



# Operation and Service Manual

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# CAMMOND INDUSTRIES, INC.

# Operation and Service Manual

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## Unit Information

Date of Purchase \_\_\_\_\_  
Model NO \_\_\_\_\_  
Serial NO \_\_\_\_\_

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## Warning

To prevent possible personal injury or death during assembly, installation, operation, adjustment or removal of implement, DO NOT wear loose clothing, ALWAYS wear gloves and safety glasses or face shield. KEEP OTHER PERSONS AWAY FROM ANY UNIT UNDER POWER.

**READ THIS BEFORE OPERATING A CAMMOND SCRAPER OR REAR BLADE!**

## Training

Know your controls. Read this operator's manual and the manual provided with your tractor.

Learn how to stop the tractor engine quickly, in case of an emergency.

Do not allow children or adults to operate machine without proper instructions.

## Preparation

Clear the area of debris.

Never permit any person other than the operator to ride on board of the tractor at anytime.

DO NOT allow riders on scrapers or rear blade at any time.

Operate only in daylight or good artificial light.

Always wear relatively tight and belted clothing when operating equipment. Loose clothing should not be worn, as it could get caught in the moving tractor parts or controls.

Always insure 20% of the tractor and equipment weight is on the tractor's front wheels with the unit in transport position. Without this weight, the tractor could tip over causing personal injury or death. The weight may be attained with front wheel weights, ballast in tires or front tractor weights. When attaining the minimum 20% weight on front wheels, you must not exceed the Roll Over Protection Structure (ROPS) weight certification. Weigh tractor and equipment. DO NOT GUESS OR ESTIMATE WEIGHT.

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## Maintenance Safety

Lower CAMMOND unit to the ground, set tractor locking system device, turn tractor engine off and remove key before performing any service or maintenance.

Block unit securely before working underneath.

Keep all persons away from operator control area while performing adjustments, service or maintenance.

Periodically tighten all bolts and nuts to ensure unit is in a safe working condition.

Before operating the unit, always check to make sure that the lynch pins are in lock position, so the lift pins do not work their way out.

## Servicing Instructions

### Cutting Edge

For reversing the cutting edge:

- Remove 5/8" plow bolts

- Remove the cutting edge from moldboard and re-install with the sharp edge down

- Replace when both edges are worn out

### Bolts

Keep all bolts tight at all times by checking them periodically. Replace the bolts only with those having the same marks on the heads as an original bolt. Marks on bolt head indicate high strength.

### Bolt Torque

BOLT	MINIMUM	MAX
5/8"	150Ft./Lbs	180 Ft./Lbs

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## Safety Information

### Operational Safety

Read and observe all safety decals on the tractor of CAMMOND equipment.

Do not stop or start suddenly when going uphill or downhill. Avoid operation on steep slopes.

Be alert for holes in terrain and other hidden hazards. Always drive slowly over rough ground.

Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Be careful when changing direction on slopes.

Stop tractor immediately upon striking an obstruction. Turn off engine, inspect and repair any damage before resuming operation.

Take all possible precautions when leaving tractor unattended; lower scraper or rear blade, shift into neutral, set parking break, stop engine and remove key from ignition.

Front tractor weights or front tire ballast should be used to enhance front-end stability on small tractors.

Never work under scraper or rear blade.

This implement is designed for a one-man operation. It is the responsibility of the tractor operator to see that no one is near the implement while in use.

No riders are allowed on tractor or CAMMOND equipment.

Make sure area behind your tractor is clear before operating in reverse.

Keep alert and watch ahead as well as behind the tractor when working with the scraper and rear blade.

Ensure equipment is properly mounted to tractor before making adjustments.

Always be sure the unit is in the fully raised position when in transport.

When turning close to buildings or passing through narrow areas, be sure to allow sufficient clearance for the attached unit.

Use extra caution when backfilling deep holes or trenches.

Always use the tractor's anti-sway bars, blocks or chains to prevent side-sway. This is a must when using the scraper for backfilling.

Make adjustments using hydraulic controls when seated in operator's position.

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## Lubrication

CAMMOND Industrial Box Scraper: Lubricate bell crank every 50 hours of use.

CAMMOND Hydraulic Rear Blade: Lubricate king pin every 50 hours of use.

## Assembly Instructions

Attach CAMMOND Box Scraper or Rear Blade to 3-point hitch lower lift arms using pins supplied.

Attach 3-point top link to A-frame mast on unit using pin supplied.

Make sure the CAMMOND unit is sitting on the ground and the tractor's safety device is set.

Install fittings (dealer supplies) to the hydraulic cylinder.

Install quick couplers (dealer supplied) to the hydraulic hoses (dealer supplied). Connect hoses to fittings on cylinder and couple other end to tractor hydraulic valve

Crack fitting on cylinder and cycle on order to remove air from the system.

Raise CAMMOND unit off the ground with tractor 3-point hitch.

Extend cylinder to raise shank bar to upper position on box scrapers to activate tilt and angle and offset on rear blades.

Retract cylinder to lower shank bar to working position. On the CAMMOND Industrial Box Scraper be certain to check that the bell crank has fully engaged onto the frame link lug to avoid pressure on the cylinder and linkage when in use.

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A Pinch Point Hazard safety decal is located on all CAMMOND Equipment. If the safety decal should become defaced or destroyed, a replacement decal is available at no cost by calling CAMMOND toll-free.