

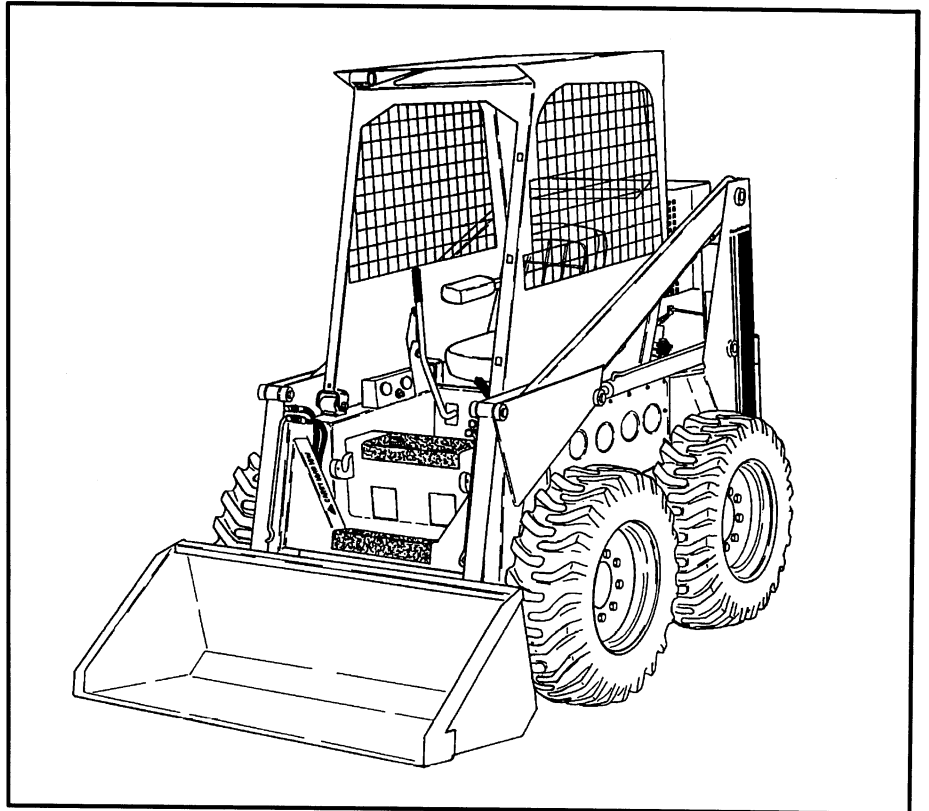
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Service Manual



MELROE
INGERSOLL-RAND

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1-4 AIR CLEANER SYSTEM (Fig. 1-5)

Correct maintenance of this system will increase the engine life.

The following service is needed:

- (1) Remove dirt from the dust cap as often as needed.
- (2) Remove the element only when it needs replacement. (When the red ring shows on the indicator.) (Fig. 1-6).
- (3) When changing the element, be sure to remove dirt from the housing. Check that the gasket is in place.
- (4) If the air cleaner has been damaged, inspect and make replacement of parts as needed.
- (5) Inspect condition of system:

1. Run engine at idle.
2. Hold hand tightly over the inlet hole (Fig. 1-7). The red ring must show on the condition indicator. If it does not, the system has a leak. Make replacement of the parts to correct the leak.

NOTE: The leak can be in the air cleaner hose or the crankcase breather hose (Fig. 1-8).

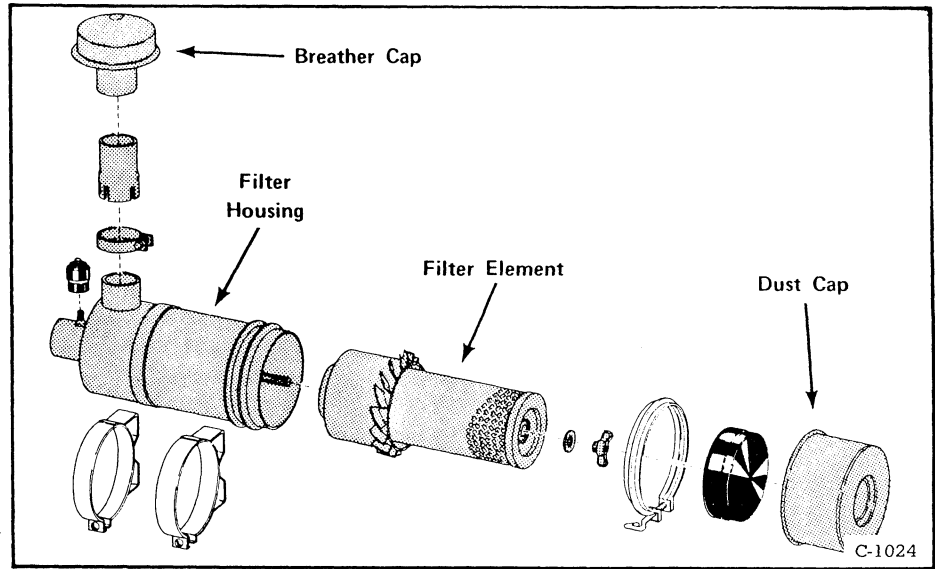


Fig. 1-5 Air Cleaner Breakdown

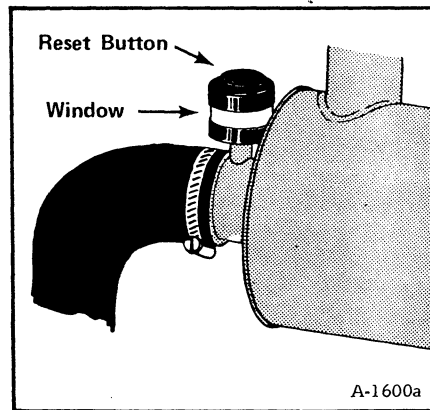


Fig. 1-6 Condition Indicator

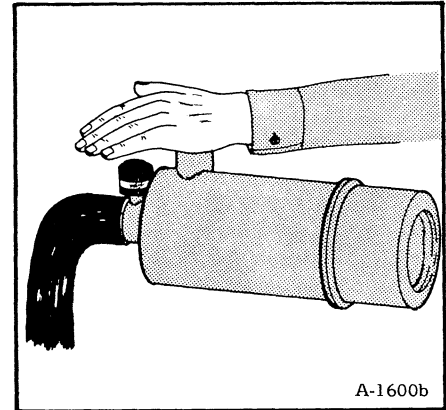


Fig. 1-7 Checking System

1-5 ENGINE FUEL SYSTEM

There is an inline fuel filter at the rear of the Bobcat. To check the filter, remove it and blow in the direction of the arrow. Install the filter with the arrow pointing toward the engine (Fig. 1-9).

1-6 ENGINE OIL AND FILTER REPLACEMENT

Engine oil and filter on the Wisconsin engine must have replacement made every 50 hours, or more often under dirty or difficult starting conditions.

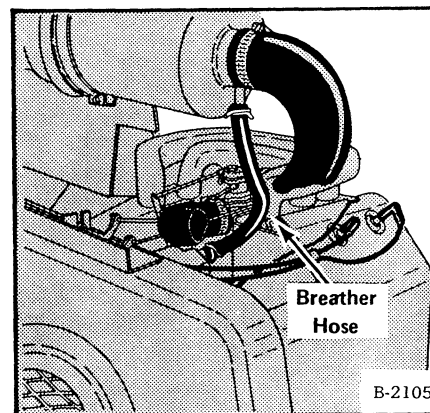


Fig. 1-8 Crankcase Breather Hose

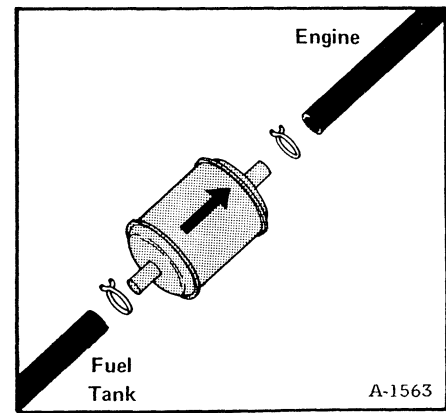


Fig. 1-9 Inline Fuel Filter

To remove oil, first run the engine a few minutes until oil is warm. Remove the access door from under the machine (Fig. 1-10). Remove plug (Fig. 1-11). To let out oil, leave plug out for at least five minutes.

When installing filter, be sure to wipe filter base clean, and put oil on the filter gasket. Filter must be installed hand-tight only. Run engine a few minutes and check filter for leaks.

See page 8-1 for oil specifications. Engine oil capacity is four quarts.

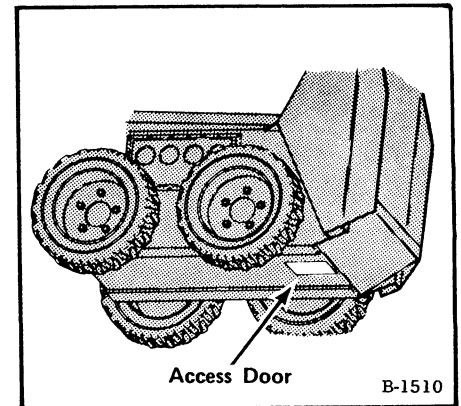


Fig. 1-10 Belly Pan

1-7 CLEANING ENGINE COOLING SYSTEM

The 620 needs regular cleaning of engine air cooling fins to prevent overheating and to get maximum engine life.

Remove engine cooling shrouding. Clean dirt, oil, etc., from cooling fins. Use a wire brush or scraper to remove hard deposits (Fig. 1-12).

TIRES

The Bobcat must be equipped with the correct tires for its application, or it will not operate correctly.

Tire Rotation: When two tires are worn more than the other two, put the worn tires on the same side. When two new tires are installed new, put both on the same side.

Tire Maintenance: Check tires regularly for damage and correct pressure.

When flotation tires are used on hard surfaces, the tire pressure can be increased to 50 PSI (345 kPa). This will make the Bobcat turn better.

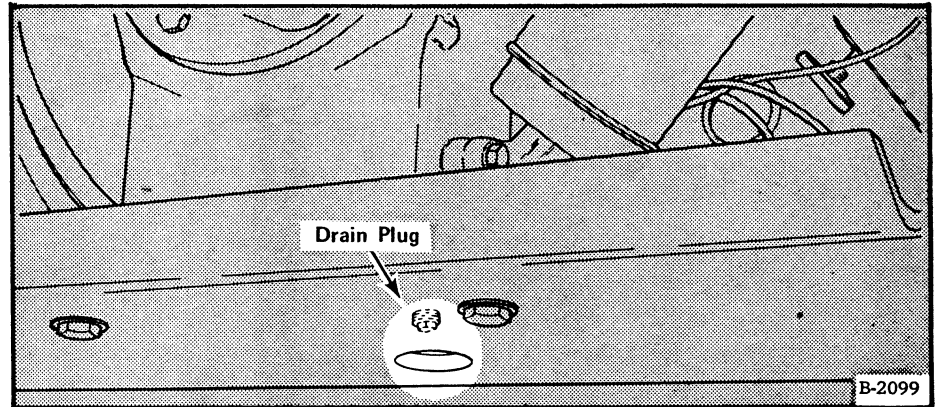


Fig. 1-11 Engine Oil Drain

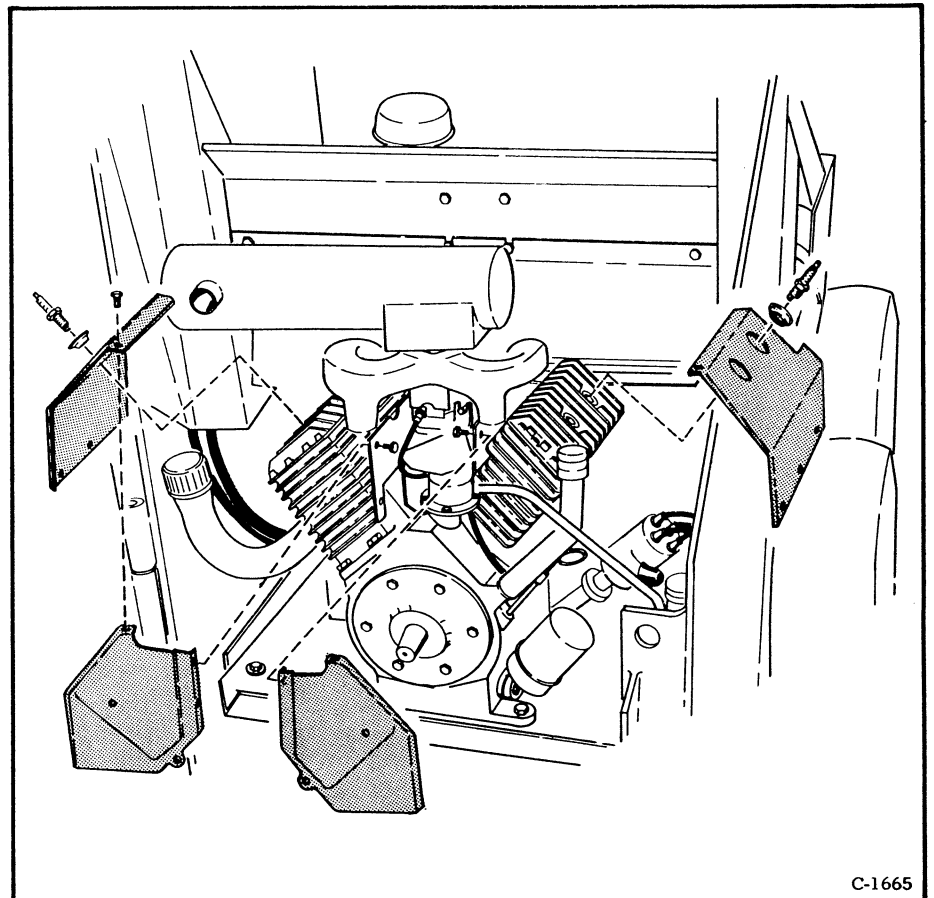
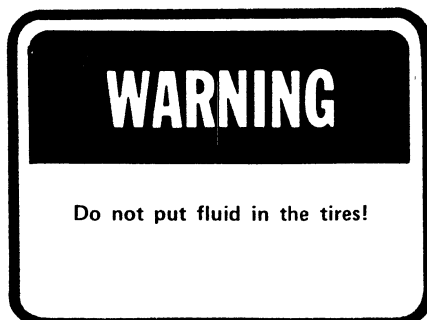


Fig. 1-12 Removal of Cylinder Head Covers & Shrouding



1-9 LOADER LUBRICATION

Fig. 1-13 shows the location of lubricant fittings on the loader.

There are 22 fittings (25 with 2nd Auxiliary). Also, put lubricant on the cab tilting assembly, seat adjustment rails, and the rollers on the steering levers.

Use a good quality lithium grease for lubrication of the Bobcat.

Do not put oil on throttle, choke or governor linkage. Oil will cause tightening of linkage pivots as a result of dirt deposits.

1-10 SEAT AND SEAT BELTS

The seat is mounted on two sliding rails for adjustment. Add lubricant to rails (Fig. 1-14) to make easy movement of the seat.

Inspect condition of seat belts and buckles. Be sure the belts are tightly fastened with bolts and not damaged.

1-11 ROLL-OVER PROTECTIVE STRUCTURE

The cab tilting assembly is used to tilt the cab for maintenance of the transmission area (Fig. 1-15). If needed, the cab can be tilted fully forward, and held on a support for more working room in the transmission area (Fig. 1-16). Be sure that cab cannot fall off the support or it will break the tilt cylinder fittings.

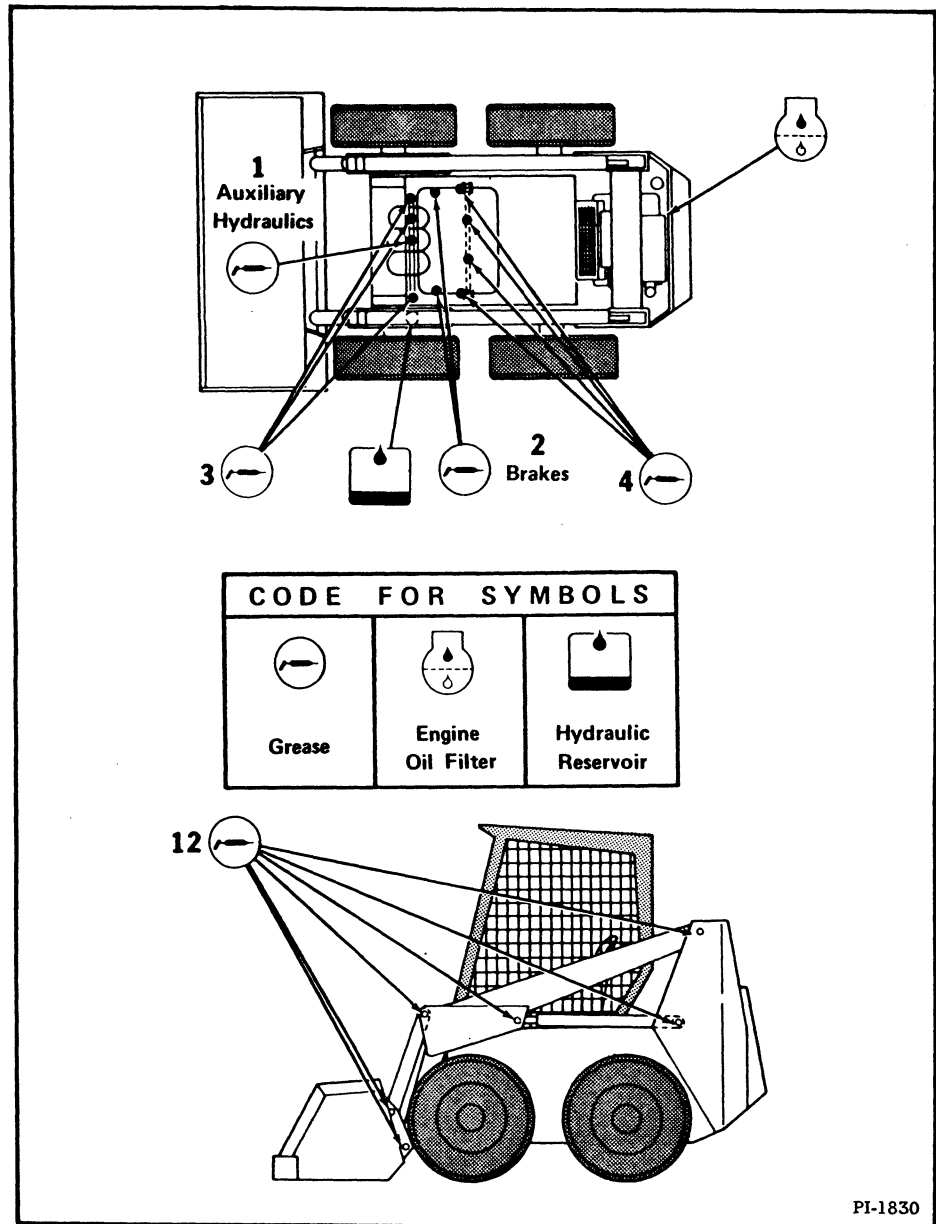


Fig. 1-13 Lubrication Points

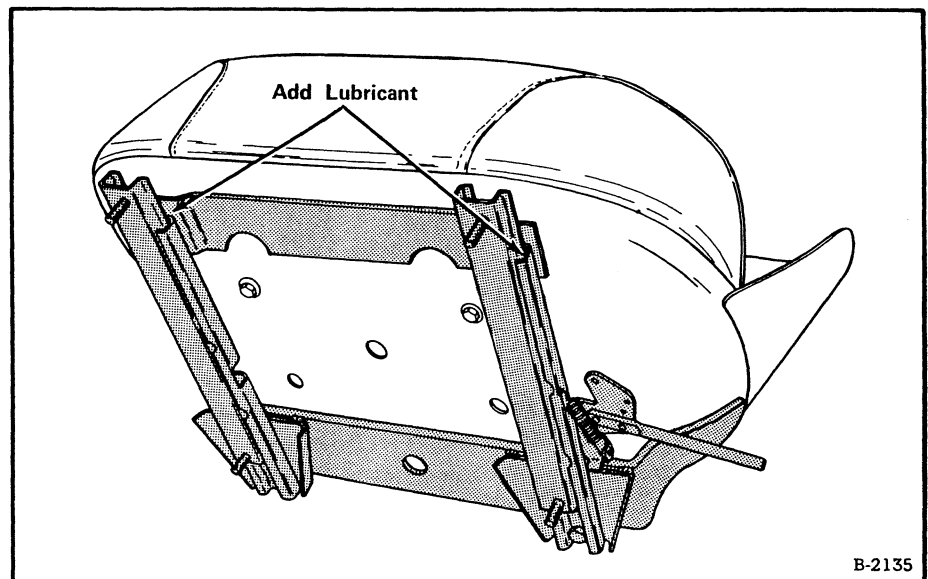


Fig. 1-14 Seat Sliding Rails

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