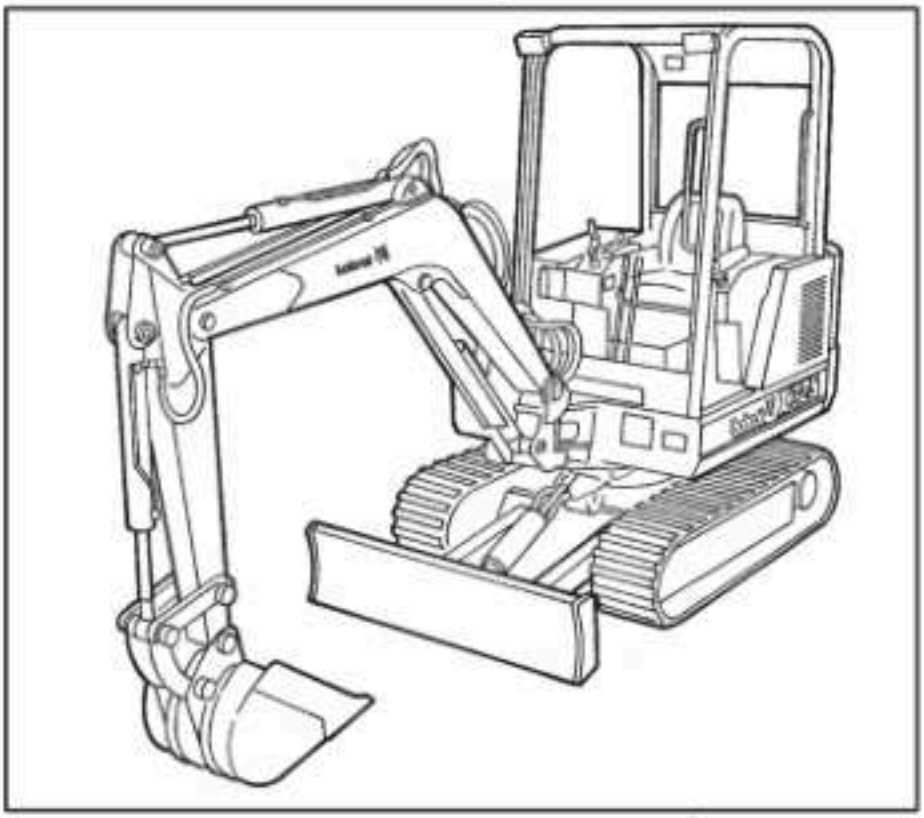
X 325

Excavator

Operation & Maintenance Manual

(S/N 511820001–511821999)



MELROE
INGERSOLL-RAND
6722714 (11–93) Revised (9–97)

Printed in U.S.A.

bobcat

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CALIFORNIA
PROPOSITION 65 WARNING
Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

REFERENCE INFORMATION

Write the correct information for YOUR Bobcat Hydraulic Excavator in the spaces below. Always use these numbers when referring to your Hydraulic Excavator.

Bobcat Hydraulic Excavator
Serial Number ..... _____
Engine Serial Number ..... _____
_____
_____
_____

NOTES: _____
_____
_____
_____
_____
_____

YOUR BOBCAT EXCAVATOR DEALER: _____
ADDRESS: _____
PHONE: _____

Melroe Company
P.O. Box 128
Gwinner, ND 58040–0128

Melroe Europe
J. Huysmanslaan 59
B–1651 LOT
BELGIUM

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CONTROL CONSOLE LEVER LOCK (Cont'd)

Lower the control console to engage the joystick control levers **[A]**.

INSTRUMENT PANEL

The instrument panel has the following instruments **[B]**:

1. **PREHEAT INDICATOR LAMP** – When turning the key switch to the HEAT position, the light comes ON, showing the glow plugs are heating.
2. **ENGINE TEMPERATURE LAMP** – Overheat indicator, when the engine coolant temperature exceeds the allowable temperature range, the light comes ON and the audible alarm sounds. STOP the engine.
3. **LOW FUEL INDICATOR LAMP** – When fuel level is low (1.7 gal. & [6,5 L]), the light comes ON. Add fuel.
4. **FUEL GAUGE** – Shows the amount of fuel in the tank.
5. **HOURMETER** – Records total operating hours. (If the key switch is left in the run position, with the engine OFF, the hourmeter will continue to run and the audible alarm will sound.)
6. **CHARGING GAUGE** – Shows battery charge rate.
7. **ENGINE TEMPERATURE GAUGE** – Shows engine coolant temperature. Audible alarm sounds when temperature reaches 230°F (110°C).
8. **ENGINE OIL LAMP** – When the engine oil pressure is low, the light comes ON and audible alarm sounds. STOP the engine.

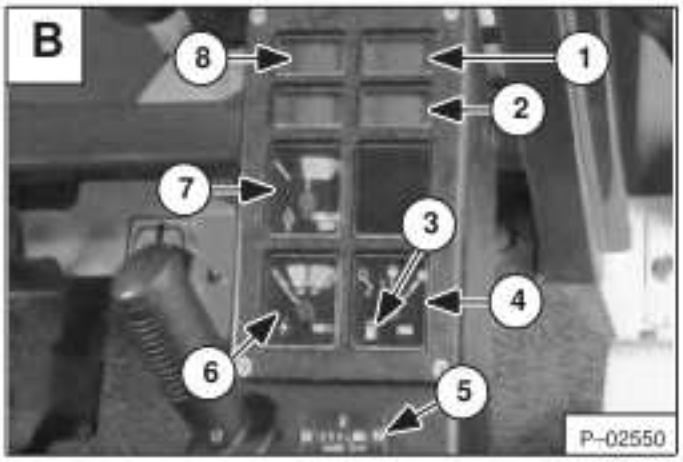
FUSES

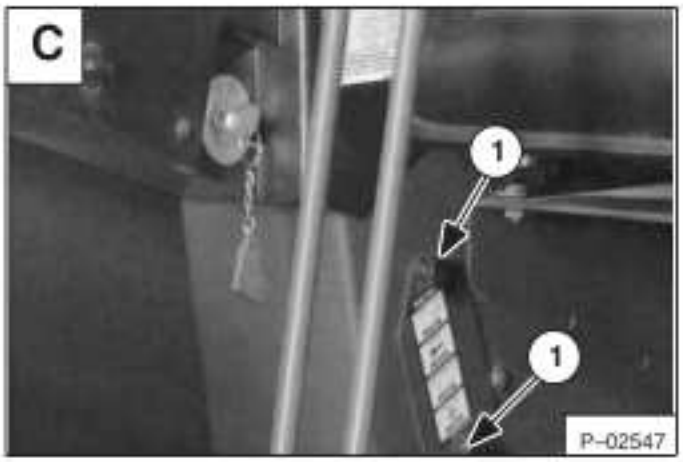
The fuses are located in the right hand control console, below the seat **[C]**.

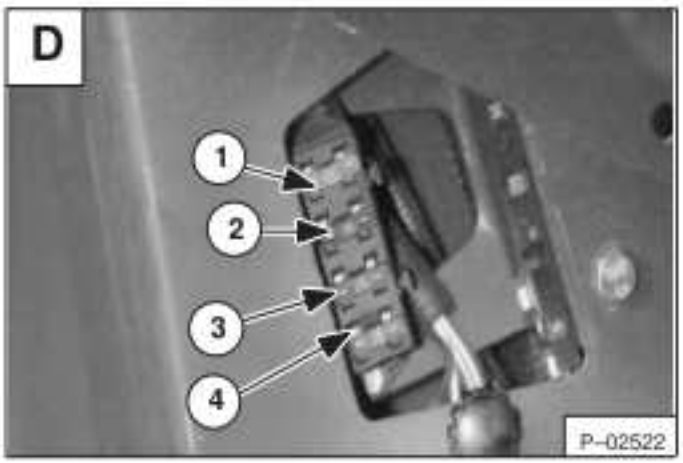
Loosen the two knobs (Item 1) **[C]** and remove the access plate.

1. **FUSE** – 20 Amp: This fuse supplies power to the key switch **[D]**.
2. **FUSE** – 10 Amp: This fuse supplies power to the dash panel, the hourmeter and the fuel pump **[D]**.
3. **FUSE** – 15 Amp: This fuse supplies power to the light switch **[D]**.
4. **FUSE** – 15 Amp: This fuse supplies power to the horn and the heater (if equipped) **[D]**.







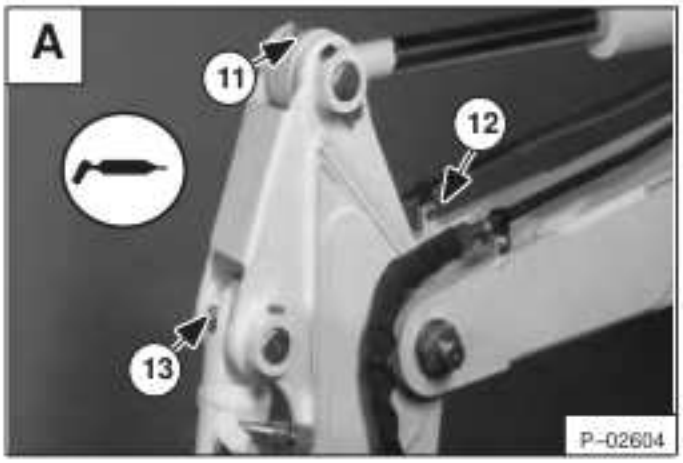


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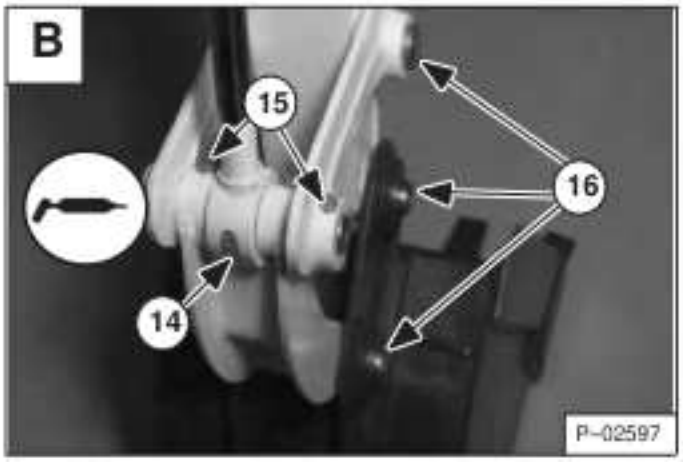
LUBRICATION OF THE HYDRAULIC EXCAVATOR (Cont'd)

Ref. Description (# of Fittings)

11. Arm Cylinder Rod End , every 8–10 hours (1) **[A]**.
12. Arm Base Pivot, every 8–10 hours (1) **[A]**.
13. Bucket Cylinder Base End, every 8–10 hours (1) **[A]**.

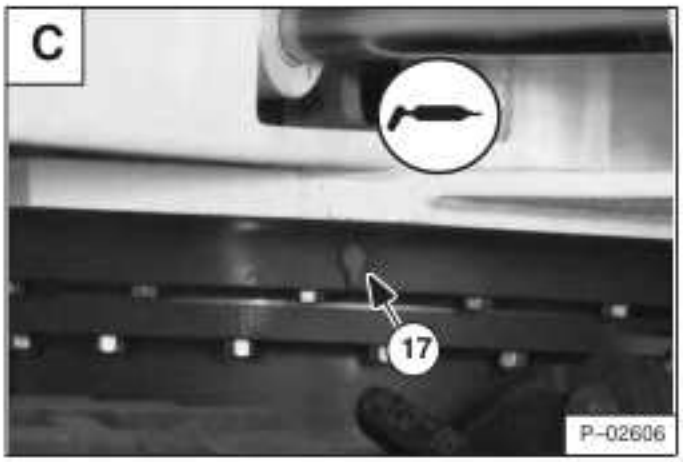


14. Bucket Cylinder Rod End, every 8–10 hours (1) **[B]**.
15. Bucket Link Pivots, every 8–10 hours (2) **[B]**.
16. Bucket Pivots, every 8–10 hours (4) **[B]**.



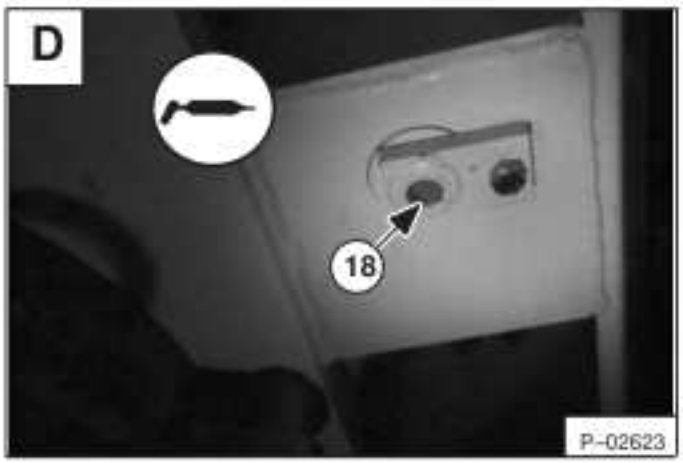
17. Swing Circle Ball Bearings, every 50 hours (2) **[C]**.

NOTE: Do not over–grease the swing circle or damage to the seals could result. Install four to five pumps of grease from a grease gun into each of the two grease fittings. Rotate the upper structure 90° and install four to five pumps of grease into each of the two grease fittings.



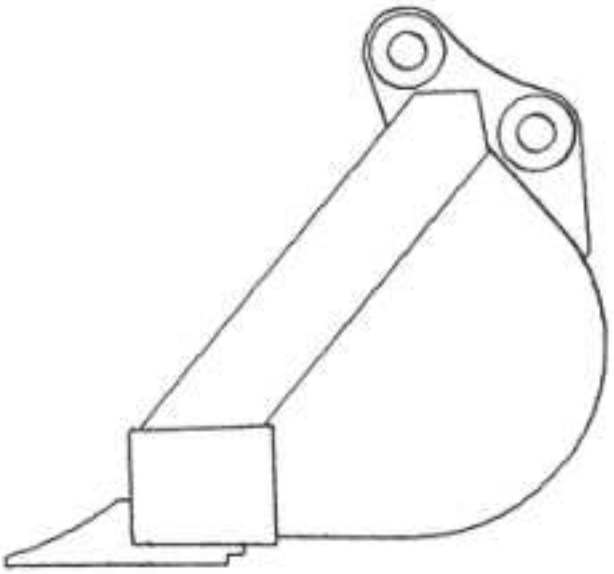
18. Boom Swing Cylinder Base End, every 8–10 hours (1) **[D]**.

    (Under the right side of the upperstructure)



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BUCKET SPECIFICATIONS



MC–1411

Bucket Size	Caacity SAE Heaped	Shipping Weight
12 in. (305 mm)	1.02 cu. ft. (0,029 cu. m.)	106.9 lbs. (48,5 kg)
16 in. (406 mm)	1.61 cu. ft. (0,046 cu. m.)	123.0 lbs. (55,8 kg)
20 in. (508 mm)	2.36 cu. ft. (0,067 cu. m.)	135.7 lbs. (61,6 kg)
24 in. (609 mm)	2.88 cu. ft. (0,082 cu. m.)	157.8 lbs. (68,9 kg)

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BEFORE OPERATING THE BOBCAT HYDRAULIC EXCAVATOR

Safety Alert Symbol: This Safety Symbol is used for important safety messages. When you see this symbol, follow safety message to avoid personal injury or death.

⚠ WARNING

Operator must have instructions before running the machine. Untrained operators can cause injury or death.

W–2001–0596



B–10731

The Hydraulic Excavator must be in good operating condition before use.

Check all of the items on the Service Schedule under the 8 – 10 hour column.

⚠WARNING

Warnings on the machine 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

SAFE OPERATION NEEDS A QUALIFIED OPERATOR*

A QUALIFIED OPERATOR MUST DO THE FOLLOWING:

- UNDERSTAND THE WRITTEN INSTRUCTIONS, RULES AND REGULATIONS
  - The written instructions from Melroe Company include the delivery report, operator handbook, Operation & Maintenance Manual, CIMA manual and machine signs (decals).
  - Check the rules and regulations at your location.
- HAVE TRAINING WITH ACTUAL OPERATION
  - Operator training must consist of a demonstration and verbal instruction. This training is given by your excavator dealer before the excavator is delivered.
  - The new operator must start in an area without bystanders and use all the controls until he can operate the excavator safely under all conditions of the work area.
- KNOW THE WORK CONDITIONS
  - For each material to be handled, the operator must know how to avoid exceeding the rated lift capacity of the excavator. For example, you should not use the excavator for lifting heavy objects.
  - The operator must know any prohibited uses or work areas, for example, he needs to know about excessive slopes.
  - Know the location of any underground lines. Call local utilities or ONE CALL before you dig.
  - Wear tight fitting clothing. Always wear safety glasses when maintaining or servicing excavator. Safety glasses, hearing protection or an excavator special application kit are required for some work. See your dealer about Melroe Safety equipment.

* For an operator to be qualified, he must not use drugs or alcoholic drinks which impair his alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he can safely operate a machine.

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