

**HONDA**

**Power**

**Equipment**

**HTA**

# **OPERATOR'S MANUAL**

**FRONT QUICK-HITCH**

**MODEL NO. QH6000**

(Includes DK6000 Drive Kit)

**60" FRONT DOZER BLADE**

**MODEL NO. DB6560**

**57" TWO STAGE SNOWBLOWER**

**MODEL NO. SB6557**

**60" FRONT ROTARY BROOM**

**MODEL NO. FS6560**

*for*

**Honda H6522**

**Compact Tractor**



Thank you for purchasing an HTA attachment for your Honda Tractor.

This manual covers the assembly, operation and maintenance of the following HTA attachments:

- o QH6000 Subframe with Quick Hitch System
- o DB6560 60" Dozer Blade
- o DK6000 Drive kit
- o SB6557 57" Two Stage Snowblower
- o FS6560 60" Rotary Broom

For your convenience, a parts guide is also included in this publication.

**NOTE:** The information in this publication is based on the latest product information available at the time of printing. American Honda Motor Co., Inc. reserves the right to make changes at any time without notice and without incurring any obligation.

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Pay special attention to the statements preceded by the following symbols:

**⚠ DANGER** : Indicates ~~that~~ serious injury **or** death **WILL** result **if** instructions are not followed.

**⚠ WARNING** : Indicates a strong possibility ~~that~~ serious injury **or** death can result if instructions are not followed.

**⚠ CAUTION** : Indicates a possibility ~~that~~ minor injury can result if instructions are not followed.

**NOTICE** : Indicates that equipment **or** property damage can result if instructions are not followed.

**NOTE** : Gives helpful information.

HTA attachments are designed to give safe and dependable service if assembled and operated according to instructions.

If a problem should arise, or if you have any questions about your attachment(s), consult an authorized Honda compact Tractor dealer.

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**A CAREFUL OPERATOR IS THE BEST OPERATOR- MOST ACCIDENTS CAN BE AVOIDED BY OBSERVING CERTAIN PRECAUTIONS- READ AND TAKE THE FOLLOWING PRECAUTIONS BEFORE OPERATING THESE ATTACHMENTS TO HELP PREVENT ACCIDENTS- EQUIPMENT SHOULD BE OPERATED ONLY BY THOSE WHO ARE RESPONSIBLE AND INSTRUCTED TO DO SO-**

#### **THE ATTACHMENT (S)**

1. Read this manual carefully to acquaint yourself with the equipment as well as the tractor operator's manual. Working with unfamiliar equipment can lead to accidents. Be thoroughly familiar with the controls and proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
2. Keep all shields in place and properly tighten all mounting hardware.
3. Periodically inspect all moving parts for wear and replace with authorized service parts if an excessive amount of wear is present.
4. Replace all missing, illegible, or damaged safety and warning decals. See list of decals at the end of your attachment(s) section(s).
5. Do not modify or alter this equipment or any of its components, or any equipment function without first consulting an authorized Honda compact tractor dealer.
6. Keep safety decals clean of dirt and grime.

#### **GENERAL PREPARATION**

1. Be sure the PTO is in OFF position before starting the engine.

2. Clothing worn by the operator should be fairly tight and belted. Loose clothing can easily become caught on moving parts or controls.
3. Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable noises.

#### **OPERATING THE ATTACHMENT(S)**

**TO HELP PREVENT ACCIDENTS THE FOLLOWING PRECAUTIONS SHOULD BE TAKEN BEFORE OPERATING EACH OF THESE ATTACHMENTS.**

1. Never allow anyone to ride on the attachment.
2. Clear the area of people and debris before commencing operation.
3. Never allow children to operate equipment. Never allow adults to operate equipment without proper instruction.
4. Always keep the attachment discharge directed away from people and objects which could be struck by debris.
5. Never allow anyone in front of unit.
6. Never leave attachment in raised position.
7. Never operate the attachment without good visibility and lighting.
8. Never clean or adjust PTO-driven equipment with the tractor engine running.

## SAFETY PRECAUTIONS

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9. When operating PTO-driven equipment, always shut off the engine and wait for the PTO to stop turning before getting off the tractor, before unplugging the collector/impeller housing or discharge chute and before making any repairs, adjustments or inspections.
10. Take all possible precautions when leaving the vehicle unattended. Disengage the PTO, lower the attachment, shift into neutral, set the parking brake, stop the engine and remove the key.
11. Disengage power to attachment when transporting or when not in use.
12. The operator must never get off the tractor while it is in motion.
13. Exercise extreme caution when operating on or crossing gravel drives, walks or roads. Stay alert for the hidden hazards of traffic.
14. Do not put hands or feet near rotating parts. Keep clear of discharge opening at all times.
15. Do not use hands or feet to unplug spout.
16. Keep a careful watch for debris that could enter the blower while operating.
17. Never operate the attachment without guards, shields and other safety protective devices in place.
18. Never operate machine at high transport speeds on a slippery surface.
19. Use care when backing up.
20. After striking a foreign object, stop the engine, wait for all movements to stop, thoroughly inspect the attachment for damage and repair the damage before restarting and operating the attachment.
21. If the sweeper or snowblower should start to vibrate abnormally, stop the engine immediately and check for the cause. Vibration is generally a warning of trouble.
22. Do not clear snow across the face of slopes. Exercise extreme caution when changing direction on slopes. Do not attempt to clear steep slopes.
23. Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injury.
  - Do not use your hands to check for leaks. Use a piece of cardboard or paper to search for leaks.
  - Stop engine and relieve pressure by moving valve handles back and forth before connecting or disconnecting lines.
  - Tighten all connections before starting engine or pressurizing lines.If any fluid is injected into the skin, it may result in gangrene if the fluid is not surgically removed within a few hours by a doctor familiar with this form of injury.

**THE TRACTOR**

1. Read the Operator's Manual carefully before using tractor. Lack of operating knowledge can lead to accidents.
2. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.
10. Keep the tractor in gear when going downhill.
11. Use of tire chains and wheel weights for better traction and stability is recommended. See Tractor Manual for recommended weighing.
12. Always drive the tractor at speeds compatible with safety, especially when operating over rough ground, crossing ditches, or when turning.

**OPERATING THE TRACTOR**

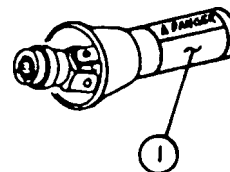
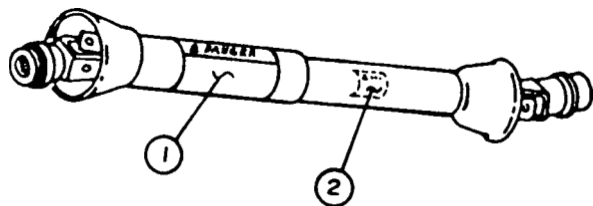
1. Never start the engine while standing beside the tractor. Always sit on the tractor seat while starting the engine or operating controls.
2. Never run the tractor engine in a closed building without adequate ventilation as the exhaust fumes are very dangerous.
4. Never allow an open flame near the fuel tank or battery.
5. Use a slow moving vehicle (SMV) emblem and the flasher warning lamps when traveling on public roads, day or night, unless prohibited by law in your state.
6. Make sure the PTO shield is installed when using PTO-driven equipment and always replace PTO shield if damaged.
7. Always bring the tractor to a complete stop and shut off the engine before getting off the tractor.
8. Never park the tractor on a steep incline.
9. Use care when operating on steep grades to maintain proper stability.

**MAINTENANCE AND STORAGE**

1. Provide adequate blocking before working under an attachment when in raised position.
2. Make certain all moving parts have stopped before cleaning, repairing or inspecting.
3. Do not run engine indoors.
4. Do not attempt to repair or perform maintenance when the tractor engine is running, or when the attachment is raised.

REPLACE IMMEDIATELY IF DAMAGED

DK6000 (drive kit)



1. (U.S.A. only)



1. (CANADA only)



2. (U.S.A & CANADA)  
Visible only if shield is missing.



## OPERATION

### **RAISING & LOWERING ATTACHMENTS**

#### **(Dozer Blade, Snowblower, Rotary broom)**

Attachments can be raised or lowered using the right hand (farthest from operator) valve handle: Float position is obtained by pushing the right handle fully forward.

### **AUXILIARY VALVE**

This valve (closest to operator) is used either for power angling on the rotary broom and on the dozer blade or for the chute rotation on the snowblower. If motion is contrary to attachment operation instructions, simply switch attachment male quick coupler locations.

## MAINTENANCE SERVICE AND STORAGE

1. Never store the tractor with fuel in the fuel tank inside a building where open flame or sparks are present. Allow the engine to cool before storing in any enclosure.

## LUBRICATION

1. ■ **DRIVELINE:** Grease each u-joint fitting every 8 hours of operation. Slide drive shaft apart and coat sliding surfaces with grease every 24 hours of operation.
2. ■ **SUBFRAME:** Grease all fittings on lift and on subframe attaching points every 8 hours of operation.

## STORAGE

1. ■ Clean the subframe thoroughly.
2. ■ Repaint all parts from which ~~paint~~ has worn.
3. ■ When the subframe is dry, oil all moving parts.
4. ■ Lubricate the subframe **as** instructed above.
5. ■ Store the subframe and attachment(s) in a dry place.

## SUBFRAME - ASSEMBLY

**NOTICE** Before beginning assembly of this subframe, please read the instructions through completely and familiarize yourself with all the parts. After completing assembly, torque all bolts according to the torque specification table on page 71.

### STEP 1: SUBFRAME ASSEMBLY

- a) Assemble front section (fig.1, item 1) and rear section (fig.1, item 2) of the subframe together, using three  $5/8"$  x  $1\ 3/4"$  bolts (fig.1, item 3), lockwashers and nuts. Tighten securely.

**NOTE:** Rear section of subframe must be installed with reinforcement plates on bottom side.

- b) Attach valve support (fig.1, item 4) to right hand side of subframe using one  $1/2"$  x  $1\ 3/4"$  bolts (fig.1, item 5), lockwasher and nut in front hole and a  $5/8"$  x  $2\ 1/2"$  bolt (fig.1, item 6), lockwasher and nut. Tighten securely.
- c) Attach male quick hitch (fig.1, item 7) to subframe (fig.1, item 1) by inserting the  $3/4"$  x  $11\ 13/16"$  pin (fig.1, item 8) through the left hand side of the quick hitch and through the subframe front section. Lock the pin in place on right hand side of subframe using a  $5/16"$  x  $1\ 3/4"$  bolt (fig.1, item 9) and nylon nut. Tighten securely.
- d) Install  $1/2"$  x 3" handle grip on male quick hitch lever.
- e) On the  $2"$  x  $6\ 1/4"$  lift cylinder (fig.2, item 1) install two  $90^\circ$  elbows (fig.2, item 2),  $1/4"$  male x  $1/4"$  female swivel in cylinder port using thread sealant. Cylinder base end being 12 o'clock, place base end elbow at approximately 10 o'clock and rod end elbow at 12 o'clock.
- f) Install lift cylinder base end (fig.2, item 1) between the welded tube and side plate of subframe. Attach cylinder base end in place with a  $3/4"$  x  $6\ 5/8"$  pin (fig.2, item 3) making sure the hole in the pin is vertical. Lock the pin in place using a  $1/4"$  x 1" roll pin (fig.2, item 4).

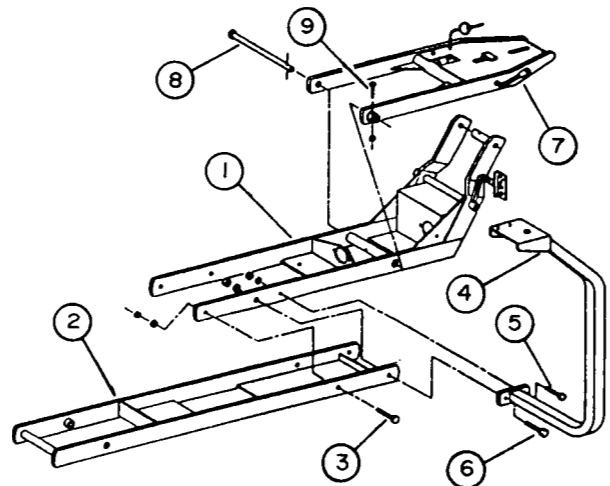


FIGURE 1

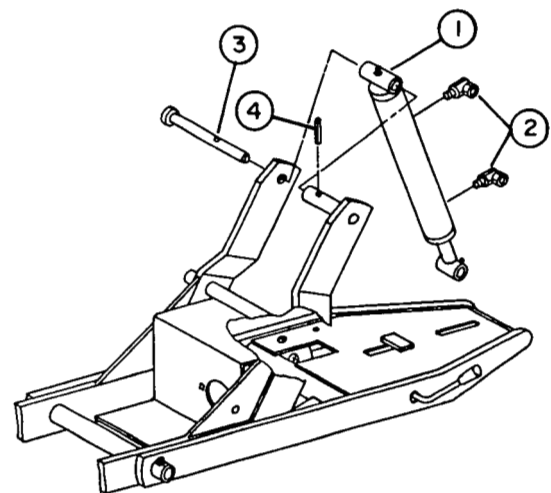


FIGURE 2

- g) Install cylinder rod end (fig.3, item 1) into the male quick hitch, making sure the grease fitting is on front side, and secure with a  $\frac{3}{4}$ " x  $4\frac{1}{2}$ " pin (fig.3, item 2) on the right hand side of the male quick hitch (make sure hole in pin is vertical). Lock the pin in place with a  $\frac{1}{4}$ " x 1" roll pin (fig.3, item 3) through the right hand welded tube in the male quick hitch.

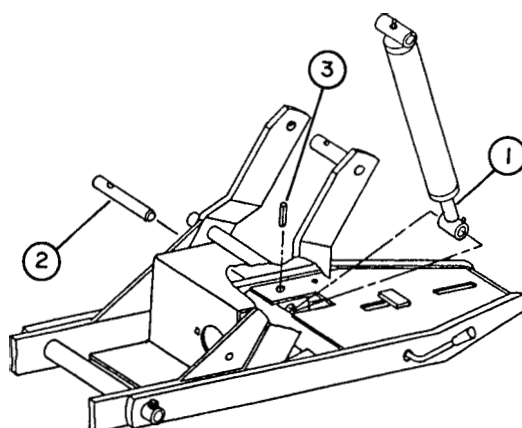


FIGURE 3

## STEP 2: MID PTO KIT INSTALLATION

**NOTE:** If you do not require this kit, skip over this section and go directly to Step 3.

- a) Install  $19\frac{1}{2}$ " shaft (fig.4, item 1) in front section of subframe, using two 1" bearings, four bearing retainers (fig.4, item 2) (placed on rear side of cross plates), and four  $\frac{5}{16}$ " x  $\frac{3}{4}$ " carriage bolts, lockwashers and nuts. Install the two bearings and locking collars. Adjust shaft so that  $3\frac{3}{4}$ " extends from the rear cross plate. Lock the shaft in place by turning the eccentric collars in a clockwise direction (viewed from rear of subframe).
- b) Attach long end of driveline (fig.4, item 3) to the shaft in subframe by sliding back the locking collar on yoke and pushing driveline yoke over the shaft until the locking collar snaps back.
- c) Install driveline guard (fig.4, item 4) on the front section of the subframe using one  $\frac{5}{16}$ " x  $1\frac{1}{4}$ " bolt (fig.4, item 5), in the front hole, placing a lockwasher on the bolt, then placing the bolt through the subframe, then through a  $\frac{1}{2}$ " long sleeve (fig.4, item 6), and through the guard. Use a  $\frac{5}{16}$ " x 1" bolt (fig.4, item 7) to attach the rear guard bracket to the subframe, securing with a  $\frac{3}{8}$ " flatwasher, lockwasher and nut. Tighten securely.

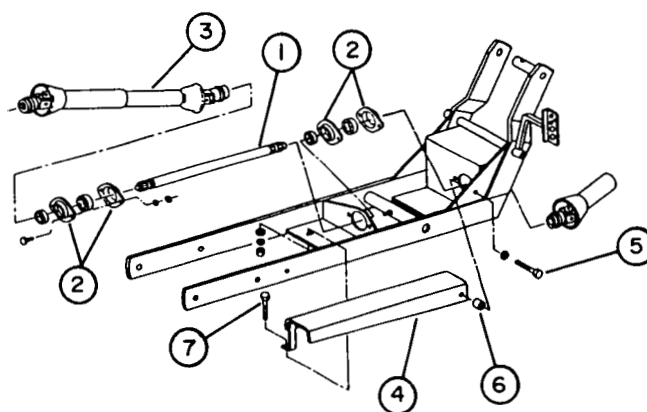


FIGURE 4

## SUBFRAME - ASSEMBLY

### STEP 3: VALVE AND HOSE INSTALLATION

- a) Thread the four 3/8" NPT male x 7/16" male connectors (fig.5, item 1) and two 1/2" NPT male x 9/16" male connectors (fig.5, item 2) in the appropriate valve ports, using thread sealant.
- b) Install valve (fig.5, item 3) on underside of valve support (fig.5, item 4) using three 5/16" x 2 1/4" bolts, lockwashers and nuts. Tighten securely.
- c) Thread both handles on valve(simultaneously) as in figure 1 on page 24. Tighten nuts.
- d) Place two rubber grommets (fig.6, item 1) inside the two lower holes of the hose support, and route the two 1/4" hoses described below through the grommets.
- e) Install one 1/4" x 76" hose in the cylinder base end elbow, routing the other end with the short bend to the valve, and connect to the fitting in the right hand front port.
- f) Install one 1/4" x 78" hose in the cylinder rod end elbow. Route other end with the long bend to the valve and connect to the fitting in the right hand rear port-
- g) Place straight end of 62" hose (fig.6,item 2) through the hole second from the top of the coupler bracket. Place a nylon washer on the hose end, and install a female quick coupler (with the yellow I.D. ring over threaded portion) using thread sealant. Route the other end with the short bend to the valve, connecting to the fitting in the left hand front port.
- h) Place straight end of the 64" hose (fig.6, item 3) through the top hole of the coupler bracket. Place a nylon washer on the hose end, and install female quick coupler(fig.6, item 4)(with the green I.D. ring over threaded portion) using thread sealant. Route the other end with the short bend to the valve, connecting to the fitting in the left hand rear port.

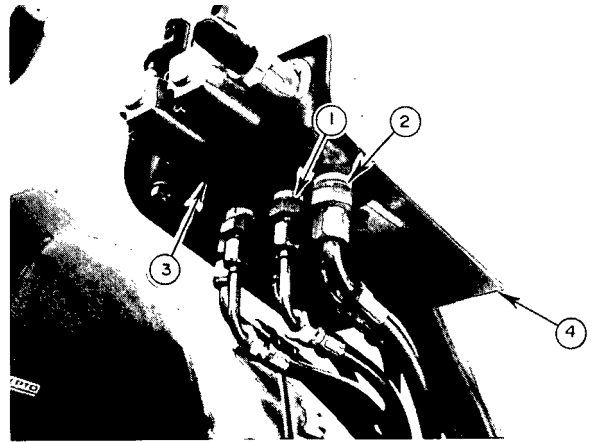


FIGURE 5

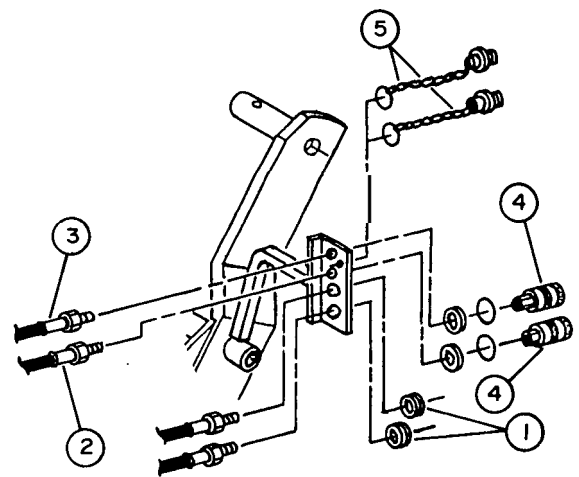


FIGURE 6

- i) Install a male quick coupler on the 3/8" x 30" hose using thread sealant and connect other end of hose to the fitting in the right hand inlet port on valve.
- j) Install a female quick coupler at one end of the 3/8" x 30" hose using thread sealant. Connect other end of hose to the fitting in the left hand outlet port on valve.
- k) Install dust cap rings (fig.6, item 5) in small hole of coupler bracket.

**STEP 4: TRACTOR PREPARATION**

- a) Install rear hitch bracket (fig.7, item 1) under the tractor drawbar, using a 3/4" x 3 3/4" bolt (fig.7, item 2), lockwasher and nut. Tighten lightly.
- b) Install quick hitch front brackets (fig.8, item 1) on the tractor engine side rails.

NOTES: If equipped with mid mount mower, the mower bracket remains on the tractor.  
If equipped with the mower and loader, or loader only, the loader subframe and mower brackets remain on the tractor.

- If your tractor is already equipped with loader and mid mount mower, remove the existing eight bolts from the front brackets on the engine side rails, one side at a time, and replace with seven 12mm x 50mm bolts (fig.8, item 2) and lockwashers, placing two quick hitch front brackets on the outside of the loader brackets. Tighten lightly.
- If your tractor is equipped with mid mount mower only, use 1/2" shims provided between the mower and quick hitch brackets. If your tractor has neither loader nor mower, use the 1/2" and the 3/8" shims provided to each side between the engine side rail and quick hitch bracket.

- c) Install one hose support bracket (fig.8, item 3) on right hand front support bracket, in the lowest rear hole, using a 12mm x 60mm bolt and lockwasher through support bracket and tractor frame.

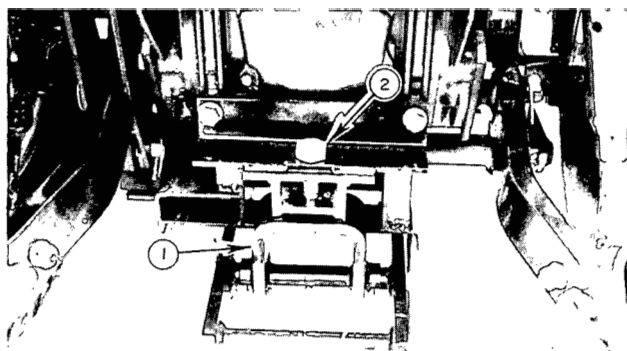


FIGURE 7

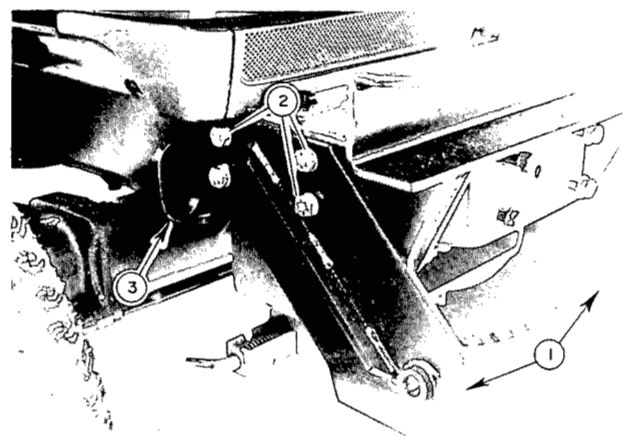


FIGURE 8

## SUBFRAME - ASSEMBLY

- d) Install second hose bracket (fig.9, item 1) in the engine side rail, in the first lower hole rear of the front right attaching bracket, using an M12 x 25mm bolt (fig.9, item 2) and lockwasher if the tractor does not have a loader. If the tractor has a loader, use an M12 x 60mm bolt and lockwasher.

### STEP 5: ATTACHING FRAME TO TRACTOR

- a) Carefully place tractor over subframe assembly running the front right hand tire over the valve support as shown in figure 10. Do not run the tractor wheels over the hydraulic hoses. Place hydraulic hoses over front right hand wheel. Make sure the front section of the subframe is in between the front support brackets and the rear attaching point is under rear hitch plate. The subframe must be parallel to tractor length in the center of the tractor.
- b) With the engine turned off, connect valve to tractor oil supply (fig.9, item 3).

**⚠ WARNING** Escaping hydraulic fluid (oil) under pressure can penetrate the skin causing serious injury.

- o Do not use your hands to check for leaks. Use a piece of cardboard or paper to search for leaks.
- o Stop engine and relieve pressure by moving valve handles back and forth before connecting or disconnecting lines.
- o Tighten all connections before starting engine or pressurizing lines.

If any fluid is injected into the skin, it may result in gangrene if the fluid is not surgically removed within a few hours by a doctor familiar with this form of injury.

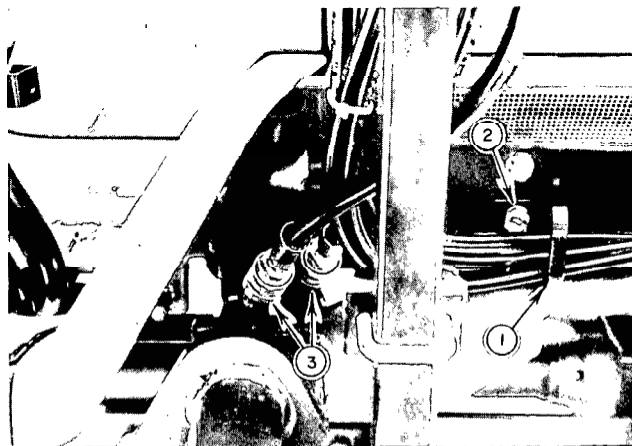


FIGURE 9

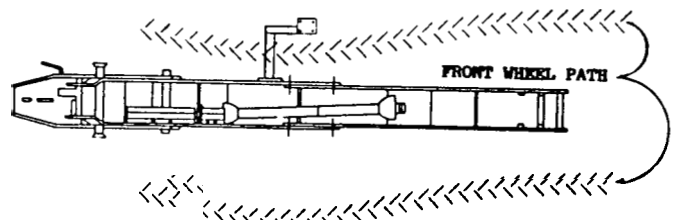


FIGURE 10

- c) Sitting on the tractor seat, start engine, set parking brake and, using the hydraulic valve lever carefully lower front end of subframe so that the welded tube (fig.11, item 1) on the subframe front section raise into place inside the support brackets. Lower front section until the weight is off the front tires. Turn engine off. Attach the front end of the subframe to the front attaching brackets with the  $\frac{3}{4}$ " x  $17 \frac{1}{8}$ " pin (fig.11, item 2). Lock the pin in place with a 4mm x 80mm hair pin (fig.11, item 3).
- d) Install hoses in the hose support brackets.
- e) If using drive kit, connect mid drive line to tractor mid PTO shaft, making sure yokes are well secured to shafts.

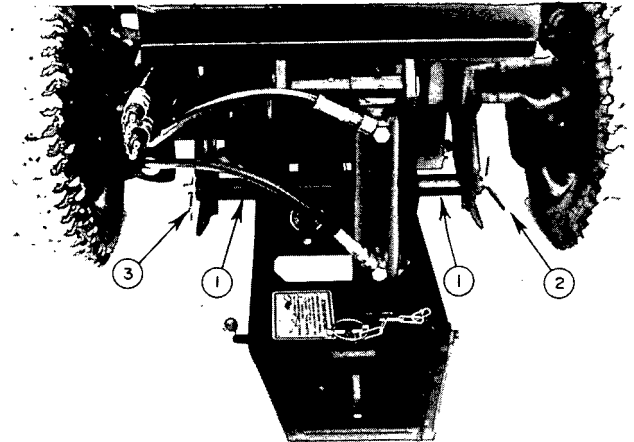


FIGURE 11

**⚠ WARNING:** This shaft turns at very high RPM. If the collar is not locked to shaft in subframe, or if the yoke at the tractor end is not secured properly, the driveline can fly loose with great force capable of causing serious injury or death.

- f) Before installing the rear section of the subframe, start the tractor and lift hydraulically the front male hitch or the implement if installed. Turn the engine off.
- g) Attach rear section of subframe (fig.12, item 1) to the rear hitch plate (fig.12, item 2) using the  $\frac{3}{4}$ " x  $8 \frac{7}{8}$ " pin (fig.12, item 3). Lock the pin with a 4mm x 80mm hair pin (fig.12, item 4).
- h) Tighten bolts on support brackets and rear hitch bracket, according to Torque Specification Table on page 71. Then tighten all bolts on the subframe according to the Torque Table. Make sure the  $8 \frac{7}{8}$ " pin (fig.12, item 3) can be removed easily. If it does not move easily, re-adjust the front attaching brackets.

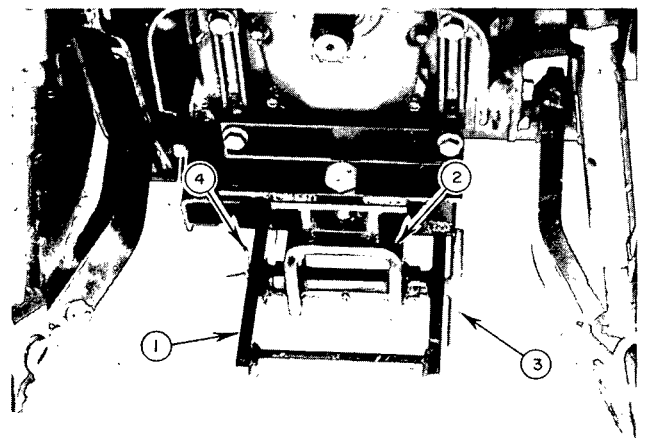


FIGURE 12

## SUBFRAME - ASSEMBLY

- i) Attach L-bracket (fig.13, item 1) to tractor right hand engine side rail in line with valve support using 12mm x 30mm bolt with a lockwasher if tractor does not have loader or a 12mm x 70mm bolt with lockwasher if equipped with loader.
- j) Insert link (fig.13, item 3) in welded sleeve (fig.13, item 2) on valve support and in L-bracket. Secure using two 3mm x 65mm hair pins (fig.13, item 4).
- k) Secure hoses together using the two provided nylon ties, placing one between the two hose brackets and the other between the coupler support and the first hose bracket.

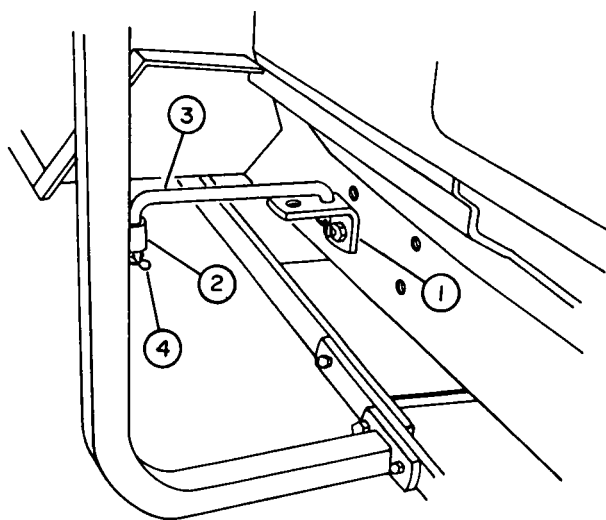


FIGURE 13



## DISMOUNTING

- a) Sitting on the tractor seat, raise the attachment to transport position. Turn engine off, wait for all movement to stop, and set parking brake.
- b) Remove link (fig.13, item 3) from bracket on tractor.
- c) Remove the hairpin from the 8 7/8" pin under the tractor drawbar and remove the 8 7/8" pin.
- d) Sitting on the tractor seat with the engine running, carefully lower the attachment by applying light pressure to the valve lever, until the rear section of the subframe touches the ground and the weight is off the front tires are off the ground.
- e) Disconnect the mid driveline and place along the centre of the subframe.
- f) Remove the 17" front pin.
- g) Place the valve in float position (fully forward), so that the subframe is flat on the ground.
- h) Move the hydraulic valve levers back and forth to relieve the hydraulic pressure. Disconnect the hydraulic hoses from the quick couplers on the tractor. Remove the hoses from their supports on the, engine side rail. Connect the two hoses together by connecting the male and female couplers. Install dust plugs on tractor couplers.
- i) Carefully back the tractor over the subframe as shown in Figure 11, running the front right hand tire over the valve support bracket. **Do not back over the driveline or the hydraulic hoses.**

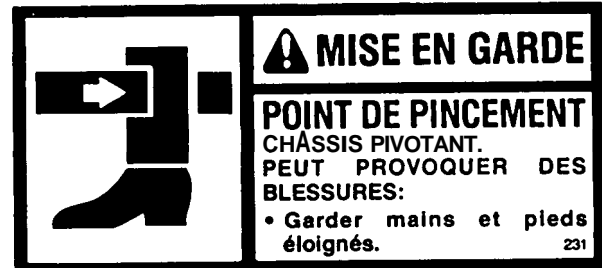
## REMOUNTING

- a) Carefully drive tractor over subframe, running the front right hand wheel over the valve support bracket as shown in Figure 11. Place tractor so that the subframe front pin points are under the front support brackets, and that the subframe rear pin point is in line with the tractor drawbar. Turn engine off and set parking brake.
- b) Remove the dust plugs from the couplers, and connect valve inlet and outlet hoses to the tractor oil outlet coupler.
- c) Sitting on the tractor Seat, start engine, and carefully lower male hitch (& attachment), using the hydraulic valve lever, until subframe front pin points are inside the front brackets, and until the weight is off the front tires. Stop the engine.
- d) Attach the front end of the subframe to the front attaching brackets with the 3/4" x 17" pin. Lock the pin in place with a 4mm x 80mm hair pin.
- e) Install hoses in the hose support brackets.
- f) Connect the mid driveline to the tractor mid PTO, as per instructions of section e on page 13.
- g) Sitting on tractor seat with the engine running, carefully raise male hitch (& attachment) completely using the hydraulic valve lever. Turn engine off and wait for all movements to stop.
- h) Attach rear section using the 8 7/8" pin through the subframe and drawbar attachment. Secure with the hair pin.
- i) Attach link (fig.13, item 3) to bracket and secure on underside with hair pin.

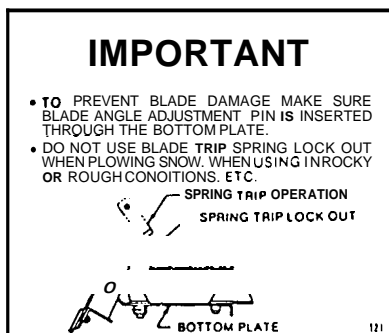
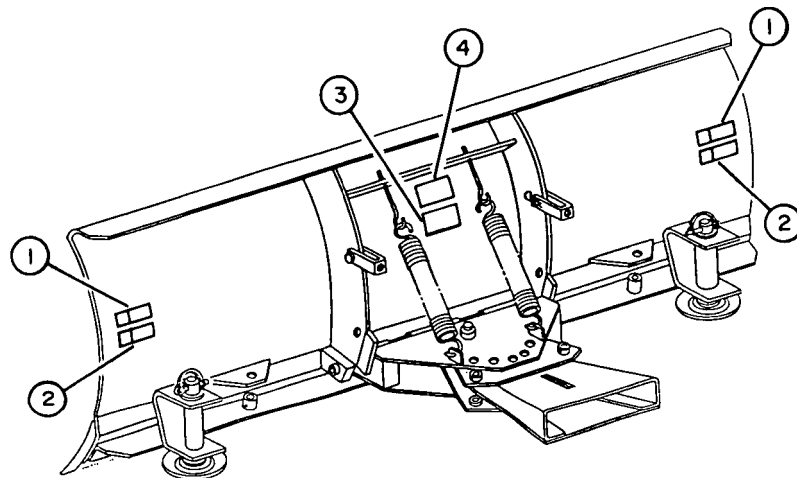
REPLACE IMMEDIATELY IF DAMAGED



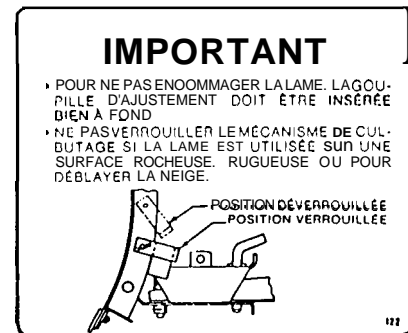
1. (U.S.A. & CANADA)



2. (CANADA only)



3. (U.S.A. & CANADA)



4. (CANADA only)

## OPERATING CONTROLS

### 1. RAISING AND LOWERING FRONT BLADE

See 'RAISING & LOWERING ATTACHMENTS' on page 7.

### 2. HYDRAULIC ANGLING

When the valve handle is pushed forward, the blade rotates in a counterclockwise direction to the left, and pulling back on handle rotates the blade to the right. See subframe or tractor operator's manual for accessory valve location.

## ADJUSTMENTS

**⚠ WARNING** Before making any adjustment, turn engine off and set parking brake .

### 1. RIGID BLADE OPERATION

**NOTICE** Use rigid blade only for low ground speeds up to 2 mph.

To obtain rigid blade operation, move the trip spring lockout brackets to the lower holes, hooking over the blade frame. Attach in place with the 3/8" x 1 7/16" pins and secure with 3mm x 6mm hairpins.

### 2. SKID SHOE ADJUSTMENT

Raise blade to transport position. Remove the linchpin (fig.1, item 6) from both skid shoes (fig.1, item 5). Remove or add shim washer(s) (fig.1, item 4), placing washers on under side of support brackets for more clearance (there must always be at least one shim washer on top side of support bracket). Reinstall linchpins.

## **BLADE - MAINTENANCE & DISMOUNTING**

---

### **Maintenance**

1. Remove dirt from pivot points and angling cylinders every 4 hours of operation, especially in cold weather.

### **Lubrication**

1. Grease the fitting on pivot pin and at the rod end of each cylinder every 8 hours of operation.
2. Oil all moving parts every month.

### **Before storage**

1. Clean the blade thoroughly.
2. Repaint all parts from which paint has worn.
3. When the blade is dry, oil all moving parts. Apply oil liberally to protect against rust.
4. Store blade in a dry place.

### **DISMOUNTING**

- a) Set tractor parking brake, stop engine and remove ignition key. Place lift lever in float position and relieve hydraulic pressure by moving valve handles back and forth.
- b) Remove linchpin (fig.4, item 4) from the quick hitch latch.
- c) Move the quick hitch lever (fig.4, item 3) to the unlock position (rearward). Disconnect blade cylinder hoses from tractor.
- d) Remove blade from subframe.

**NOTE:** Before mounting this attachment on your tractor, your tractor must be mounted with a **HTA QH6000** subframe.

**STEP 1: BLADE ASSEMBLY**

- a) Install the female quick hitch (fig.1, item 1) inside the blade attachment (slot on top side) using a 23/32" dia. x 4 11/16" long pin (fig.1, item 2). Lock the pin in place with a 1/4" x 1 1/2" bolt & nylon lock nut on the underside of the blade attachment.
- b) Install grease fitting (fig.1, item 3) on pin (fig.1, item 2).
- c) Hook one end of the two springs to the attaching brackets (fig. 2, item 1) on the blade frame. Place a 5/16" x 5" eye bolt (fig.2, item 2) on the other end of each spring. Insert the eye bolts through the holes in the upper blade cross member (fig.2, item 3) as shown in figure 2. Secure the eye bolts with 5/16" nuts. Adjust eye bolts so that the spring lengthens 3/4". Lock eye bolts with two other 5/16" nuts.
- d) Place four shim washers (fig.1, item 4) over each skid shoe (fig.1, item 5). Insert one skid shoe in each support bracket from underside. Place two shim washers over each skid shoe on top side of support bracket and secure skid shoes with linch pins (fig.1, item 6).
- e) Install the trip spring lockout brackets (fig.1, item 7) in the upper holes behind the blade. Lock in place with the 3/8" x 1 7/16" pins and the 3mm x 65mm hairpins.

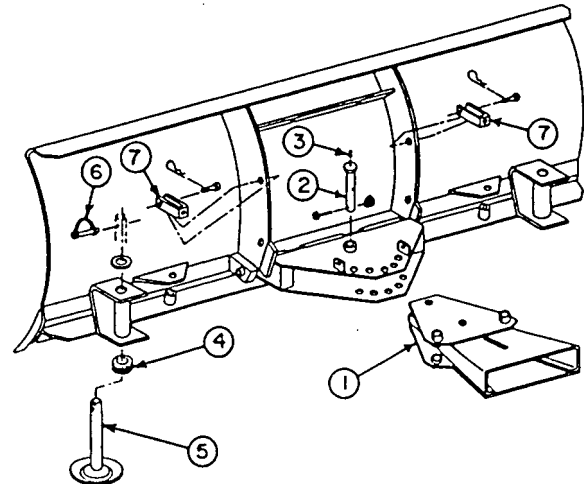


FIGURE 1

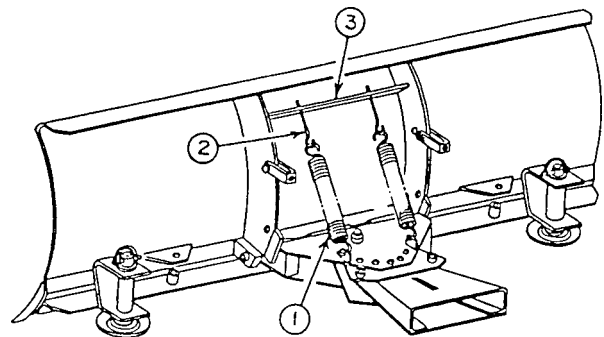


FIGURE 2

## BLADE - ASSEMBLY

### STEP 2: HYDRAULIC ANGLING INSTALLATION

- a) Install base end of the two cylinders on the blade (cylinder ports on top side) using two  $7/8" \times 2 7/8"$  pins (fig.3, item 1). Lock the pins on the underside with  $1/4" \times 1 3/4"$  bolt & nylon lock nut.
- b) Place a breather plug (fig.3, item 2) in the rod end port of each cylinder using thread sealant.
- c) Attach rod end of each cylinder to the female quick hitch (grease fittings outward) using the  $3/4" \times 3"$  pins (fig.3, item 3). Lock the pins on the upper side of the female quick hitch with  $1/4" \times 1 1/2"$  bolt & nylon lock nut.
- d) Using thread sealant, attach a  $90^\circ$  elbow  $3/8"$  male  $\times$   $1/4"$  pivoting female and male quick coupler with rubber dust cap at the  $1/4"$  end of each hose, placing the rubber dust cap ring on the hose before connecting.
- e) Install the other end of the **40"** hose to the base end port of the left hand cylinder (fig.3, item 4) using thread sealant, and identify this hose with the green plastic ring. Attach the other end of 33" hose to the base end port of right hand cylinder (fig.3, item 5) using thread sealant, and identify this hose with the yellow plastic ring.

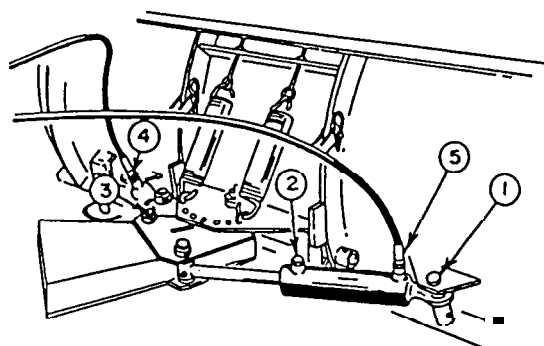


FIGURE 3

**STEP 3: BLADE INSTALLATION**

- a) Insert the male quick hitch section (fig.4, item 1) on the tractor into the blade female quick hitch (fig.4, item 2), turn engine off and set parking brake. Lock in place by moving the lever (fig.4, item 3) to lock position (fully forward). Secure latch with linchpin (fig.4, item 4).

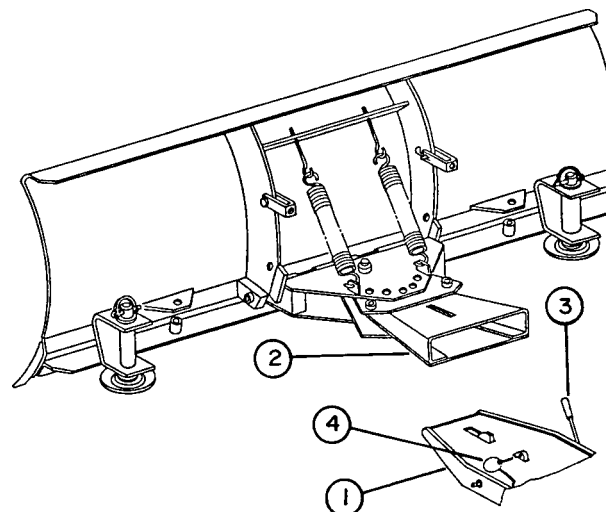


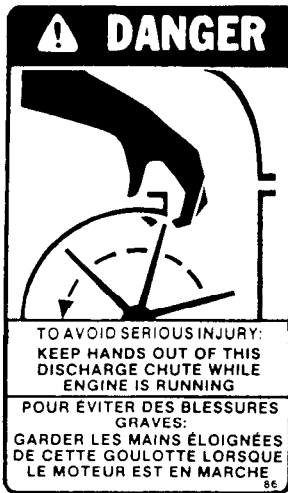
FIGURE 4

Escaping hydraulic fluid (oil) under pressure can penetrate the skin causing serious injury.

- o Do not use your hands to check for leaks. Use a piece of cardboard or paper to search for leaks.
  - o Stop engine and relieve pressure by moving valve handles back and forth before connecting or disconnecting lines.
  - o Tighten all connections before starting engine or pressurizing lines.
- If any fluid is injected into the skin, it may result in gangrene if the fluid is not surgically removed within a few hours by a doctor familiar with this form of injury.

- b) Connect left hand cylinder hose to the second from top female quick coupler, and the right hand cylinder hose to the top female quick coupler on the right hand side of tractor.

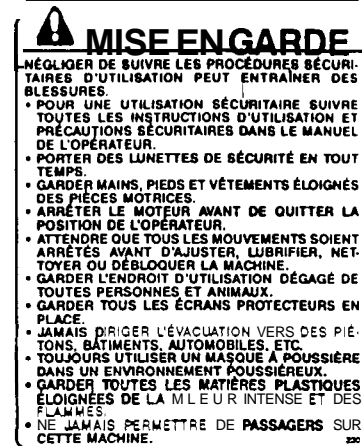
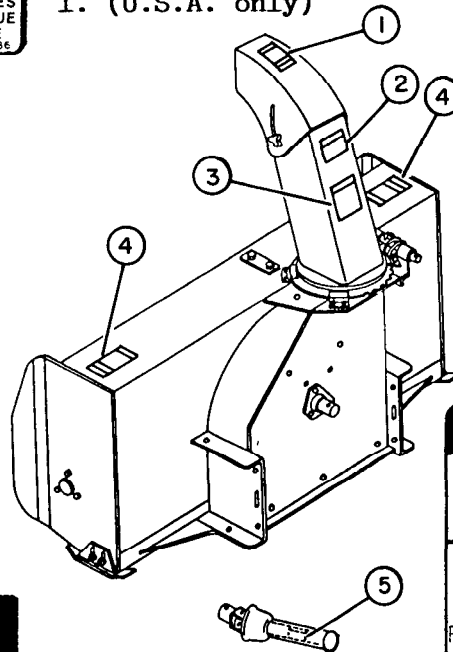
REPLACE IMMEDIATELY IF DAMAGED



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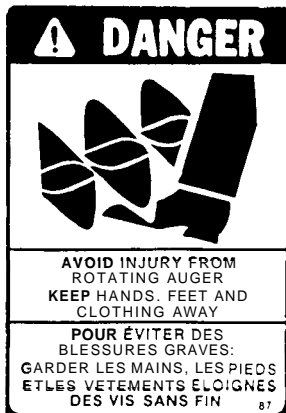
1. (U.S.A. only)



3. (CANADA only)



2. (U.S.A. & CANADA)



4. (CANADA only)



4. (U.S.A. only)



5. (U.S.A. & CANADA)

Visible only if shield  
is missing.



The safe operation of this machine is the responsibility of the operator. The operator should be familiar with the tractor and snowblower and all safety practices before starting operation.

**NOTICE** To avoid damage to the snowblower, retorque all bolts after the first 10 hours of operation.

#### **PREPARING FOR SNOW REMOVAL**

1. Read the Operator's Manual carefully before using the tractor and snowblower. Be thoroughly familiar with the controls and proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
2. Make sure the blower is clear of snow before engaging the PTO.
3. Make sure the auger and fan operate freely.
4. Check the oil level in the worm gear box make sure level is up to the side plug, and if necessary, add AGMA 5EP or API GL-5 **SAE** 90 gear oil.
5. Check the three shearbolts, one on each auger section and one between the fan and gearbox for proper tightness.
6. Adjust so that the snowblower skid shoes run level.
7. Wear adequate winter outer garments while operating equipment.

#### **WORK AND TRAVEL SPEED**

Working ground speed will depend on the depth and density of the snow to be cleared. Normally, ground speed will range from 4 to 7 mph for light, dry snowfalls (3-6"), and 1-3 mph for heavy, wet or drifted snow.

To transport, disengage the PTO, and raise the snowblower to full transport height.

## SNOWBLOWER - OPERATION

### OPERATING CONTROLS

#### HYDRAULIC CHUTE ROTATION

The hydraulic chute rotation lever (fig.1, item 1) is located on the left hand side of the valve. Push the lever forward to rotate chute to the left (counterclockwise) and rearward to rotate to the right, or clockwise.

#### RAISING AND LOWERING THE SNOWBLOWER

Move the hydraulic lift lever (fig.1, item 2) rearward to raise the snowblower and forward to lower the snowblower. Move the lever fully forward for float position.

#### PTO OPERATION

The mid PTO is selected by pulling back on the PTO lever on left side of seat. Engage attachments at low engine RPM only. To activate or engage PTO, lift up on the PTO lever on right hand side of instrument panel, push down to disengage.

### ADJUSTMENTS

**⚠ WARNING** To avoid personal injury, be sure the tractor engine is off, the PTO disengaged, and all movement has stopped before making any adjustments.

#### DEFLECTOR ADJUSTMENT

Set the angle of deflector according to the distance the snow must be thrown. To set the deflector angle, loosen the two deflector knobs (fig.1, item 3), adjust the deflector, and tighten the two knobs securely.

#### SKID SHOE ADJUSTMENT

Adjust the snowblower so that the skid shoes run (fig.1, item 4) level. Adjust the skid shoes according to the surface being cleared. Adjust downward for rough or uneven surface conditions so that stones are not thrown with the snow, and adjust upwards for smooth surfaces. Adjust both skid shoes to the same height to keep the cutting edge level.

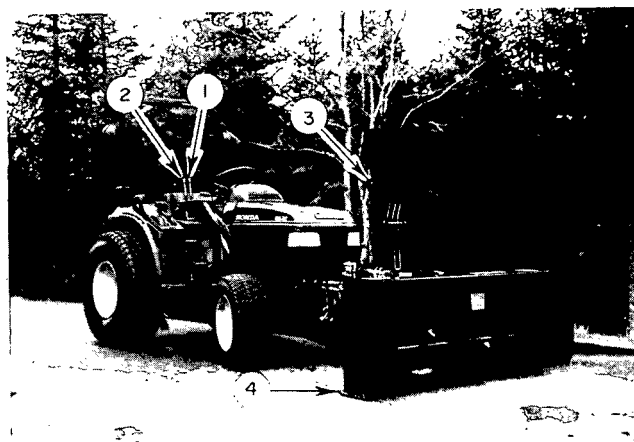
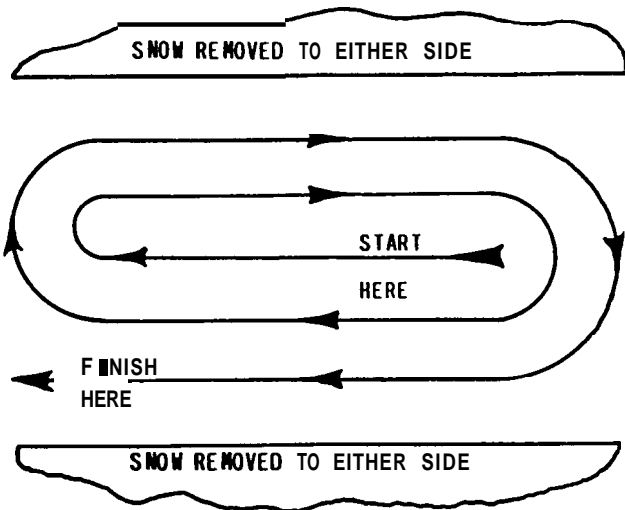


FIGURE 1

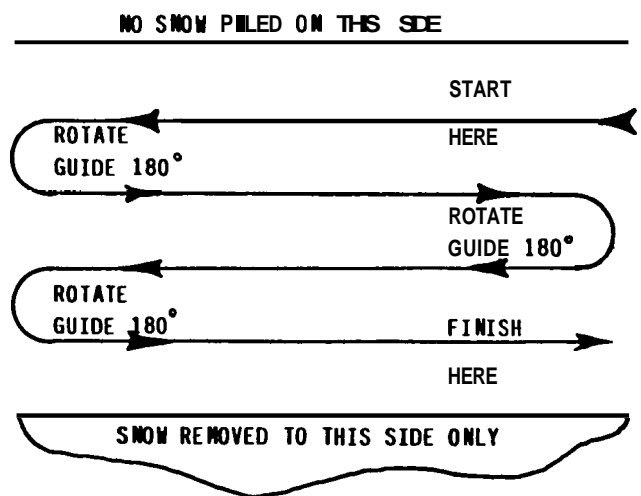
SNOW REMOVAL METHODS

**⚠ WARNING** : DO NOT USE HANDS OR FEET TO UNPLUG CHUTE, DO NOT ATTEMPT TO CLEAR PLUGGED CHUTE OF SNOW WHILE TRACTOR ENGINE IS RUNNING. IF THE CHUTE PLUGS, DISENGAGE THE P.T.O., SHUT OFF THE TRACTOR ENGINE, REMOVE THE IGNITION KEY, WAIT FOR ALL MOVEMENT TO STOP, AND THEN CLEAR THE SNOW FROM THE CHUTE.

A definite pattern of operation is required to thoroughly clean the snow area. These patterns will avoid throwing snow in unwanted places as well as eliminating a second removal of snow.



Where it is possible to throw the snow to the left and right (above), as on a long driveway, it is advantageous to start in the middle. Plow from one end to the other, throwing snow to both sides without changing the direction of the discharge guide.



If the snow can only be thrown to one side of the driveway or sidewalk (above), start on the opposite side. At the end of the first pass, rotate the discharge guide 180° for the return pass. At the end of each succeeding pass, rotate the discharge guide 180° to maintain direction of throw in the same area.

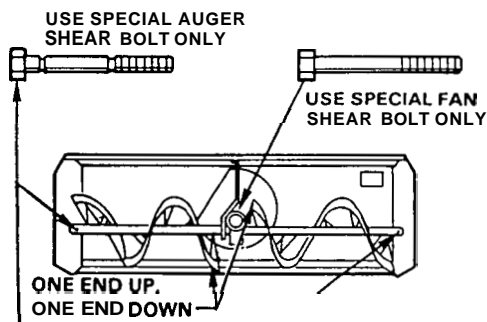
## **SNOWBLOWER - MAINTENANCE**

### **TIRE PRESSURE**

- Inflate front wheel tires to maximum pressure recommended by the tractor owner's manual.
- Adjust rear tires to specifications in tractor owner's manual.

### **MAINTENANCE SERVICE AND STORAGE**

1. Always use the special shear bolts on the fan, and the special grooved shear bolts on the auger sections, as shown on shearbolt decal (below) inside the collector housing.



2. Check the shear bolts at frequent intervals for proper tightness to be sure the blower is in safe working condition.
3. Never store the tractor with fuel in the fuel tank inside a building where open flame or sparks are present. Allow the engine to cool before storing in any enclosure.
4. Run the snowblower a few minutes after blowing snow to prevent freeze up of the auger and the impeller.
5. Provide adequate blocking before working under the snowblower when in the raised position.

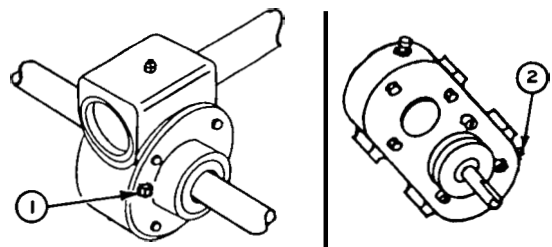
### **LUBRICATION**

1. **GEARBOXES:** Check the oil level in the gearboxes every month. Make sure oil is up to level plug (fig.1, items 1 & 2) If necessary add AGMA SEP, or API GL-5 SAE90 gear oil. Replace oil every two seasons or 200 hours whichever comes first.

2. **AUGER SECTIONS:** Grease the fitting on each auger section every 24 hours of operation or once a year.
3. **PTO DRIVELINES:** Grease each u-joint fitting every 8 hours of operation. Slide drive shaft apart and coat sliding surfaces with grease every 8 hours of operation.
4. **SUBFRAME:** Grease all fittings on lift and on subframe attaching points every 8 hours of operation.

### **END OF SEASON STORAGE**

1. Clean the snowblower thoroughly.
2. Repaint all parts from which paint has worn.
3. When the snowblower is dry, oil all moving parts. Apply oil liberally to all surfaces to protect against rust.
4. Lubricate the snowblower as instructed above.
5. List the replacement parts that will be needed before the next season.
6. Store the snowblower in a dry place.

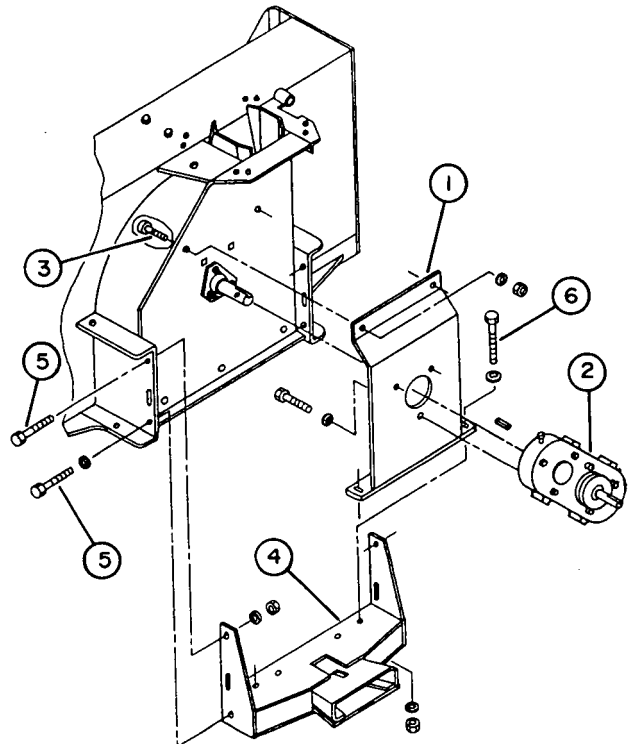


**FIGURE 1**

**NOTE:** Before mounting this attachment on your tractor, your tractor must be mounted with a **HTA QH6000** subframe and a **HTA DK6000** drive kit.

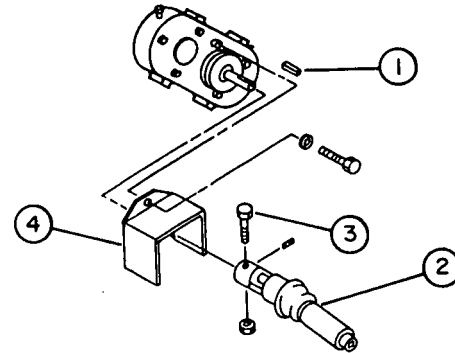
**STEP 1: SNOWBLOWER ASSEMBLY**

- a) Turn snowblower with auger facing down.
- b) Place reduction gearbox support (fig.1, item 1) on back of reduction gearbox (fig.1, item 2). Secure the support to the reduction gearbox using three M10 x 25mm bolts and lockwashers. Tighten securely.
- c) Remove paint from blower impeller input shaft and install a 1/4" x 2 1/2" key in the impeller shaft keyway.
- d) Apply anti-seize compound on the impeller input shaft.
- e) Carefully align the reduction gearbox hub with the impeller shaft and the key seats.
- f) Secure the top of the gearbox support to the back of the impeller housing using two 5/16" x 1" Allen set screws (fig.1, item 3) with the head inside the impeller housing and a lockwasher and nut on the outside of the support.
- g) Install female hitch (fig.1, item 4) on back of snowblower using two 5/8" x 1 1/4" bolts (fig.1, item 5), lockwashers and nuts in top holes, and two 5/8" x 1 1/4" bolts and lockwashers in two bottom holes. Do not tighten yet.
- h) Secure the bottom part of the gearbox support to the female hitch, using two 3/8" x 3 3/4" bolts (fig.1, item 6) and flatwashers on top of the support, and a lockwasher and nut on the underside. Securely tighten all four bolts securing the support, and tighten the four bolts securing the female hitch to the snowblower.
- i) Set snowblower with skid shoes on the ground.
- j) Fill reduction gear box with 1.25 pts (.6 liter) of SAE90 gear oil.



**FIGURE 1**

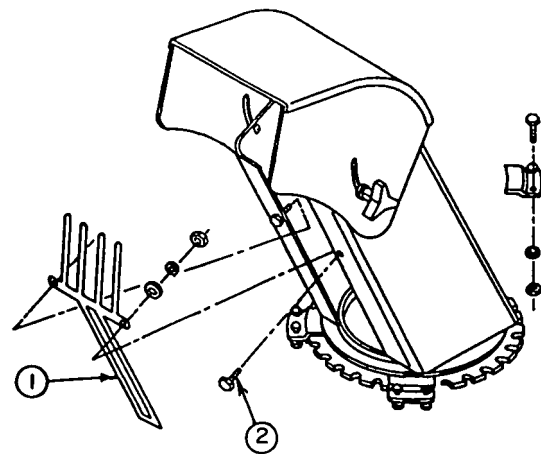
- k) Remove paint from the gearbox input shaft and place 1/4" x 1/4" x 1 1/4" key (fig.2, item 1) in the shaft keyway. Install drive-line yoke (fig.2, item 2) over reduction shaft and secure in place with a 1/4" x 2 1/2" bolt (fig.2, item 3) and nylon nut. Tighten bolt and set screw securely.
- l) Install driveline guard (fig.2, item 4) on the reduction gearbox, using one 10 x 15mm bolts and lockwashers. Tighten securely.



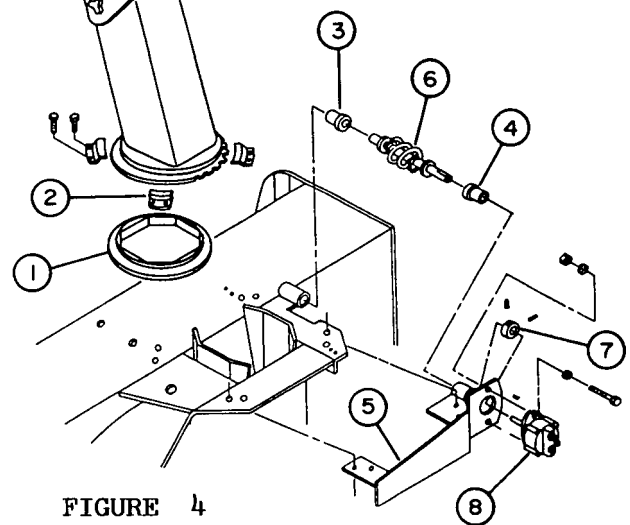
**FIGURE 2**

**STEP 2: CHUTE AND HYDRAULIC ROTATION**

- a) Install the hand guard (fig.3, item 1) on the chute with the top portion inside the chute and the bottom section outside the chute base ring. Place two 1/4" x 3/4" bolts (fig.3 item 2) with the head on the outside of the chute, through the chute then through hand guard and secure each bolt with a flatwasher, lockwasher and nut. Torque to 9-11 lbs. ft.
- b) Place the plastic anti-friction insert (fig.4, item 1) over the chute base. Apply grease on top of this insert where it will contact the chute base.
- c) Place the chute on the plastic insert and secure with two retaining plates (fig.4, item 2) on front side of snowblower using four 1/4" x 3/4" bolts, lockwashers and nuts. Do not tighten.
- d) Insert the 1 5/16" long plastic bushing (fig.4, item 3) in the tube weldment.
- e) Insert the 1 11/16" long bushing (fig.4, item 4) in the rotation bracket (fig.4, item 5).
- f) Install longest tube end of rotation worm (fig.4, item 6) in the bushing in rotation bracket.
- g) Insert locking collar (fig.4, item 7) over rotation worm. Install a 1/8" x 3/16" x 1" key in the hydraulic motor shaft keyway.



**FIGURE 3**



**FIGURE 4**

- h) Install hydraulic motor (fig.4, item 8) on rotation bracket and inside rotation worm. Secure the motor on the rotation bracket using two 3/8" x 1 1/4" bolts, flatwashers (on motor side), lockwashers and nuts. Torque to 35-42 lbs/ft.
- i) Install rotation bracket assembly on under side of chute base lip and worm inside bushing (fig.4, item 3) in tube weldment. Secure assembly with two more retaining plate on upper side of chute base lip and four 1/4" x 3/4" bolts, lockwashers & nuts. Remove linear play by sliding worm against rotation bracket and locking collar toward worm, tighten the locking collar set screws and all bolts.
- j) Install a connector 7/8" O.R.B. male x 9/16"-18 J.I.C. male (fig.5, item 1) in each port of hydraulic motor. Tighten.
- k) Install 90° elbow 1/4" male x 1/4" pivoting female (fig.5, item 2) at male end of hoses.
- l) Using thread sealant, attach a male quick coupler with rubber, dust cap (fig.5, item 3) on each elbow (dust cap ring must be on hose before installation).
- m) Connect the two hydraulic hoses to the motor, placing a flow restrictor (fig.5, item 4) in connector (fig.5, item 1).

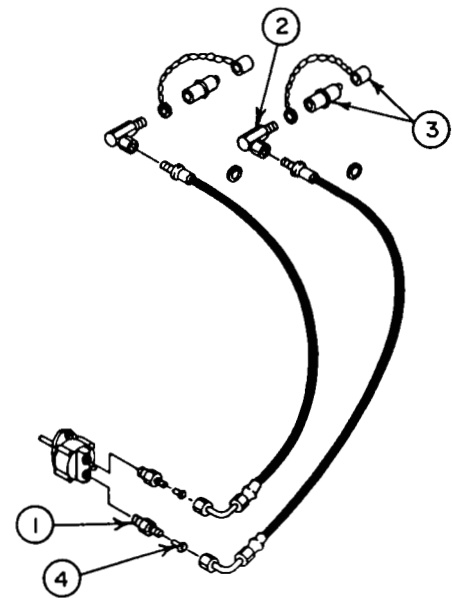


FIGURE 5

### STEP 3: ATTACHING SNOWBLOWER TO QUICK HITCH

- a) Move quick hitch lever (fig.6, item 1) rearward to the unlock position. Position tractor behind snowblower and raise front male quick hitch to approximately 3/4" from the ground.
- b) Introduce male quick hitch (fig.6, item 2) into female quick hitch (fig.6, item 3) on blower. Raise male section so that it is parallel to female section and insert it all the way into female section. Raise blower and move the lever forward to locked position. Secure latch with linch pin.

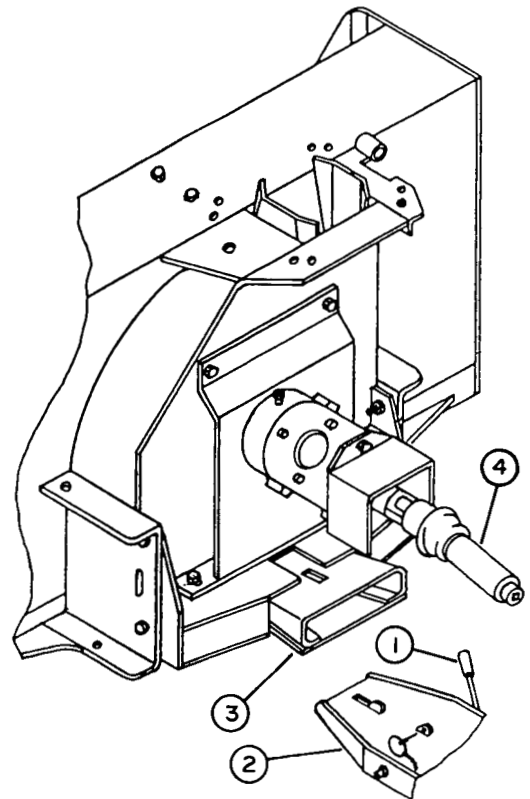


FIGURE 6

- c) Connect snowblower driveline (fig.6, item 4) to PTO shaft in frame by sliding back locking collar on drive line yoke and pushing yoke over shaft until locking ring snaps back.

**⚠ WARNING** This shaft turns at very high RPM. ~~If~~ collar is not locked to shaft at tractor end, **or** if yoke at blower end **is** not secured properly, the driveline can fly loose with great force capable of causing serious injury **or** death.

- d) Adjust skid shoes according to adjustment instructions on page 24.

- e) Release pressure from hydraulic system by moving valve handles back and forth.

**⚠ WARNING** Escaping hydraulic fluid (oil) under pressure can penetrate the skin causing serious injury.

- **Do** not use your hands to check for leaks. Use a piece of cardboard **or** paper to search **for** leaks.
- Stop engine and relieve pressure by moving valve handles back and forth before connecting or disconnecting lines ■
- Tighten all connections before starting engine **or** pressurizing lines.

If any fluid is injected into the skin, it may result in gangrene if the fluid is not surgically removed within a few hours by a doctor familiar with this form of injury ■

- f) Connect chute rotation hoses to female quick coupler on right side of subframe.
- g) Verify that moving valve lever rearward turns chute towards the right in clockwise direction. If not, reverse hoses.
- h) Match hydraulic hoses to female couplers using the colored plastic rings.



REPLACE IMMEDIATELY IF DAMAGED

**⚠ WARNING**

FAILURE TO FOLLOW SAFE OPERATING PROCEDURES MAY RESULT IN INJURY.

- FOR SAFE OPERATION FOLLOW ALL OPERATING INSTRUCTIONS AND SAFETY PRECAUTIONS IN OPERATOR'S MANUAL.
- EYE PROTECTION MUST BE WORN AT ALL TIMES.
- KEEP HANDS, FEET AND CLOTHING AWAY FROM POWER DRIVEN PARTS.
- STOP ENGINE BEFORE LEAVING OPERATOR POSITION.
- WAIT FOR ALL MOVEMENTS TO STOP BEFORE STARTING TO ADJUST, LUBRICATE, CLEAN OR UNCLUG THE MACHINE.
- KEEP THE AREA OF OPERATION CLEAR OF ALL PERSONS AND ANIMALS.
- KEEP ALL GUARDS AND SHIELDS IN PLACE.
- NEVER DIRECT DISCHARGE TOWARD BYSTANDERS, BUILDINGS, CARS ETC.
- ALWAYS USE A DUST MASK WHEN WORKING IN DUSTY CONDITIONS.
- KEEP PLASTIC MATERIALS AWAY FROM INTENSE HEAT AND OPEN FLAME.
- NEVER ALLOW PASSENGERS ON THE ATTACHMENT.

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1. (U.S.A. &amp; CANADA)

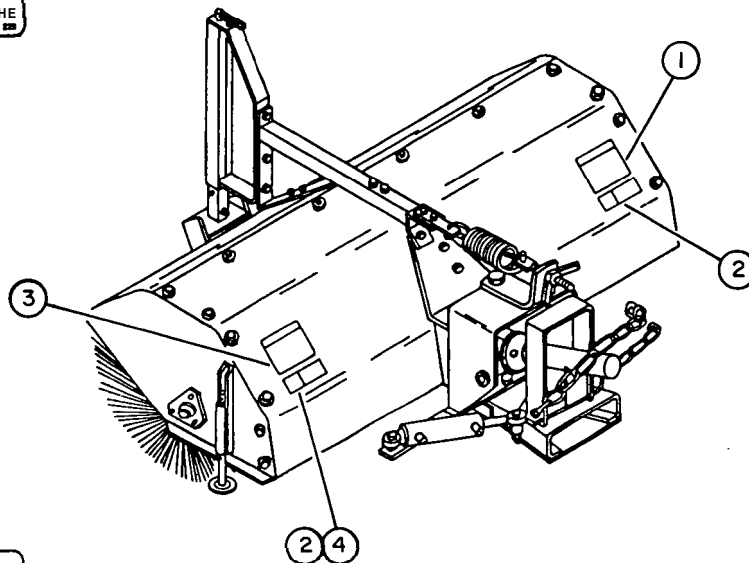
**⚠ WARNING**

**PINCH POINT**  
AVOID INJURY FROM  
FRAME PIVOT AND STOPS:

- Keep hands and feet away.

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2. (U.S.A. &amp; CANADA)



**⚠ MISE EN GARDE**

NÉGLIGER DE SUIVRE LES PROCÉDURES SÉCURITAIRES D'UTILISATION PEUT ENTRAÎNER DES BLESSURES.

- POUR UNE UTILISATION SÉCURITAIRE SUIVRE TOUTES LES INSTRUCTIONS D'UTILISATION ET PRÉCAUTIONS SÉCURITAIRES DANS LE MANUEL DE L'OPÉRATEUR.
- PORTER DES LUNETTES DE SÉCURITÉ EN TOUT TEMPS.
- GARDER MAINS, PIEDS ET VÊTEMENTS ÉLOIGNÉS DES PIÈCES MOTRICES.
- ARRÊTER LE MOTEUR AVANT DE QUITTER LA POSITION DE L'OPÉRATEUR.
- ATTENDRE QUE TOUTS LES MOUVEMENTS SOIENT ARRÊTÉS AVANT D'AJUSTER, LUBRIFIER, NETTOYER OU DÉBLOQUER LA MACHINE.
- GARDER L'ENDROIT D'UTILISATION DÉGAGÉ DE TOUTES PERSONNES ET ANIMAUX.
- GARDER TOUTS LES ÉCRANS PROTECTEURS EN PLACE.
- JAMAIS DIRIGER L'ÉVACUATION VERS DES PIÉTONS, BATIMENTS, AUTOMOBILES, ETC.
- TOUJOURS UTILISER UN MASQUE À POUSSIÈRE DANS UN ENVIRONNEMENT POUSSIÉREUX.
- GARDER TOUTES LES MATIÈRES PLASTIQUES ÉLOIGNÉES DE LA CHALEUR INTENSE ET DES FLAMMES.
- NE JAMAIS PERMETTRE DE PASSAGERS SUR CETTE MACHINE.

230

3. (CANADA only)

**⚠ MISE EN GARDE**

**POINT DE PINCEMENT**  
CHÂSSIS PIVOTANT.  
PEUT PROVOQUER DES BLESSURES:

- Carder mains et pieds éloignés.

231

4. (CANADA only)

## OPERATING CONTROLS

**NOTICE** Before operating, make sure broom pivot lock (fig.1, item 1) pin is in its most extended position to allow broom to follow ground variations.

### RAISING AND LOWERING BROOM

Refer to page 7 'RAISING & LOWERING ATTACHMENTS' .

### HYDRAULIC ANGLING

Move left valve handle forward to angle broom to the left and move handle rearward to angle broom to the right.

### PTO OPERATION

The mid PTO is selected by pulling back on the PTO lever on left hand side of seat. To activate or engage PTO, lift up on the PTO lever on right hand side of instrument panel, push down to disengage.

## ADJUSTMENTS

**WARNING** To avoid personal injury, be sure tractor engine is off, the PTO disengaged, parking brake is set and all movement has stopped before making any adjustment.

### BRUSH GROUND CONTACT ADJUSTMENT

Turning the ground contact wing nut (fig.1, item 2) in a clockwise direction decreases brush ground contact. Turning ground contact handle counterclockwise increases brush ground contact and must be used only to compensate brush wear.

**NOTICE** Adjust so that broom head when lifted by the front, weighs approximately 50 lbs , more than this could cause premature brush wear and overheat gearbox.

### FRONT WHEEL JACK (3)

Adjust so that brushes rest on the ground, and turn jack handle two full turns counterclockwise, so that brushes barely touch the ground.

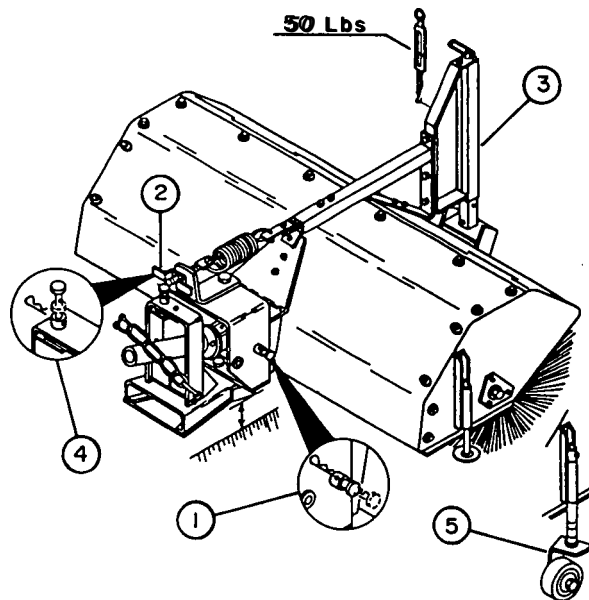


FIGURE 1

### OSCILLATION LOCK-OUT PIN

Set broom head parallel to female hitch and place pin (fig.1, item 4) in "lock" position to prevent broom from oscillating side to side. This feature was designed to prevent uneven brush wear, unlock pin only for light duty work on uneven ground or when using side casters.

### OPTIONAL CASTER WHEELS ADJUSTMENT (5)

Required for: lawn thatching and/or leaf raking. Adjust height to the nearest 1/4" by placing spacer sleeve(s) on upper or lower side of stand support. Adjust according to type of operation (see next page for applications).

## PREPARING FOR SWEEPING

### **⚠ WARNING :**

1. Read the operator's manual carefully. Be thoroughly familiar with controls and proper use of the equipment.
2. Do not allow anyone other than the operator on the tractor. Do not allow any rider on the attachment.
3. If tractor is not equipped with optional cab, operator must wear eye protection (face shield etc.) during operation.
4. Be sure bystanders are completely clear of tractor, broom & broom discharge area before operating the broom. Contact with tractor, broom or debris discharged by broom can cause serious injury ■

**NOTICE** Remove any accumulation of snow, ice, dirt or mud from inside and outside broom hood and from in between bristles regularly; excess weight will unbalance broom causing premature and/or uneven wear of bristles.

**NOTICE** Never operate broom on any kind of carpet-

**NOTICE** Remember to sweep with the tips of the bristles, like a broom- not with the sides of bristles, like a mop.

## APPLICATIONS :

### o SNOW REMOVAL

**⚠ WARNING** Foreign objects in snow may be **thrown** farther than the snow itself. Use slowest brush speed that will perform the job. Stay aware of broom discharge direction.

1. This broom works best on snow depth of 6" or less. Large amounts of snow can be moved if ground speed is reduced.
2. To avoid snow being blown back on the tractor or operator, sweep with the wind blowing in the discharge direction.
3. The use of tire chains is recommended for extra traction.

### o LAWN THATCHING AND LEAF RAKING

**NOTICE** Optional caster wheels must be installed to perform these types of operation in order to **limit** excessive ground contact.

1. Set caster wheels at 1" to 1 1/4" below brush tips for leaf raking and thatching operations.
2. Slower brush speed and ground speed are more adequate for lawn thatching. This will avoid bouncing which could damage the lawn due to excessive ground contact.
3. Minimize dust by sweeping when moisture is high (but not wet) whenever possible.

### ● GENERAL SWEEPING (parking lots etc.)

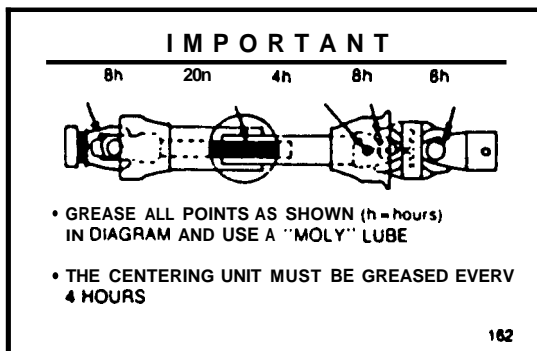
1. Minimize dust by reducing brush speed and by sweeping on days with high moisture ■
2. For light material, angle broom 12 to 15° right or left rather than fully angled to obtain wider sweeping path.
3. Prevent damage to broom by removing large foreign objects.

MAINTENANCE SERVICE AND STORAGE

1. Never store the tractor with fuel in the fuel tank inside a building where open flames or sparks are present. Allow the engine to cool before storing in any enclosure.
2. Avoid exposing broom bristles to direct sunlight for long periods. Long exposure to direct sunlight will damage the bristles.
3. Provide adequate blocking before working under the broom.
4. Because of dust raised when sweeping (other than snow), the tractor air cleaner should be checked daily and replaced when necessary.
5. Check and tighten all hardware including factory installed hardware, every 8 hours of operation and before operation.
6. Do not alter or modify the broom. If you have any questions, contact your dealer.

LUBRICATION

1. BROOM: Using a good quality multi-purpose lubricant, lubricate all pivot points and brush ground contact adjustment threads every 24 hours of operation.
2. DRIVELINE: Grease as indicated on decal below.



2. GEARBOX: Check that the gearbox oil level is up to the front plug before initial operation and every 40 hours of operation. Change oil every 100 hours of operation. Use S.A.E. 140 oil.
3. FRONT WHEEL: Grease every eight hours of operation.

FRONT TIRE PRESSURE: Inflate to 30 psi.

STORAGE

1. Install a rubber dust cap on each hose quick coupler.
2. Clean broom thoroughly.
3. Oil all moving parts.
4. Store broom on storage stands so that the bristles do not touch the ground.
5. If broom bristles are exposed to direct sunlight, protect bristles with a tarp.
6. Store the broom in a dry place.

# BRUSH REPLACEMENT

- a) Remove the eight 5/16" x 1/2" bolts (fig.1, item 1), one 1/2" x 1 3/4" bolt (fig.1, item 2) from each broom end and remove broom side plates and retainer cup (fig.2, item 1).
- b) Remove worn brushes by sliding brushes outward.
- c) Install new brushes, starting with a 10° concave brush (fig.2, item 5) the a 5° concave brush (fig.2, item 2) and then the zigzag brushes (fig.2, item 7) on each side of gearbox.

**NOTICE** The pins (fig.2, item 4) in zigzag brushes must all be placed on the same brush support cone (fig.2, item 6).

- d) Position retainer cups (fig.2, item 1) on inside surface of side plates with the 1/2" x 1 3/4" bolts (fig.1, item 2)(bolts must have lockwasher against head and two flatwashers under the lockwasher). Thread bolts into shaft ends, aligning side plate holes with broom housing holes. Apply anti-seize compound on 1/2" x 1 3/4" bolts and on shaft ends. Tighten securely.
- e) Reinstall the eight 5/16" x 1/2" bolts (fig.1, item 1) into side plates on each side of broom. Tighten securely.

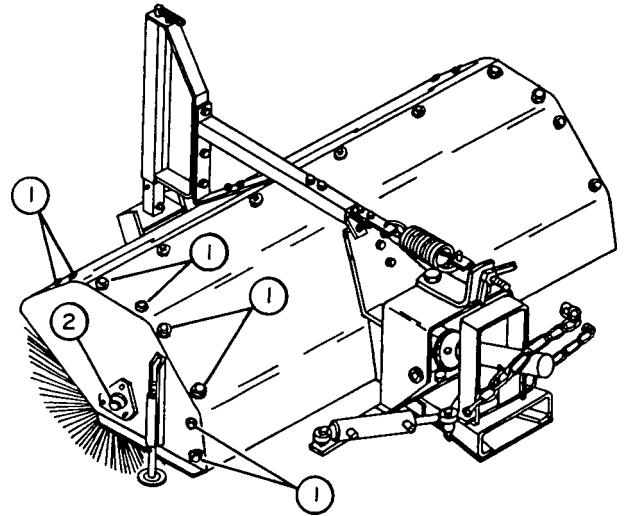


FIGURE 1

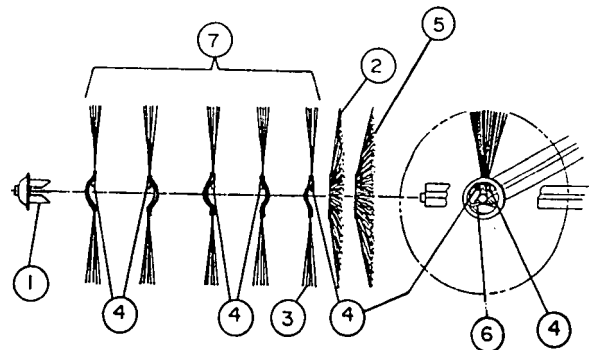


FIGURE 2

## BROOM - ASSEMBLY

**NOTE:** Before mounting this attachment on your tractor, your tractor must be mounted with an **FITA QH6000** subframe and an **FITA DK6000** drive kit.

### STEP 1: BROOM PREPARATION (FIGURE 1)

- a) Insert a parking stand (1) in each stand support from the underside and install a 5/32" x 1 1/4" cotter pin in upper hole of each parking stand. Set parking stands in most extended position and secure with two 4mm x 80mm hairpins (2).
- b) Assemble jack (3) to front of broom using three 3/8" x 1" bolts (4), lockwashers & nuts. Tighten securely. Inflate front tire to 30 psi.
- c) Install a 90° elbow 3/8" male x 1/4" pivoting female (3) in each cylinder port using thread sealant. With cylinder ports facing you and base end to your left, set both elbows at approximately 2 o'clock.
- d) Using thread sealant, install a 90° elbow 3/8" male x 3/8" pivoting female (4) at one end of each hose, and install a male quick coupler (5) with dust cap over each adapter (dust cap ring must be on elbow before installation).
- e) Attach the 51" hose to cylinder base end elbow and the 46" hose to cylinder rod end elbow. Route the two hoses under the down pressure adjustment spring.
- f) Install cylinder base end on top side of female hitch using a 5/8" x 3 1/2" bolt and a uni-torque nut (place ports away from brushes). Attach rod end to broom bracket with other bolt and nut.
- g) Check pivot lock pin (fig.3, item 1) and make sure it is in its innermost position to avoid buckling of female hitch member, and to facilitate quick hitch attachment.

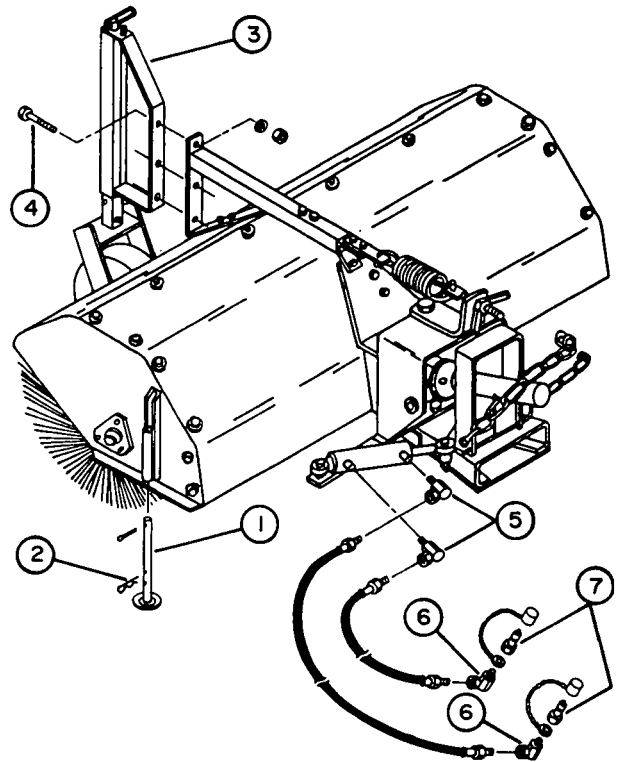


FIGURE 1

**STEP 2: BROOM INSTALLATION (FIGURE 2)**

- a) Insert driveline half (with quick connect yoke) over broom driveline half. Set driveline on driveline support (7)

**NOTICE** Driveline sliding surfaces must be greased.

- b) Place lever (2) on male hitch, rearward in unlocked position.
- c) Carefully drive tractor and introduce male hitch (3) into female hitch (4) on broom. Raise broom approximately 3 1/2" off ground, turn off engine and set tractor parking brake.
- d) Lock male hitch to broom female hitch by placing lever (2) fully forward. Secure quick hitch latch with linchpin.
- e) Attach depth limiting chains (5) to broom female hitch (1) using clevis with cotter pins, and to chain supports (6) using the clevis (8), drilled pins and hairpins. Attach chains supports to subframe (8) using two 3/8" x 1 1/2" bolts and nylon lock nuts. Select chain support hole position so that when male hitch is lowered and supported by chain, male hitch is 3" to 3 1/2" from ground.

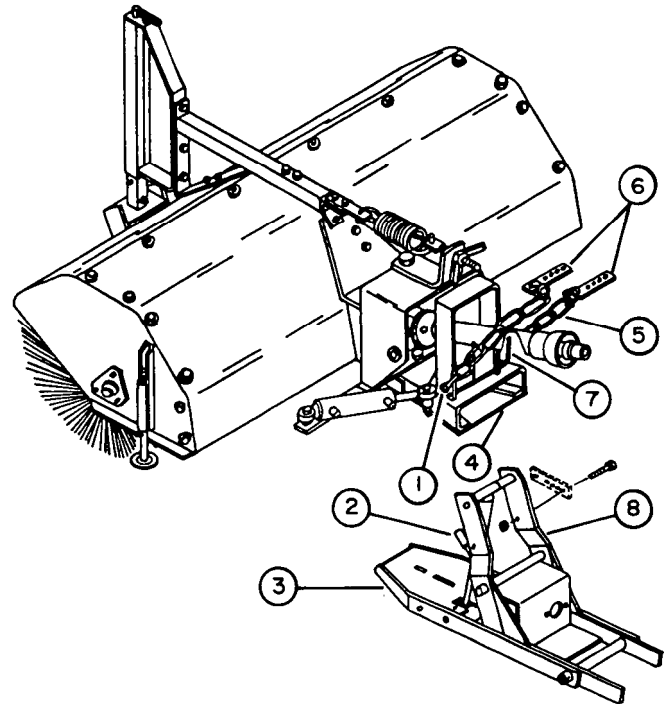


FIGURE 2

- f) Holding the driveline, rotate driveline support forward and out of the way, and connect driveline to subframe PTO shaft. Make sure locking collar on driveline yoke has snapped back fully and is well secured to shaft.

**⚠ WARNING** This shaft turns at very high RPM. If the collar is not locked to the shaft at subframe end, or if the yoke at the attachment end is not secured properly, the driveline can fly loose with great force capable of causing serious injury or death.

- g) Set parking stands(fig.1, item 1) in raised position, placing hair pin on upper side of stand support.
- h) Unlock broom pivot bracket by placing pin (fig.3, item 1) in its most extended position; a light pressure either up or down on broom head will help pin adjustment (this allows broom to follow ground variations). This bracket should remain unlocked during transport.

**⚠ WARNING** Escaping hydraulic fluid (oil) under pressure can penetrate the skin causing serious injury.

- Do not use your hands to check **for** leaks. Use a piece of **cardboard or paper** to search for leaks.
- Stop engine and relieve pressure by moving valve handles back and forth before connecting **or** disconnecting lines.
- Tighten all connections **before starting** engine **or** pressurizing lines.

If any fluid is injected into the skin, it may result in gangrene if the fluid is not surgically removed within a few hours by a doctor familiar with this form of injury.

**NOTE:** If hydraulic cylinder hoses are already identified with colored plastic rings, connect attachment hoses to matching color female couplers on right hand side of tractor.

- i) Connect cylinder base end hose to lower female quick coupler on right hand side of tractor and rod end hose to upper female quick coupler.
- j) Verify operation of broom angling described ,(if not as described, stop engine, release hydraulic pressure and switch coupler location) then identify hydraulic hoses in relation to female couplers using the colored rings.
- k) Correct all adjustment settings on page 32.

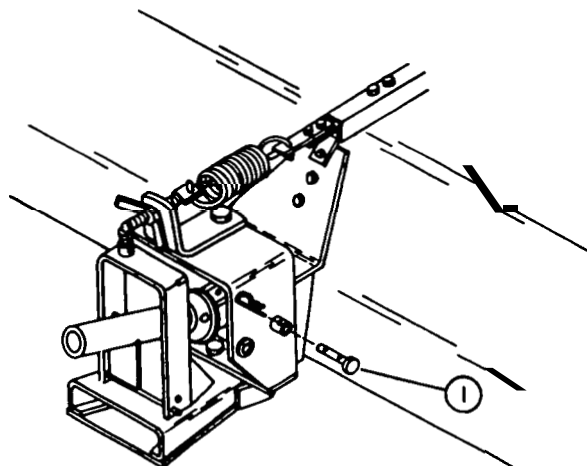


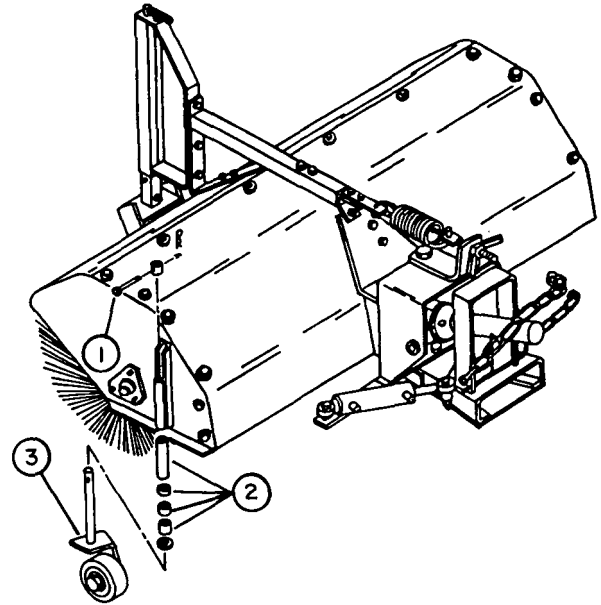
FIGURE 3



**STEP 3: OPTIONAL CASTER WHEEL INSTALLATION**

**NOTE:** Caster wheels are required for lawn thatching and to prevent gouging (refer to applications page 33).

- a) Remove pin (fig.4, item 1) and hair pin from each caster wheel. Select desired number of spacer sleeves (fig.4, item 2) to remain on bottom portion of caster wheels.
- b) Remove parking stands (fig.1, item 1) and replace them with the caster wheels (fig.4, item 3). Place remaining spacer sleeve(s) over caster wheels on upper side of stand supports, and secure caster wheels with pins (fig.4, item 1) and hair pins.



**FIGURE 4**

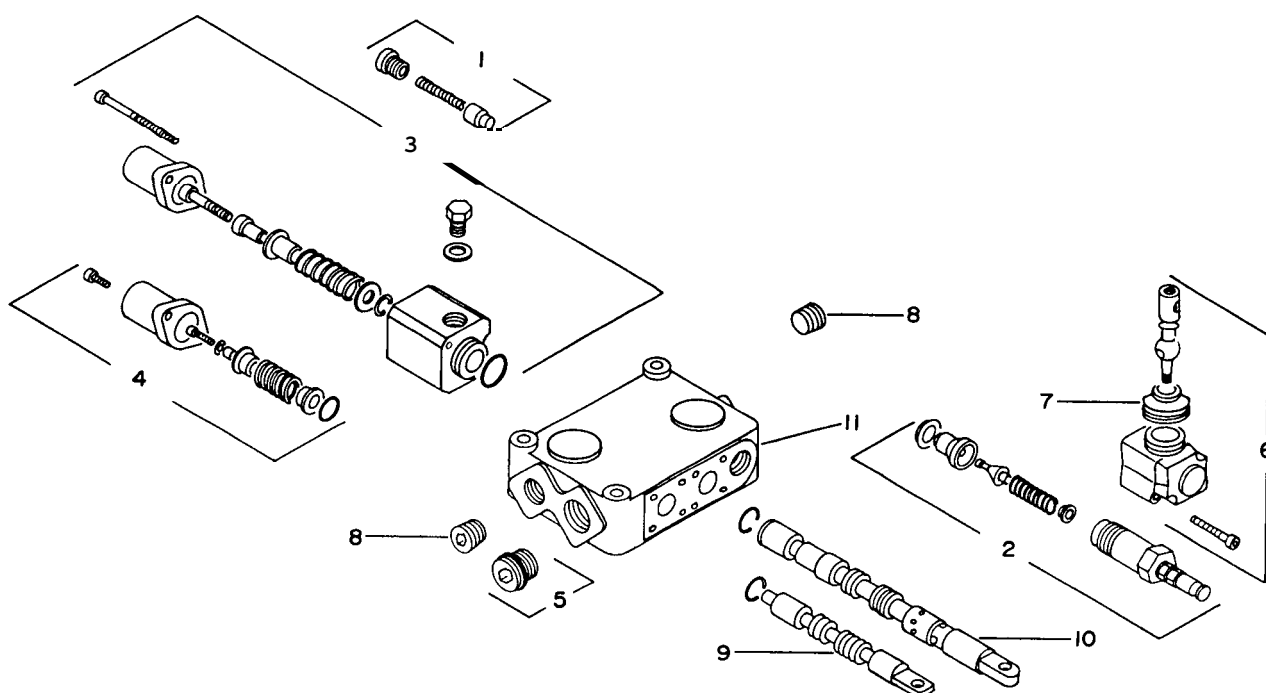
## DISMOUNTING

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- a) Extend broom parking stands (fig.1, item 1) placing hair pins on underside of stands supports, and lock broom attachment using pin (fig.3, item 1)(a light pressure either up or down on broom head will help setting pin in innermost (or lock) position) ■ This is to facilitate dismounting and remounting.
- b) Disconnect chains (fig.2, item 5) from chain supports (fig.2, item 6) by removing hair pin from clevis.
- c) Set hydraulic valve in float position, turn engine off, set parking brake, remove ignition key and relieve hydraulic pressure by moving valve handles back and forth.
- d) Disconnect angling cylinder hoses from tractor.
- e) Remove lynch pin from male hitch latch and place male hitch lever (fig.2, item 2) in unlock position (rearward) ■
- f) Disconnect driveline from tractor PTO and place driveline on its support.
- g) Carefully separate broom from tractor as it rests on storage stands.

## TWO SPOOL VALVE ASSEMBLY

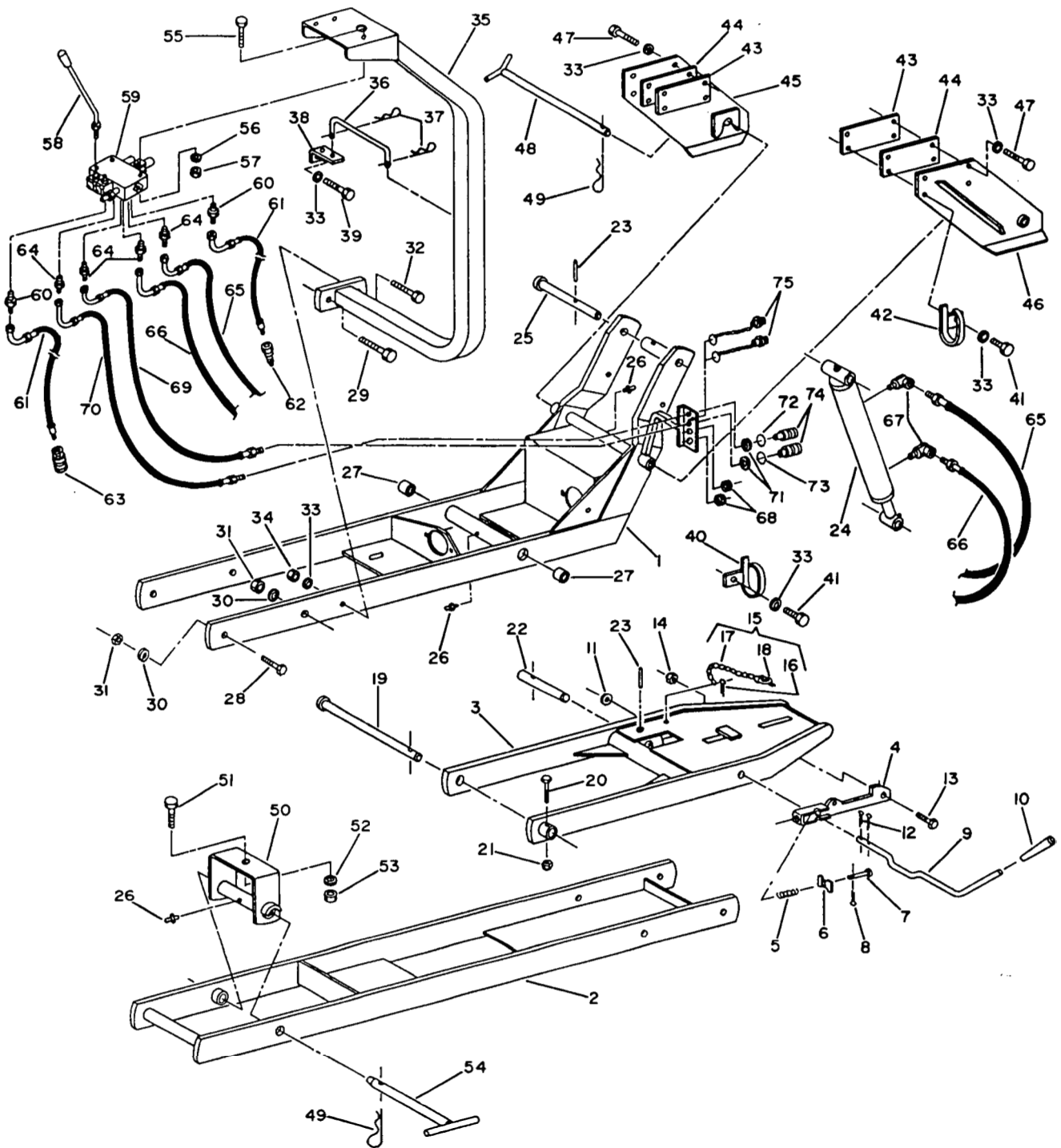
REF	DESCRIPTION	QTY
1	Check valve repair kit .....	1
2	Relief valve repair kit .....	1
3	Float spool repair kit .....	1
4	Regular spool repair kit .....	1
5	AET Plug .....	1
6	Lever pivot box ass'y .....	2
7	Boots .....	2
8	Plug (3/8" NPTF) .....	2
9	Regular spool .....	1
10	Float spool .....	1
11	Valve body .....	1



## PARTS GUIDE

### QH6000 QUICK HITCH SYSTEM

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## QH6000 QUICK HITCH SYSTEM

REF	DESCRIPTION	QTY
1	Front subframe .....	1
2	Rear subframe .....	1
3	Quick hitch .....	1
4	Quick hitch latch .....	1
5	Spring .....	1
6	Spring plate .....	1
7	Pin (1/4" dia x 1 3/4") .....	1
8	Pin (3/32" dia x 3/4", cotter) .....	1
9	Attaching lever .....	1
10	Rubber handle .....	1
11	Washer (9/16" dia hole, flat) .....	1
12	Pin (1/8" dia x 1", cotter) .....	2
13	Bolt (3/8" NC x 1 1/2", hex) .....	1
14	Nut (3/8" NC, nylon lock) .....	1
15	Safety chain and pins ass'y .....	1
16	Pin (5/32" dia x 1", cotter) .....	1
17	Chain .....	1
18	Pin (5/16" dia, linch) .....	1
19	Pivot pin .....	1
20	Bolt (5/16" NC x 1 3/4", hex) .....	1
21	Nut (5/16" NC, nylon lock) .....	1
22	Cylinder pin .....	1
23	Pin (1/4" dia x 1", roll) .....	2
24	Cylinder 2" dia x 6 1/4" stroke .....	1
25	Cylinder pin .....	1
26	Grease fitting .....	3
27	Bushing .....	2
28	Bolt (5/8" NC x 1 3/4", hex) .....	3
29	Bolt (5/8" NC x 2 1/2", hex) .....	1
30	Washer (5/8", lock) .....	4
31	Nut (5/8" NC, hex) .....	4
32	Bolt (1/2" NC x 1 3/4", hex) .....	1
33	Washer (1/2", lock) .....	11
34	Nut (1/2" NC, hex) .....	1
35	Valve support .....	1
36	Link pin .....	1
37	Pin (3mm dia x 65mm, hair) .....	2
38	L-bracket .....	1
39	Bolt (12mm x 1.25 x 30mm, hex) without loader .....	1
	Bolt (12mm x 1.25 x 70mm, hex) with loader .....	1
40	Hose guard L.H. ....	1
41	Bolt (12mm x 1.25 x 25mm, hex) without loader .....	1
	Bolt (12mm x 1.25 x 60mm, hex) with loader .....	2

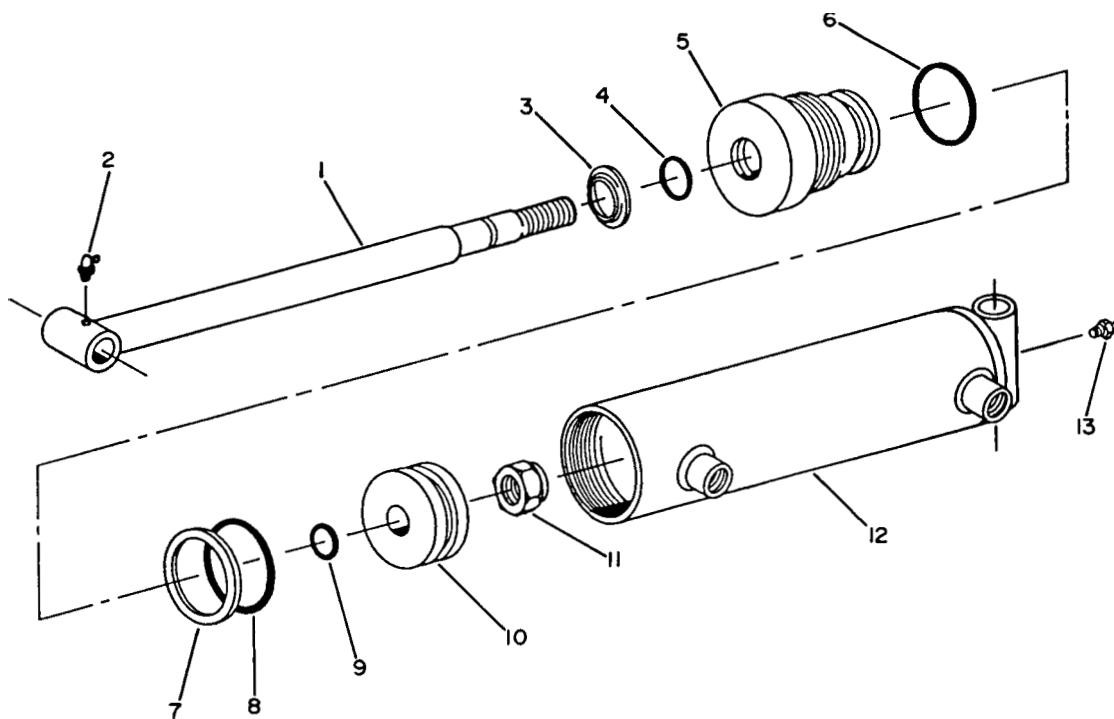
# PARTS GUIDE

## QH6000 QUICK HITCH SYSTEM

REF	DESCRIPTION	QTY
42	Hose guard R.H. . . . .	1
43	Mower shim . . . . .	2
44	Loader shim . . . . .	2
45	Front bracket L.H. . . . .	1
46	Front bracket R.H. . . . .	1
47	Bolt (12mm x 1.25 x 50mm, hex) . . . . .	7
48	Fixation pin . . . . .	1
49	Pin (4mm dia x 80mm, hair) . . . . .	2
50	Rear hitch plate . . . . .	1
51	Bolt (3/4" NC x 3 1/2", hex) . . . . .	1
52	Washer (3/4", lock) . . . . .	1
53	Nut (3/4" NC. hex) . . . . .	1
54	Fixation pin . . . . .	1
55	Bolt (5/16" NC x 2 1/4", hex) . . . . .	3
56	Washer (5/16", lock) . . . . .	3
57	Nut (5/16" NC. hex) . . . . .	3
58	Handle . . . . .	2
59	Valve . . . . .	1
60	Connector 1/2" male . . . . .	2
61	Hose 3/8" x 30" . . . . .	2
62	Male quick coupler . . . . .	1
63	Female quick coupler . . . . .	1
64	Connector 3/8" male . . . . .	4
65	Hose 1/4" x 76" . . . . .	1
66	Hose 1/4" x 78" . . . . .	1
67	Elbow 90 deg. . . . .	2
68	Rubber grommet . . . . .	2
69	Hose 1/4" x 62" . . . . .	1
70	Hose 1/4" x 64" . . . . .	1
71	Nylon washer (.630" dia hole. flat) . . . . .	2
72	Green plastic ring (identification) . . . . .	1
73	Yellow plastic ring (identification) . . . . .	1
74	Female quick coupler . . . . .	2
75	Dust plug . . . . .	2

## HYDRAULIC LIFT CYLINDER

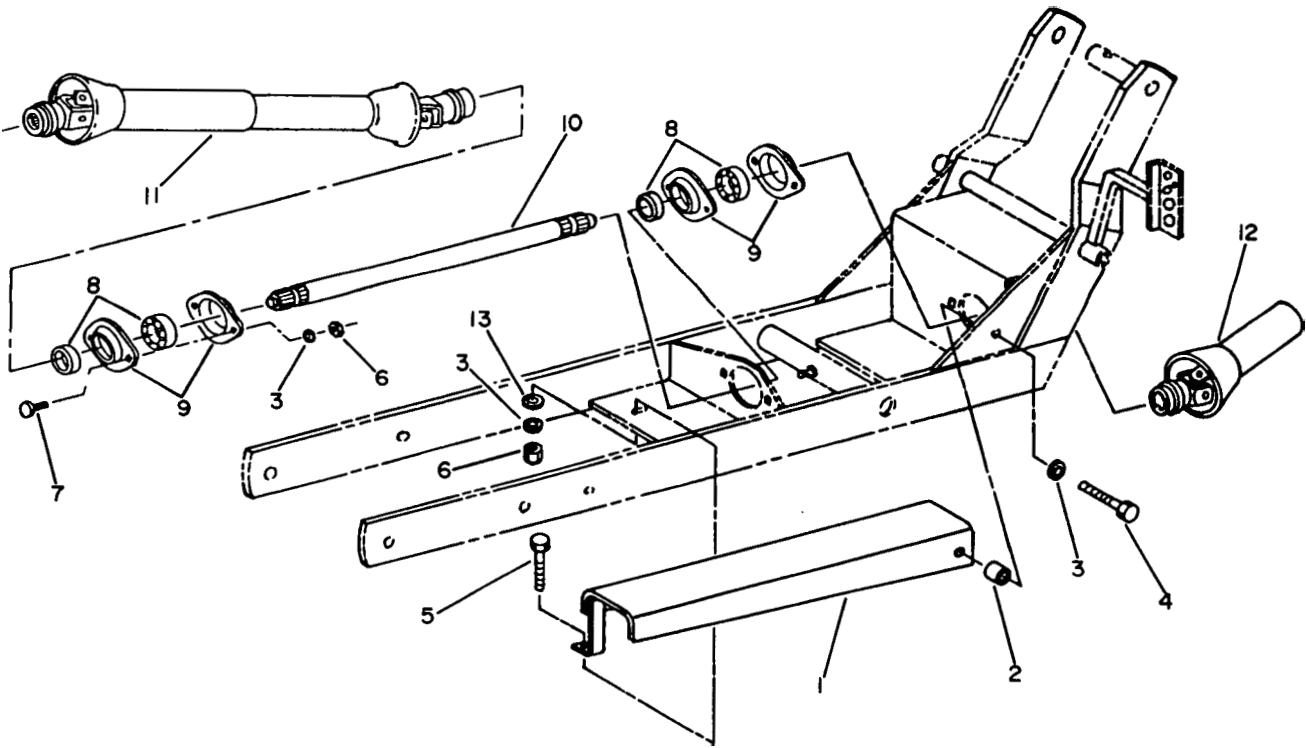
REF	DESCRIPTION	QTY
1	Rod .....	1
2	Grease fitting (1/4" NP. 90 deg) .....	1
3	Rod wiper .....	1
4	Seal .....	1
5	Cap .....	1
6	O-Ring .....	1
7	Tefflon piston ring .....	1
8	O-Ring .....	1
9	O-Ring .....	1
10	Piston .....	1
11	Nut .....	1
12	Cylinder tube .....	1
13	Grease fitting (1/4" NF) .....	1



PARTS GUIDE

DK6000 DRIVE KIT

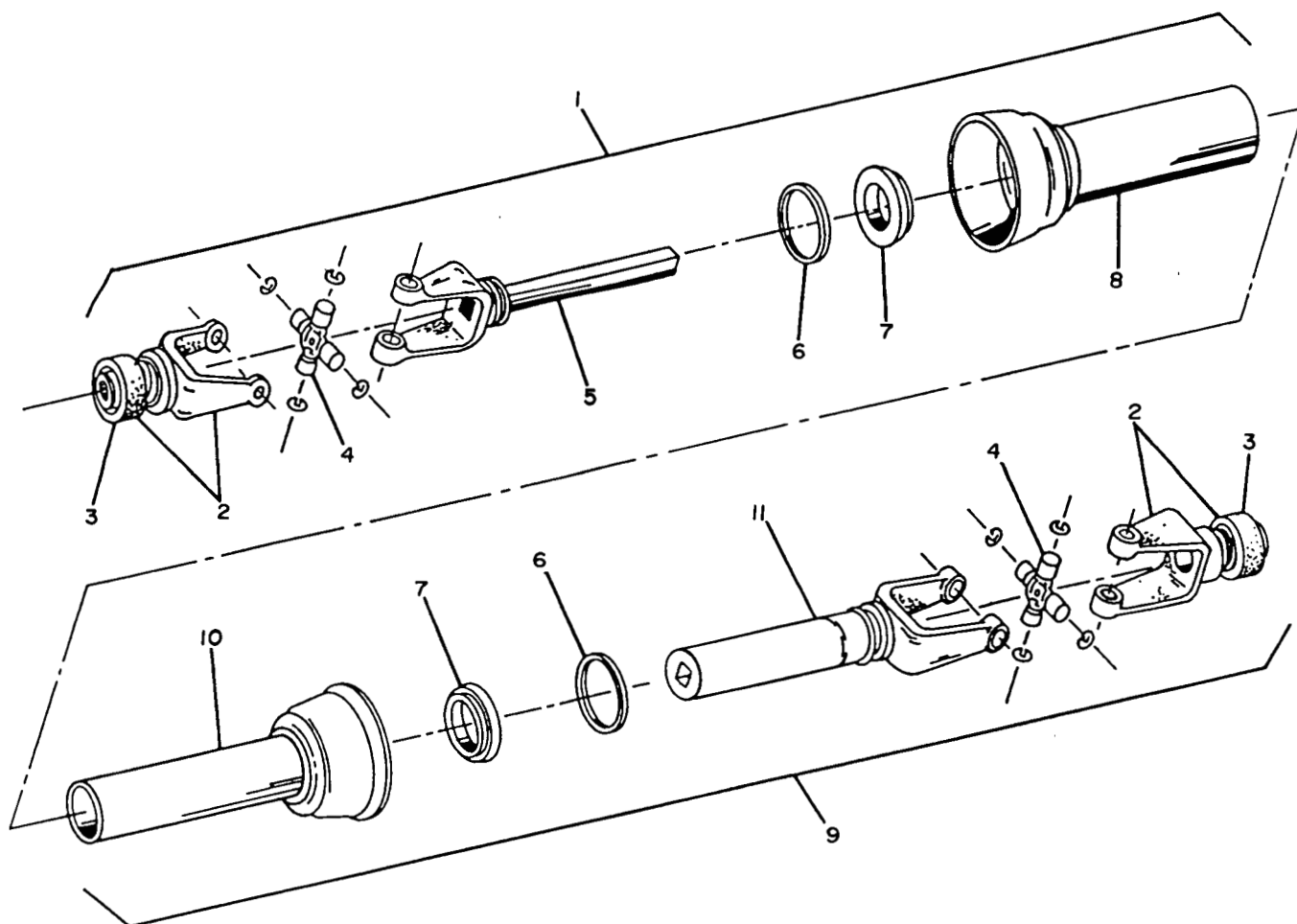
REF	DESCRIPTION	QTY
1	Driveline guard .....	1
2	Spacer .....	1
3	Washer (5/16", lock) .....	6
4	Bolt (5/16" NC x 1 1/4", hex) .....	1
5	Bolt (5/16" NC x 1", hex) .....	1
6	Nut (5/16" NC. hex) .....	5
7	Bolt (5/16" NC x 3/4", carriage) .....	4
8	Bearing 1"dia .....	2
9	Bearing retainer .....	4
10	Splined shaft .....	1
11	Mid driveline .....	1
12	Driveline front male half .....	1
13	Washer (3/8" dia hole. flat) .....	1





## MID DRIVELINE

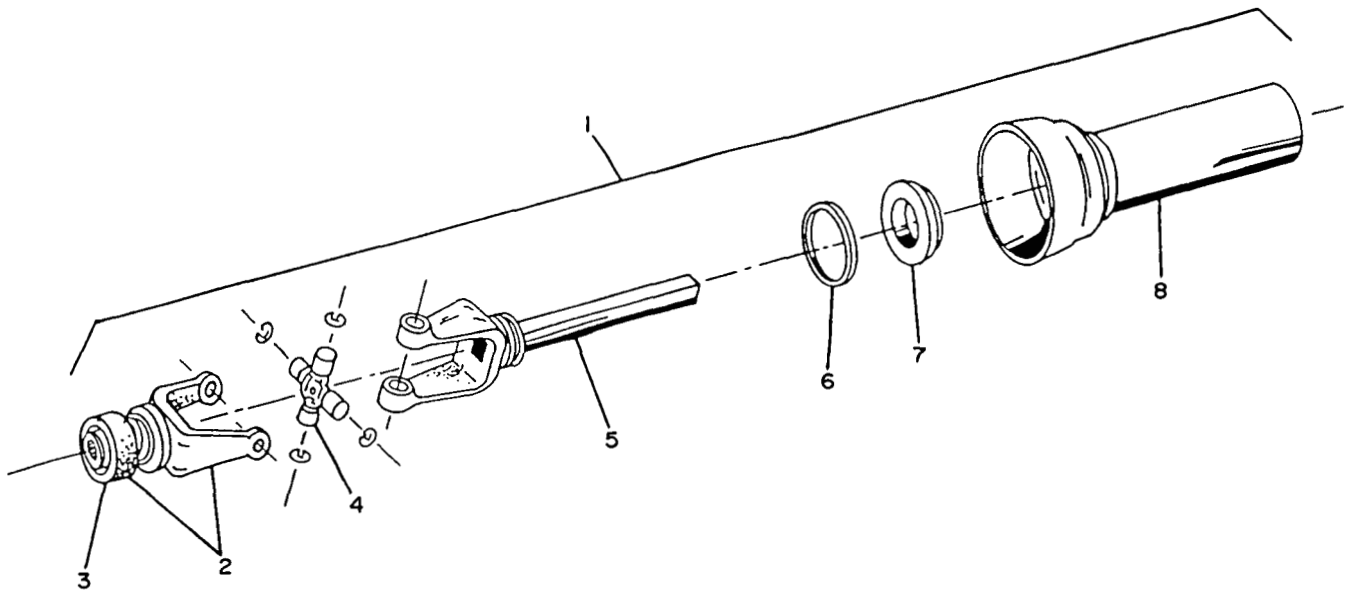
REF	DESCRIPTION	QTY
1	Driveline male portion .....	1
2	Quick disconnect yoke assembly (15 splines) .....	2
3	Spring lock yoke repair kit .....	2
4	Universal joint kit .....	2
5	Yoke and male shaft assembly .....	1
6	Bearing retainer .....	2
7	Nylon bearing .....	2
8	Outer shield .....	1
9	Driveline female portion .....	1
10	Inner shield .....	1
11	Yoke and female shaft assembly .....	1



## PARTS GUIDE

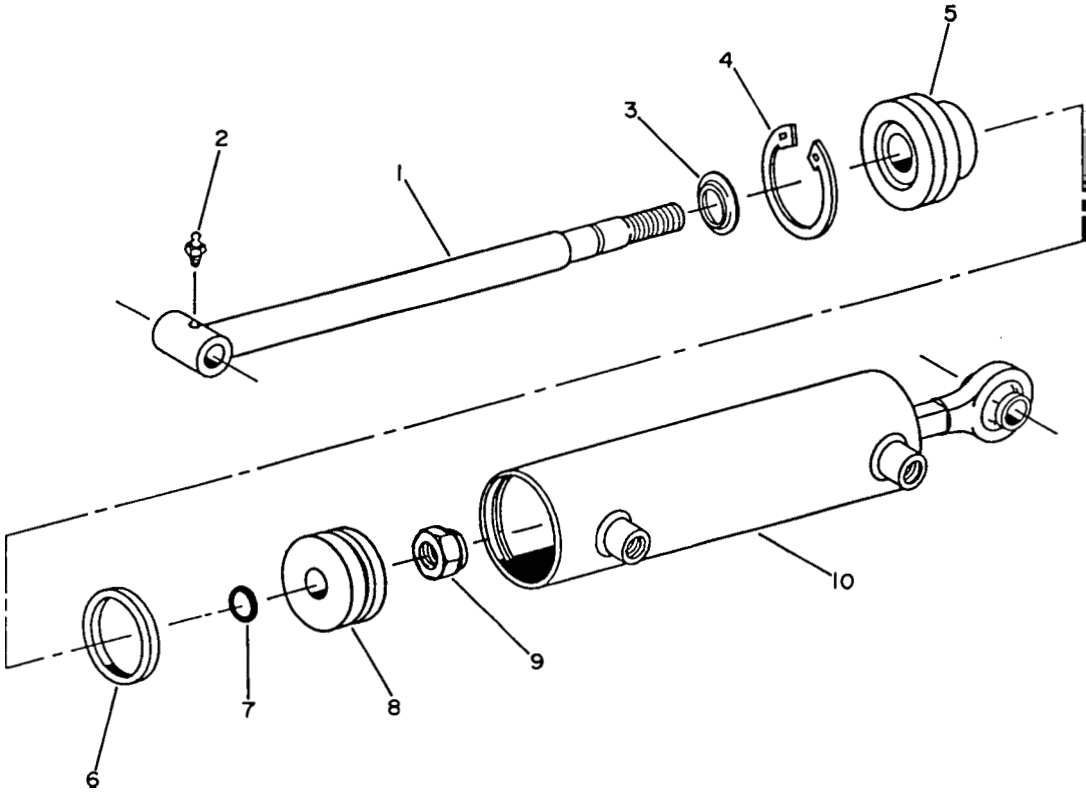
### DRIVELINE FRONT MALE HALF

REF	DESCRIPTION	QTY
1	Driveline male portion assembly .....	1
2	Quick disconnect yoke assembly (15 splines) .....	1
3	Spring lock yoke repair kit .....	1
4	Universal joint kit .....	1
5	Yoke and male shaft assembly .....	1
6	Bearing retainer .....	1
7	Nylon bearing .....	1
8	Outer shield .....	1



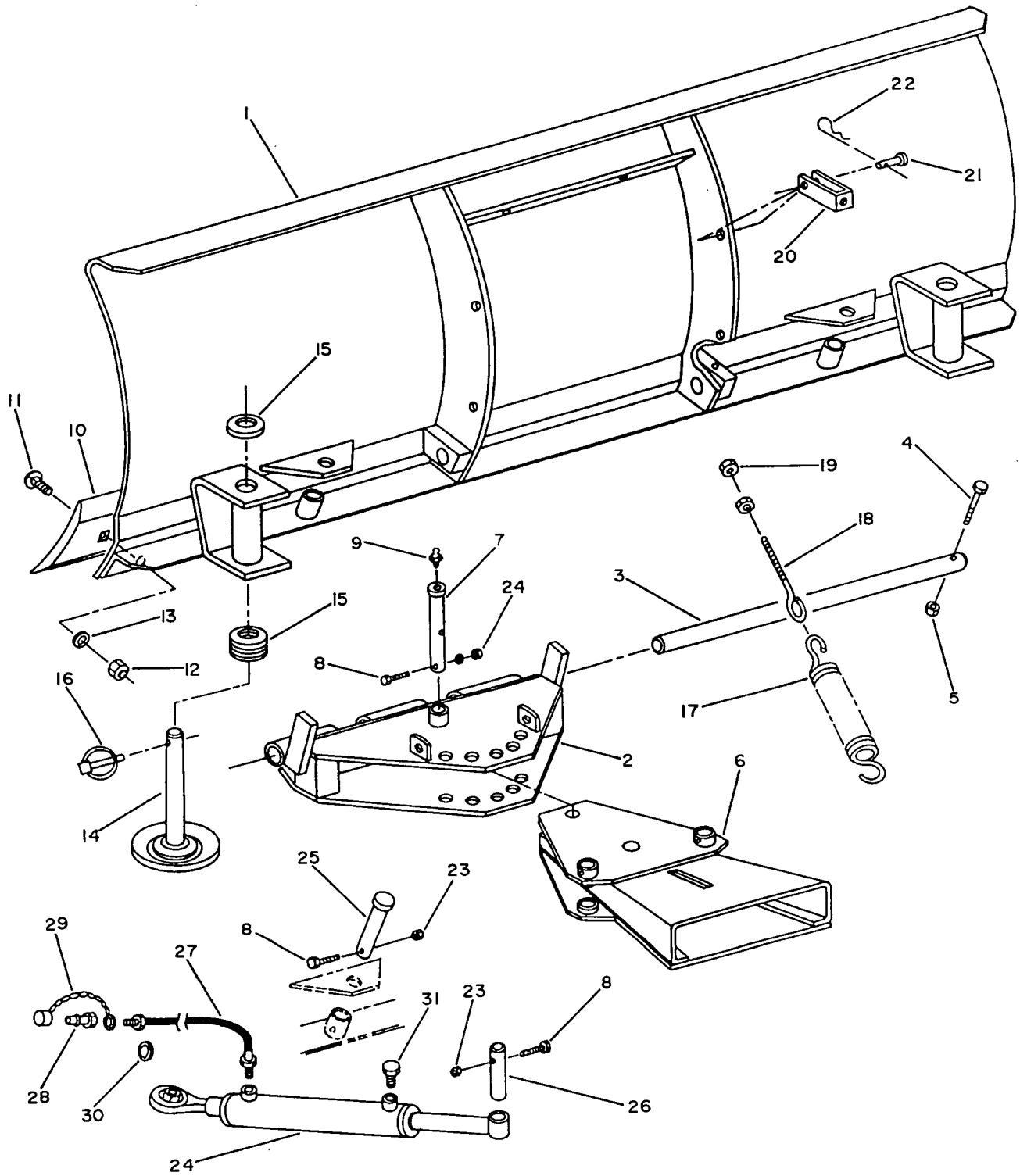
HYDRAULIC ANGLING CYLINDER

=====		
REF	DESCRIPTION	QTY
=====		
1	Rod .....	1
2	Grease fitting (1/4" NF) .....	1
3	Rod wiper .....	1
4	Snap ring .....	1
5	Cap .....	1
6	U cup .....	1
7	O-Ring .....	1
8	Piston .....	1
9	Nut .....	1
10	Cylinder tube .....	1
	Seal kit .....	



PARTS GUIDE

DB6560 FRONT BLADE (60" MODEL)

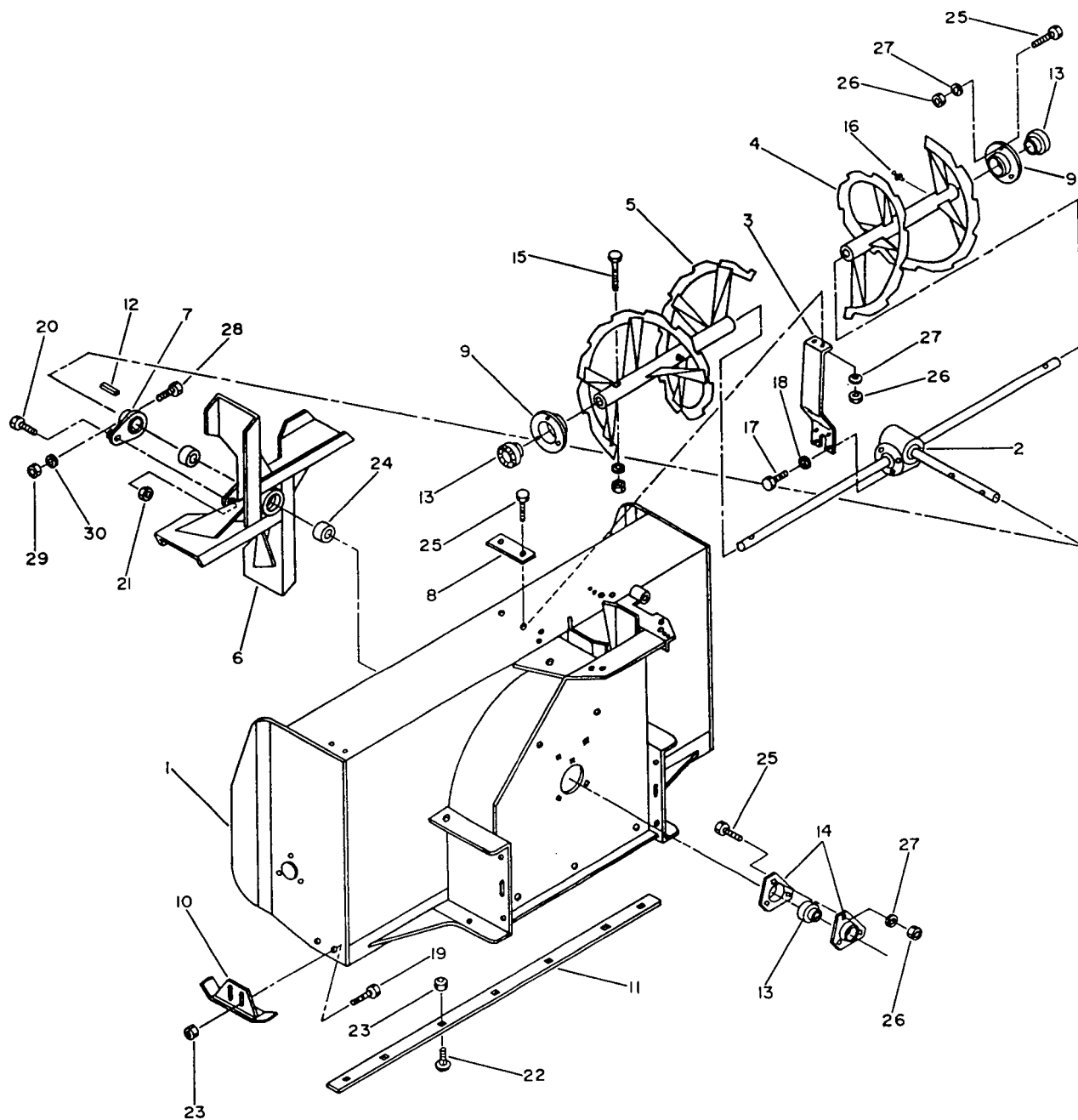


## DB6560 FRONT BLADE (60" MODEL)

REF	DESCRIPTION	QTY
1	Mold board .....	1
2	Hitch box .....	1
3	Rod (15/16" x 19 5/16") .....	1
4	Bolt (5/16" NC x 2". hex) .....	1
5	Nut (5/16" NC. nylon lock) .....	1
6	Female quick hitch .....	1
7	Pivot pin .....	1
8	Bolt (1/4" NC x 1 3/4", hex) .....	5
9	Grease fitting (1/4" NF) .....	1
10	Cutting edge .....	1
11	Bolt (5/8" NC x 2". plow) .....	7
12	Nut (5/8" NC. hex) .....	7
13	Washer (5/8", lock) .....	7
14	Skid shoe .....	2
15	Spacer washer .....	12
16	Pin (5/16" dia. linch) .....	2
17	Spring .....	2
18	Eye bolt (5/16" NC x 5" with hex. nut) .....	2
19	Nut (5/16" NC. hex) .....	2
20	Trip spring lockout bracket .....	2
21	Pin (3/8" x 1 7/16") .....	2
22	Pin (3mm x 65mm, hair) .....	2
23	Nut (1/4" NC. nylon lock) .....	5
24	Cylinder (2" x 6 1/2" stroke.) .....	2
25	Pin (7/8" x 2 7/8") .....	2
26	Pin (3/4" x 3") .....	2
27	Hose 1/4" x 41" .....	1
	Hose 1/4" x 48" .....	1
28	Quick coupler male .....	2
29	Dust cap .....	2
30	Yellow plastic ring (identification) .....	2
	Green plastic ring (identification) .....	2
31	Breather plug .....	2

## PARTS GUIDE

### SB6557 TWO STAGE SNOWBLOWER (57" MODEL)



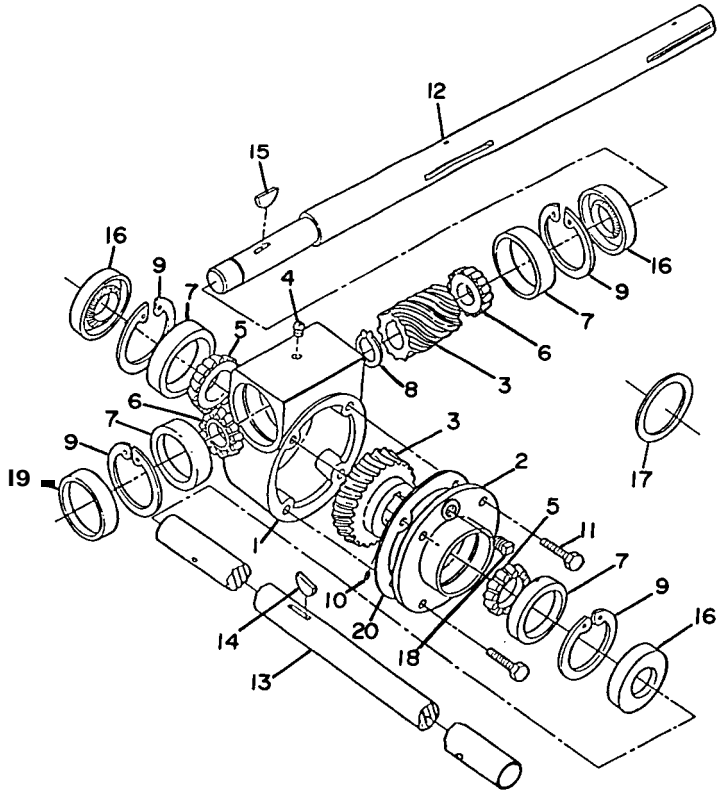
## SB6557 TWO STAGE SNOWBLOWER (57" MODEL)

=====		
REF	DESCRIPTION	QTY
=====		
1	Housing .....	1
2	Gear box assembly .....	1
3	Gear box support bracket .....	1
4	Auger assembly R.H. ....	1
5	Auger assembly L.H. ....	1
6	Fan .....	1
1 7	Shear plate .....	1
8	Reinforcement bracket .....	1
9	Bearing retainer .....	2
10	Adjustable skid shoe .....	2
11	Cutting edge .....	1
12	Key (1/4" x 1/4" x 1 1/4") .....	1
13	Bearing with locking collar .....	3
14	Bearing retainer .....	2
15	Bolt (shear. lockwasher and nut) .....	2
16	Grease fitting .....	2
17	Bolt (1/2" NC x 1". hex) .....	4
18	Washer (1/2", lock) .....	4
19	Bolt (3/8" NC x 1". carriage) .....	4
20	Bolt (1/4" NC x 1 1/4", hex) .....	1
21	Nut (3/8" NC. nylon lock) .....	1
22	Bolt (3/8" NC x 1 1/4", plow) .....	7
23	Nut (3/8" NC. nylon lock) .....	11
24	Bushing (oil- lite) .....	2
25	Bolt (3/8" NC x 1". hex) .....	11
26	Nut (3/8" NC. hex) .....	11
27	Washer (3/8", lock) .....	11
28	Bolt (5/16" NC x 2 1/2", hex) .....	1
29	Nut (5/16" NC. hex) .....	1
30	Washer (5/16", lock) .....	1

PARTS GUIDE

WORM GEAR BOX

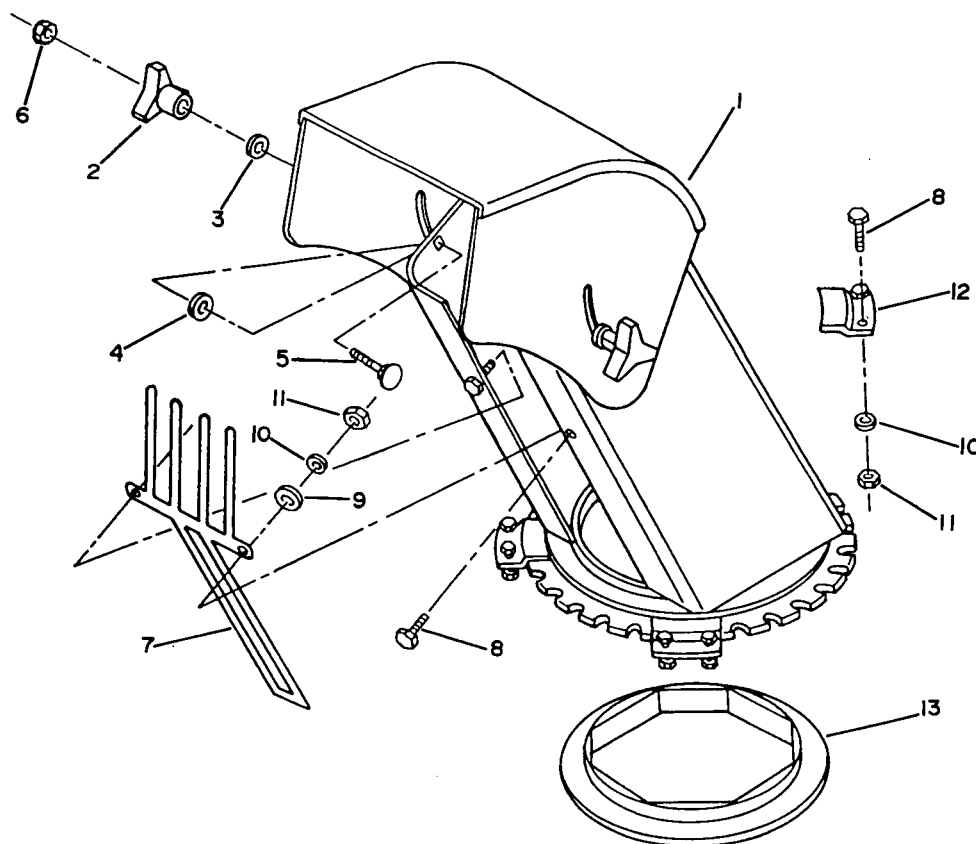
REF	DESCRIPTION	QTY
1	Housing .....	1
2	Cover .....	1
3	Worm and bronze gear set .....	1
4	Plug (3/8", 18 NPT. vent) .....	1
5	Bearing cone .....	2
6	Bearing cone .....	2
7	Bearing cup .....	4
8	External retraining ring .....	1
9	Internal retraining ring .....	4
10	Set screw (1/4" NF x 3/8", allen) .....	1
11	Cap screw (3/8" NC x 3/4") .....	4
12	Input shaft .....	1
13	Output shaft .....	1
14	Key woodruff .....	1
15	Key woodruff .....	1
16	Seal .....	3
17	Shim (use as required) .....	-
18	Plug (3/8", 18 NPT. level) .....	1
19	Input cap .....	1
20	Gasket .....	1





## CHUTE WITH DEFLECTOR

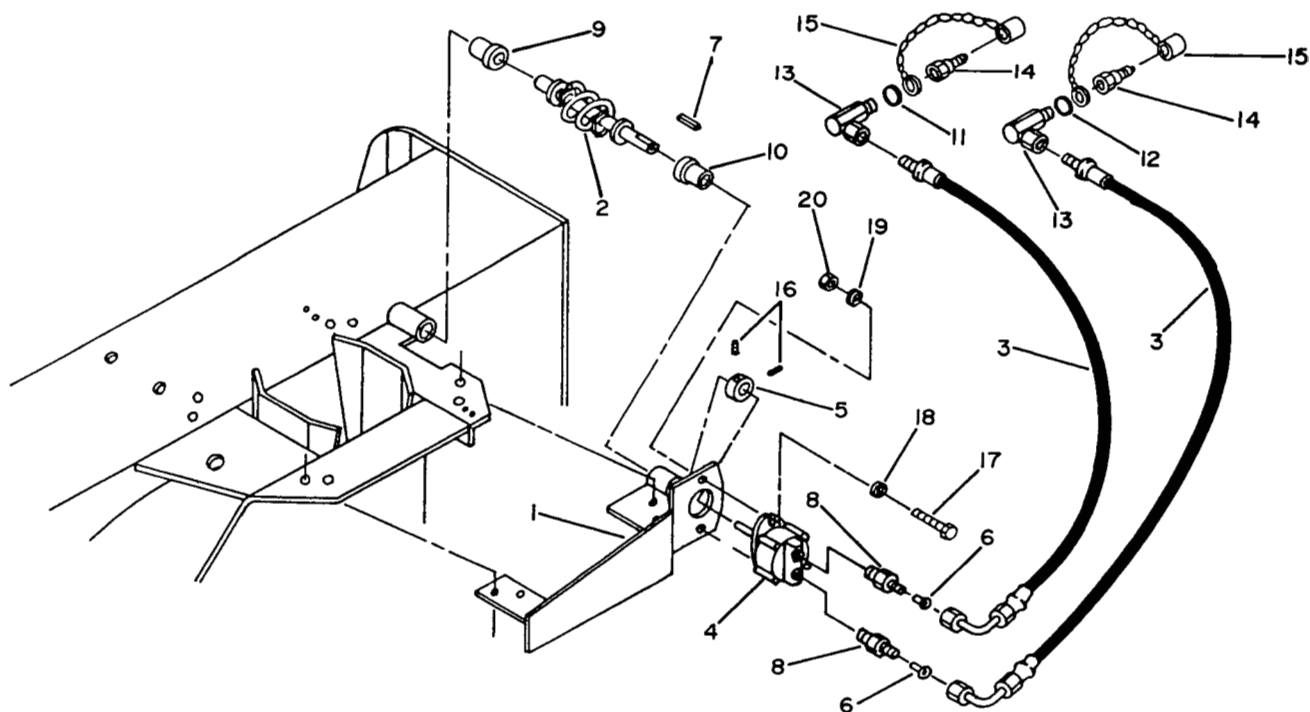
REF	DESCRIPTION	QTY
1	Chute with knob and decals (CANADA) .....	1
	Chute with knob and decals (USA) .....	1
2	Knob (5/16" NC) .....	2
3	Nylon washer (11/32" dia hole. flat) .....	2
4	Nylon washer (7/16" dia hole. flat) .....	2
5	Bolt (5/16" NC x 1 1/2", carriage) .....	2
6	Nut (5/16" NC. nylon lock) .....	2
7	Hand guard .....	1
8	Bolt (1/4" NC x 3/4", hex) .....	10
9	Washer (5/16" dia hole. flat) .....	2
10	Washer (1/4", lock) .....	10
11	Nut (1/4" NC. hex) .....	10
12	Retaining plate .....	4
13	Nylon ring .....	1



## PARTS GUIDE

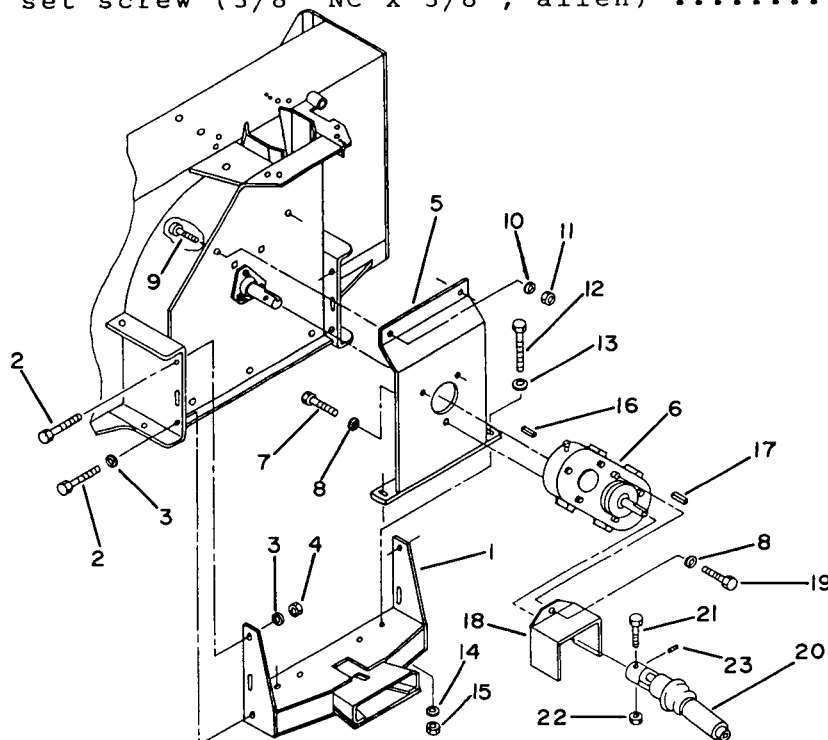
### HYDRAULIC CHUTE ROTATION

REF	DESCRIPTION	QTY
1	Rotation bracket .....	1
2	Rotation worm (CW) .....	1
3	Hose 1/4" x 28" .....	2
4	Hydraulic motor .....	1
5	Locking collar .....	1
6	Flow restrictor .....	2
7	Key (1/8" x 3/16" x 1") .....	1
8	Connector .....	2
9	Plastic bushing 1 5/16" .....	1
10	Plastic bushing 1 11/16" .....	1
11	Yellow plastic ring (identification) .....	1
12	Green plastic ring (identification) .....	1
13	Elbow 90 deg. ....	2
14	Male quick coupler .....	2
15	Dust cap .....	2
16	Set screw (1/4" NC x 5/16". allen) .....	2
17	Bolt (3/8" NC x 1". hex) .....	2
18	Washer (7/16" dia hole. flat) .....	2
19	Washer (3/8", lock) .....	2
20	Nut (3/8" NC. hex) .....	2
	Seal kit for hydraulic motor .....	2



## FEMALE HITCH AND REDUCTION SYSTEM

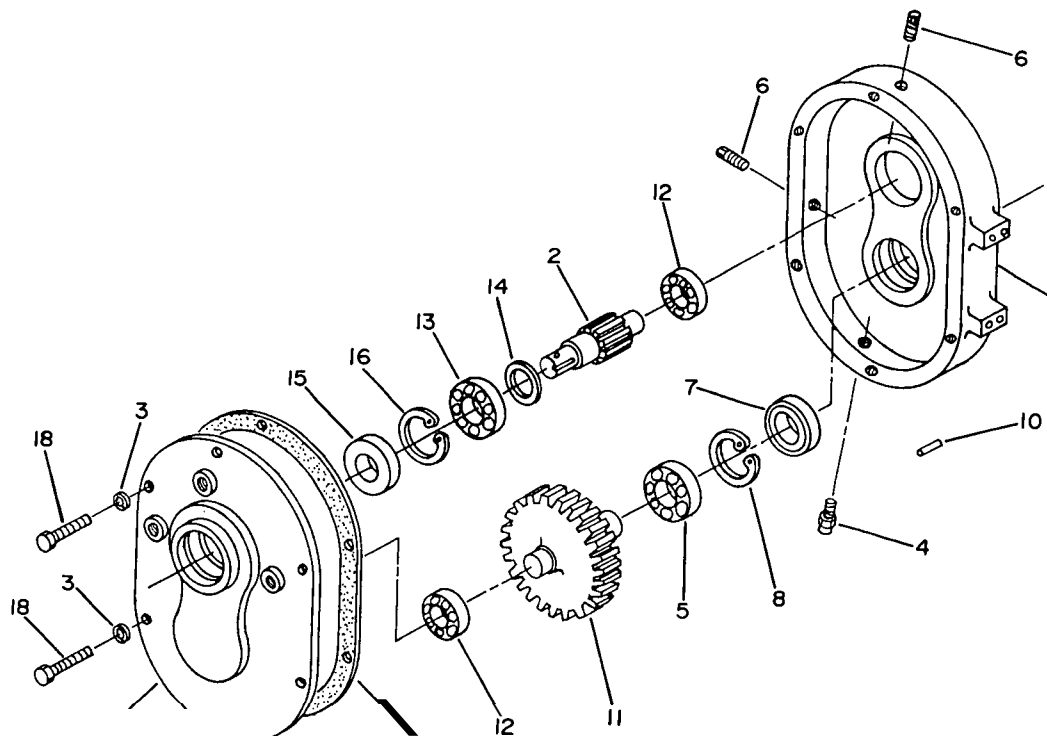
REF	DESCRIPTION	QTY
1	Female hitch .....	1
2	Bolt (5/8" NC x 1 1/4", hex) .....	4
3	Washer (5/8", lock) .....	4
4	Nut (5/8" NC. hex) .....	2
5	Reduction gear box support .....	1
6	Reduction gear box .....	1
7	Bolt (10mm x 1.50 x 25mm, hex) .....	3
8	Washer (10mm, lock) .....	4
9	Flat socket capscrew (5/16" NC x 1", allen) .....	2
10	Washer (5/16", lock) .....	2
11	Nut (5/16" NC. hex) .....	2
12	Bolt (3/8" NC x 3 3/4", hex) .....	2
13	Washer (7/16" dia hole. flat) .....	2
14	Washer (3/8", lock) .....	2
15	Nut (3/8" NC. hex) .....	2
16	Key (1/4" x 1/4" x 2 1/2") .....	1
17	Key (1/4" x 1/4" x 1 1/4") .....	1
18	Driveline guard .....	1
19	Bolt (10mm x 1.50 x 15mm, hex) .....	1
20	Driveline female half .....	1
21	Bolt (1/4" NC x 2 1/2", hex) .....	1
22	Nut (1/4" NC. nylon lock) .....	1
23	Socket set screw (3/8" NC x 3/8", allen) .....	1



## PARTS GUIDE

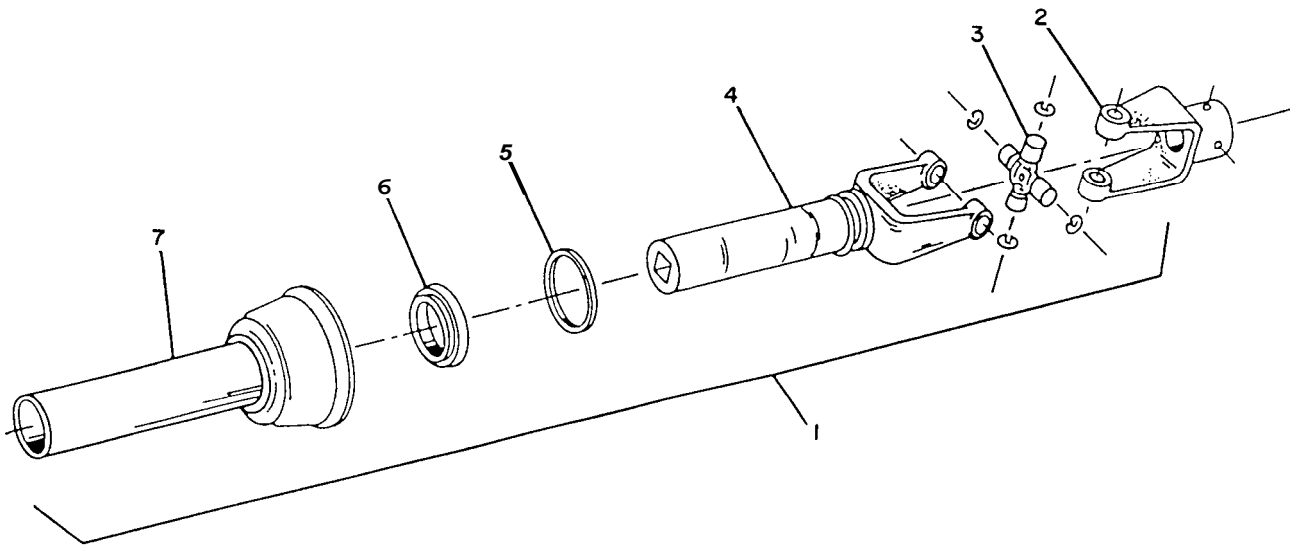
### REDUCTION GEAR BOX

REF	DESCRIPTION	QTY
1	Casing .....	1
2	Gear .....	1
3	Washer (10mm, lock) .....	6
4	Oil filler plug .....	1
5	Bearing .....	1
6	Plug .....	2
7	Oil seal .....	1
8	Snap ring .....	1
9	Gasket .....	1
10	Spring pin .....	2
11	Gear .....	1
12	Bearing .....	2
13	Bearing .....	1
14	Shim .....	1
15	Oil seal .....	1
16	Snap ring .....	1
17	Cover .....	1
18	Bolt (M10 x 30mm - 8.8. hex) .....	6



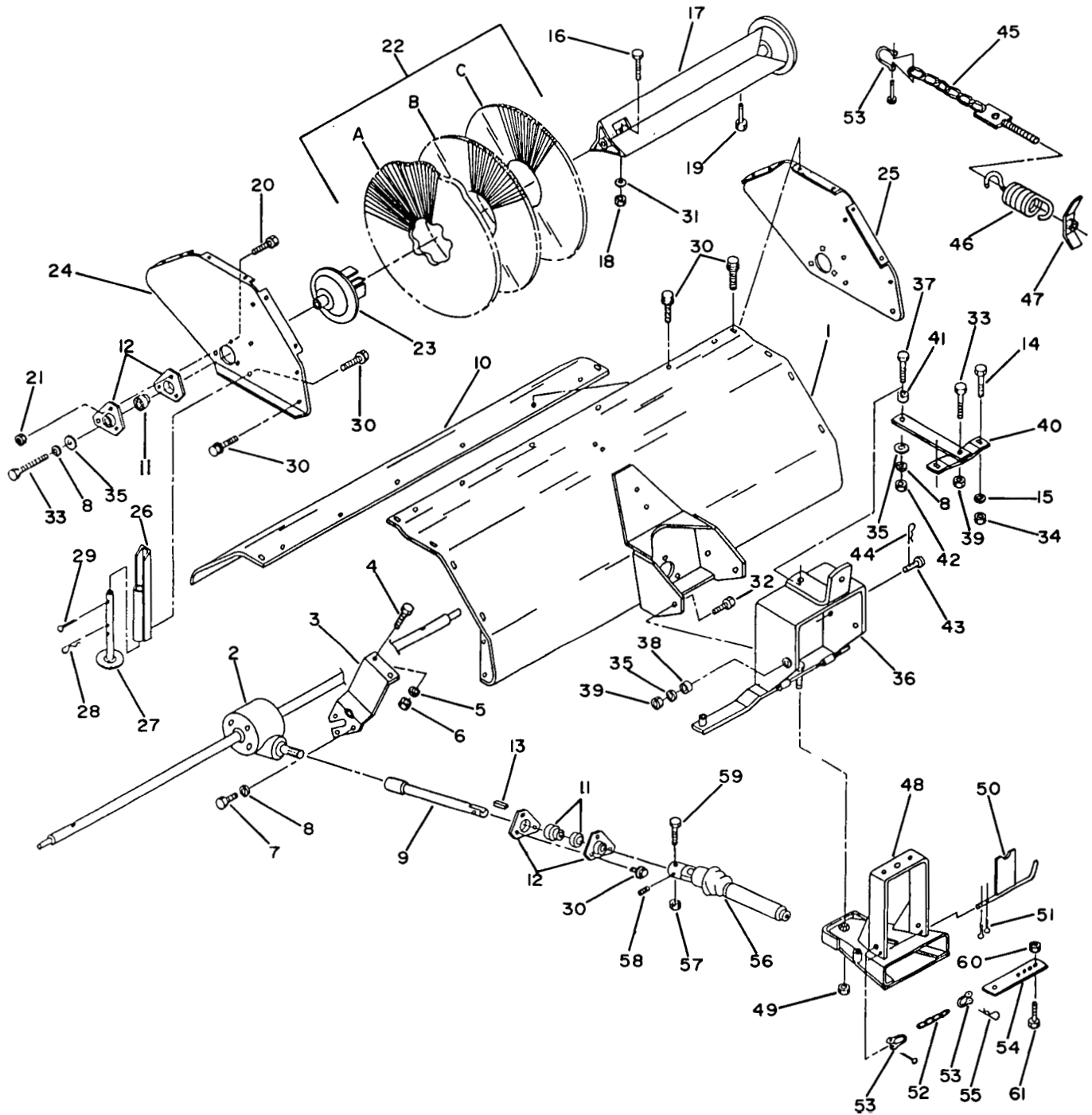
## DRIVELINE FEMALE HALF

REF	DESCRIPTION	QTY
1	Driveline female portion assembly .....	1
2	Yoke (1" dia. hole) .....	1
3	Universal joint kit .....	1
4	Yoke and female shaft assembly .....	1
5	Bearing retainer .....	1
6	Nylon bearing .....	1
7	Inner shield .....	1



PARTS GUIDE

FS6560 FRONT ROTARY BROOM (60" MODEL)



## FS6560 FRONT ROTARY BROOM (60" MODEL)

REF	DESCRIPTION	QTY
1	Housing .....	1
2	Gear box (ccw) .....	1
3	Gear box support .....	1
4	Bolt (7/16" NC x 1 1/4", hex) .....	2
5	Washer (7/16", lock) .....	2
6	Nut (7/16" NC. hex) .....	2
7	Bolt (1/2" NC x 1" hex) .....	3
8	Washer (1/2", lock) .....	6
9	Input shaft .....	1
10	Hood extension .....	1
11	Bearing and locking collar .....	3
12	Bearing retainer .....	6
13	Key (1/4" x 1/4" x 1 1/4") .....	1
14	Bolt (3/8" NC x 1 1/4", hex) .....	2
15	Washer (3/8", lock) .....	2
16	Bolt (5/16" NC x 2 1/4", hex) .....	2
17	Brush support .....	2
18	Nut (5/16" NC. hex) .....	2
19	Bolt (5/16" NC x 3/4", hex) .....	2
20	Bolt (3/8" NC x 3/4", carriage) .....	6
21	Nut (3/8" NC. flange) .....	6
22	Brush package :	1
	Polypropylene set .....	-
	Steel set .....	-
	Polypropylene and steel set (50/50) .....	-
	Includes: 2 concave brushes 10 deg (item C), 2 concave brushes 5 deg (item B) and 26 zigzag brushes (item A)	
23	Retainer cup .....	2
24	Side plate L.H. ....	1
25	Side plate R.H. ....	1
26	Parking stand support .....	2
27	Parking stand .....	2
28	Pin (4mm x 80mm, hair) .....	2
29	Pin (5/32" x 1 1/4", cotter) .....	2
30	Bolt (5/16" NC x 1/2", flange) .....	33
31	Washer (5/16", lock) .....	2
32	Bolt (1/2" NC x 1 3/4", hex) .....	2
33	Bolt (1/2" NC x 1 1/2", hex) .....	3
34	Nut (3/8" NC. hex) .....	2
35	Washer (9/16" dia hole. flat) .....	5
36	Adjustment bracket .....	1
37	Bolt (1/2" NC x 2" hex) .....	1
38	Pivot bushing .....	2
39	Nut (1/2" NC. nylon lock) .....	3
40	Support arm .....	1

# PARTS GUIDE

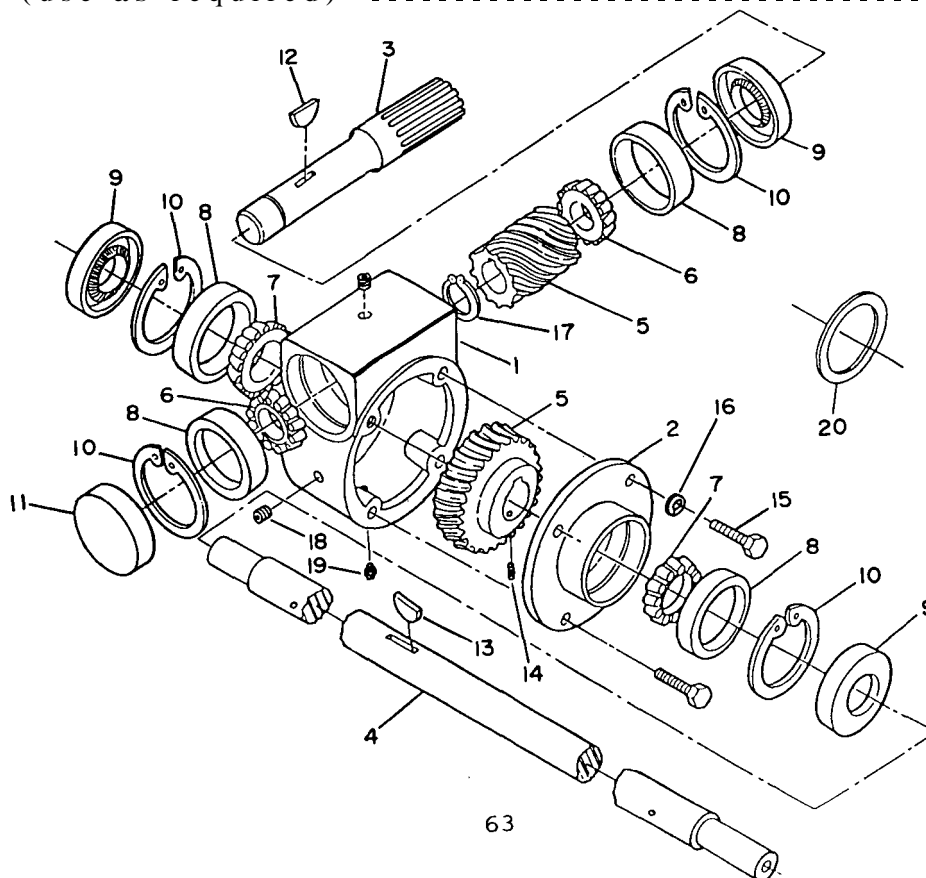
## FS6560 FRONT ROTARY BROOM (60" MODEL)

REF	DESCRIPTION	QTY
41	Bushing .....	1
42	Nut (1/2" NC. hex) .....	1
43	Stopper pin .....	1
44	Pin (3mm x 65mm, hair) .....	1
45	Ground contact chain .....	1
46	Tension spring .....	1
47	Adjustment handle .....	1
48	Female hitch .....	1
49	Nut (3/4" NC. uni-torque) .....	1
50	Support bracket .....	1
51	Pin (1/8" x 3/4", cotter) .....	2
52	Stopper chain .....	2
53	Clevis .....	5
54	Chain support bracket .....	2
55	Pin (2.5mm x 40mm, hair) .....	2
56	Driveline female half .....	1
57	Nut (5/16" NC. nylon lock) .....	1
58	Set screw (3/8" NC x 1/2", allen) .....	1
59	Bolt (5/16" NC x 2 1/2, hex) .....	1
60	Nut (3/8 NC. nylon lock) .....	2
61	Bolt (3/8" NC x 1 1/2", hex) .....	2



## WORM GEAR BOX

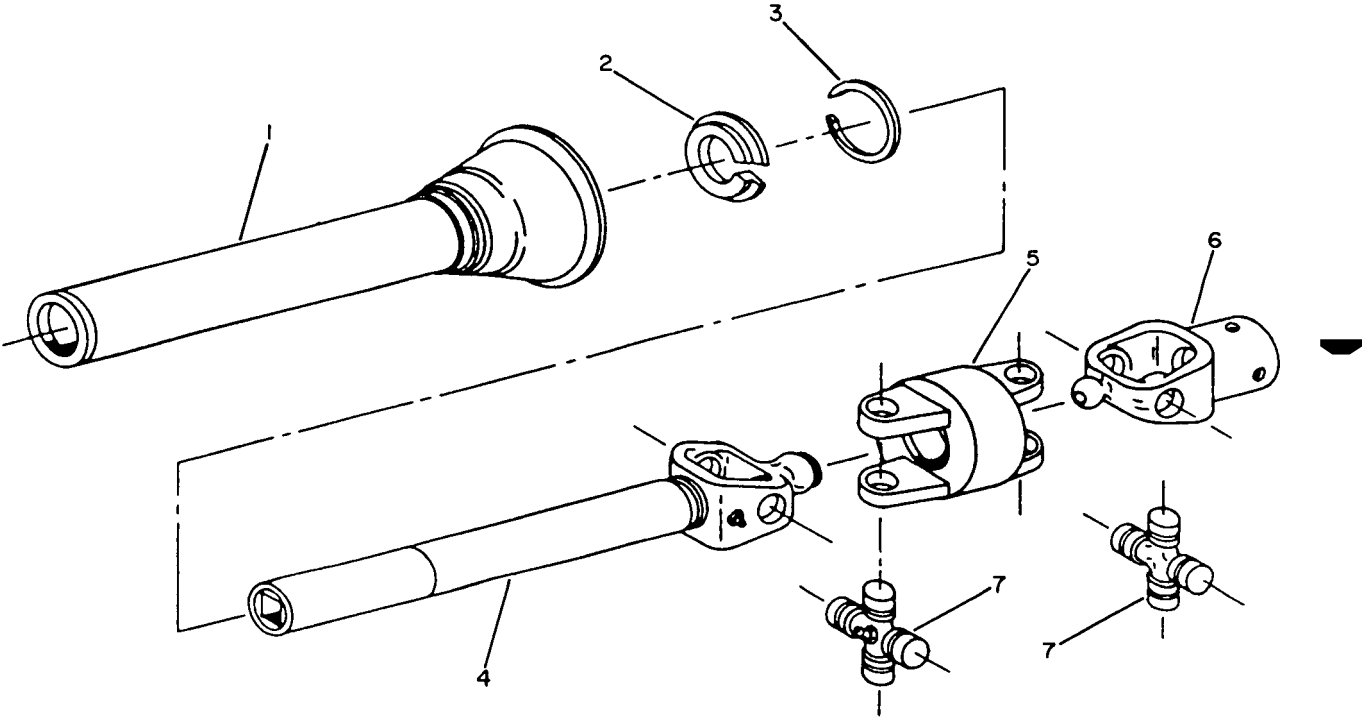
REF	DESCRIPTION	QTY
1	Housing .....	1
2	Cover .....	1
3	Input shaft .....	1
4	Output Shaft .....	1
5	Worm and brass gear set .....	1
6	Bearing cone .....	2
7	Bearing cone .....	2
8	Bearing cup .....	4
9	Seal .....	3
10	Internal retaining ring .....	4
11	Input cap .....	1
12	Key (woodruff) .....	1
13	Key (woodruff) .....	1
14	Set screw (1/4" NF x 3/8", allen) .....	1
15	Cap screw (3/8" NC x 3/4", hex) .....	4
16	Washer (3/8", lock) .....	4
17	External retainer ring .....	1
18	Plug (3/8" NPT) .....	2
19	Vent (3/8", 18 NPT) .....	1
20	Shim (use as required) .....	-



PARTS GUIDE

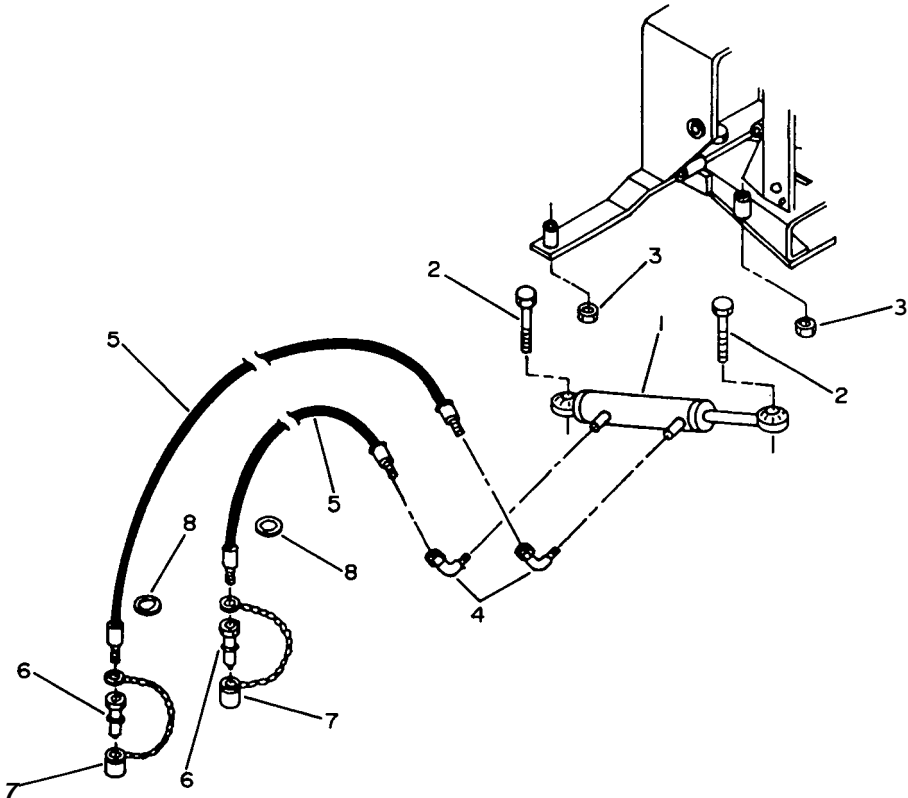
DRIVELINE FEMALE HALF

REF	DESCRIPTION	QTY
1	Inner shield .....	1
2	Nylon bearing .....	1
3	Bearing retainer .....	1
4	Yoke and female shaft assembly .....	1
5	Double yoke (joint C.V.) .....	1
6	Yoke 1 1/4" .....	1
7	Universal joint kit .....	2



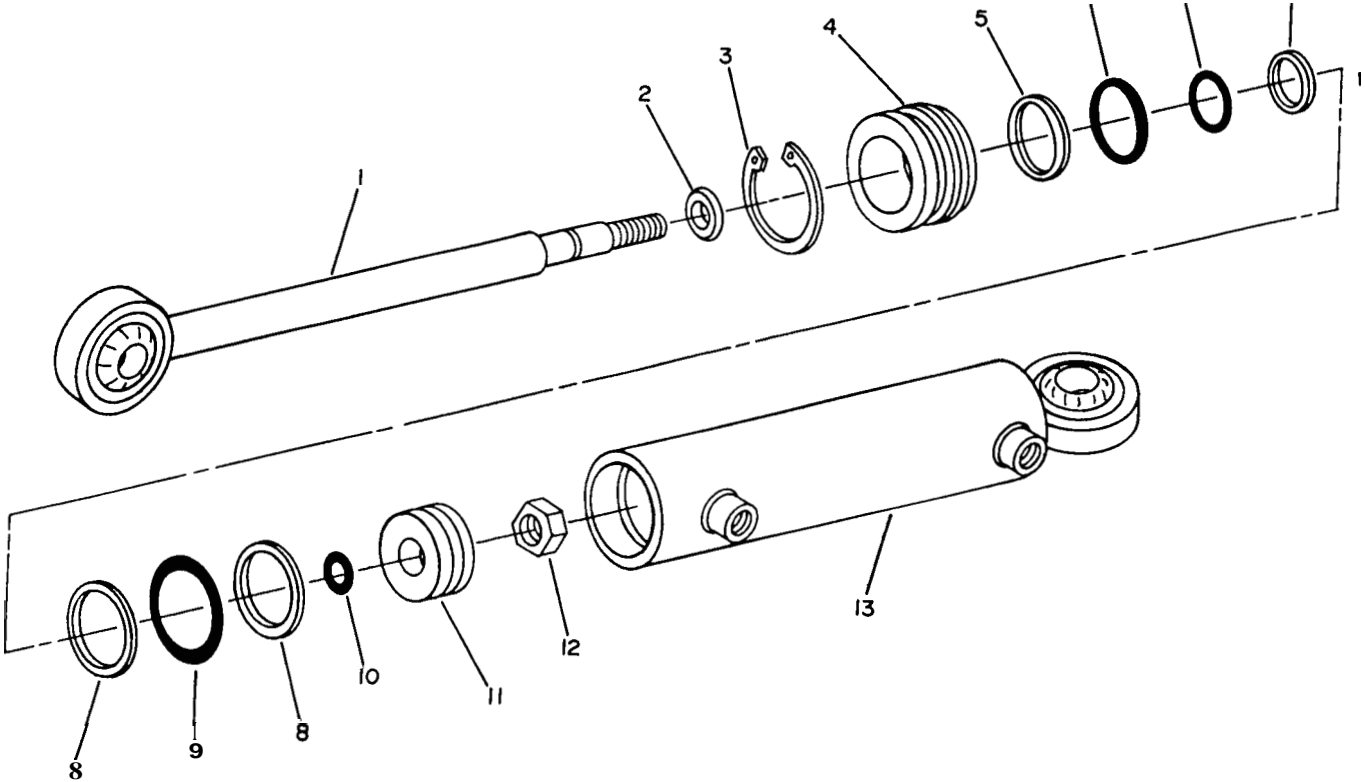
HYDRAULIC POWER ANGLE

REF	DESCRIPTION	QTY
1	Cylinder .....	1
2	Bolt (5/8" NC x 3 1/2", hex) .....	2
3	Nut (5/8" NC, uni-torque) .....	2
4	Elbow 90 deg. ....	2
5	Hose 1/4" x 37" .....	2
6	Male quick coupler .....	2
7	Dust cap .....	2
8	Yellow plastic ring (identification) .....	2
	Green plastic ring .....	2



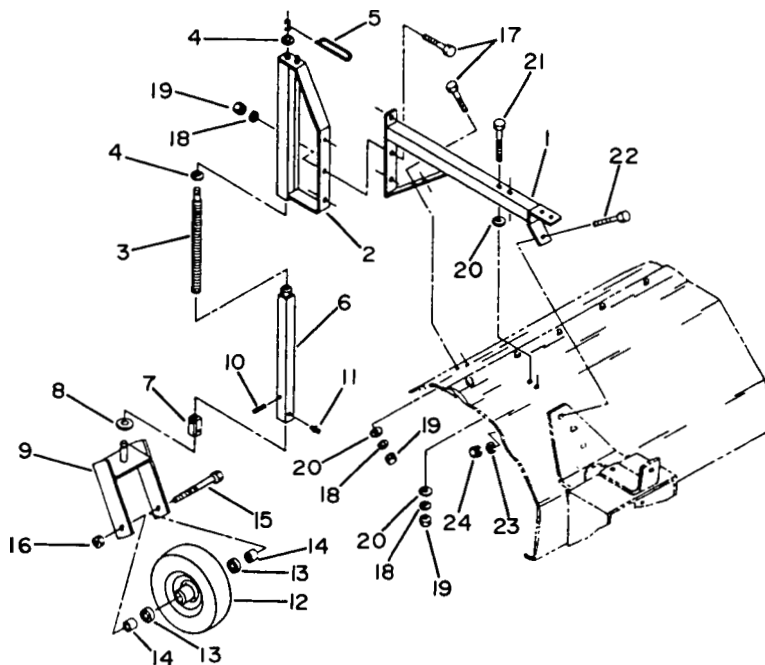
HYDRAULIC CYLINDER

REF	DESCRIPTION	QTY
1	Rod .....	1
2	Rod wiper .....	1
3	Snap ring .....	1
4	Cap .....	1
5	Back up ring .....	1
6	O-Ring .....	1
7	O-Ring for cap .....	1
8	Back up ring .....	2
9	O-Ring .....	1
10	O-Ring .....	1
11	Piston .....	1
12	Nut (7/8" NF) .....	1
13	Cylinder tube with ball end .....	1
14	Back up ring .....	1
	Seal kit .....	1



## FRONT WHEEL

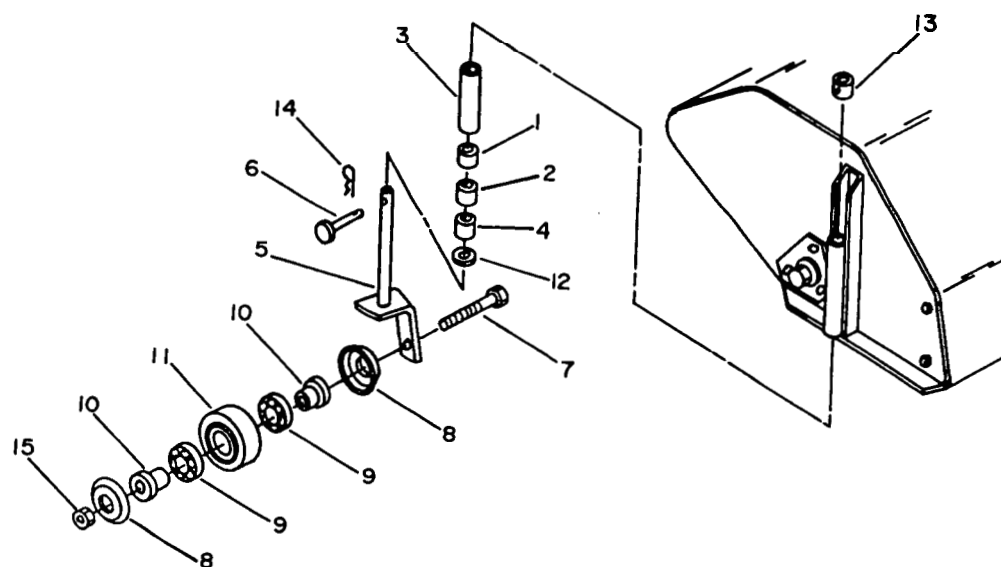
REF	DESCRIPTION	QTY
1	Front wheel support .....	1
2	Adjustable jack .....	1
3	Jack threaded rod .....	1
4	Washer (9/16" dia hole. flat) .....	2
5	Handle .....	1
6	Jack housing .....	1
7	Wheel bushing .....	1
8	Washer (13/16" dia hole. flat) .....	1
9	Wheel bracket .....	1
10	Pin (1/4" dia x 1 1/2", roll) .....	1
11	Grease fitting (1/4" NF) .....	1
12	Wheel and tire assembly .....	1
13	Bearing with snap ring .....	2
14	Shim .....	2
15	Bolt (5/8" NC x 5 1/2", hex) .....	1
16	Nut (5/8" NC. nylon lock) .....	1
17	Bolt (3/8" NC x 1", hex) .....	5
18	Washer (3/8", lock) .....	7
19	Nut (3/8" NC. hex) .....	7
20	Washer (7/16" dia hole. flat) .....	6
21	Bolt (3/8" NC x 2 1/4", hex) .....	2
22	Bolt (7/16" NC x 1 1/4", hex) .....	1
23	Washer (7/16", lock) .....	1
24	Nut (7/16" NC. hex) .....	1



## PARTS GUIDE

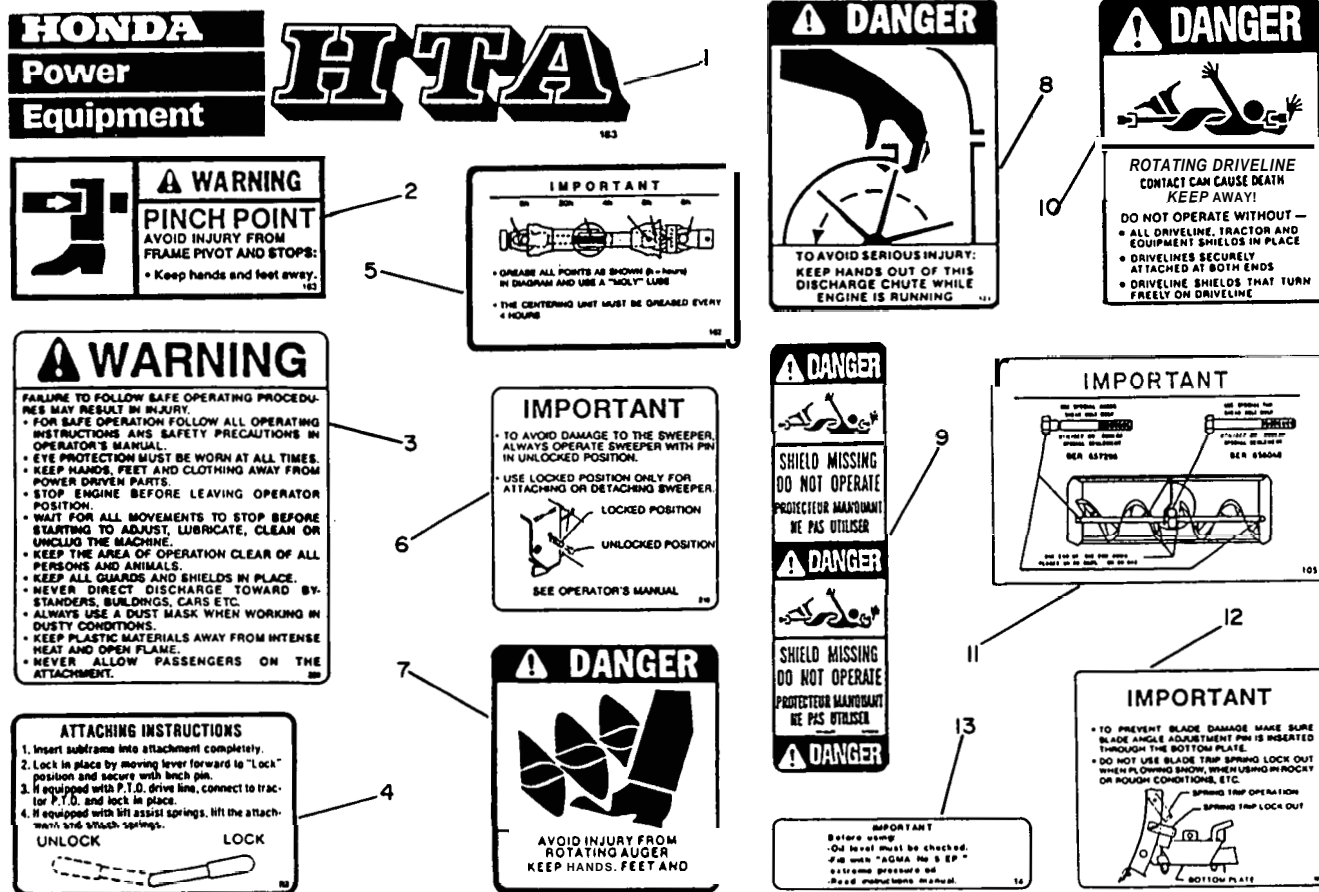
### OPTIONAL CASTER WHEEL (lawn thatching and etc.)

REF	DESCRIPTION	QTY
1	Spacer sleeve (1/4" lg.)	2
2	Spacer sleeve (1/2" lg.)	2
3	Spacer sleeve (4" lg.)	2
4	Spacer sleeve (1" lg.)	10
5	Wheel bracket L.H.	1
	Wheel bracket R.H.	1
6	Pin (5/16" x 1 3/4")	1
7	Bolt (1/2" NC x 3 1/2", hex)	2
8	Wheel cup	4
9	Bearing	4
10	Wheel bushing	4
11	Plastic wheel	2
12	Washer 1/8" thick	2
13	Fixation tube	2
14	Pin (2.5mm x 40mm, hair)	2
15	Nut (1/2" NC. nylon lock)	2



## DECALS

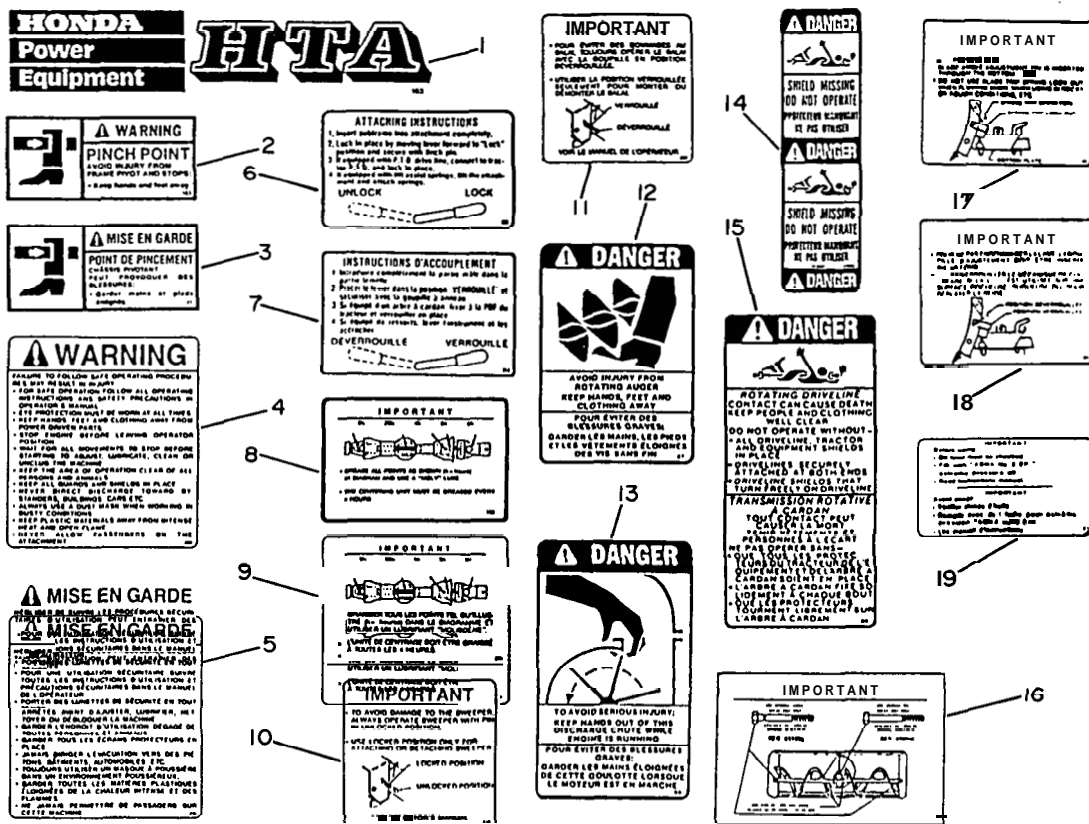
REF	DESCRIPTION	QTY
1	HONDA HTA decal (snowblower, blade, rotary broom) .....	3
2	Warning decal (blade, rotary broom) .....	4
3	Warning decal (snowblower, rotary broom) .....	2
4	Warning decal (quick hitch) .....	1
5	Important decal (rotary broom) .....	1
6	Important decal (rotary broom) .....	1
7	Danger decal auger (snowblower) .....	2
8	Danger decal chute (snowblower) .....	1
9	Danger decal hidden (driveline) .....	3
10	Danger decal (driveline) .....	3
11	Shear bolts decal (snowblower) .....	1
12	Trip spring decal (blade) .....	1
13	Lubrication decal (snowblower) .....	1



# PARTS GUIDE

## DECALS (Bilingual English & French)

REF	DESCRIPTION	QTY
1	HONDA HTA decal (snowblower, blade, rotary broom) .....	3
2	Warning decal (blade, rotary broom) .....	4
3	Warning decal (blade, rotary broom) .....	4
4	Warning decal (snowblower, rotary broom) .....	2
5	Warning decal (snowblower, rotary broom) .....	2
6	Warning decal (quick hitch) .....	1
7	Warning decal (quick hitch) .....	1
8	Important decal (rotary broom) .....	1
9	Important decal (rotary broom) .....	1
10	Important decal (rotary broom) .....	1
11	Important decal (rotary broom) .....	1
12	Danger decal auger (snowblower) .....	2
13	Danger decal chute (snowblower) .....	1
14	Danger decal hidden (driveline) .....	3
15	Danger decal (driveline) .....	3
16	Shear bolts decal (snowblower) .....	1
17	Trip spring decal (blade) .....	1
18	Trip spring decal (blade) .....	1
19	Lubrication decal (snowblower) .....	1












**TORQUE SPECIFICATION TABLE**

**GENERAL TORQUE SPECIFICATION TABLE (Revised 2-74)**







**USE THE FOLLOWING TORQUES WHEN SPECIAL TORQUES ARE NOT GIVEN**

NOTE: These values apply to fasteners as received from supplier, dry, or when lubricated with normal engine oil. They do not apply if special graphited or moly disulphide greases or other extreme pressure lubricants are used. This applies to both UNF and UNC threads.

SEE Grade No.		2				5				8 *			
BOLT HEAD IDENTIFICATION MARKS AS PER GRADE NOTE: MANUFACTURING MARKS WILL VARY						  				  			
		Torque				Torque				Torque			
		Pounds Feet		Newton-Meters		Pounds Feet		Newton-Meters		Pounds Feet		Newton Meters	
Inches	Millimeters	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
1/4	6.35	5	6	6.8	8.13	9	11	12.2	14.9	12	15	16.3	30.3
5/16	7.94	10	12	13.6	16.3	17	20.5	23.1	27.8	24	29	32.5	39.3
3/8	9.53	20	23	27.1	31.2	35	42	47.5	57.0	45	54	61.0	73.2
7/16	11.11	30	25	40.7	47.4	54	64	73.2	86.8	70	84	94.9	113.9
1/2	12.70	45	52	61.0	70.5	80	96	108.5	130.2	110	132	149.2	179.0
9/16	14.29	65	75	88.1	101.6	110	132	149.2	179.0	160	192	217.0	260.4
5/8	15.88	95	105	128.7	142.3	150	180	203.4	244.1	220	264	298.3	358.0
3/4	19.05	150	185	203.3	250.7	270	324	366.1	439.3	380	456	515.3	618.3
7/8	22.23	160	200	216.8	271.0	400	480	542.4	650.9	600	720	813.6	976.3
1	25.40	250	300	338.8	406.5	580	696	786.5	943.8	900	1080	1220.4	1464.5
1-1/8	25.58	—	—	—	—	800	880	1084.8	1193.3	1280	1440	1735.7	1952.6
1-1/4	31.75	—	—	—	—	1120	1240	1518.7	1681.4	1820	2000	2467.9	2712.0
1-3/8	34.93	—	—	—	—	1460	1680	1979.8	2278.1	2380	2720	3227.3	3688.3
1-1/2	38.10	—	—	—	—	1940	2200	2630.6	2983.2	3160	3560	4285.0	4827.4

\* Thick nuts must be used with Grade 8 bolts.

**METRIC BOLT TORQUE SPECIFICATIONS**

Size of screw	Grade No.	Coarse thread			Fine thread		
		Pitch (mm)	Pounds Feet	Newton-Meters	Pitch (mm)	Pounds Feet	Newton-Meters
M6	4T  	1.0	3.6-5.8	4.9-7.9	—	—	—
	7T  		5.8-9.4	7.9-12.7		—	—
	8T  		7.2-10	9.8-13.6		—	—
M8	4T	1.25	7.2-14	9.8-19	1.0	12-17	16.3-23
	7T		17-22	23-29.8		19-27	25.7-36.6
	8T		20-26	27.1-35.2		22-31	29.8-42
M10	4T	1.5	20-25	27.1-33.9	1.25	20-29	27.1-39.3
	7T		34-40	46.1-54.2		35-47	47.4-63.7
	8T		38-46	51.5-62.3		40-52	54.2-70.5
M12	4T	1.75	28-34	37.9-46.1	1.25	31-41	42-55.6
	7T		51-59	69.1-79.9		56-68	75.9-92.1
	8T		57-66	77.2-89.4		62-75	84-101.6
M14	4T	2.0	49-56	66.4-75.9	1.5	52-64	70.5-86.7
	7T		81-93	109.8-126		90-106	122-143.6
	8T		96-109	130.1-147.7		107-124	145-168
M16	4T	2.0	67-77	90.8-104.3	1.5	69-83	93.5-112.5
	7T		116-130	157.2-176.2		120-138	162.6-187
	8T		129-145	174.8-196.5		140-158	189.7-214.1
M18	4T	2.0	88-100	119.2-136	1.5	100-117	136-158.5
	7T		150-168	203.3-227.6		177-199	239.8-269.6
	8T		175-194	237.1-262.9		202-231	273.7-313
M20	4T	2.5	108-130	146.3-176.2	1.5	132-150	178.9-203.3
	7T		186-205	252-277.8		206-242	279.1-327.9
	8T		213-249	288.6-337.4		246-289	333.3-391.6

Your satisfaction and goodwill are important to your dealer and to us. All Honda warranty details are explained in the Distributor's Limited Warranty. Normally, any problems concerning the product will be handled by your dealer's service department. If you have a warranty problem that has not been handled to your satisfaction, we suggest you take the following action:

Discuss your problem with a member of dealership management. Often complaints can be quickly resolved at that level. If the problem has already been reviewed with the Service Manager, contact the owner of the dealership or the General Manager.

If your problem **still** has not been resolved to your satisfaction, contact the Power Equipment Customer Service Department of American Honda Motor Co., Inc:

American Honda Motor Co., Inc.  
Power Equipment Customer Service Department  
P.O. Box 100021  
Duluth, Georgia 30136-9421  
Telephone: (404) 497-6400

We will need the following in order to assist you:

- o Your name, address and telephone number
- o Product model and serial number
- o Date of purchase
- o Dealer name and address
- o Nature of the problem

After reviewing all the facts involved, you will be advised of what action can be taken. Please bear in mind that your problem will likely be resolved at the dealership, using the dealer's facilities, equipment and personnel, **so it is** very important that your initial contact be with the dealer.

Your purchase of a Honda product is greatly appreciated by both your dealer and American Honda Motor Company. We want to assist you in every way possible to assure your satisfaction with your purchase.

For future reference, record your unit's serial number and date of purchase in the spaces below. Refer to this information when ordering parts and when making technical or warranty inquiries.

Model: QH6000 Serial Number: \_\_\_\_\_ Date of Purchase: \_\_\_\_\_

Model: DB6560 Serial Number: \_\_\_\_\_ Date of Purchase: \_\_\_\_\_

Model: DK6000 Serial Number: \_\_\_\_\_ Date of Purchase: \_\_\_\_\_

Model: SB6557 Serial Number: \_\_\_\_\_ Date of Purchase: \_\_\_\_\_

Model: FS6560 Serial Number: \_\_\_\_\_ Date of Purchase: \_\_\_\_\_



