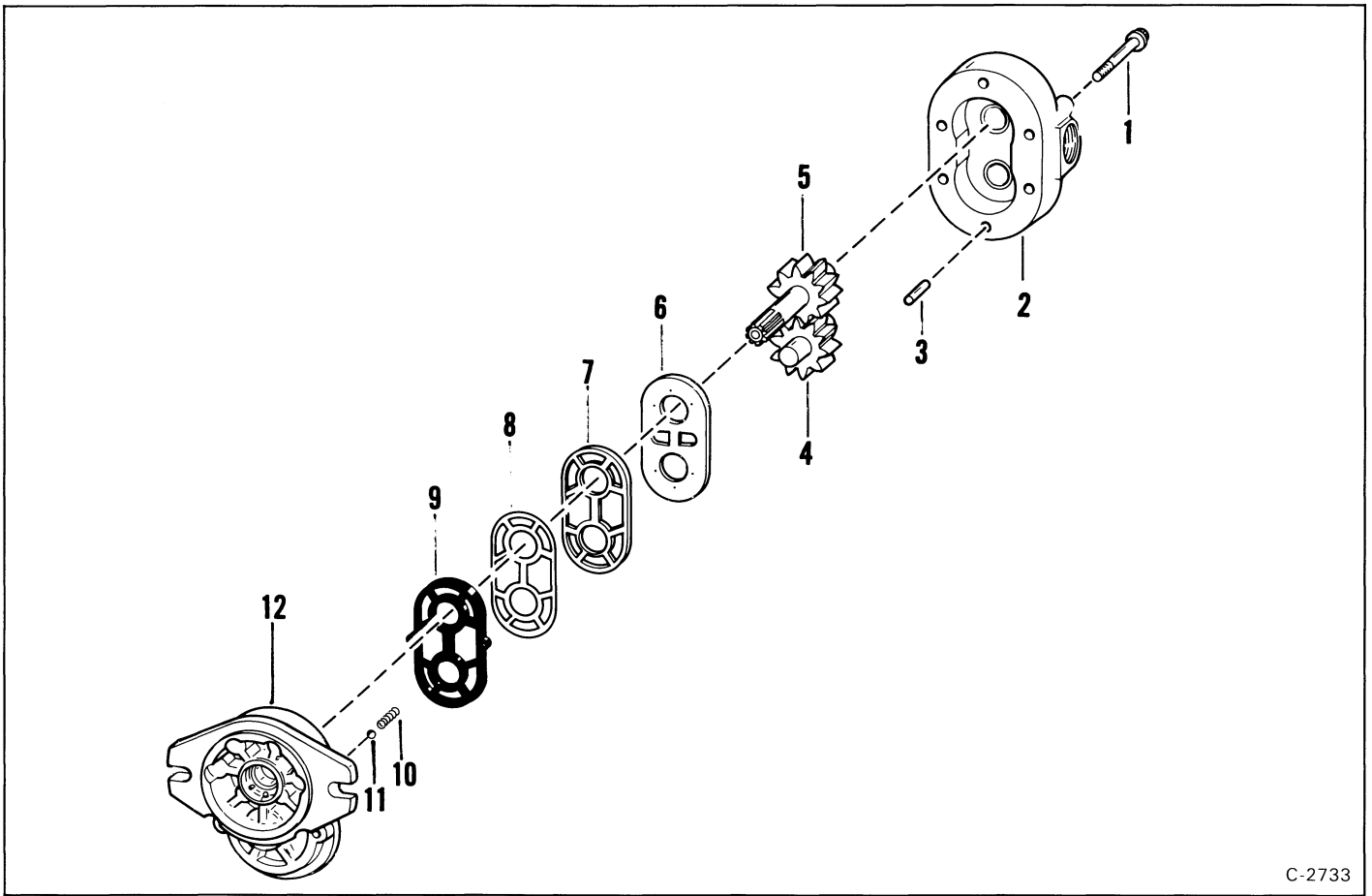
Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

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PARTS IDENTIFICATION



C-2733

**MODEL: farmboy, 440, 443
540, 543 (S/N 12001 & Above)**

Ref.	Description
1.	BOLT
2.	HOUSING
3.	PIN, dowel
4.	GEAR, idler
5.	GEAR, drive
6.	PLATE, wear
7.	DIAPHRAGM
8.	GASKET
9.	SEAL
10.	SPRING
11.	BALL
12.	PLATE, front

	farmboy, 440, 443	540, 543
Rotation	L.H.	R.H.
Cu. In.	0.72	0.61

HYDRAULIC PUMP

Disassembly and Assembly

IMPORTANT

When making repairs on hydrostatic and hydraulic systems, clean the work area before disassembly and keep all parts clean. Always use caps and plugs on hoses, tubelines and ports to keep dirt out. Dirt can quickly damage the system.

I-2003-0284

Put the hydraulic pump in the vise.

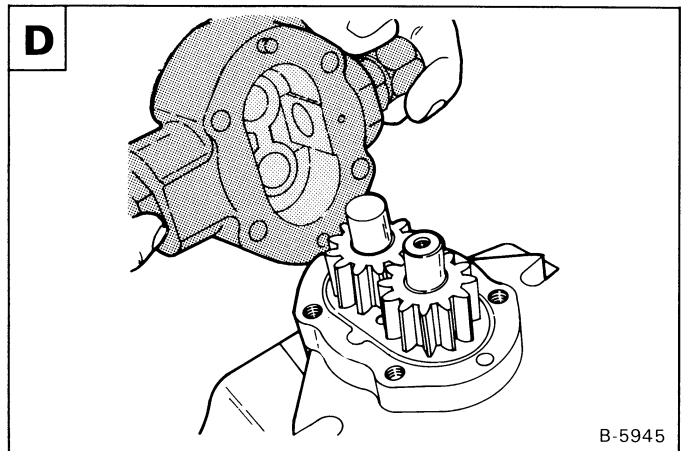
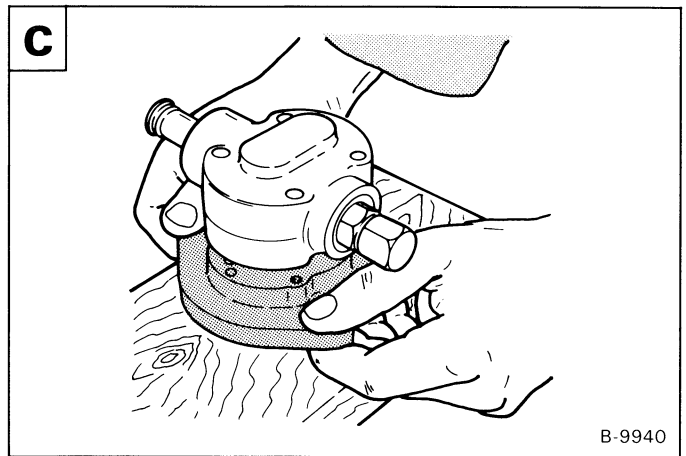
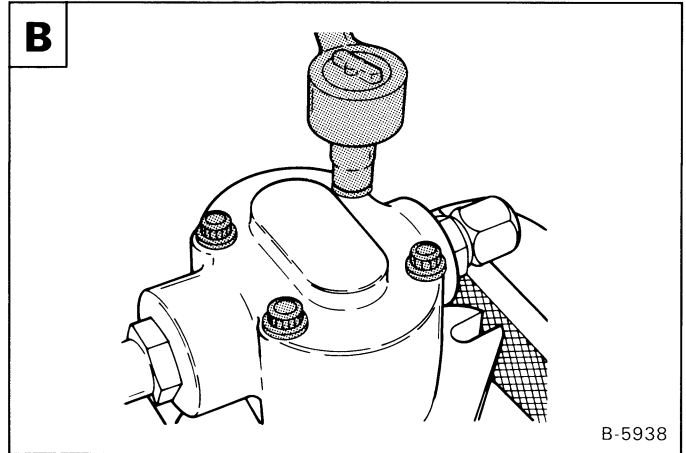
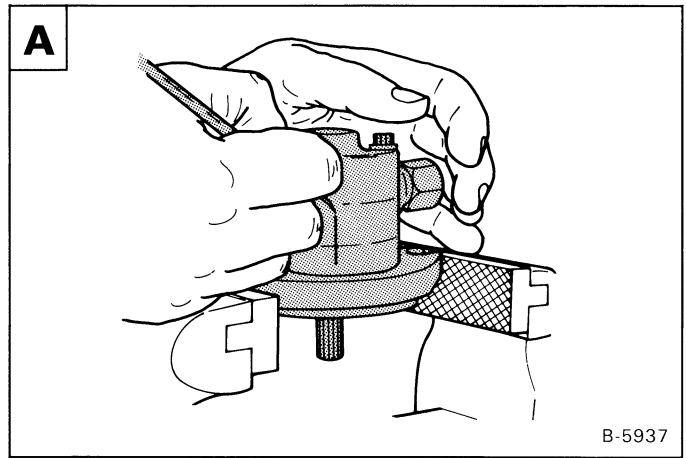
Put a mark across the housing of the pump for correct assembly **A**.

Remove the four bolts from the pump **B**.

Assemble: Tighten the bolts to 25-28 ft.lbs. (33-38 Nm) torque.

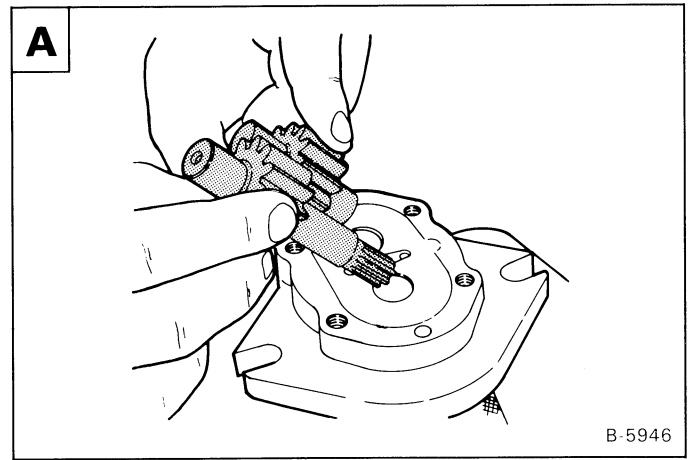
Remove the pump from the vise. Hold the pump in both hands and hit the shaft against a block of wood to separate the pump housing **C**.

Remove the housing from the end of the pump **D**.



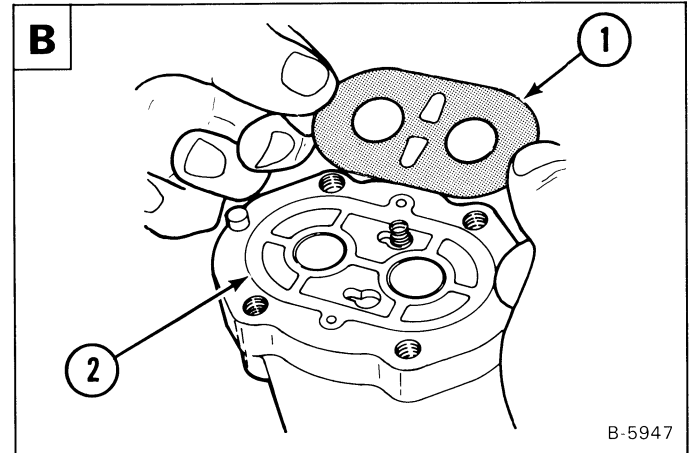
HYDRAULIC PUMP (Cont'd)

Remove the pump gears **A**.



Remove the diaphragm (Item 1) **B**.

Remove the gaskets and seal from the pump housing (Item 2) **B**.



Remove the spring and steel ball from the pump housing **C**.

NOTE: Make sure to mark the port where the spring and ball are removed from for correct installation when assembling the pump. There can not be a direct pressure port connected to the seal area on the pressure side of the pump.

Assembly: Always use new O-rings, gaskets and seals when assembling the hydraulic pump.

Inspection

Clean and dry all the parts.

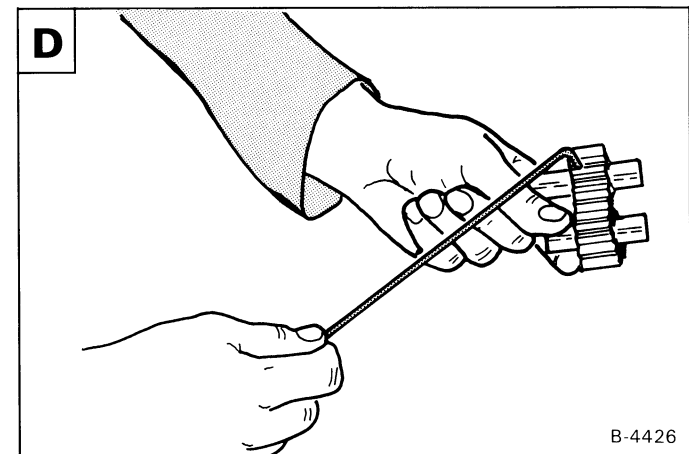
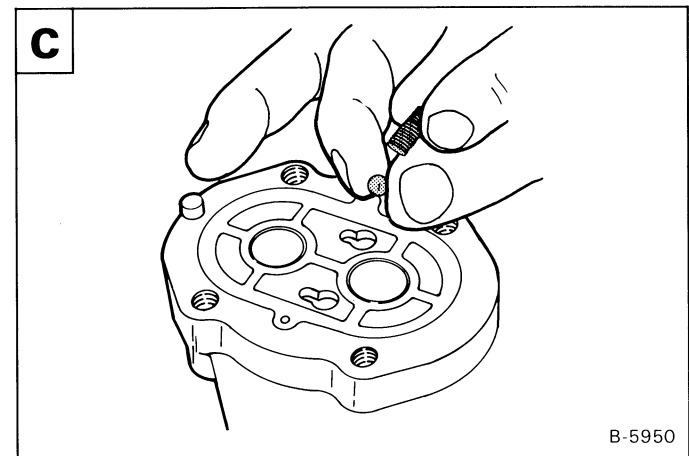
Inspect the gears as follows:

1. Inspect both the drive and idler gear shafts at the bearing points and seal area for rough surfaces and wear.
2. Check the face of the gears for wear.

Check for wear on the face of the wear plate. If the wear is more than 0.0015" (0,038 mm) from one side to the other, the plate must be replaced.

Check the housing in the gear area for wear.

Replace the parts as needed.





Suggest:

If the above button click is invalid.

Please download this document

first, and then click the above link

to download the complete manual.

Thank you so much for reading

CESSNA PUMP

PARTS IDENTIFICATION

MODEL: 825	B-1
MODEL: 843 (S/N 12999 & Below)	
PUMP MODEL: #24307 RCA	
#25306 RAC	B-2

HYDRAULIC PUMP

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Section B

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