

# OPERATOR'S MANUAL

## Tigercat 720C FELLER BUNCHER

ISSUE 2.1, MARCH 2003

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#### 720C Available Literature

Operator's Manual	Part No. 13037A
Service Manual	Part No. 13038A
Parts Catalog	Part No. 13036A
Hydraulic Adapters Book	Part No. 1472A
Hose Assemblies Book	Part No. 3707A

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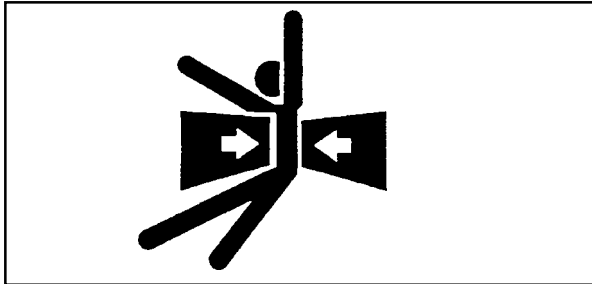
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## OPERATING SAFETY PRECAUTIONS continued



When the engine is running, **DO NOT** allow anyone in areas of the machine where they may be crushed by moving components.

Boom supports encroach on cab door opening when machine is steered.

- Do not run engine when persons are on steps or in doorway area.
- Serious injury or death could result from crushing.



Maintain a safe operating distance between the machine and other personnel. Never operate the boom or attachment over the heads of bystanders.

Use only prearranged and approved signalling practices.

Operate the machine only from a seated position in the operator's seat.

Do not carry passengers either in the cab or anywhere else on the machine.

If vision is limited by dust, smoke, fog or snow, stop the machine until visibility is restored.

### CAUTION

**Do not open cab doors or window screens when machine is on a slope. The doors and screens are heavy and could swing out with considerable force.**

When working on slopes, travel straight up or down the slope to prevent roll-over.

**NEVER** travel across a **STEEP** slope or side hill:

- If you travel across a **MODERATE** slope, **NEVER** make an uphill turn as this could cause a tip-over situation.
- As logs are added to the accumulator pocket the handling and the stability of the machine will change.
- Always be prepared to dump the load in case of an emergency.
- Do not overload the machine as this can create an unstable condition and cause a roll-over.

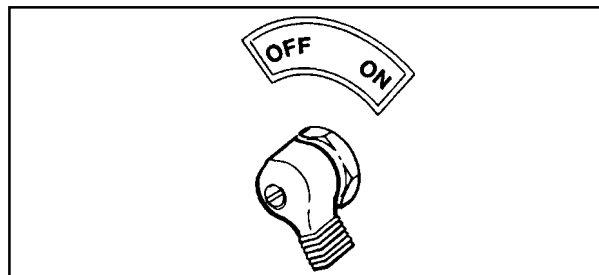
Before leaving operator's cab, apply the parking brake and lower the felling attachment onto the ground.

If out of the operator's cab for an extended period shut the machine off.

Never work alone. Regularly inform other crew members of your intentions, location and length of time to perform duties.

#### When parking the machine:

- Park on level ground *only* and engage the parking brake.
- Do not park on a hillside or incline.
- Lower felling attachment onto level ground.
- Stop the engine and relieve any hydraulic pressure stored in the system by pressing the brake pedal **30 to 40 times**.



- Turn the master disconnect switch off if the vehicle is to be parked for an extended period of time (Example - overnight).

**Safe practices**

It is understood and expected that logging organizations and operators will develop and practice additional rules that suit (for example) particular conditions of terrain, trees, soil and job requirements. The information given here is intended to assist towards a quicker understanding of how and why things can happen when a high speed disc saw is in use; and hence to assist in development of safe operating practices.

It should not be assumed that all possible dangers have been discovered and described here.

**Other instructions**

It is also understood and expected that all instructions contained in service and operator's manuals for use and maintenance of Tigercat disc saw heads and other disc saw heads installed on Tigercat machines will be followed.

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**THE DANGERS**

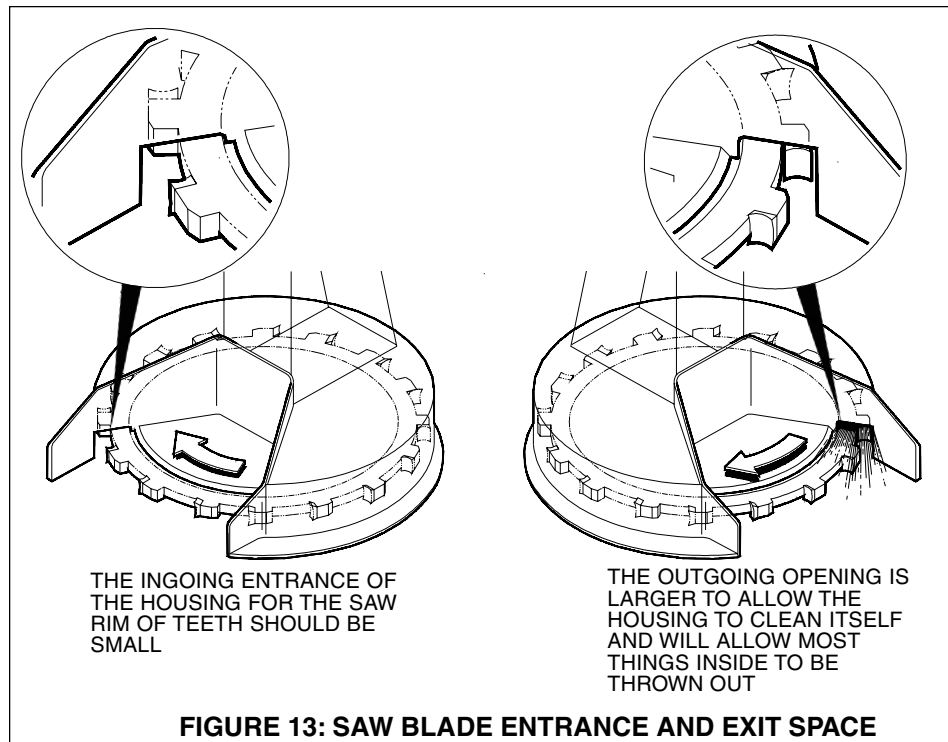
There are at least these means by which a rotating disc saw can cause harm by throwing:

- The normal throwing of chips from the cut.
- Soil particles are thrown from the ground.
- Loose chunks of wood encountered or produced are tossed by the exposed blade.
- Sticks and debris falling onto the blade or sliding across the blade are struck by the teeth and thrown.
- Metal pieces from the blade or from objects encountered are thrown.
- Wood pieces enter the saw housing and are expelled by the blade.
- In very peculiar cases the saw can throw long lengths of wood as spears.

**Comments and Instructions cont.**

**Saw housing entrance and exit space**

To avoid the ingestion of materials into the housing space above the disc (and later ejection) the ingoing entrance for the saw rim of teeth is kept as small as practical. It is important that this high wear area be maintained at its original size and shape. The outgoing opening is large enough to allow the housing to clean itself and will allow most things inside to be thrown out, see figure 13. Its throw direction and angle must be respected. A long snout on the other side reduces this danger.





- d. Check the evaporator core and the inside of the A/C housing for dirt and debris. Clean as required.
- e. Run air conditioning system for 3 - 5 minutes,
- f. Check to see that compressor clutch will engage.

**IMPORTANT:** It is recommended that during cold weather when the A/C system is not in use, that it be run for a period of 5 minutes every 2 weeks. This will circulate oil to all components of the A/C system.



## CLEANING A/C CONDENSER, OIL COOLER AND RADIATOR

The hydraulic oil cooler and engine radiator are mounted side by side. The A/C condenser core is mounted in front of these two units. A debris screen is used to protect the cooling assembly. The engine fan draws air from behind the cab, through the screen, through the A/C condenser, then through the oil cooler/engine radiator assembly and blows it across the engine.

The A/C condenser core, the oil cooler and the engine radiator assembly should be checked every shift (8 hours) or more often where conditions cause accumulation of twigs, leaves, pine needles and dust. All of the engine enclosure doors should also be checked.

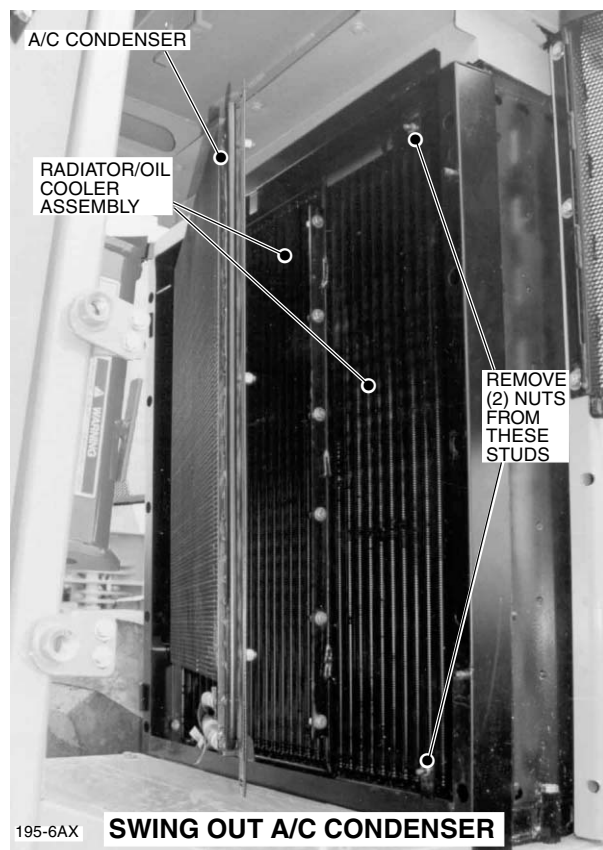
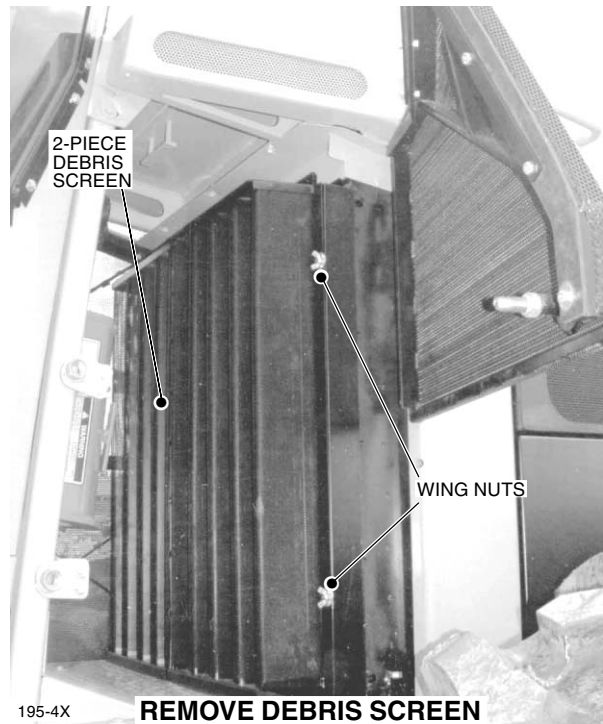
### PROCEDURE:

1. Swing out the top screen door and lift out the bottom screen panel on the left side of the engine area, behind the cab.



2. The debris screen is taken out by removing two wing nuts (left side) and carefully lifting out the screen to expose the A/C condenser.
3. Remove two nuts (left side) and carefully swing out the A/C condenser (on hinges) to expose the back side of the radiator/oil cooler assembly.

This cooling assembly must be checked daily and may have to be thoroughly cleaned on a weekly or monthly basis, depending on operating conditions. Compressed air or water may be used to clean this assembly. **Use personal protective equipment to guard against flying debris.** Care must be taken



when cleaning this assembly, as the components can be damaged by careless handling and cleaning.

## Tigercat 720C Feller Buncher

## Controls and Operation

### TRANSPORTING INSTRUCTIONS

#### **IMPORTANT**

When transporting the machine, Chains must be used to prevent forward, reverse and side to side movement of the machine.

The Feller Buncher may be transported with the wheels **on** or **off**. If the wheels are **removed** the machine must be blocked so that the center joint is one inch or more above the truck bed.

With the wheels on or off:-

- The felling head must be lowered to the truck bed.
- The articulation lock bar **must** be installed.

#### **IMPORTANT**

Do not secure the machine to the truck **ANYWHERE** near the center joint area as this can seriously damage the center joint.

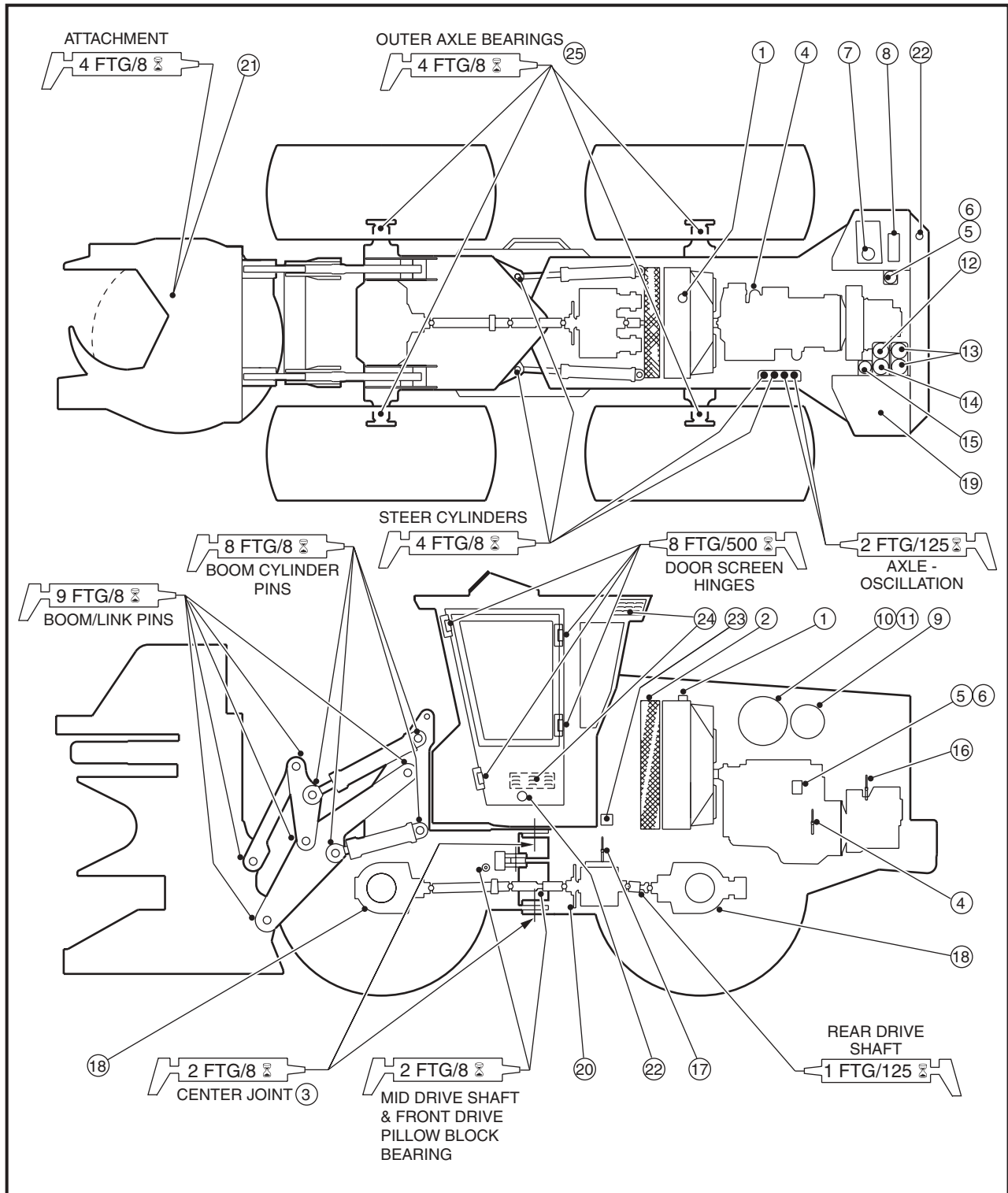
#### **IMPORTANT**

Use only transport regulation chains for this purpose, example; 5/16" grade 7 with a tensile strength of 96,000lbs/chain. Using inferior or damaged chains could cause the load to shift.

- The machine must be crossed chained (side to side) at **both** the front and rear axle area.

The chains may be looped around the axles and hooked onto the frame in a suitable location (as shown) or the chains may be hooked back onto the links of the chain creating a full loop around the axles. At the rear, foot steps, if present, may be used as anchor points (see photo). The chains should be attached to the opposite sides of the trailer and evenly tensioned with the load binders.





**LEGEND**

<p>*** STEER MACHINE FULLY BEFORE GREASING MID DRIVE SHAFT SLIP YOKE.</p> <p> 2 FTG/125 LUBRICATION POINT WITH A DESIGNATED NUMBER OF FITTINGS (2 FTG) AND HOURS BETWEEN SERVICING (125 ). JOINT TO BE PURGED.</p> <p>† Use of filters other than genuine Tigercat replacement filters is not recommended.</p>	<p> HOURS</p> <p>CHK CHECK</p> <p>REP REPLACE</p> <p>DRN DRAIN</p> <p>D/R DRAIN AND REFILL</p> <p>LUB LUBRICATE</p>
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