

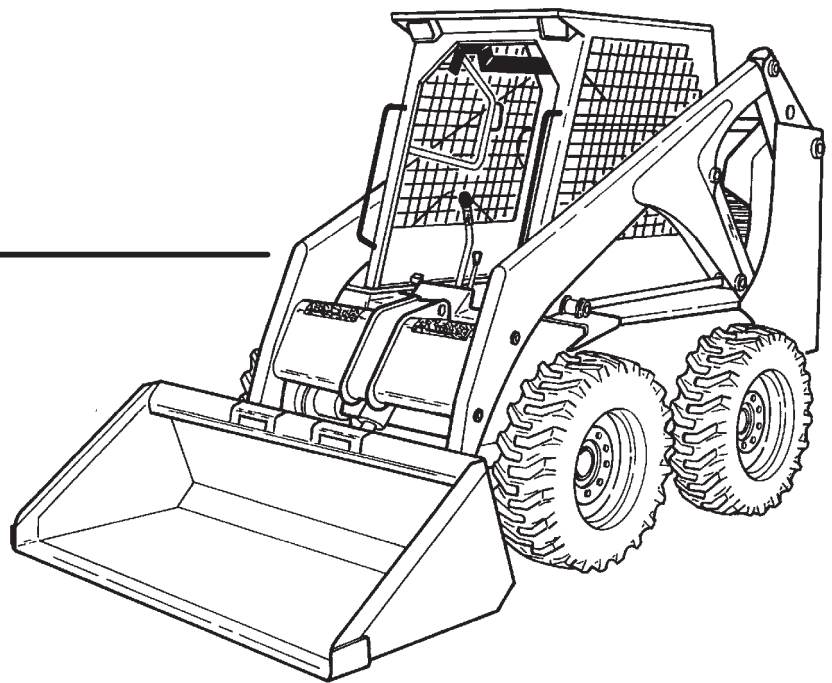
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Bobcat®

Operation & Maintenance Manual

**EQUIPPED WITH
BOBCAT INTERLOCK
CONTROL SYSTEM (BICS™)**



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SAFETY

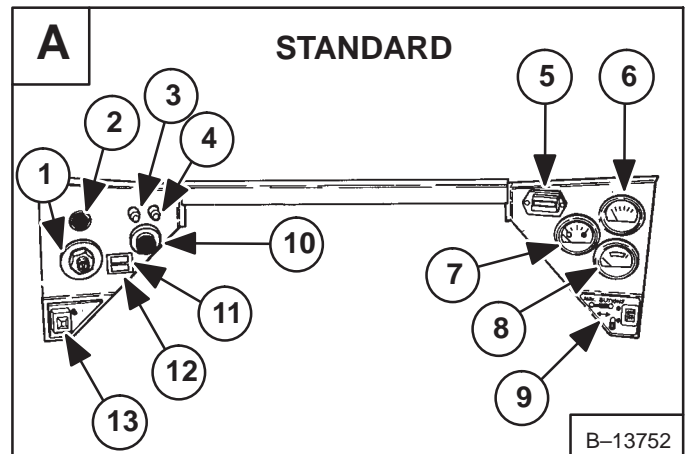
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SAFETY

INSTRUMENT PANEL (Standard)

The following items are located on the standard instrument panel [A]:

1. **KEY SWITCH** – For starting and stopping the engine.
2. **LIGHT SWITCH (OPT.)** – Controls the work and travel lights.
3. **FUSE (ACCESSORIES)** – To protect the electrical system from overload.
4. **FUSE (IGNITION)** – To protect the electrical system from overload.
5. **HOURMETER** – Records the total operating hours of the loader.
6. **VOLTMETER** – Shows the condition of the battery and the rate of charge.
7. **FUEL GAUGE** – Shows the amount of fuel in the fuel tank.
8. **ENGINE TEMPERATURE GAUGE** – Shows the engine coolant temperature.
9. **OPTIONAL AUXILIARY HYDRAULICS MODE SWITCH** – For engaging the auxiliary hydraulics (front & rear).
10. **PRE-HEAT BUTTON** – For pre-heating the glow plugs before starting the engine. (See Page 16.)
11. **TRANSMISSION WARNING LIGHT** – Low transmission charge pressure, hydraulic filter needs replacement or high fluid temperature. Stop the engine if the light comes ON.
12. **ENGINE WARNING LIGHT** – Engine oil pressure is low. Stop the engine if the light comes ON.
13. **LIFT ARM OPERATION BUTTON** – Lift arm operation button must be momentarily pressed after the seat bar is lowered and engine running to operate the lift arms. A green light will be ON when lift hydraulic system is activated.



GETTING READY FOR OPERATION

Read the Operation & Maintenance Manual and the Operator's Handbook before operating the loader [A].

WARNING

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

W-2001-1285

Use the bucket or attachment steps, grab handles and safety treads (on top of the loader lift arms and frame) to get on and off the loader [B].

Safety treads are installed on the Bobcat loader to provide a slip resistant surface for getting on and off the loader. Keep safety treads clean and replace when damaged. Replacement treads are available from your dealer.

Pull the seat lever (Item 1) and adjust the seat position for comfortable operation of the loader controls [C].

Fasten the seat belt snugly and adjust it so that the buckle is centered between the hips [D].

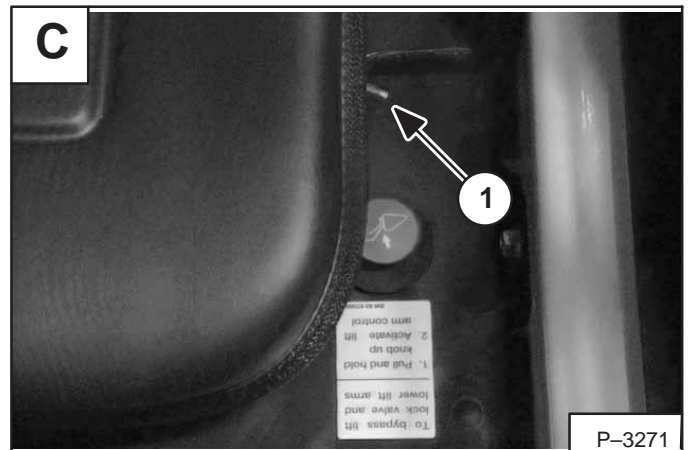
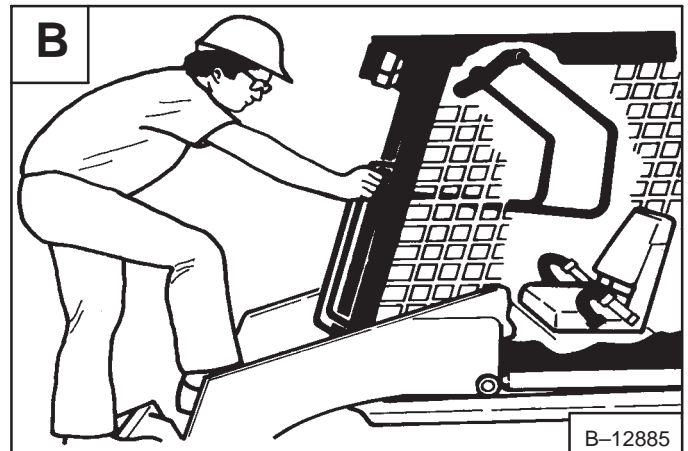
WARNING

AVOID INJURY OR DEATH

When operating the machine:

- Keep the seat belt fastened snugly.
- The seat bar must be lowered.
- Keep your feet on the pedal controls.

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OPERATING PROCEDURES (Cont'd)

Backfilling

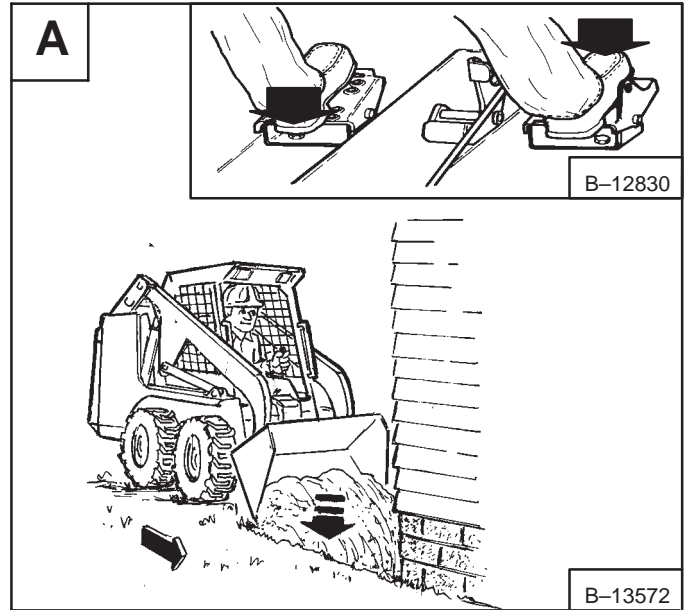
Lower the lift arms and put the cutting edge of the bucket on the ground. Drive forward to the edge of the hole to push the material into the hole [A].

Tilt the bucket forward as soon as it is past the edge of the hole [A].

If necessary, raise the lift arms to empty the bucket.

PARKING THE BOBCAT LOADER

1. Stop the Bobcat loader on level ground.
2. Lower the lift arms fully and put the attachment flat on the ground.
3. Pull the engine speed control lever all the way backward. Turn the key switch to the OFF position.



WARNING

AVOID INJURY OR DEATH

Before you leave the operator's seat:

- Lower the lift arms, put the attachment flat on the ground.
- Stop the engine.
- Engage the parking brake.
- Raise seat bar, move pedals until both locked.

W-2045-1086

4. Engage the parking brake.
5. Lift the seat bar and make sure the foot pedals are in the locked position.
6. Un-buckle the seat belt. Remove the key from the switch to prevent operation of the loader by unauthorized personnel.

AIR CLEANER SERVICE

WITH CONDITION INDICATOR: Replace the large (outer) filter element only when the red ring shows in the window of the condition indicator (Item 1) [A].

NOTE: Before replacing the filter element, push the button on the condition indicator (Item 2) [A]. Start the engine. If the red ring does not show, do not replace the filter element.

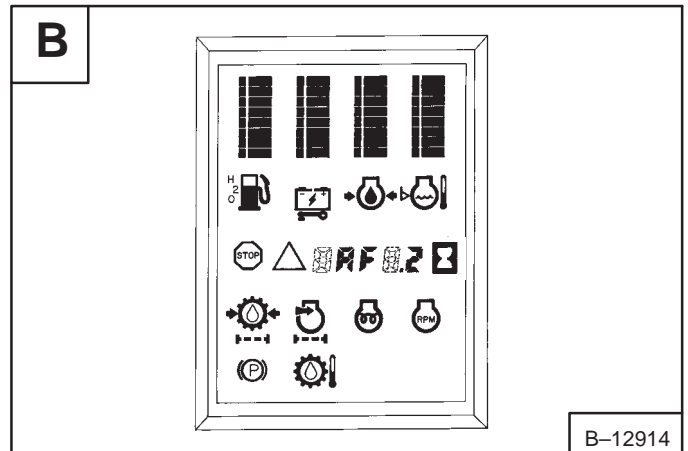
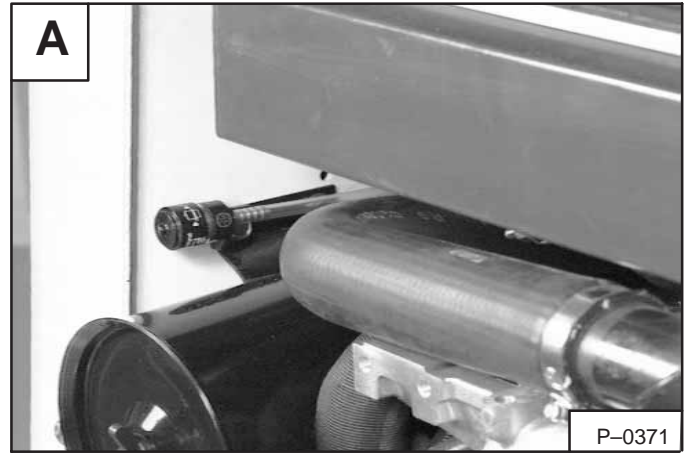
Replace the inner filter every third time the outer filter is replaced or when the red ring still shows in the indicator window after the outer filter has been replaced.

WITH BOSS OPTION: It is important to change the air filter element only when the service codes (on the optional instrument panel) shows the symbols [AF.2] [B].

Service the air cleaner as follows:

Remove the dust cover wing nut [C].

Remove the dust cover [D].



ELECTRICAL SYSTEM (Cont'd)

Using A Booster Battery (Jump Starting) (Cont'd)

⚠ WARNING

Keep arcs, sparks, flames and lighted tobacco away from batteries. When *jumping* from booster battery make final connection (negative) at engine frame.

Do not jump start or charge a frozen battery. Warm battery to 60°F. (16°C.) before connecting to a charger. Unplug charger before connecting or disconnecting cables to battery.

Battery gas can explode and cause serious injury.

W-2066-0490

Connect the end of the first cable (Item 1) [A] to the positive (+) terminal of the booster battery. Connect the other end of the same cable (Item 1) [B] to the positive terminal on the loader battery.

Connect the end of the second cable (Item 2) [A] to the negative (-) terminal of the booster battery. Connect the other end of the same cable (Item 2) [B] to the starter mounting bolt that is grounded to the loader.

Keep cables away from moving parts. Start the engine. (See *Cold Temperature Starting Condition*, Page 16 or 17.)

After the engine has started, remove the ground (-) cable (Item 2) first [B]. Remove the cable from the positive terminal on the loader battery.

IMPORTANT

Damage to the alternator can occur if:

- Engine is operated with battery cables disconnected.
- Battery cables are connected when using a fast charger or when welding on the loader (Remove both cables from the battery).
- Extra battery cables (booster cables) are connected wrong.

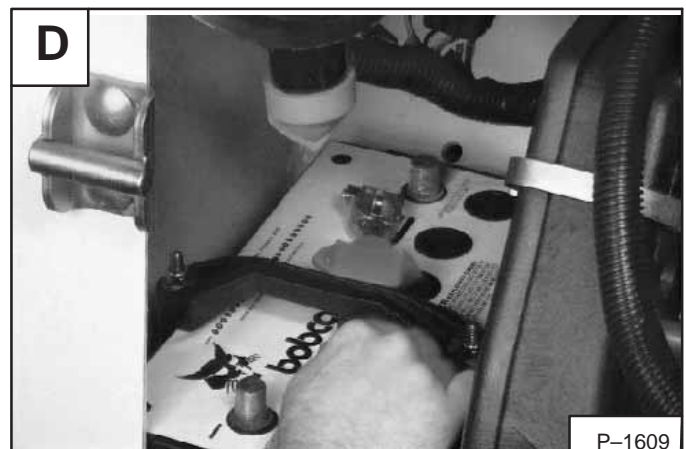
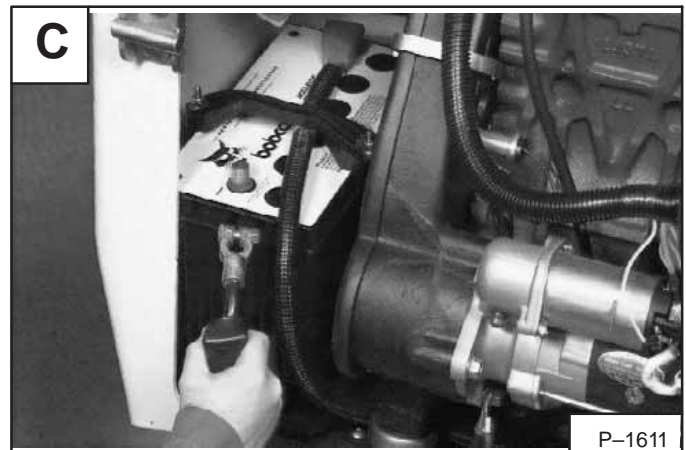
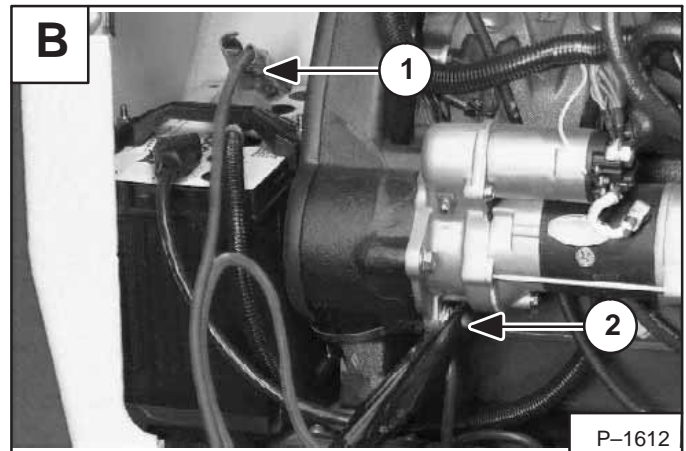
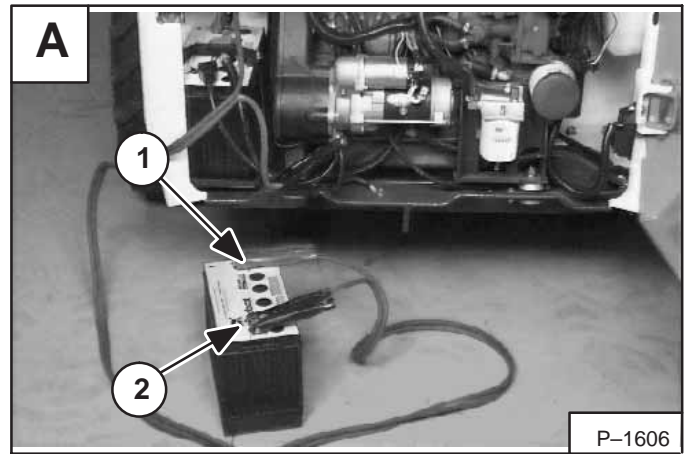
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Battery Removal and Installation

Open the rear door.

Disconnect the negative (-) battery cable [C].

Disconnect the positive (+) battery cable [D].



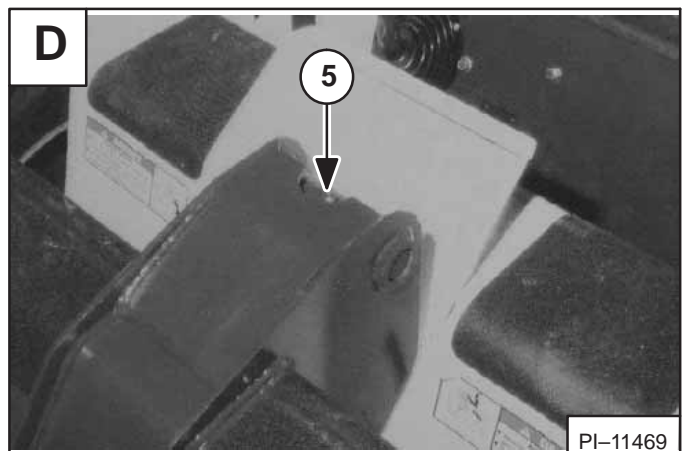
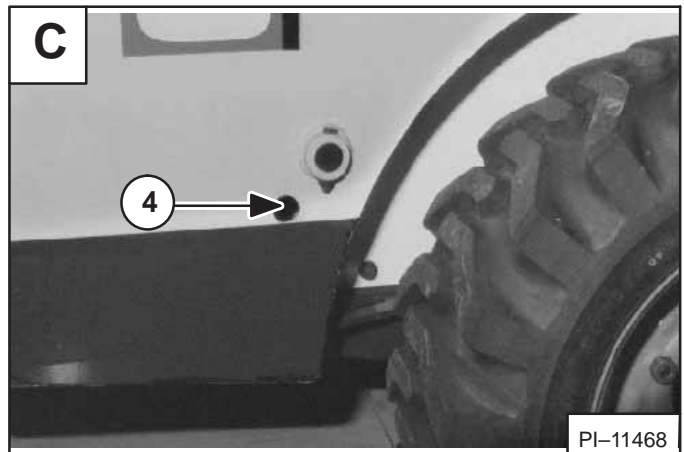
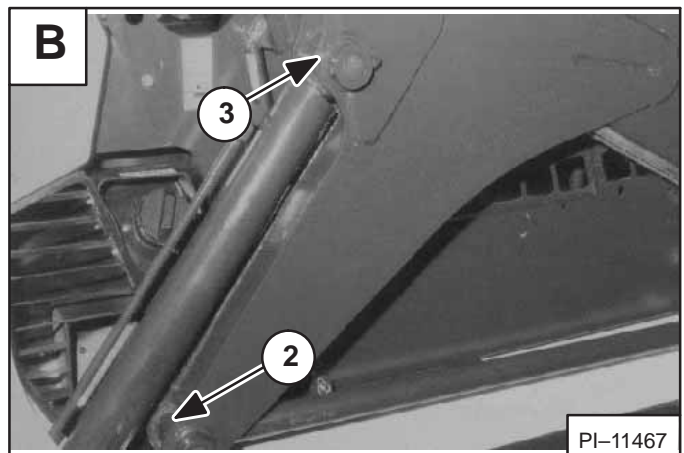
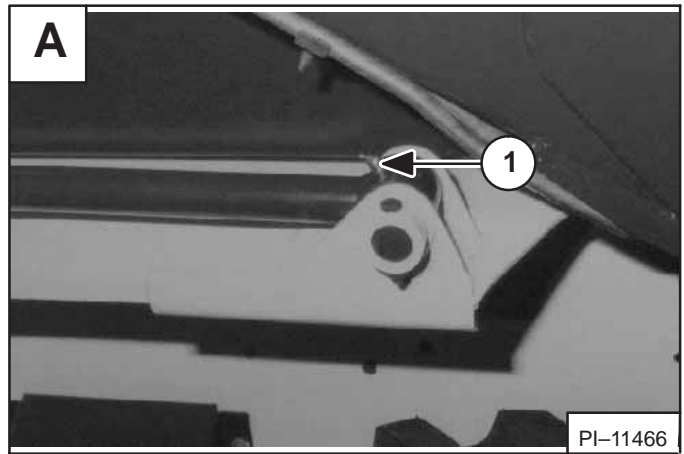
LUBRICATION OF THE BOBCAT LOADER

Lubricate the loader as specified in the Service Schedule Page 27 for the best performance of the loader.

Always use a good quality lithium based multi-purpose grease when you lubricate the loader. Apply the lubricant until extra grease shows.

Lubricate the following locations on the loader:

1. Stabilizer Rod (Both Sides) **[A]**.
2. Stabilizer Rod (Both Sides) **[B]**.
3. Lift Cylinder Rod End (Both Sides) **[B]**.
4. Lift Cylinder Base End (Both Sides) **[C]**.
5. Tilt Cylinder Base End **[D]**.



IMPORTANTE (SPANISH)

ESTA MAQUINA ESTA EQUIPADA POR LA FABRICA CON UN AMORTIGUADOR DE CHISPAS DEL SILENCIADOR, APROBADO POR EL SERVICIO DE SILVICULTURA DEL U.S.D.A. (DEPARTAMENTO DE AGRICULTURA DE LOS ESTADOS UNIDOS).

ES NECESARIO LIMPIAR ESTE AMORTIGUADOR DE CHISPAS DEL SILENCIADOR PARA MANTENERLO EN BUEN ESTADO. HAY QUE DARLE SERVICIO AL AMORTIGUADOR, VACIANDO LA CAMARA DE CHISPAS CADA 100 HORAS DE FUNCIONAMIENTO.

SI ESTA MAQUINA ESTA DESTINADA PARA TRABAJAR EN BOSQUES, MATORRALES O EN PASTOS QUE PUEDAN INCENDIARSE, ENTONCES TIENE QUE ESTAR EQUIPADA CON UN AMORTIGUADOR DE CHISPAS EN EL SISTEMA DEL ESCAPE Y TIENE QUE MANTENERSE EN PERFECTAS CONDICIONES DE TRABAJO. ES NO HACER ESTO CONSTITUYE UNA INFRACCION DE LA LEY ESTATAL DE CALIFORNIA, SECCION 4442, PRC.

REFIERASE A LAS LEYES Y REGULACIONES LOCALES EN CUANTO A LOS REQUISITOS DEL AMORTIGUADOR DE CHISPAS.

IMPORTANT (FRENCH)

CETTE CHARGEUSE EST EQUIPEE A LA SORTIE DE L'USINE D'UN SILENCIEUX PARA-ETINCELLES APPROUVE PAR LE SERVICE DES EAUX ET FORETS DES ETATS-UNIS.

IL EST INDISPENSABLE D'EFFECTUER UN ENTRETIEN REGULIER DE CE PARE-ETINCELLES AFIN DE LE GARDER EN BON ETAT DE MARCHE. L'ENTRETIEN CONSISTE A VIDER LA CHAMBRE A ETINCELLES TOUTES LES 100 HEURES DE MARCHE.

SI CET ENGIN EST UTILISE SUR UN TERRAIN COUVERT D'ARBRES, DE BROUSSAILLES, OU D'HERBAGES INFLAMMABLES, IL FAUT INSTALLER LE PARE-ETINCELLES ET LE GARDER EN BON ETAT DE MARCHE.

CONSULTER LES REGLEMENTATIONS LOCALES APPLICABLES.

IMPORTANT

THIS MACHINE IS FACTORY EQUIPPED WITH A U.S.D.A. FORESTRY SERVICE APPROVED SPARK ARRESTOR MUFFLER.

IT IS NECESSARY TO CLEAN THIS SPARK ARRESTOR MUFFLER TO KEEP IT IN WORKING CONDITION. THE SPARK ARRESTOR MUFFLER MUST BE SERVICED BY DUMPING THE SPARK CHAMBER EVERY 100 HOURS OF OPERATION.

IF THIS MACHINE IS OPERATED ON FLAMMABLE FOREST, BRUSH OR GRASS COVERED LAND, IT MUST BE EQUIPPED WITH A SPARK ARRESTOR ATTACHED TO THE EXHAUST SYSTEM AND MAINTAINED IN WORKING ORDER. FAILURE TO DO SO WILL BE IN VIOLATION OF CALIFORNIA STATE LAW, SECTION 4442, PRC.

REFER TO LOCAL LAWS AND REGULATIONS FOR SPARK ARRESTOR REQUIREMENTS.

SEE THE OPERATION AND MAINTENANCE MANUAL FOR MORE INSTRUCTIONS.

PARA MÁS INSTRUCCIONES, VEA EL MANUAL DE OPERACIÓN Y MANTENIMIENTO.

WEITERE ANWEISUNGEN FINDEN SIE IN DER BETRIEBUNGS- UND INSTANDHALTUNGSANLEITUNG.

VOIR LE MANUEL DE L'OPÉRATEUR ET D'ENTRETIEN POUR D'AUTRES RENSEIGNEMENTS.

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