

Product: EXCAVATOR  
Model: 235 EXCAVATOR 32K  
Configuration: 235 EXCAVATOR 32K00001-00788 (MACHINE)

## **Operation and Maintenance Manual 235 EXCAVATOR REPLACES GEG05073-03**

Media Number -SEBU6464-00

Publication Date -01/11/1979

Date Updated -11/10/2001

## **Foreword**

### **SMCS - 7606**

This guide is a reference for the new operator and a refresher for the experienced one. Read - study - and keep it handy.

Illustrations guide the operator through the correct procedures of checking, starting, operating and stopping the vehicle and attachments.

Operating techniques outlined in the guide are basic. Skill and techniques develop as the operator gains knowledge of the vehicle and its capabilities.

Your safety and the safety of others depends upon care and judgment in the operation of this vehicle. A careful operator is good insurance against an accident.

Most accidents, no matter where they occur, are caused by someone's failure to observe and follow simple and fundamental rules or precautions. For this reason most accidents can be avoided by recognizing hazards and taking steps to avoid them before an accident occurs.

Regardless of the care used in the design and construction of any type of equipment, there are conditions that cannot be completely safeguarded against without interfering with reasonable accessibility and efficient operation.

Some photographs in this publication may show details or attachments that may be different from your unit.

Continuing improvement and advancement of product design may cause changes to your machine which may not be included in this publication. Each publication is reviewed and revised, as required, to update and include these changes in later editions.

When a question arises regarding your Caterpillar product, or this publication, please consult your Caterpillar dealer for the latest available information.

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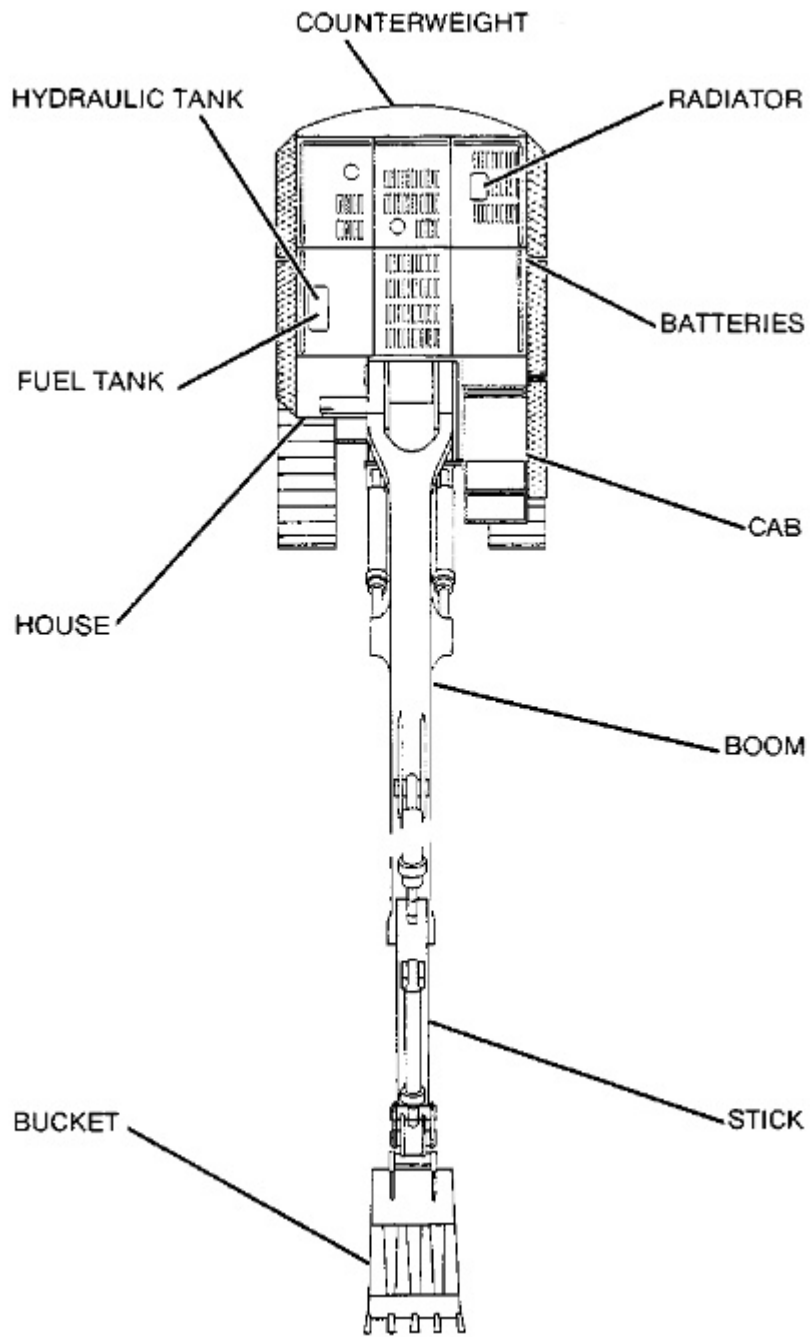
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## **Model View**

**SMCS - 7606**



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## **Safety**

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### **General**

Wear a hard hat, safety glasses and respirator as required by job conditions.

Do not wear loose clothing or jewelry that could catch on controls or other objects.

Lower equipment, engage safety control lever and stop engine before making any adjustments, servicing or leaving machine.

Do not smoke while fueling.

### **Preparing to Operate**

Report needed repairs.

Make certain all safety guards and covers are securely in place.

Clear personnel from machine and area.

Maintain good vision by keeping cab and windshield clean.

Always have a fire extinguisher on hand and know how to use it. Check regularly ... at least monthly ... to be sure it is in working order.

Be particularly careful on machines you do not usually operate.

Clear obstacles from path of machine ... note hazards such as wires and ditches.

Be sure to check for tail swing clearance before operating machine.

Start engine only in well ventilated area.

Become thoroughly familiar with all controls.

### **Checking Controls**

Test all controls at start of shift to be sure they are properly adjusted before beginning operation.

Listen for unusual noises.

Test engine governor control.

Test right and left steering while moving slowly.

Adjust seat for comfortable working conditions.

Check function of safety devices such as lights, horns, etc.

## **Operating**

No riders.

Stay clear of overhangs, electric wires, slide areas or other danger areas.

Use extra caution in crossing side hills, ridges, ditches and other obstructions.

Swing boom to upper side of hill to avoid tipping except when using as a crutch.

Stay safe distance from edge of cliff or overhang.

Know traffic pattern of the job and obey flagmen, road signals and signals.

Keep machine under control - do not try to work machine over capacity.

For long moves, position boom in direction of travel.

Know the exact location of buried utility lines ... mark them clearly.

Use extreme care to avoid tipping when working on hills, banks or slopes.

If possible load trucks from the rear. Never swing over the truck cab ... and make sure the driver remains out of the truck during loading.

Look behind machine before and while backing.

Observe all gauges frequently - investigate improper readings.

Watch your boom clearance when traveling ... uneven ground may cause boom to weave or bob into power lines.

If it is necessary to work near power lines, check local or state codes.

If you hit a power line: Stay inside the cab until line is cleared or power is shut off.

Warn people not to come close to machine if in contact with power lines.

Keep boom away from all overhead lines. Treat all wires as hot until you have reliable information to the contrary.

Never exceed manufacturer's rating. Remember that many machines have some ratings limited by factors other than machine stability.

If machine begins to malfunction, shut down machine immediately.

Keep near-capacity loads as close to the ground as possible.

Check loads before moving them. First, determine the load weight and check against the capacity chart. Be sure lifting devices are of sufficient capacity. Before you start to lift be sure the lifting line is vertical. When lifting, avoid sudden starts and stops.

When loading a truck with an Excavator, raise the boom at the same time you extend the stick.

Be aware of reduced stability when swinging over side of track.

Do not handle large, heavy loads in strong winds. The wind can catch the load and create an unstable condition.

Avoid fast swings, hoists or sudden braking ... these can cause overloads.

When working in pit or high banks -

Keep check on pit men ... be quick to alert them if a cave-in appears imminent.

Beware of caving edges and overhanging banks.

Always position machine to let you get away quickly when digging high banks ... a slide may start.

Pull machine away from high banks or edges before shutting down.

Use caution on slopes ... tipping can occur if you travel with load beyond safe operating radius.

Do not swing load or equipment over workmen.

### **Mounting and Dismounting**

Always lower all equipment before dismounting.

Do not jump off machine. Use grab irons.

Lower attachments, engage safety control, shut off engine, and remove key.

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## **Symbol Identification**

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THESE PAGES EXPLAIN THE MEANING OF SYMBOLS THAT MAY APPEAR ON YOUR MACHINE.

ENGINE - HEAT		FUEL TANK		INSIDE AIR CIRCULATION		OFF	
ENGINE OIL		FUEL FILTER		OUTSIDE AIR CIRCULATION		ON	
ENGINE OIL FILTER		FUEL LEVEL		AIR FILTER		HYDRAULIC OIL FILTER	
ENGINE OIL LEVEL		FUEL PRESSURE		AIR PRESSURE		HYDRAULIC OIL LEVEL	
ENGINE OIL PRESSURE		FUEL SHUTOFF		COOLANT FLOW		HYDRAULIC OIL TEMPERATURE	
ENGINE - START OR RUNNING		VOLUME - FULL		COOLANT LEVEL		AMMETER OR ALTERNATOR	
ENGINE - STOP OR NOT RUNNING		VOLUME - ONE HALF FULL		COOLANT PRESSURE		COOLER CONTROL	
OIL PRESSURE		VOLUME - EMPTY		COOLANT TEMPERATURE		HEATER CONTROL	

DISENGAGE		BACKHOE - DIG 	LIGHT - ALL 	PRESSURIZED COMPARTMENT 
ENGAGE		BACKHOE - DUMP 	LIGHT - BRIGHT 	LEVER - MOVEMENT 
MAXIMUM		BACKHOE - STICK - IN 	LIGHT - DIM 	BRAKE - PARK 
MINIMUM		BACKHOE - STICK - OUT 	LIGHT - FLOOD 	BRAKE 
STEERING		BACKHOE - BOOM - LOWER 	LIGHT - INSTRUMENT 	CONTINUOUSLY VARIABLE 
TURN - LEFT		BACKHOE - BOOM - RAISE 	LIGHT - PARK 	LOCK 
TURN - RIGHT		BACKHOE - SWING - LEFT 	WINDSHIELD DEFROSTER CONTROL 	UNLOCK 
TRACTOR - FORWARD		BACKHOE - SWING - RIGHT 	WINDSHIELD WASHER CONTROL 	HORN CONTROL 
TRACTOR - REVERSE		LIFT POINT 	WINDSHIELD WIPER CONTROL 	HOURS 



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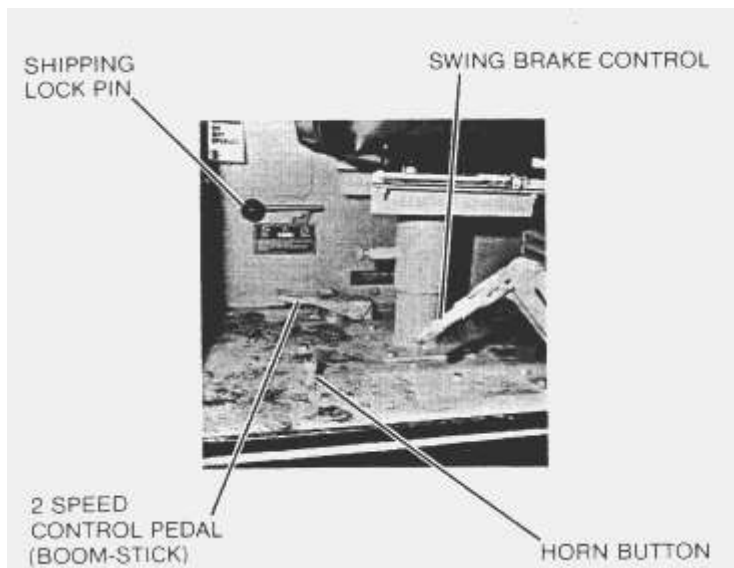
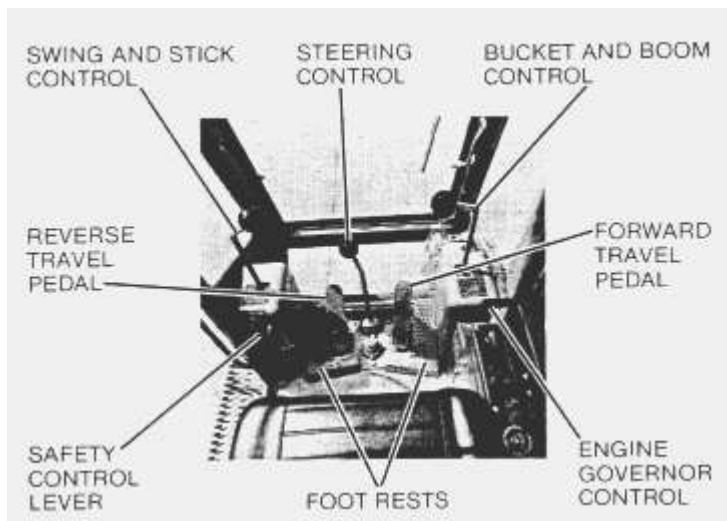
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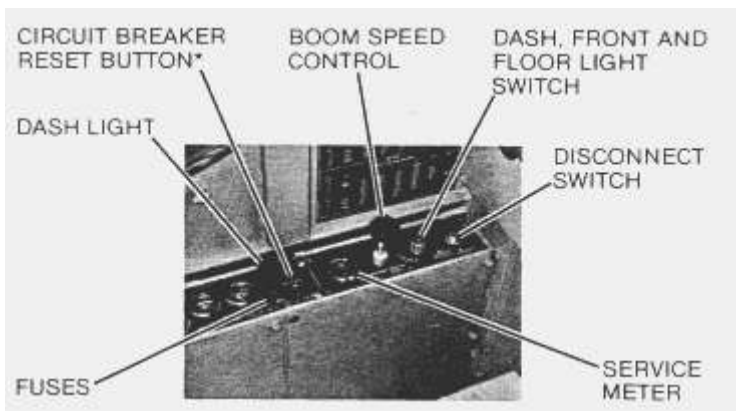
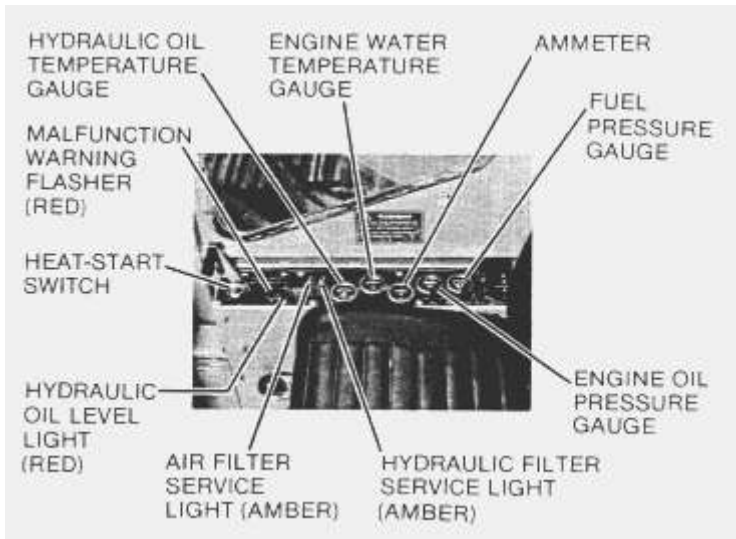
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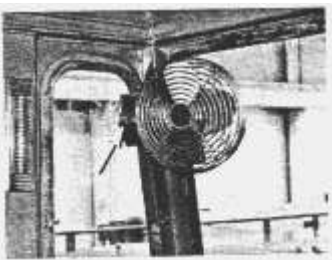
# Operator's Compartment

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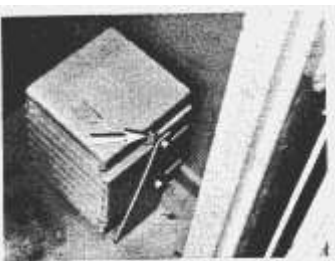




\*Push down on button to reset open circuit breaker. Stop Excavator and check for electrical problem if circuit breaker opens again.



VENTILATION FAN SWITCH <sup>1</sup>



HEATER SWITCH <sup>1</sup>

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