

# Bobcat 319 Compact Excavator Service Repair Workshop Manual 563311001



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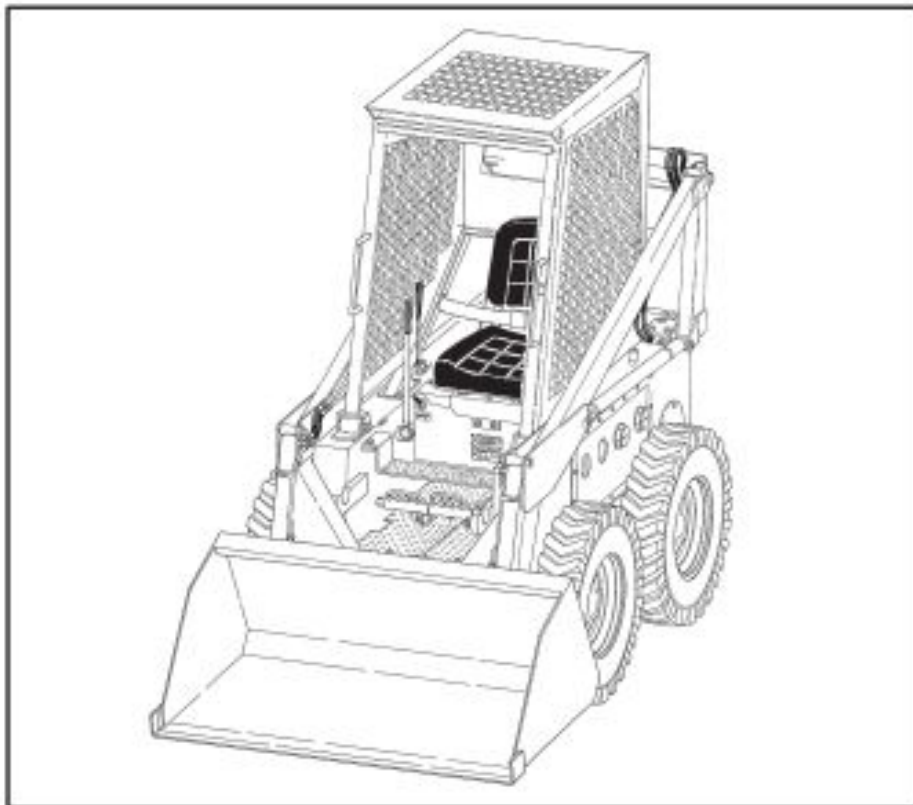
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# Service Manual



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**MELROE  
INGERSOLL-RAND**

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# FOREWORD

This manual provides instruction for proper routine servicing and adjustment of the Bobcat, and detailed overhaul instructions of the power train, loader hydraulic/hydrostatic system and general mainframe components.

Refer to the Owner's Manual for general operating instructions (Starting Procedure, Daily Check, Bucket Operation, Minor Maintenance, etc.).

A general inspection of the following items should be made whenever the machine has undergone service or repair:

1. Check hydraulic fluid level, engine oil level and fuel supply.
2. Inspect for any sign of fuel, oil or hydraulic fluid leaks.
3. Lubricate the machine.
4. Check battery condition, electrolyte level and cables.
5. Inspect air cleaner system for damage or leaks. Check element and make replacement, if necessary.
6. Check alternator drive belt for condition and tension.
7. Check for loose drive chains by lifting the rear of the machine and turning the rear wheels by hand.
8. Check tires for wear and pressure.
9. Check the Bob-Tach attachment for condition. Inspect the wedges for damage or wear.
10. Inspect safety items for condition (ROPS Guard, Seat Belt, Safety Treads, Lights, etc.).
11. Make a visual inspection for loose or broken parts or connections.
12. Operate the loader, checking all functions.

Advise the owner if any of the above items are in need of repair.

## CONTENTS

ALPHABETICAL INDEX .....	9-1
DEUTZ ENGINE SERVICE .....	6-1
DRIVE SYSTEM .....	3-1
GENERAL SERVICE .....	1-1
HYDRAULIC SYSTEM .....	4-1
PETTER ENGINE SERVICE .....	7-1
SPECIFICATIONS .....	8-1
TROUBLESHOOTING .....	2-1
WISCONSIN ENGINE SERVICE .....	5-1

GENERAL  
SERVICE

TROUBLE-  
SHOOTING

DRIVE  
SYSTEM

HYDRAULIC  
SYSTEM

WISCONSIN  
ENGINE SERVICE

DEUTZ ENGINE  
SERVICE

PETTER ENGINE  
SERVICE

SPECIFICATIONS

ALPHABETICAL  
INDEX

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### 1-18 FUEL ADJUSTMENT (Petter)

1. Stop engine.
2. Remove cover plug (Fig-1-21).

**NOTE:** When loader is not equipped with a hole in loader side wall at fuel adjustment screw location see Fig. 1-21 for hole drilling instructions. The hole will make fuel adjusting easier.

3. Put a screw driver into hole (Fig.1-21). Turn in to reduce fuel supply. turn out to increase fuel supply.
4. Install plug. Start engine and check its operation. Set for a maximum power and minimum smoke.

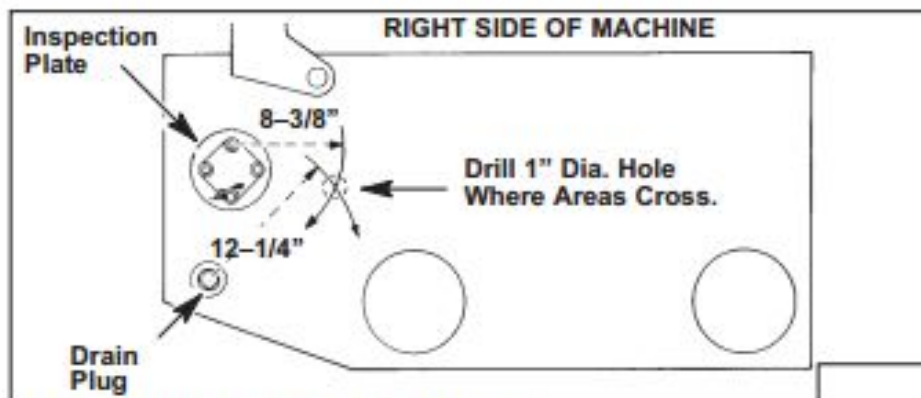


Fig. 1-21 Locating Fuel Adjustment Hole (Petter)



Fig. 1-22 Deutz Cooling Fan

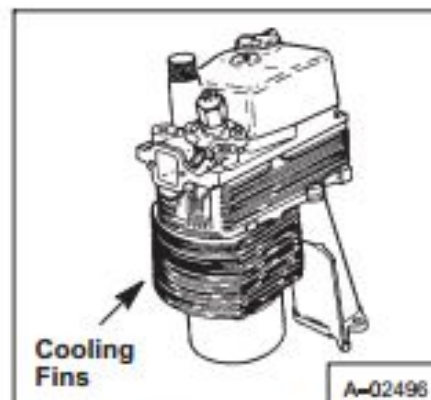


Fig. 1-23 Clean Cooling Fins (Petter)

### 1-19 ENGINE COOLING SYSTEM

1. All air cooled engines must have proper air circulation to cool well.
2. Keep blower fan and screen clear of foreign material and housing free of leaks and dents.
3. Remove housing and clean cooling fins when need (Fig. 1-22, 1-23, & 1-24).

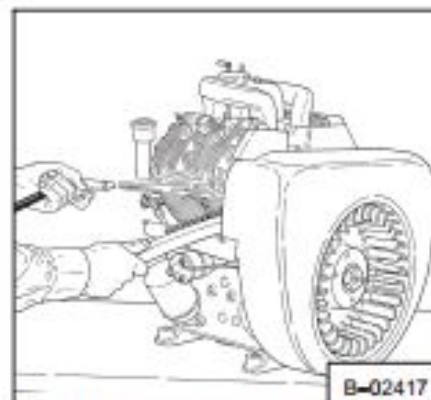


Fig. 1-24 Cleaning Cooling Fins (Wisc.)

## WARNING

Never run the engine with holes in cooling housing or with any part of cooling housing removed.

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### 1-20 WATER SCRUBBER MUFFLER (600 Diesel)

The following applies to United States Bureau of Mines approved model 600 equipped with an exhaust gas conditioner (Water Scrubber Muffler).

1. Exhaust pipe and connections from engine to exhaust gas conditioner must be kept tight and free from leaks at all times.
2. Empty scrubber at bottom outlet with engine running, after each shift (10 hours).
3. Fill with clean water until water level reaches level check valve located on front of scrubber (Fig.1-25).
4. Flush scrubber twice weekly by filling it with water while engine is running at high idle. This will agitate water and any excess will be blown out with exhaust gas.

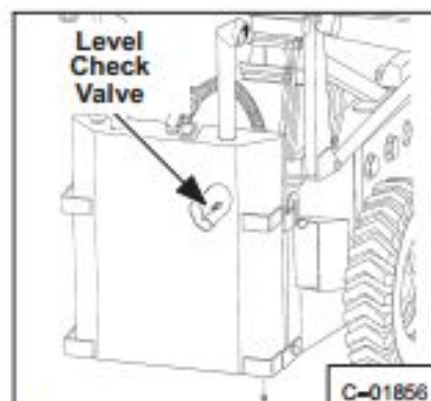


Fig. 1-25 Check Level Scrubber Muffler



Thank you very much  
for your reading.  
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to get more information.