

OPERATOR'S & PARTS MANUAL

KUBOTA

B 2550 50" TWO STAGE SNOWBLOWER
FOR B1550 , B1750 AND B7100 TRACTORS

MODELS STARTING AT SERIAL NO.0200101 AND UP

MANUAL PART NUMBER 70060-03613 10 / 90

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INTRODUCTION

TO THE PURCHASER

This new snowblower was carefully designed to give you years of dependable service.

This manual has been provided to assist in the safe operation and service of your new snowblower.

NOTE: All photographs and illustrations in the manual are intended for reference only and are based on the latest product information available at the time of publication.

Familiarize yourself fully with the safety recommendations and operating procedures before operating the machine. Carefully read, understand and follow these recommendations and make sure other operators of the machine understand safe operation.



This symbol, the industry's "Safety Alert Symbol" is used throughout this manual and on the snowblower's safety labels to warn of the possibility of personal injury. Kubota requests that you take special care in reading and understanding the safety precautions before operating the snowblower or the tractor.

Record your snowblower serial number and model. KUBOTA requires this information to give you prompt efficient service when ordering parts or attachments. Service with genuine KUBOTA parts when replacement parts are required.

Right hand and left hand are determined by sitting on the tractor seat facing forward.

MODEL B 2550
SERIAL NUMBER 0200259
DATE PURCHASED January 1995

SAFETY PRECAUTIONS



Careful operation is your best insurance against an accident. Read this section carefully before operating the tractor and snowblower. All operators, no matter how experienced they may be, should read this and other related manuals before operating the snowblower. It is the owner's legal obligation to instruct all operators in safe operation.

BEFORE OPERATION



This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on the snowblower's safety labels to warn of the possibility of personal injury. Kubota requests that you take special care in reading and understanding the safety precautions before operating the snowblower or the tractor.

1. Read and understand this Operator's Manual and the tractor Operator's Manual. Know how to operate all controls and how to stop the unit and disengage the controls quickly.
2. Never allow other persons to operate the equipment without proper instruction. Never allow children to operate the equipment.
3. Keep the area of operation clear of all bystanders, especially small children and pets.
4. Never wear loose, torn, or bulky clothing around the tractor and snowblower. It may catch on moving parts or controls, leading to the risk of accident. Use additional safety items -- hard hat, safety boots or shoes, eye and hearing protection, gloves, etc... as appropriate or required.
5. Before the snow season, thoroughly inspect the area where the equipment is to be used and remove all door mats, sleds, boards, wires and other foreign objects.

6. Disengage PTO (POWER TAKE OFF), and shift into neutral before starting the engine.
7. Do not operate equipment without wearing adequate winter outer garments.
8. Adjust collector housing height to clear gravel or crushed rock surface.
9. Never attempt to make any adjustments while engine is running.
10. Do not work under a raised snowblower.
11. Escaping hydraulic/diesel fluid under pressure can penetrate the skin. Use a piece of cardboard or paper rather than your hands to search for leaks.

OPERATION

1. Make sure the drivelines are attached properly before operation.
2. Before dismounting, take all possible precautions. Disengage PTO, lower the attachment, shift into neutral, set the parking brake, stop the engine, and remove the key.
3. Before starting, remove any ice that has accumulated in the auger and fan.
4. Watch carefully for foreign objects that could enter the blower while operating.
5. Make sure that the PTO is in the **NEUTRAL** position before starting engine.

SAFETY PRECAUTIONS

6. Do not put hands or feet near rotating parts. Keep clear of discharge opening at all times.
7. Exercise extreme caution when operating on or crossing a gravel drive, walks, or roads. Stay alert for hidden hazards of traffic. Do not carry passengers.
8. Use a piece of wood or stick (36" minimum length) to unplug spout, do not use hands or feet.
9. Use adequate safety warning lights. Check local regulations.
10. Stop the engine, remove the key, set the parking brake, and allow the rotating parts to stop before unclogging the collector/impeller housing or discharge guide, and before making any repairs, adjustments or inspections.
11. If the snowblower starts to vibrate abnormally, stop the engine immediately, and check for the cause. Excessive vibration is generally a sign of trouble.
12. Do not run the engine indoors except when starting engine and transporting snowblower in or out of building. Do not operate or idle engine in a non-ventilated area. Carbon monoxide gas is colorless, odorless and deadly.
13. Do not clear slopes. Exercise extreme caution when changing direction on slopes. Do not attempt to clear steep slopes.
14. Never operate snowblower without guards, plates, and other safety protective devices in place.
15. Never operate snowblower near glass enclosures, automobiles, window wells, embankments, etc., without proper adjustment of snow discharge angle and direction.
16. Never operate machine at high transport speeds on a slippery surface.
17. Use extra caution when backing up.
18. Do not direct discharge at bystanders or animals. Ejected objects may cause injury.
19. Disengage power to auger/fan when transporting or when not in use.
20. Never operate the snowblower without good visibility and lighting.
21. Use only approved tire chains and rear counterweights for better traction and stability.
22. 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.

WHENEVER YOU SEE THIS SYMBOL



IT MEANS:

ATTENTION!

BECOME ALERT!

YOUR SAFETY IS INVOLVED!

SAFETY DECALS

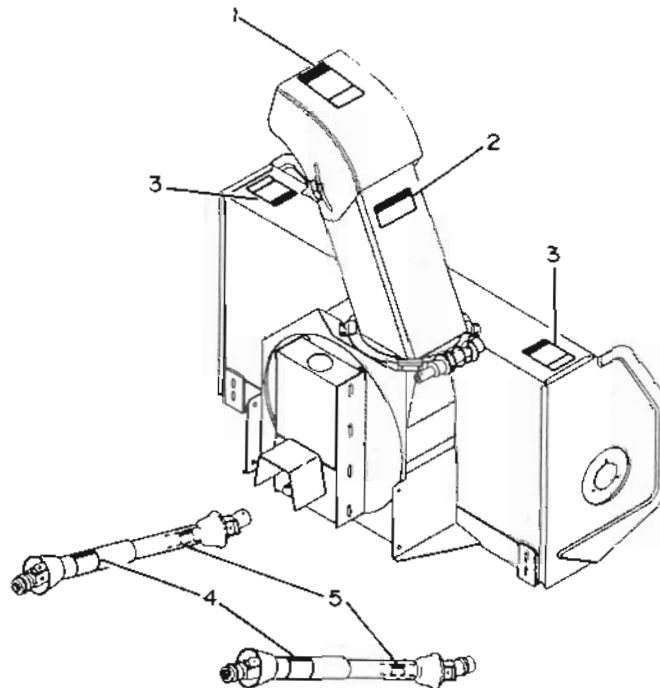
REPLACE IMMEDIATELY IF DAMAGED
(see your dealer)



1. # 70060-01211



2. # 70060-01209



3. # 70060-01212



4. # 70060-03646



5.
70060-03647
Visible only
if shield is
missing

ASSEMBLY

IMPORTANT: Before beginning assembly of this subframe, please read the instructions through completely and familiarize yourself with all the parts. Open carton and lay out all parts for assembly. Front wheel tires must be inflated to 26-27 psi. and rear wheel tires to 7-8 psi. The pressure has to be equal on both sides of tractor. After completing assembly and adjustments, torque all bolts according to torque specification table on page 37.

STEP 1: TRACTOR PREPARATION

- a) On right hand lower link of three point hitch, remove lynch pin from tractor pivot pin.
- b) Install lift bracket (fig.1, item 1) on tractor pivot pin and on lower right hand link as in figure 1. Secure with a $17/32"$ x $2\ 1/8"$ pin (fig.1, item 2) and a 3mm x 65mm hair pin. Secure using the $3/8"$ lynch pin (fig.1, item 3) (with flat side) provided.

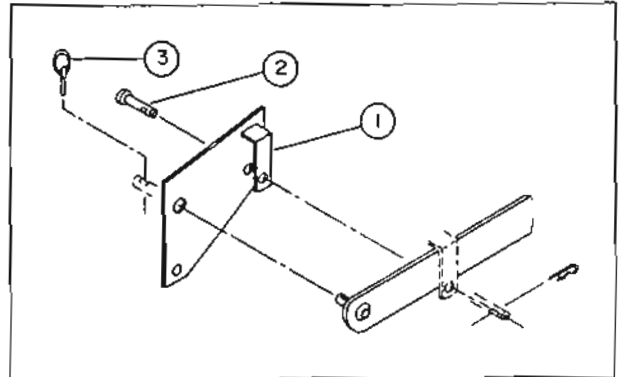


FIGURE 1

- c) At front end of tractor frame, install a front support bracket (fig.2, item 1) on each side using three 12mm x 30mm bolts (fig.2, item 2) and lockwashers for each bracket. Do not tighten.

- d) Install U-shaped bracket (fig.2, item 3) between front support brackets using two $1/2"$ x $1\ 1/2"$ bolts (fig.2, item 4), lockwashers and nuts in lower hole positions. Secure upper section according to your tractor model as follows:

- **B1550 & B1750:** Use two $1/2"$ x 2" bolts (fig.2, item 5), lockwashers and nuts in upper hole placing one end of support brace (fig.2, item 6) on inside. Secure other end of support braces inside tractor frame using two 12mm x 35mm bolts, lockwashers and nuts. Do not tighten.
- **B7100:** Use two $1/2"$ x 2" bolts (fig.2, item 5), lockwashers and nuts without support braces (fig.2, item 6).

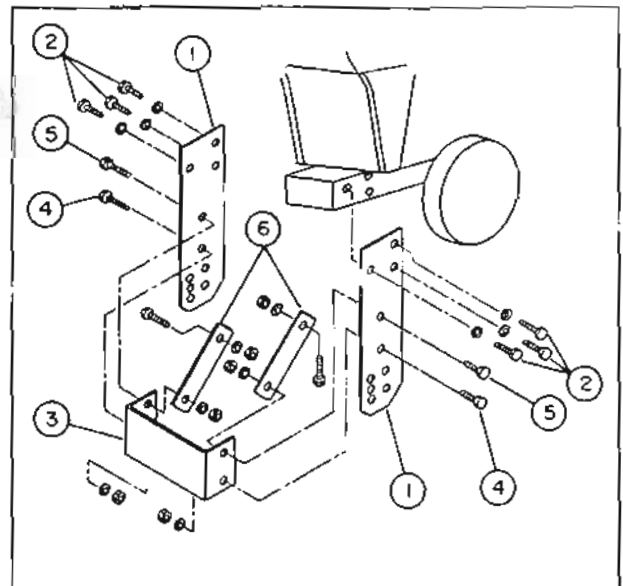


FIGURE 2

ASSEMBLY

e) Install mid support brackets on tractor frame in front of foot boards as follows according to your tractor model:

- **B1550 & B1750:** Use brackets without weldment (fig.3, item 1). If tractor is equipped with hydrostatic transmission use shims (fig.3, item 2). Attach one bracket on left hand side on welded channel using three 10mm x 35mm bolts (fig.3, item 2) and lockwashers. Attach other bracket on right hand side on welded channel using one 10mm x 35mm bolt (fig.3, item 3) and lockwasher in upper hole, and attach rotation support (fig.3, item 4) to other two holes using two 10mm x 40mm bolts (fig.3, item 5) and lockwashers. Do not tighten.

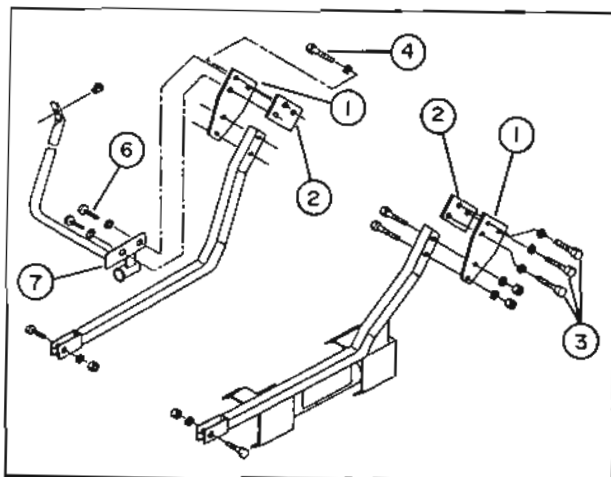


FIGURE 3

- **B7100:** Use brackets with weldments (fig.4, item 1). Attach right hand bracket between welded channel and tractor foot board on tractor frame, placing weldment down and towards the outside using three 10mm x 35mm bolts (fig.4, item 2), and lockwashers. Attach left hand bracket in front of foot board on tractor frame under the clutch intermediate rod, placing weldment down and toward the outside using one 10mm x 35mm bolt (fig.4, item 3), one 10mm x 25mm bolt (fig.4, item 4) and 10mm lockwashers (25mm long bolt must be inserted in second from top hole of bracket before installation). - Attach rotation support (fig.4, item 5) to welded channel on right hand side of tractor frame using two 10mm x 40mm bolts (fig.4, item 6), and 10mm lockwashers. Tighten securely.

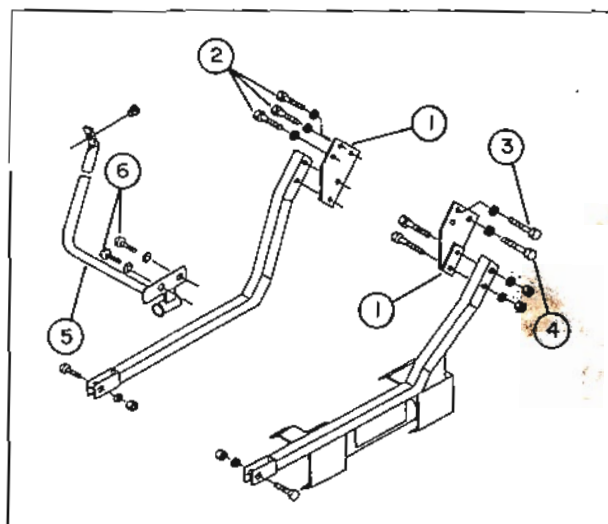


FIGURE 4

f) Attach fork end of subframe bars to lower set of holes on front support brackets [right hand subframe bar (fig.5, item 2) to lower hole position and left hand subframe bar (fig.5, item 1) to upper hole position on front support bracket] using two 5/8" x 1 3/4" bolts (fig.5, item 3), lockwashers and nuts.

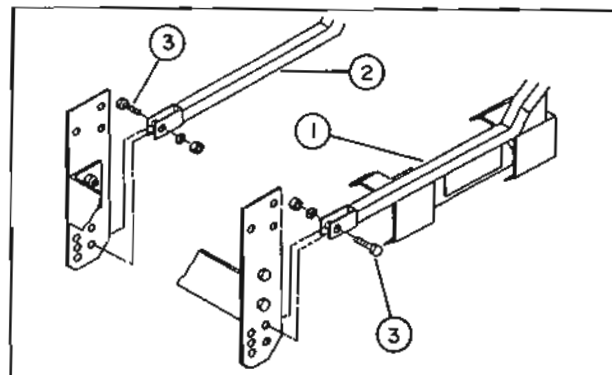


FIGURE 5

ASSEMBLY

g) Install subframe bars (fig.6, item 1) on mid support brackets according to your tractor model:

- B1550 & B1750, Bolt bars inside mid support brackets, using four $3/8"$ x $1\ 3/4"$ bolts (fig.6, item 2), lockwashers and nuts (bolt heads on inside).
- B7100, Bolt bars outside mid support brackets, using four $3/8"$ x $2\ 1/4"$ bolts (fig.6, item 3), lockwashers and nuts (bolt heads on inside).

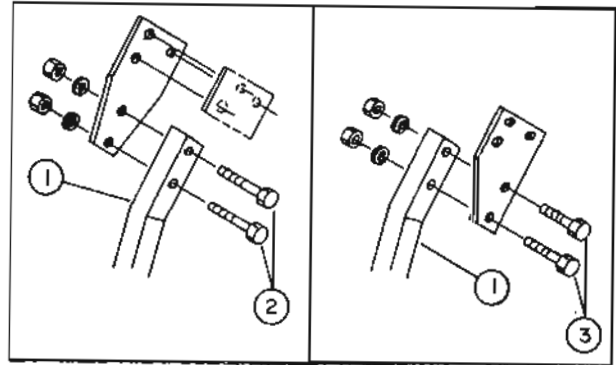


FIGURE 6 (right hand side shown)

h) Insert longest fork end of straight lift rod (fig.7, item 1) from under front right hand footboard to lift bracket and attach using a $5/8"$ x $1\ 5/8"$ pin (fig.7, item 2) and a 3mm x 65mm hair pin as follows:

- B1550 & B1750: Attach to rear hole position (fig.7, item 3).
- B7100: Attach to second from rear hole position (fig.7, item 4).

i) Insert flatbar end of bent lift rod (fig.7, item 5) through welded tube at bottom of rotation support from the front side. Place bent lift rod with the bend on the upper side and secure the two lift rods together using a $5/8"$ x $1\ 5/8"$ pin (fig.7, item 6) and a 3mm x 65mm hair pin.

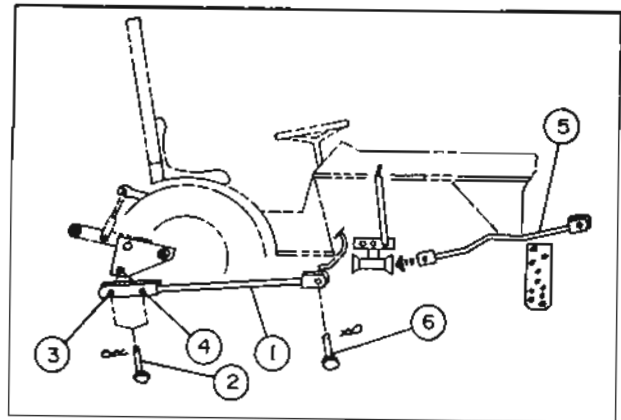


FIGURE 7

STEP 2: PUSHFRAME PREPARATION

a) Assemble pushframe attaching plates (fig.8, item 1), flatbars (fig.8, item 2), plate support bracket (fig.8, item 3) and front lift bracket on the right hand side using two $1/2"$ x 2" bolts (fig.8, item 5) and on left hand side, using two $1/2"$ x $1\ 1/2"$ bolts (fig.8, item 4), lockwashers and nuts. Secure front portion using two $1/2"$ x $1\ 1/4"$ bolts (fig.8, item 6), lockwashers and nuts. Do not tighten.

NOTE: Plate support bracket (fig.8, item 3) cross member must be on upper side of assembly as in figure 8.

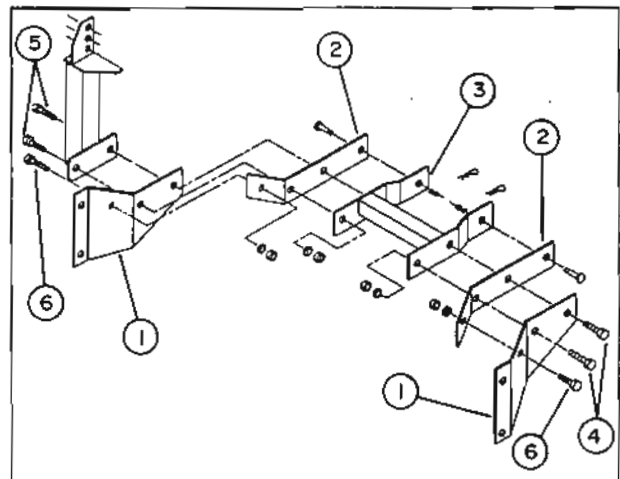
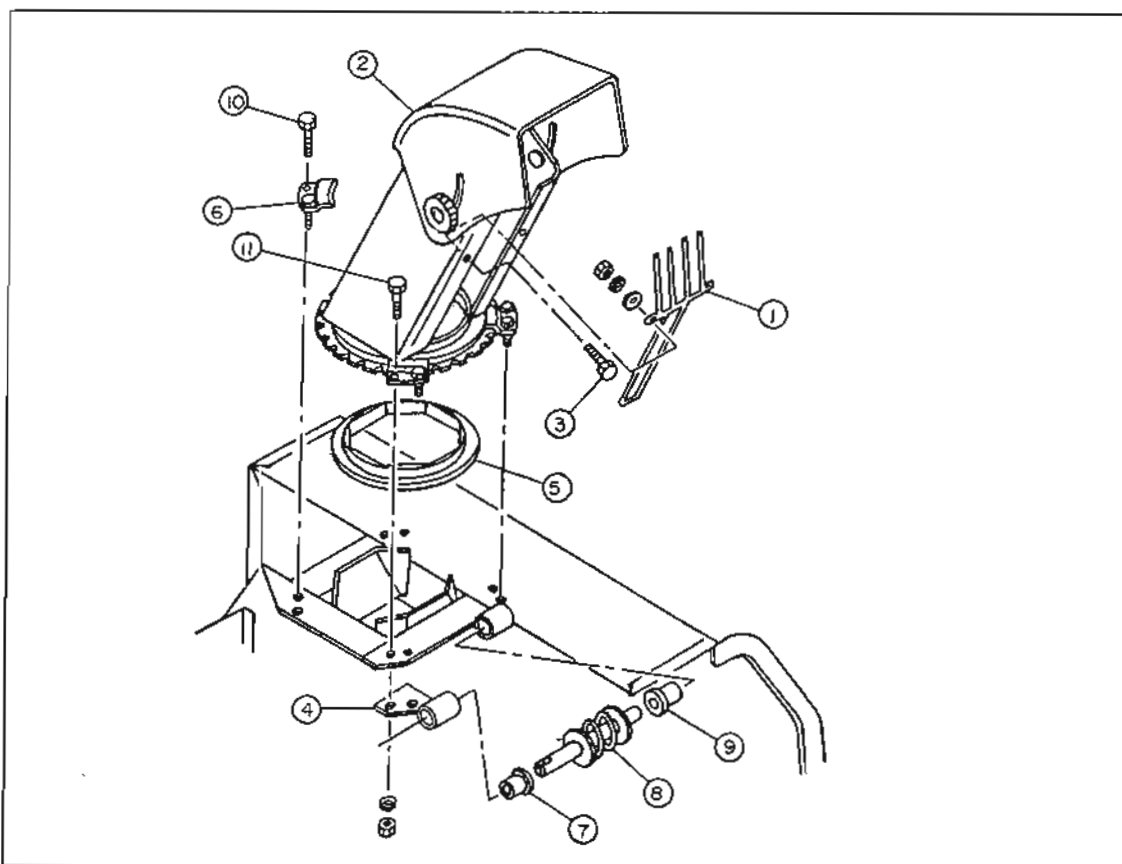


FIGURE 8

ASSEMBLY



STEP 3: CHUTE AND ROTATION (FIG. 9)

- a) Install hand guard (1) on 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 (3) with the head on the outside of the chute, through the chute, then through the hand guard and secure with a flatwasher, lockwasher and nut. Tighten (see page 37).
- b) Remove bushing support (4) from chute base lip and discard the bolt.
- c) Place plastic anti-friction insert (5) over the chute base, placing nipple on upper side and toward center of fan housing.
- d) Insert the 1 5/16" long plastic bushing (9) on tube weldment.
- e) Insert plastic bushing (7) in bushing support (4), grease both ends of rotation worm and place rotation worm (8) in bushing (7).
- f) Install rotation worm assembly through tube weldment with the attaching plate of support (4) on the underside of chute base lip.
- g) Install chute (2) over plastic insert (5) (applying grease in between) and secure with four retaining plates (6), using two 1/4" x 1/2" bolts (10), lockwashers and nuts in each of the front and rear left retaining plates, and two 1/4" x 3/4" bolts (11), lockwashers and nuts in the rear right retaining plate which also secures support (4). Tighten all bolts (see page 37).

ASSEMBLY

STEP 4: SNOWBLOWER PREPARATION

- a) Insert two 5/16" x 1" carriage bolts through each skid shoe (fig.10, item 1) from inside the bend. Place a flatwasher, lockwasher and nut loosely on each bolt and place the bolt heads through the round holes in the outer ends of the bottom angle of the snowblower body. Slide the square shank portion of the bolt head into the slot and tighten (see page 37 for Torque Specification Table).

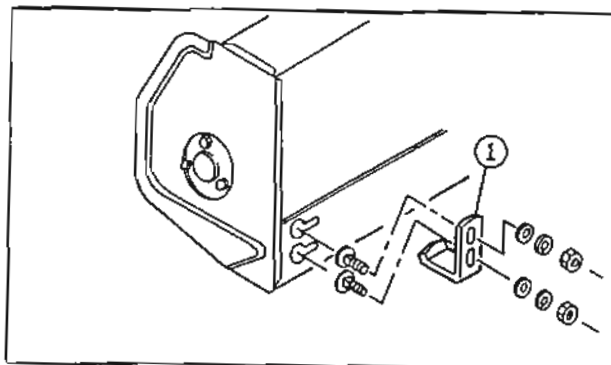


FIGURE 10

IMPORTANT: On asphalt roadways, adjust skid shoes to allow 1/16" to 1/8" clearance between cutting edge and surface. On gravel surface, allow 1/2" to 5/8" clearance, depending on the size of gravel.

- b) Attach pushframe (fig.11, item 1) to snowblower using one 3/8" x 3/4" bolt in the upper hole of each side (fig.11, item 2), placing the bolt head on the outside, lockwasher and nut on the inside. Use one 1/2" x 1" bolt, lockwasher and nut in the bottom hole of each side (fig.11, item 3). Securely tighten bolts (fig.11, items 2 & 3).

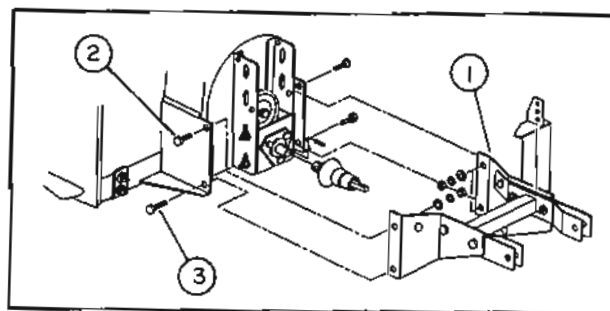


FIGURE 11

- c) Remove paint from reduction shaft. Install a 1/4" x 1/4" x 1 1/4" key in the reduction shaft keyway. Slide driveline yoke (fig.12, item 1) over reduction shaft.

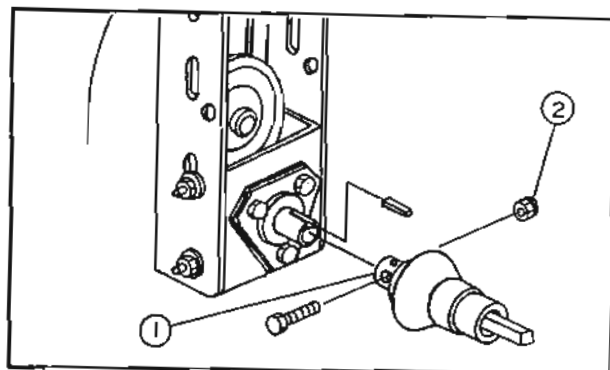


FIGURE 12

- d) Secure yoke to reduction shaft with a 1/4" x 2 1/2" bolt and nylon lock nut (fig.12, item 2). Securely tighten the bolt and the 3/8" x 3/8" allen set screw over key in yoke.

- e) Install one 1/4" x 7 1/2" bolt (fig.13, item 1) through top holes in reduction box support and secure loosely with lockwasher and nut.

- f) Hook reduction box cover (fig.13, item 2) over the bolt and secure the cover with a second 1/4" x 7 1/2" bolt (fig.13, item 1), lockwasher and nut. Tighten both bolts (see Torque Table page 37).

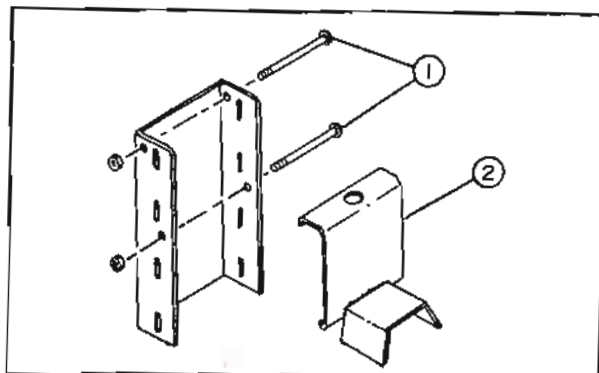


FIGURE 13

ASSEMBLY

STEP 5: ATTACHING SNOWBLOWER TO TRACTOR

- a) Attach pushframe (fig. 14, item 1) to front support brackets (fig. 14, item 2) selecting hole position for types of tires used (see note below) and lock in place with two $17/32" \times 1 3/4"$ pins (fig. 14, item 3) and 3mm x 65mm hair pins .

NOTE: Normally if equipped with AG type tires use hole position (fig.14, item C) or for turf type tires use hole position (fig.14, item A); Depending on tire wear etc., use whichever of the 3 holes is appropriate to level the snowblower front to rear.

- b) Securely tighten all hardware installed to this point.

c) **LIFT ROD INSTALLATION:**

If using hole (A), use hole (D) to install the lift rod (fig.14, item 4) to the left hand attaching plate. If using hole (B) use hole (E) and if using hole (C) use hole (F). Attach in place with a $5/8" \times 1 5/8"$ pin (fig.14, item 5) and a 3mm x 65mm hair pin.

- d) Grease the drivelines sliding surfaces and slide the male shaft inside the female tube.

- e) Attach the quick lock coupler of the short driveline to the front of the subframe support shaft. Install the long driveline to rear end of subframe support shaft and to tractor mid PTO shaft.

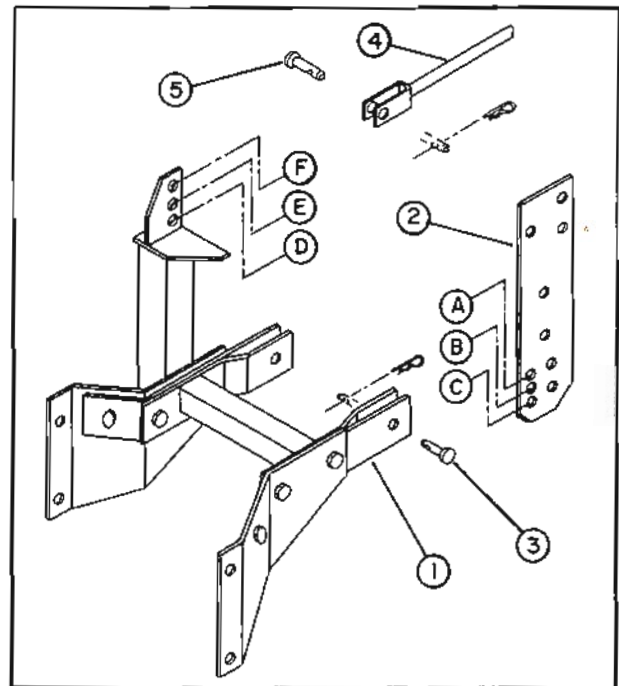


FIGURE 14

A-0



WARNING: These shafts turn at very high RPM. If the collar is not locked to the PTO shaft at the tractor end, or if the coupler at the subframe and blower end are not secured properly, the drivelines can fly loose with great force capable of causing serious injury or death.

ASSEMBLY

f) Insert the plastic grommet in the upper hole of the chute rotation handle support.

g) Attach rotation tube (fig.15, item 1) to shaft of rotation worm, by placing the hooked end of the lower rotation tube through the hole in the shaft of the rotation worm.

h) Place rotation handle (fig.15, item 2) through handle support (fig.15, item 3), insert into rotation tube (fig.15, item 1) and secure with a 4mm dia. x 80mm hairpin (fig.15, item 4).

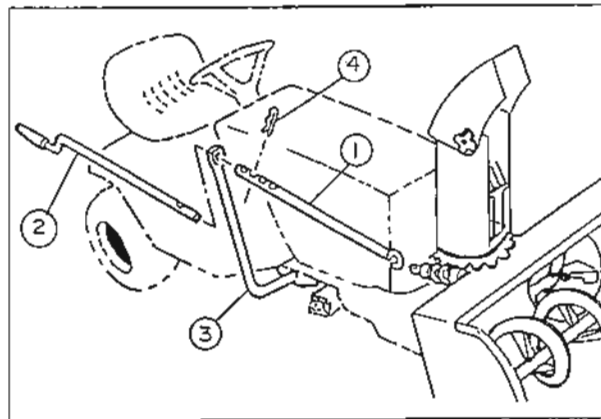


FIGURE 15

i) Install the plastic handle grip on the chute rotation handle.

j) Adjust tractor steering stoppers inside front wheels as follows (fig.16):

- B1550 & B1750:

- Right hand wheel: Replace front stopper bolt with one of the two bolts provided and adjust at 1 1/4"; adjust rear bolt at 3/4".

- Left hand wheel: Replace rear stopper bolt with the remaining bolt provided and adjust at 1 1/8"; adjust front bolt at 15/16".

- B7100:

- Replace existing stopper bolts on left hand wheel only with the ones provided and adjust both bolts at 1 1/4"

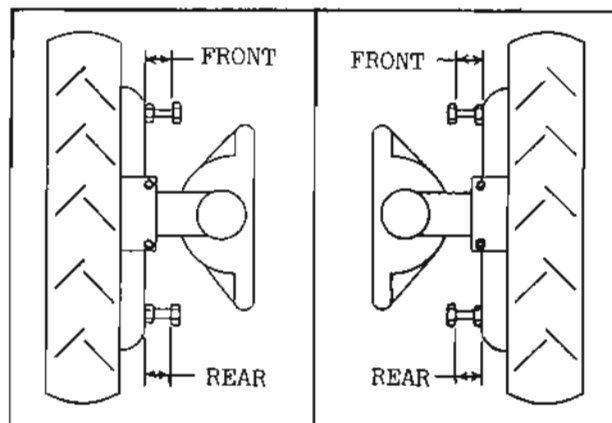


FIGURE 16

k) Torque all bolts according to torque specification table on page 37.

ASSEMBLY

STEP 6: GB2514 ELECTRIC CHUTE ROTATION KIT (Optional)

- a) Follow Page 9, Step 3, a to d.
- b) Insert 1 11/16" plastic bushing (fig.17, item 1) in rotation bracket (fig.17, item 2). Use the rotation bracket (fig 17, item 2) without the notch in it. This allows the motor to be positioned downward.
- c) Install the adaptor (fig.17, item 3) on the motor shaft and attach motor (fig.17, item 4) to rotation bracket using three 1/4" x 3/4" bolts, flatwashers and lockwashers. Tighten securely.
- d) Insert longest tube end of rotation worm (fig.17, item 5) over adaptor and into plastic bushing in rotation bracket. Align holes and secure with a 10-24 x 1" capscrew and a nylon lock nut. Tighten securely.
- e) Install the chute over the plastic insert and place the four retaining plates (fig.17, item 6). Secure using eight 1/4" x 3/4" bolts, lockwashers and nuts, attaching rotation bracket assembly on the underside of chute base lip. Torque to 9-11 lbs.ft.
- f) Drill one 1/2" hole in tractor for control switch. Drill one .593" hole at least 2 1/2" from control switch hole for fuse holder. The two holes must be drilled in an appropriate location and must not interfere with existing controls or electrical systems.
- g) Solder one 18" wire to the side terminal of fuse holder and the other 18" wire to the bottom terminal (see figure 18).
- h) Install control switch and fuse holder in holes drilled in (f) above, and thread rubber toggle protector over switch.
- i) Connect one wire from fuse holder to middle terminal of control switch, the other 18" wire to the tractor ignition switch (see figure 18).

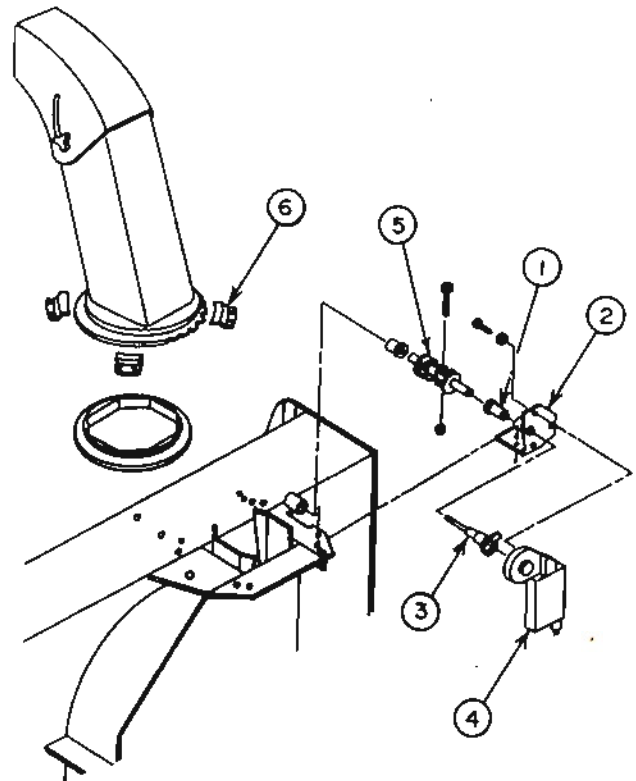


FIGURE 17

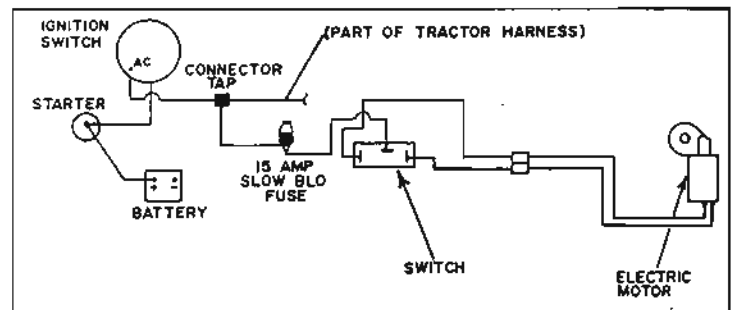


FIGURE 18

ASSEMBLY

- j) Connect one end of the long lead wire to the electric motor and the other end to the control switch. Cut this wire at a convenient location for snowblower removal. Install the wire connectors with one male and one female connector to the motor half of the wire. This will allow the snowblower to be easily dismantled.
- k) Secure wires away from moving parts using the provided tie wraps and adhesive clips.

NOTE: If chute rotates opposite to direction of control switch, reverse motor lead wires.

STEP 7: GB2513 ELECTRIC DEFLECTOR KIT (Optional)

- a) Remove the two manual adjustment knobs and bolts from each side of deflector and replace with two 5/16" x 3/4" carriage bolts, using original nylon washers and nylon lock nuts, leaving 1/16" play.
- b) Drill two 9/32" dia. hole in chute and deflector as shown in figure 19. This should be done on the side opposite the rotation worm gear.
- c) Attach actuator (fig.19, item 1) to the deflector and the chute with two 1/4" x 2 1/4" bolts (fig.19, item 3), two bushings (fig.19, item 2), two flatwashers on the inside, two lockwashers and two nuts. Place bolts in the actuator and thread the bushings on the bolts so that the bolts do not protrude through the nuts when the nuts are tightened.
- d) Replace existing bolt in one hole of closest retaining plate with the 1/4" x 4" eyebolt (fig.20, item 1) and retain with 2 nuts and lockwasher.
- e) Drill one 1/2" hole in tractor for control switch. Drill one .593" hole at least 2 1/2" from control switch hole for fuse holder. The two holes must be drilled in an appropriate location and must not interfere with existing controls

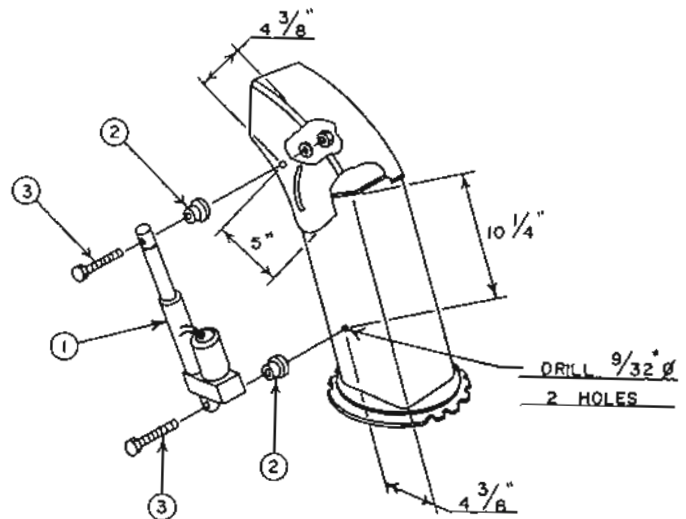


FIGURE 19

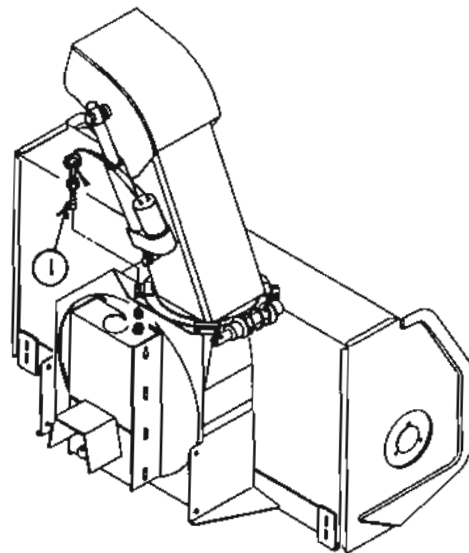


FIGURE 20

ASSEMBLY

or electrical systems.

- f) Solder one 18" wire to the side terminal of fuse holder and the other 18" wire to the bottom terminal (see figure 21).
- g) Install control switch and fuse holder.
- h) Connect eyelet end of 18" wire to "b" terminal on control switch (see fig. 21).
- i) Connect one end of the 17" wire to the "e" terminal on the control switch (see fig. 21). Connect other end to a suitable ground on the tractor frame.
- j) Connect one end of one 5" wire to the "a" terminal on control switch (see fig. 21). Connect other end to the "d" terminal on control switch (see fig. 21).
- k) Connect one end of the other 5" wire to the "c" terminal on control switch (see fig. 21). Connect other end to the "f" terminal on control switch (see fig. 21).
- l) Connect eyelet end of the 102" double wire to the "a" & "f" terminals on control switch (see fig.21).
- m) Connect fused wire to wire from terminal "A" of tractor ignition switch using connector tap.
- n) Connect other ends of the 102" double wire to the electric motor, routing the wire through the eyebolt (fig.20, item 1). Cut this wire at a convenient location for snowblower removal. Install the wire connectors with one male and one female connector to the motor half of the wire. This will allow the snowblower to be easily dismantled.
- o) Secure wires away from moving parts using the provided tie wraps and adhesive clips.

NOTE: If deflector functions opposite to direction of control switch, reverse actuator lead wires.

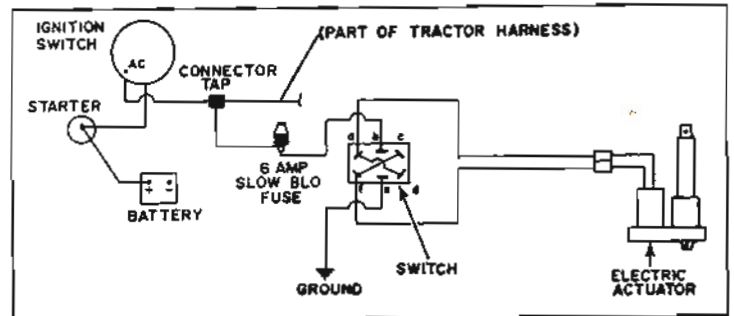


FIGURE 21

OPERATION

OPERATING CONTROLS

1. CHUTE ROTATION

- MANUAL:
The chute rotation handle is located to the right of the steering wheel. Turning the handle in a clockwise direction turns the discharge chute in a clockwise direction.
- ELECTRIC (OPTIONAL) :
When toggle switch is pushed to the right hand side the chute rotates in a clockwise direction to the right, and when pushed to the left hand side the chute rotates in a counterclockwise direction to the left.

2. RAISING AND LOWERING THE SNOWBLOWER

The snowblower is raised and lowered using the hydraulic lever of the tractor 3 point hitch (See Tractor Operator's Manual)

3. STARTING AND STOPPING THE SNOWBLOWER

The snowblower is driven from the tractor engine through the mid PTO. To engage the PTO depress the clutch pedal to disengage the clutch, shift the PTO lever, which is located to the left of the tractor seat, down and slowly release the clutch pedal. To disengage the PTO, depress the clutch pedal, shift the PTO lever up and slowly release the clutch pedal. (See Tractor Operator's Manual)

4. OPTIONAL ELECTRIC DEFLECTOR

When toggle switch is pushed forward or upward the deflector raises, and when pushed rearward or downward the deflector lowers.

OPERATION

ADJUSTMENTS



WARNING: Before making any adjustments, stop the snowblower, turn off engine, set parking brake and remove ignition key.

1. REDUCTION CHAIN ADJUSTMENT (Fig. 1)

To adjust the tension on the reduction chain, loosen the four bolts, 1, securing the sprocket support box, 2, to the reduction box housing. To tighten the chain, raise the box. Leave approximately 1/4" deflection in one span of the chain. Tighten securely the four bolts holding the support box.

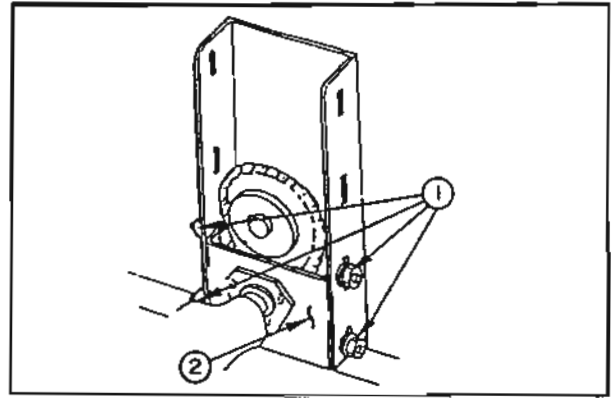


FIGURE 1

2. DEFLECTOR ADJUSTMENT

Set the angle of the deflector according to the distance the snow must be thrown. To change the deflector angle, loosen the two deflector knobs, adjust the deflector to the appropriate angle, and tighten the two knobs securely.

3. SKID SHOE ADJUSTMENT

Loosen skid shoe nuts, adjust height according to instructions below and securely tighten nuts:

- a) Level Paved Surface - adjust skid shoes to allow 1/16" to 1/8" clearance (fig. 2, item 1) between cutting edge and surface.
- b) Uneven or Gravel Surface - adjust skid shoes to allow 1/2" to 5/8" clearance (fig. 2, item 1) between cutting edge and surface.

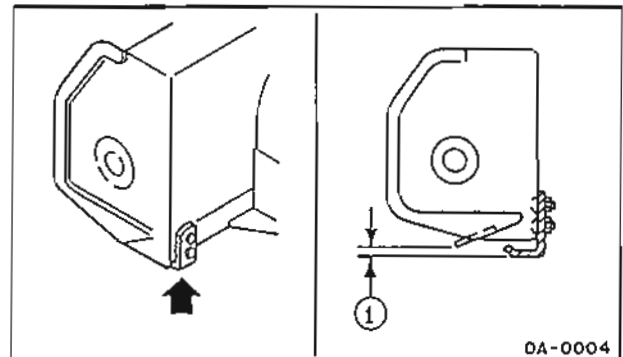


FIGURE 2

4. SCRAPING ACTION

Scraping action is adjusted by switching pushframe position on front support brackets and lift rod position on front lift bracket (see figure 14).

OPERATION

PREPARING FOR SNOW REMOVAL



WARNING:

1. Read the Operator's Manual carefully. Be thoroughly familiar with the controls and proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
2. Never allow children to operate equipment. Never allow adults to operate equipment without proper instruction.
3. Do not allow anyone other than the operator on the tractor.
4. Keep the area of operation clear of all persons.
5. Clothing worn by the operator should be fairly tight and belted. Loose clothing should not be permitted because of danger of getting into moving parts.
5. Adjust so that the snowblower runs level [see section a) on page 11].
6. Start the tractor engine.
7. Before engaging the snowblower drive, always have the engine running at idle.
8. Operate the snowblower at maximum RPM.

REMOVING SNOW

When removing snow, do not use the snowblower as a dozer blade to push snow. Let the snowblower work its way through deep drifts. If the speed of your tractor is too fast, the snowblower may become overloaded and plug. For best results, raise the snowblower and remove a top layer of snow. A second pass with the snowblower will remove the remaining snow.

IMPORTANT: Use full RPM power when removing wet, sticky snow. Low RPM power will tend to plug the chute.



WARNING: Do not use your hands to unplug chute. Use a minimum 36" length stick. Do not attempt to clear plugged chute of snow while tractor engine is running. If the chute plugs, disengage the PTO, shut off the tractor engine, remove the ignition key and then clear the snow from the chute.

OPERATING THE SNOWBLOWER

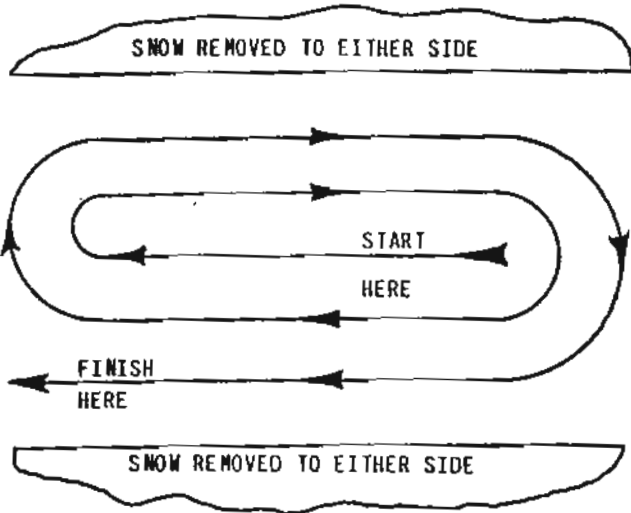
1. Make sure that the snowblower is clear of snow before engaging the snowblower.
2. Make sure that the auger and fan operate freely.
3. Check the oil level in the worm gear box and if necessary, add AGMA SEP or SAE 90 extreme pressure oil.
4. Check the three shear bolts, one on each auger section, and one between the fan and gearbox for proper tightness.

TRACTION: The use of KUBOTA approved tire chains is recommended for extra traction at all times.

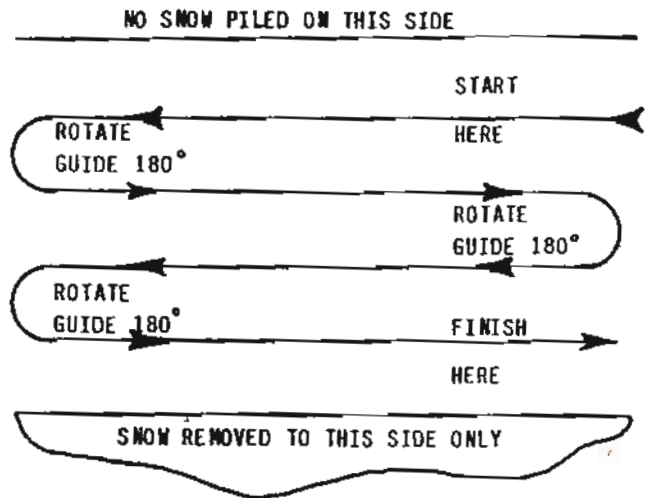
OPERATION

SNOW REMOVAL METHODS

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.

MAINTENANCE

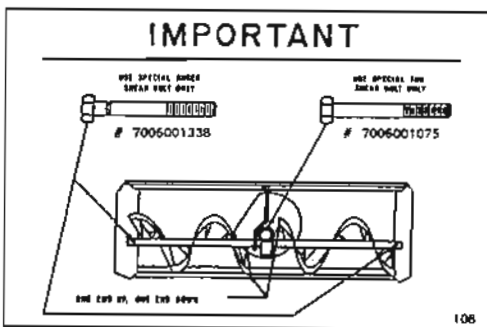
TIRE PRESSURE

Front wheel tires must be inflated to 26-27 psi.

Rear wheel tires must be inflated to 7-8 psi.

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 the decal below.



2. Check 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. **GEARBOX:** Check the oil level in the worm gear drive every month. If necessary, add AGMA 5EP, or SAE 90 gear oil. Make sure oil level is up to side plug (fig.1, item 1).

2. **AUGER SECTIONS:** Grease the fitting on each auger section every 24 hours of operation or once a year.
3. **REDUCTION CHAIN:** Lubricate with chain saw chain lubricant every 4 hours of operation and after each use.
4. **PTO DRIVELINES:** 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.

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.

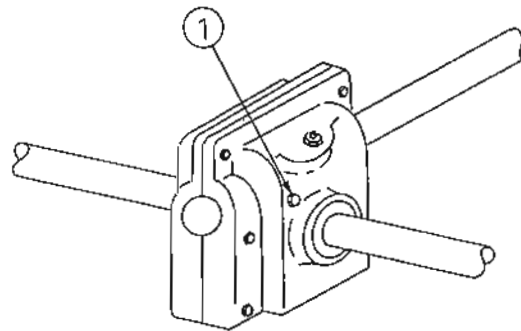


FIGURE 1

DISMOUNTING

DISMOUNTING

- a) Select a level surface, turn engine off, set parking brake and remove ignition key.
- b) Disconnect drivelines from subframe and tractor PTO shaft.
- c) Remove hair pin (fig.15, item 4) from rotation tube and remove rotation handle.
- d) If equipped with optional electric chute rotation and/or deflector (B2513/B2514), disconnect electric wires.
- e) Remove snowblower by removing the three pins (fig.14, items 3 & 5).
- f) Remove subframe bars (fig.5, items 1 & 2) and handle support (fig.3, item 7 or fig.4, item 5) from mid support brackets on tractor frame.
- g) Carefully remove front support brackets and braces from tractor frame.
- h) Disconnect the two lift rods and remove lift rod (fig.7) from lift bracket on tractor 3 point hitch right hand link.

NOTE: Lift bracket can remain on tractor.

All parts are illustrated in "Exploded Views" which show the individual parts in their normal relationship to each other. Reference numbers are used in the illustrations. These numbers correspond to those in the "Reference number" (REF) column, and are followed by the description and quantity required.

O/L- "Obtain Locally" in the part number column indicates common hardware that is available at your local hardware supply.

NSS- "Not Serviced Separately" in the part number column is an indication this part is not available for repair separately, but must be purchased as a complete unit.

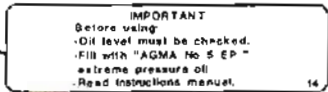
"Right Hand" and "Left Hand" sides of this machine are determined by standing at the rear of the unit and facing in the direction of forward travel.

Orders must give the complete description, correct part number, the total amount required, the serial number, the method of shipment and the shipping address.

Kubota Tractor reserves the right to change, modify, or eliminate from time to time, for technical or other reasons, certain or all data, specifications, or the product or products themselves, without any liability or obligation.

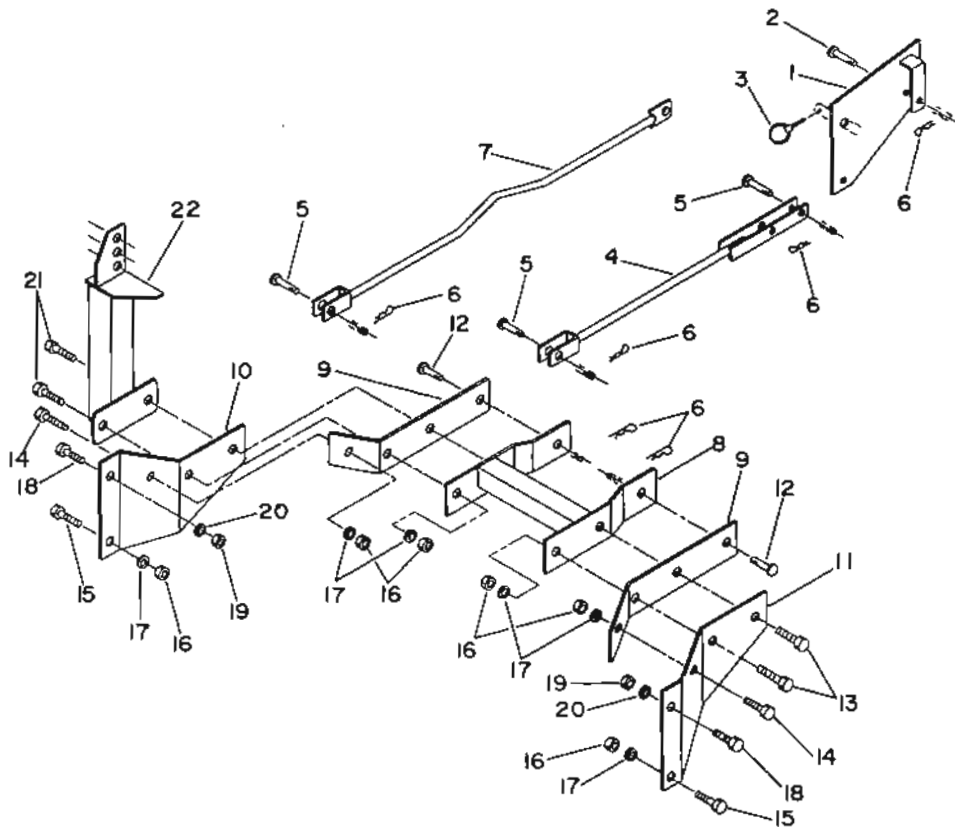
DECALS

REF	DESCRIPTION	QTY	PART #
1	Model Decal	1	70060-03626
2	Kubota Decal	1	70060-01035
3	Important Decal	1	70060-01040
4	Danger Decal (drvl'n)	2	70060-03646
5	Danger Decal (auger)	2	70060-01212
6	Danger Decal (chute)	1	70060-01211
7	Warning Decal	1	70060-01209
8	Lube Decal	1	70060-01674
9	Shear bolts Decal	1	70060-01340
10	Danger Decal (hidden)	1	70060-03647

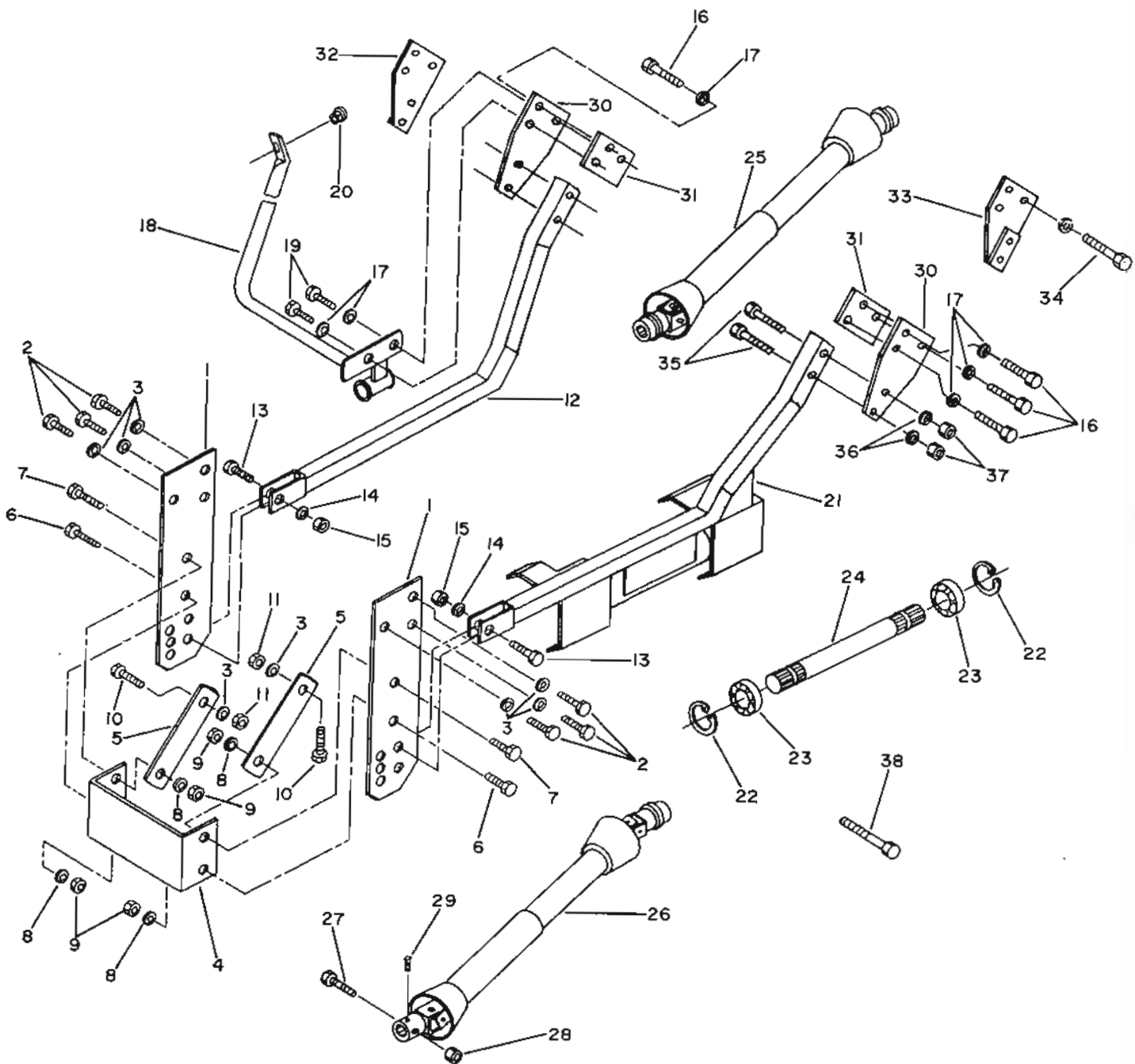


PUSH FRAME & LIFT MECHANISM

REF	DESCRIPTION	QTY	PART #
1	Lift bracket	1	70060-03167
2	Pin (17/32" x 2 1/8")	1	70060-01373
3	Pin (3/8" dia., linch)	1	O/L
4	Lift rod (straight)	1	70060-03608
5	Pin (5/8" x 1 5/8")	3	70060-03182
6	Pin (3mm x 65mm, hair)	6	70060-03023
7	Lift rod (bent)	1	70060-03607
8	Plate support	1	70060-03166
9	Flatbar	2	70060-03168
10	Attaching plate RH	1	70060-03610
11	Attaching plate LH	1	70060-03170
12	Pin (17/32" x 1 3/4")	2	70060-03143
13	Bolt (1/2"NC x 1 1/2", hex.)	2	O/L
14	Bolt (1/2"NC x 1 1/4", hex.)	2	O/L
15	Bolt (1/2"NC x 1, hex.)	2	O/L
16	Nut (1/2"NC, hex.)	8	O/L
17	Washer (1/2", lock)	8	O/L
18	Bolt (3/8"NC x 3/4", hex.)	2	O/L
19	Nut (3/8"NC, hex.)	2	O/L
20	Washer (3/8", lock)	2	O/L
21	Bolt (1/2"NC x 1 3/4, hex.)	2	O/L
22	Lift bracket (front)	1	70060-03616



B2550 SUBFRAME

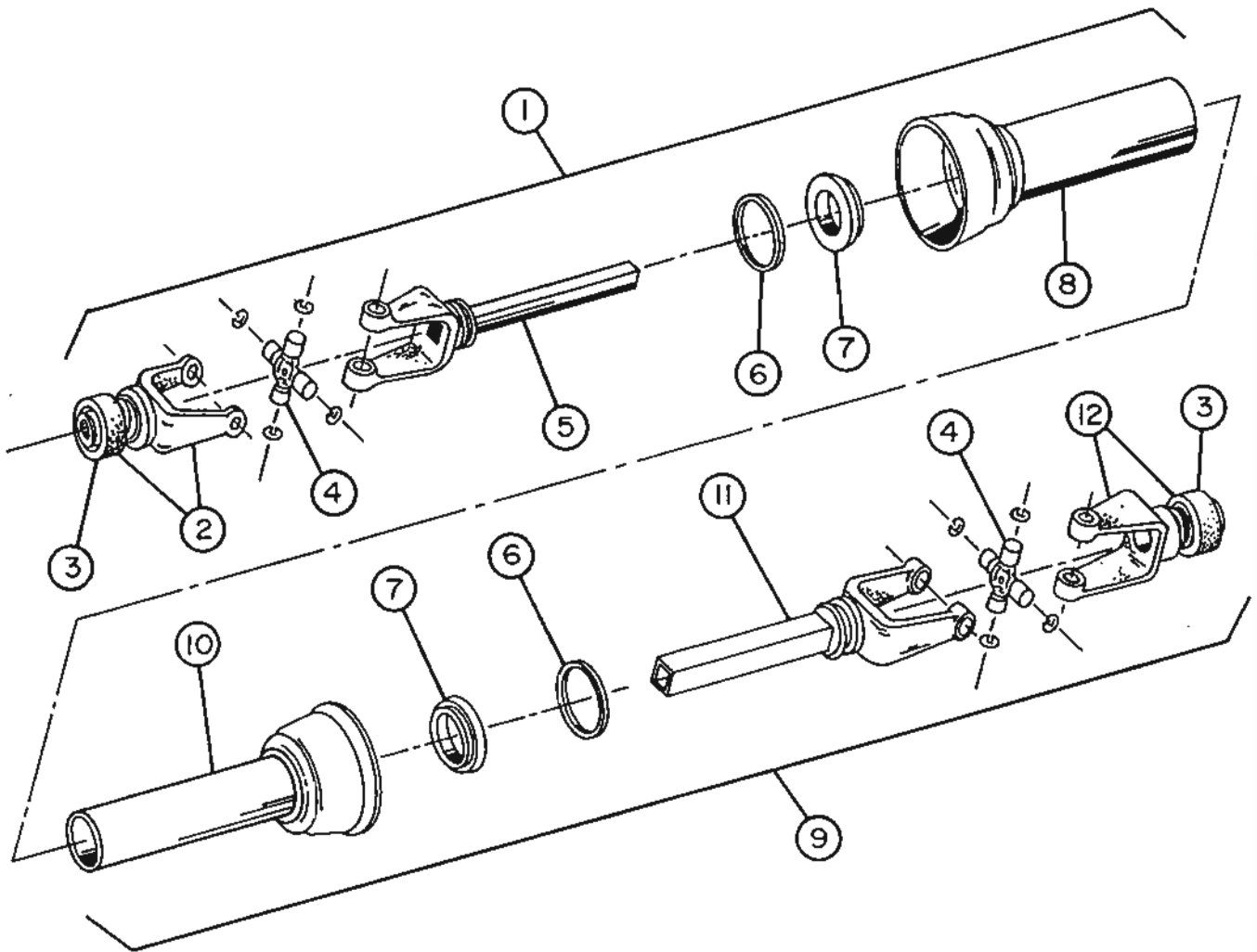


B2550 SUBFRAME

REF	DESCRIPTION	QTY	PART #
1	Front support bracket	2	70060-03173
2	Bolt (12mm x 30mm, hex.)	6	O/L
3	Washer (12mm, lock)	8	O/L
4	U-shaped bracket	1	70060-03172
5	Support brace	2	70060-03171
6	Bolt (1/2" NC x 1 1/2", hex.)	2	O/L
7	Bolt (1/2" NC x 2", hex.)	2	O/L
8	Washer (1/2", lock)	4	O/L
9	Nut (1/2" NC, hex)	4	O/L
10	Bolt (12mm x 35mm, hex.)	2	O/L
11	Nut (12mm, hex.)	2	O/L
12	Subframe bar (RH)	1	70060-03620
13	Bolt (5/8" NC x 1 3/4", hex.)	2	O/L
14	Washer (5/8", lock)	2	O/L
15	Nut (5/8" NC, hex.)	2	O/L
16	Bolt (10mm x 35mm, hex.)	4	O/L
17	Washer (10mm, lock)	6	O/L
18	Handle support bracket	1	70060-03612
19	Bolt (10mm x 40mm, hex.)	2	O/L
20	Plastic grommet	1	70060-01352
21	Subframe bar (LH) without bearings & shaft	1	70060-03621
22	Snap ring (N5000-206)	2	70060-01131
23	Bearing with locking collar	2	70060-01130
24	PTO shaft	1	70060-01132
25	Mid driveline	1	70060-03177
26	Front driveline	1	70060-01464
27	Bolt (1/4"NC x 2 1/2", hex.)	1	O/L
28	Nut (1/4"NC, nylon lock)	1	O/L
29	Socket set screw (3/8"NC x 3/8", allen)	1	O/L
30	Mid support bracket RH (B1550 & B1750 only)	1	70060-03616
31	Shim (B1550 & B1750 with hydrostatic trans.)	2	70060-03628
32	Mid support bracket RH (B7100 only)	1	70060-03618
33	Mid support bracket LH (B7100 only)	1	70060-03619
34	Bolt (10mm x 25mm, hex.)	1	O/L
35	Bolt (3/8"NC x 1 3/4", hex.) B1550 & B1750 only ..	4	O/L
	Bolt (3/8"NC x 2 1/4", hex.) B7100 only	4	O/L
36	Washer (3/8", lock)	4	O/L
37	Nut (3/8"NC, hex.)	4	O/L
38	Steering stopper bolt	2	67810-56440

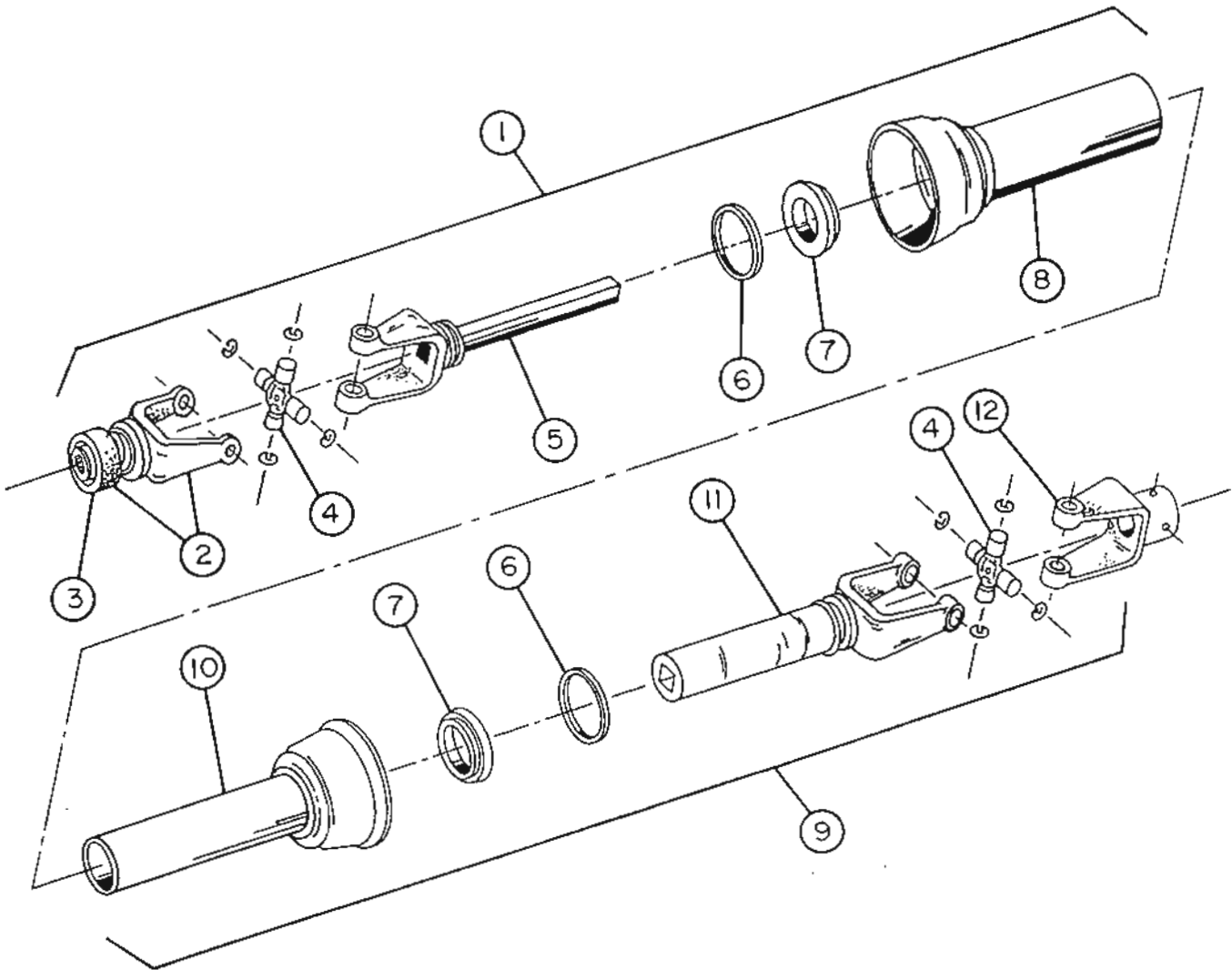
MID DRIVELINE (70060-03177)

REF	DESCRIPTION	QTY	PART #
1	Driveline male portion	1	70060-01477
2	Quick disconnect yoke assembly (10 splines)	1	70060-01482
3	Spring lock yoke repair kit	2	70060-01478
4	Universal joint kit	2	70060-01020
5	Yoke and male shaft assembly	1	70060-01484
6	Bearing retainer	2	70060-01479
7	Nylon bearing	2	70060-01480
8	Outer shield	1	70060-01483
9	Driveline female portion assembly	1	70060-03623
10	Inner shield	1	70060-03625
11	Yoke and female shaft assembly	1	70060-03624
12	Quick disconnect yoke assembly (15 splines)	1	70060-01487

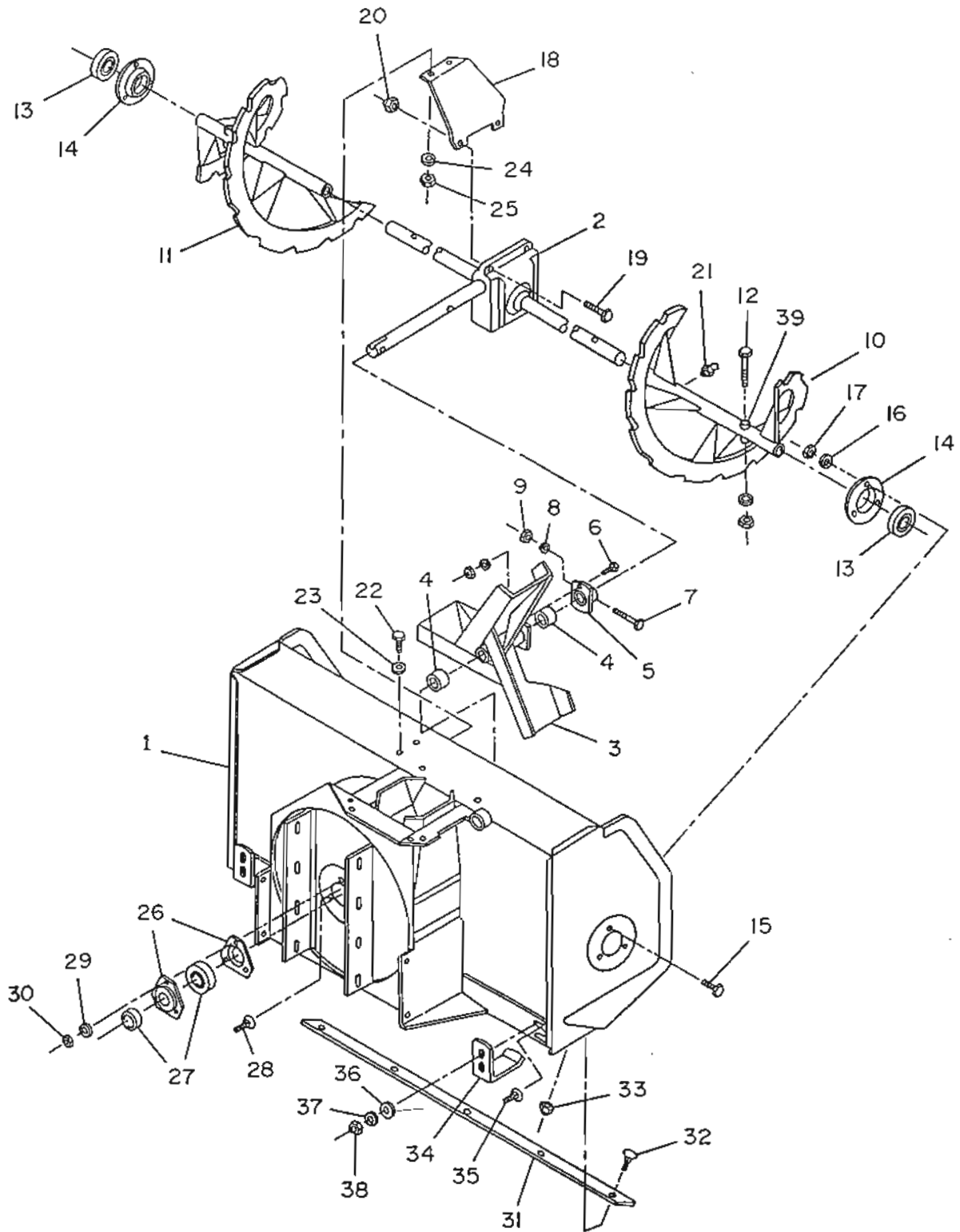


FRONT DRIVELINE (70060-01464)

REF	DESCRIPTION	QTY	PART #
1	Driveline male portion assembly	1	70060-01485
2	Quick disconnect yoke assembly (15 splines)	1	70060-01487
3	Spring lock yoke repair kit	1	70060-01478
4	Universal joint kit	2	70060-01020
5	Yoke and male shaft assembly	1	70060-01145
6	Bearing retainer	2	70060-01479
7	Nylon bearing	2	70060-01480
8	Outer shield	1	70060-01486
9	Driveline female portion assembly	1	70060-01476
10	Inner shield	1	70060-01481
11	Yoke & female shaft assembly	1	70060-01247
12	Yoke (1" dia. hole)	1	70060-01019



SNOWBLOWER HEAD 50"

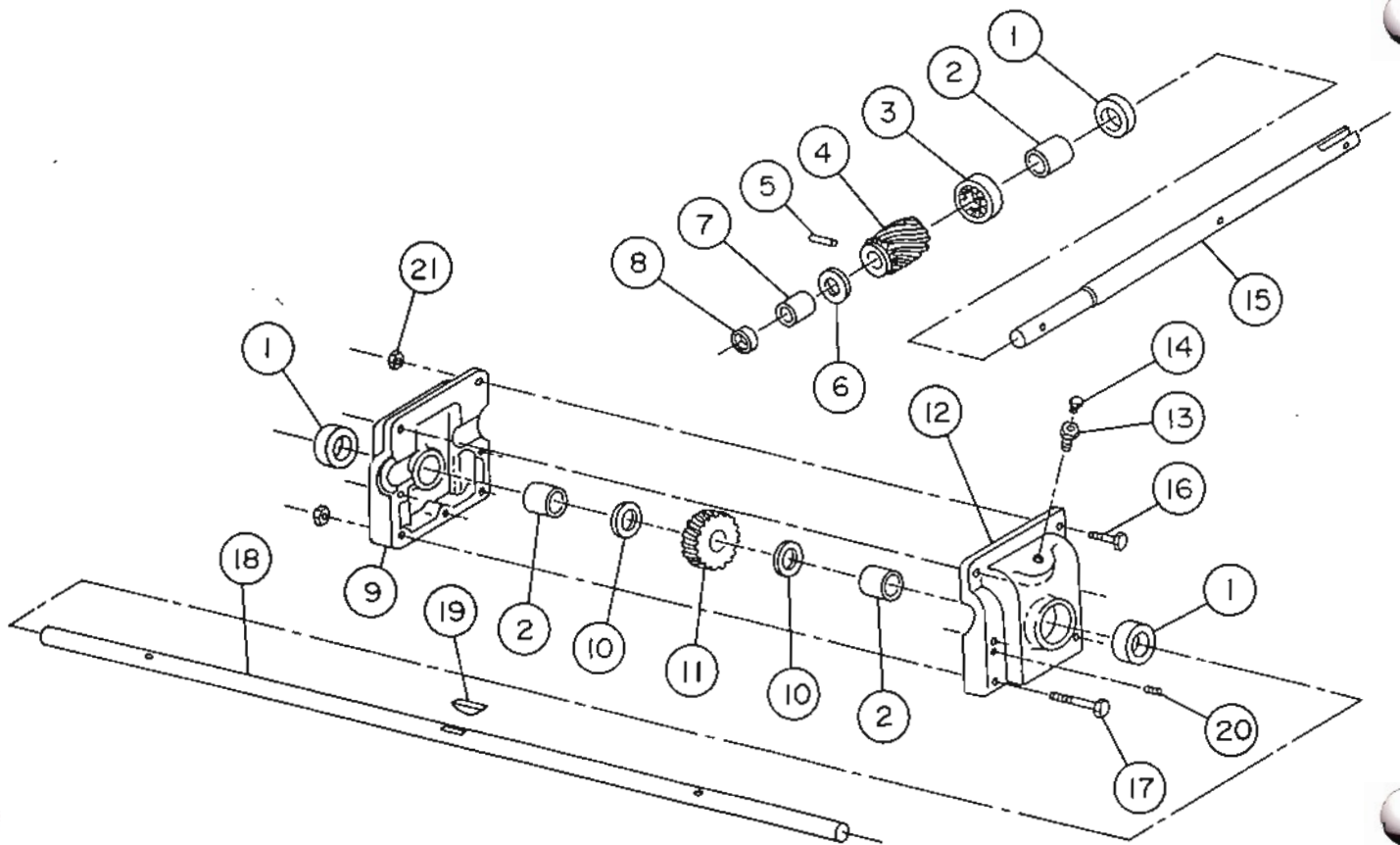


SNOWBLOWER HEAD 50"

REF	DESCRIPTION	QTY	PART #
1	Housing	1	70060-03525
2	Worm gear box ass'y (ccw)	1	70060-03526
3	Fan	1	70060-01679
4	Bushing	2	70060-01331
5	Fan adaptor shear plate	1	70060-01287
6	Bolt (1/4"NC x 1", grade 5, shear - with nylon lock nut)	1	70060-01075
7	Bolt (5/16"NC x 2", grade 8, hex.)	1	O/L
8	Washer (5/16", lock)	1	O/L
9	Nut (5/16"NC, hex.)	1	O/L
10	Auger LH	1	70060-03489
11	Auger RH	1	70060-03490
12	Bolt (5/16"NC x 2 1/4", shear - with lockwasher & nut)	2	70060-01338
13	Bearing with locking collar	-2	70060-01425
14	Bearing flange	-2	70060-01409
15	Bolt (5/16"NC x 3/4", hex.)	6	O/L
16	Washer (5/16", lock)	6	O/L
17	Nut (5/16"NC, hex.)	6	O/L
18	Gear box support bracket	1	70060-01410
19	Bolt (5/16"NC x 1 1/4", hex.)	2	O/L
20	Nut (5/16"Nc, nylon lock)	2	O/L
21	Grease fitting	2	70060-00940
22	Bolt (5/16"NC x 3/4", hex.)	2	O/L
23	Washer (3/8" dia. hole, flat)	2	O/L
24	Washer (5/16", lock)	2	O/L
25	Nut (5/16"NC, hex.)	2	O/L
26	Bearing flange	2	70060-01426
27	Bearing with locking collar	1	70060-00925
28	Bolt (5/16"NC x 3/4", carriage)	3	O/L
29	Washer (5/16", lock)	3	O/L
30	Nut (5/16"NC, hex.)	3	O/L
31	Cutting edge	1	70060-03528
32	Bolt (5/16"NC x 3/4", carriage)	6	O/L
33	Nut (5/16"NC, uni-torque)	6	O/L
34	Skid shoe	2	70060-01365
35	Bolt (5/16"NC x 1", carriage)	4	O/L
36	Washer (3/8" dia. hole, flat)	4	O/L
37	Washer (5/16", lock)	4	O/L
38	Nut (5/16"NC, hex.)	4	O/L
39	Shear bolt bushing	4	70060-01417

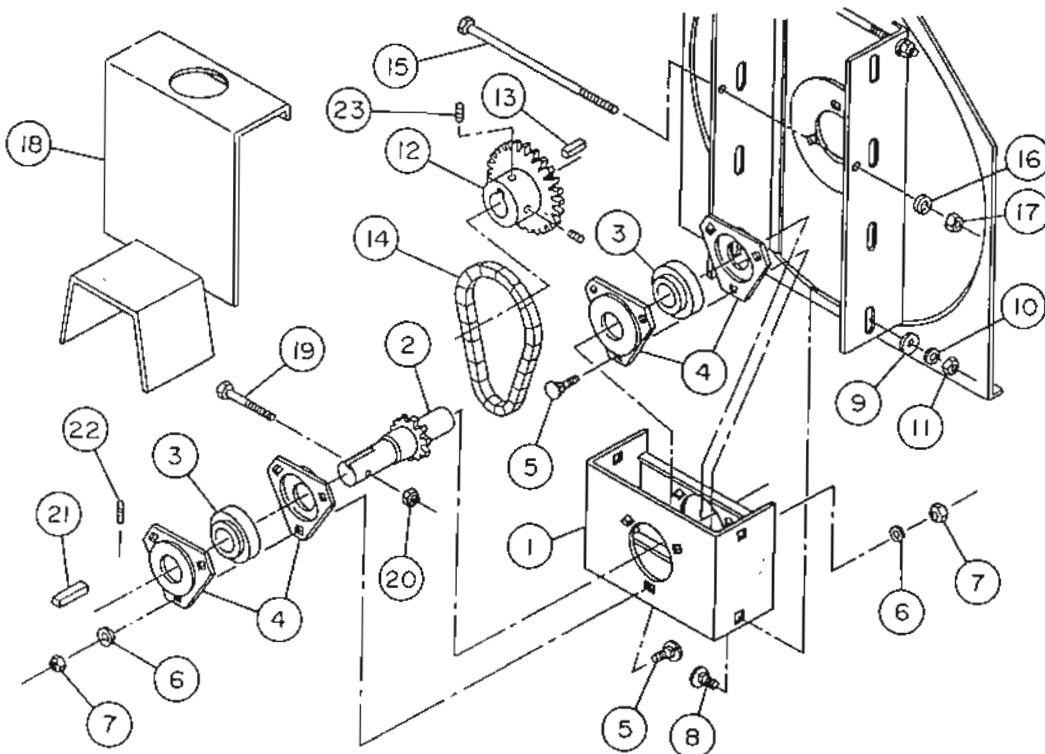
WORM GEAR BOX ASSEMBLY (CCW)

REF	DESCRIPTION	QTY	PART #
1	Oil seal	3	70060-01290
2	Bushing (1"ID X 1 1/4"OD X 1")	3	70060-01291
3	Bearing	1	70060-01292
4	Worm gear	1	70060-01329
5	Pin (1/4" x 1 1/4", set)	1	70060-01294
6	Washer (1 3/8" dia.)	1	70060-01295
7	Bushing (7/8"ID x 1 1/4"OD x 1")	1	70060-01828
8	Input cap	1	70060-01829
9	Cover with threaded holes	1	70060-01830
10	Washer (1 1/2" dia.)	2	70060-01299
11	Brass gear	1	70060-01330
12	Cover	1	70060-01831
13	Coupling (3/8" N.P.T. x 1/8" N.P.T.)	1	70060-01302
14	Breather (1/8" N.P.T.)	1	70060-00840
15	Input shaft	1	70060-01832
16	Bolt (5/16"NC x 1 1/4", gr. 5, hex.)	2	O/L
17	Bolt (5/16"NC x 2 1/4", gr. 5, hex.)	1	O/L
18	Output shaft	1	70060-03527
19	Key (woodruff)	1	70060-01306
20	Level plug (1/8" N.P.T.)	1	70060-01428
21	Nut (5/16" NC, nylon lock)	1	O/L



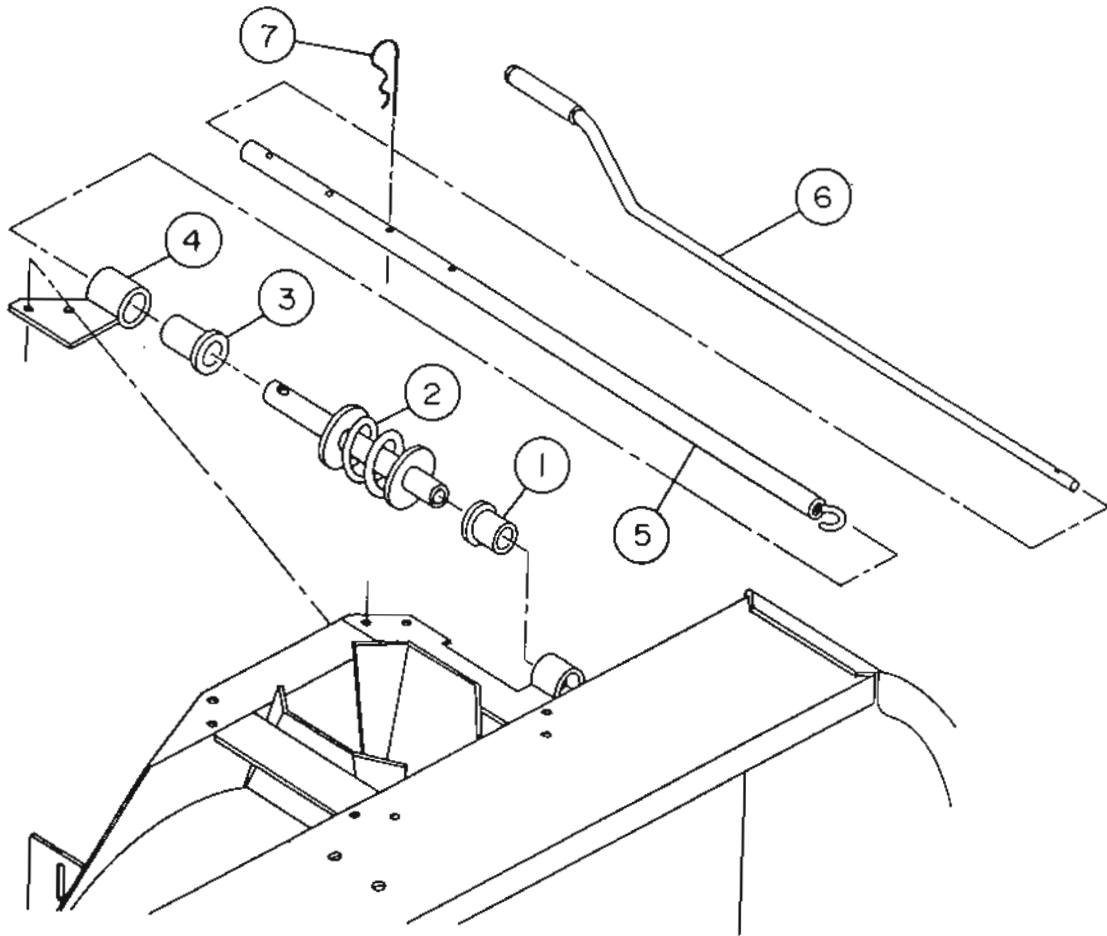
REDUCTION BOX ASSEMBLY

REF	DESCRIPTION	QTY	PART #
	Reduction box ass'y (incl.: bearings & sprocket) .	1	70060-01422
1	Reduction box	1	70060-01423
2	Drive shaft with sprocket (H40C11)	1	70060-01424
3	Bearing with locking collar (1" bore)	2	70060-01425
4	Bearing flange	4	70060-01426
5	Bolt (5/16"NC x 5/8", carriage)	6	O/L
6	Washer (5/16", lock)	6	O/L
7	Nut (5/16"NC, hex.)	6	O/L
8	Bolt (5/16"NC x 3/4", carriage)	4	O/L
9	Washer (5/16", lock)	4	O/L
10	Washer (3/8" dia. hole, flat)	4	O/L
11	Nut (5/16"NC, hex.)	4	O/L
12	Sprocket (H40B32)	1	70060-01274
13	Key (1/4" x 1/4" x 1")	1	70060-00928
14	Chain (#40 x 37 links, L.life w/connecting link) .	1	70060-01275
15	Bolt (1/4"NC x 7 1/2", hex.)	2	70060-01495
16	Washer (1/4", lock)	2	O/L
17	Nut (1/4"NC, hex.)	2	O/L
18	Driveline guard	1	70060-01364
19	Bolt (1/4"NC x 2 1/2", hex.)	1	O/L
20	Nut (1/4"NC, nylon lock)	1	O/L
21	Key (1/4" x 1/4" x 1 1/4")	1	70060-00814
22	Set screw (3/8"NC x 3/8", allen)	1	O/L
23	Set screw (5/16"NC x 1/2", allen)	2	O/L



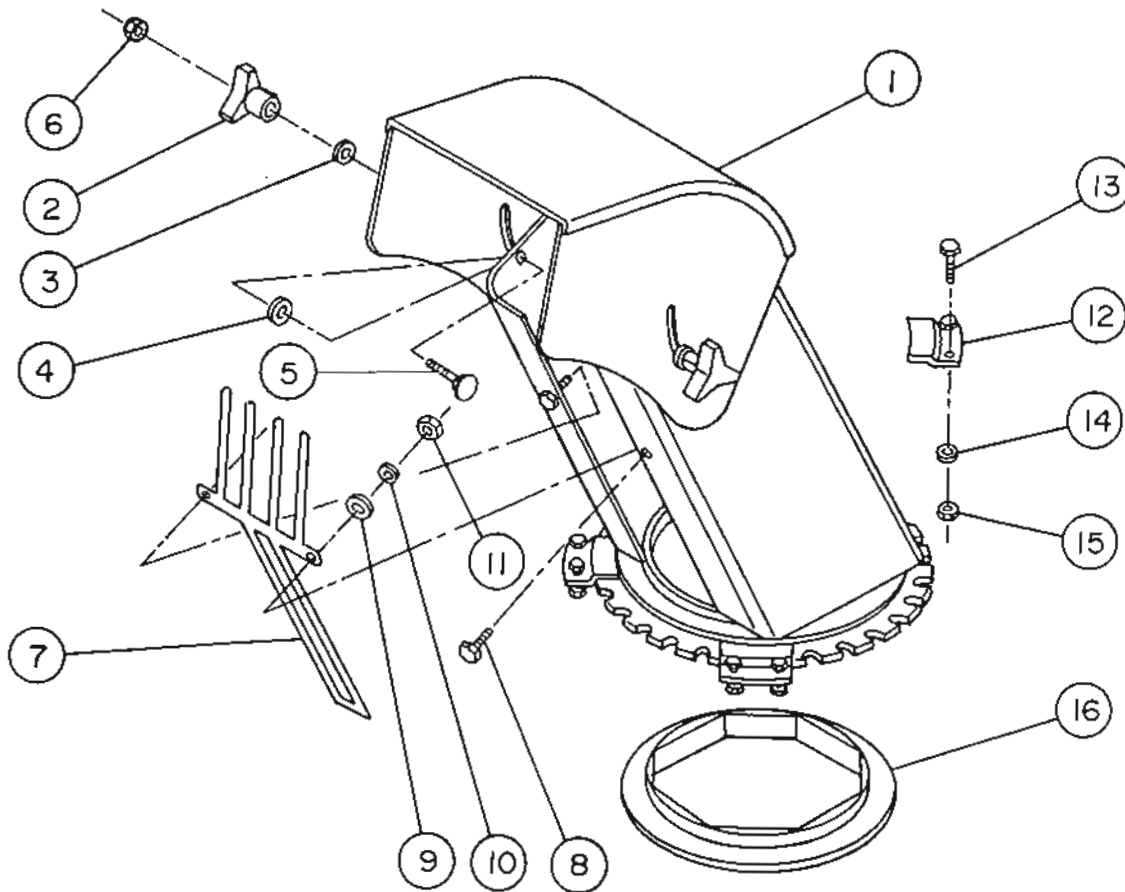
CHUTE ROTATION SYSTEM

REF	DESCRIPTION	QTY	PART #
1	Plastic bushing (1 5/16" lg.)	1	70060-01350
2	Rotation worm (ccw)	1	70060-01493
3	Plastic bushing (1 11/16" lg.)	1	70060-01351
4	Worm support	1	70060-01684
5	Rotation tube	1	70060-01174
6	Handle	1	70060-01175
7	Pin (4mm x 80mm, hair)	1	70060-01804



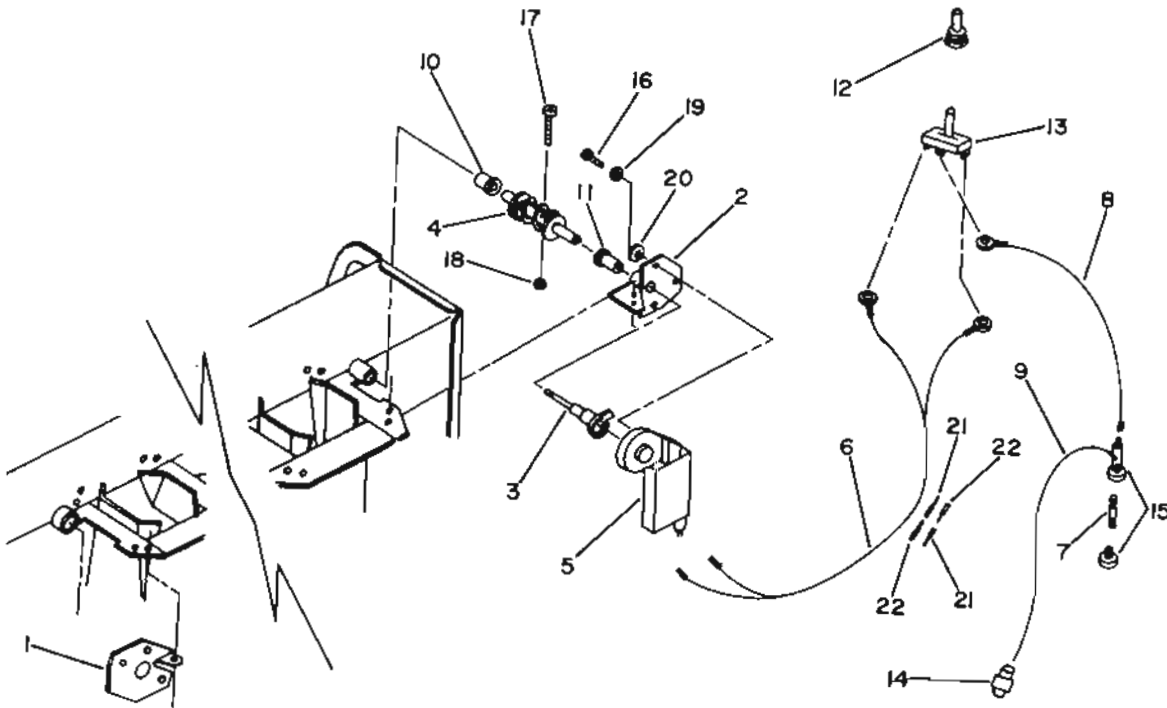
CHUTE WITH DEFLECTOR

REF	DESCRIPTION	QTY	PART #
1	Chute, deflector & knobs ass'y	1	70060-01362
2	Knobs (5/16"NC)	2	70060-01419
3	Nylon washer (11/32" dia. hole, flat)	2	70060-01833
4	Nylon washer (7/16" dia. hole, flat)	2	70060-01834
5	Bolt (5/16"NC x 1 1/2", carriage)	2	O/L
6	Nut (5/16"NC, nylon lock)	2	O/L
7	Hand guard	1	70060-01358
8	Bolt (1/4"NC x 3/4", hex.)	2	O/L
9	Washer (5/16" dia. hole, flat)	2	O/L
10	Washer (1/4", lock)	2	O/L
11	Nut (1/4"NC, hex.)	2	O/L
12	Retaining plate	4	70060-01353
13	Bolt (1/4"NC x 1/2", hex.)	6	O/L
	(1/4"NC x 3/4", hex.)	2	O/L
14	Washer (1/4", lock)	8	O/L
15	Nut (1/4"NC, hex.)	8	O/L
16	Nylon ring	1	70060-01357



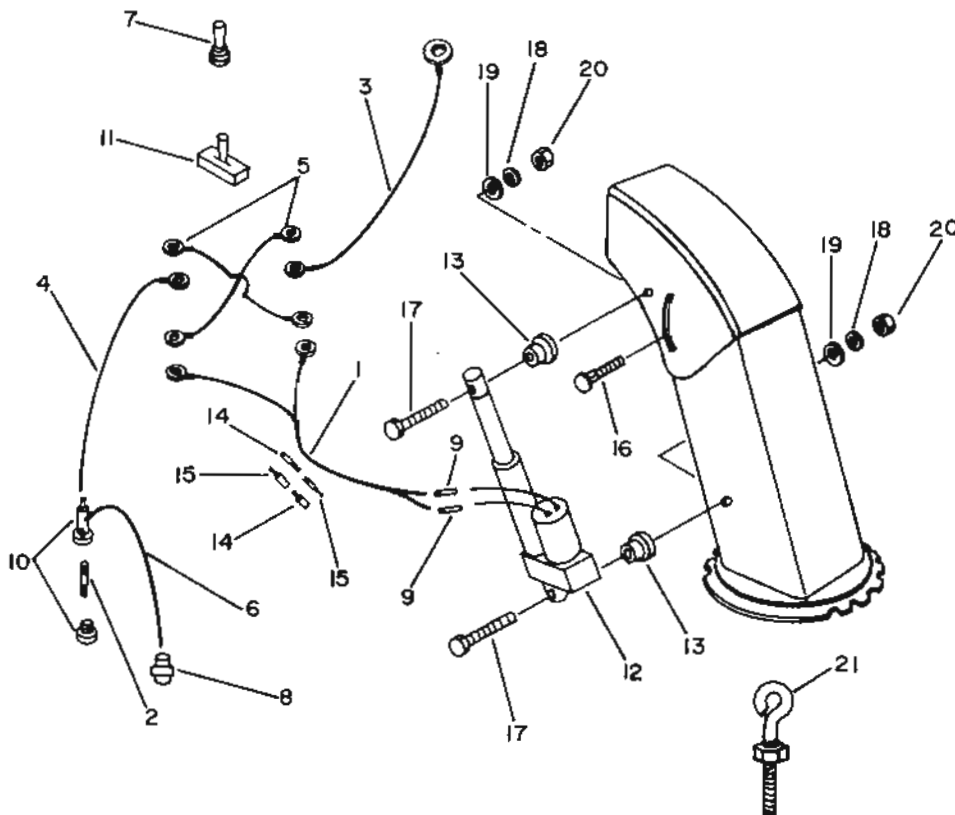
GB2514 ELECTRIC CHUTE ROTATION (OPTIONAL)

REF.	DESCRIPTION	QTY	PART #
1	Rotation support (For T2541-TG2524-G2538 & G2546).	1	70060-03474
2	Rotation support (For B2550 model only)	1	70060-03657
3	Adaptor	1	70060-03475
4	Rotation worm	1	70060-03658
5	Electric motor	1	70060-03477
6	Double wire ass'y. 102" lg.	1	70060-03650
7	Fuse (15 amp.)	1	70060-03644
8	Wire ass'y. 18" lg.	1	70060-03651
9	Wire (16 GA. x 18" lg.)	1	O/L
10	Plastic bushing 1 5/16"lg.	1	70060-01350
11	Plastic bushing 1 11/16"lg.	1	70060-01351
12	Rubber cap	1	70060-01700
13	Control switch	1	70060-03481
14	Connector tap	1	70060-03482
15	Fuse holder	1	70060-01699
16	Bolt (1/4"NC x 3/4", hex.)	3	O/L
17	Allen socket head capscrew (10-24 x 1")	1	O/L
18	Nut(10-24 x 1", nylon lock)	1	O/L
19	Washer (1/4", lock)	3	O/L
20	Washer (5/16" hole, flat).	3	O/L
21	Connector (male)	2	70060-03653
22	Connector (female)	2	70060-03654



GB2513 ELECTRIC DEFLECTOR KIT (OPTIONAL)

REF.	DESCRIPTION	QTY	PART #
1	Double wire ass'y. 102" lg.	1	70060-03652
2	Fuse (6 amp.)	1	70060-03643
3	Wire ass'y 17" lg.	1	70060-00902
4	Wire ass'y. 18 lg.	1	70060-03651
5	Wire 5" lg.	2	70060-00904
6	Wire 16 GA x 18" lg.	1	O/L
7	Rubber cap	1	70060-01700
8	Connector (instant)	1	70060-03209
9	Connector (parallel)	2	70060-03210
10	Fuse holder	1	70060-01699
11	Switch	1	70060-01698
12	Actuator	1	70060-03204
13	Bushing	2	70060-03659
14	Connector (male)	2	70060-03653
15	Connector (female)	2	70060-03654
16	Bolt (5/16"NC x 3/4", carriage)	2	O/L
17	Bolt (1/4"NC x 2 1/4", hex.)	2	O/L
18	Washer (1/4", lock)	2	O/L
19	Washer (5/16" hole, flat)	2	O/L
20	Nut (1/4"NC, hex.)	2	O/L
21	Bolt (1/4"NC x 4", eye)	1	O/L



NUMERICAL INDEX








PART #	PAGE	REF.	PART #	PAGE	REF.	PART #	PAGE	REF.
67810-56440	25	38	70060-01409	28	14	70060-03171	25	5
70060-00814	31	21	70060-01410	28	18	70060-03172	25	4
70060-00840	30	14	70060-01417	28	39	70060-03173	25	1
70060-00902	35	3	70060-01419	33	2	70060-03177	25	24
70060-00904	35	5	70060-01422	31	----	70060-03182	23	4
70060-00925	28	27	70060-01423	31	1	70060-03204	35	12
70060-00928	31	13	70060-01424	31	2	70060-03209	35	8
70060-00940	28	21	70060-01425	31	3	70060-03210	35	9
70060-01019	27	12	70060-01425	28	13	70060-03474	34	1
70060-01020	27	4	70060-01426	28	26	70060-03475	34	3
70060-01020	26	4	70060-01426	31	4	70060-03476	34	4
70060-01035	19	2	70060-01428	30	20	70060-03477	34	5
70060-01040	19	3	70060-01464	25	25	70060-03481	34	13
70060-01075	28	6	70060-01476	27	9	70060-03482	34	14
70060-01130	25	22	70060-01477	26	1	70060-03489	28	10
70060-01131	25	21	70060-01478	27	3	70060-03490	28	11
70060-01132	25	23	70060-01478	26	3	70060-03525	28	1
70060-01145	27	5	70060-01479	27	6	70060-03526	28	2
70060-01174	32	5	70060-01479	26	6	70060-03527	30	18
70060-01175	32	6	70060-01480	27	7	70060-03528	28	31
70060-01209	22	7	70060-01480	26	7	70060-03607	23	6
70060-01211	22	6	70060-01481	27	10	70060-03608	23	3
70060-01212	22	5	70060-01482	26	2	70060-03610	23	9
70060-01247	27	11	70060-01483	26	8	70060-03612	25	17
70060-01274	31	12	70060-01484	26	5	70060-03616	23	21
70060-01275	31	14	70060-01485	27	1	70060-03616	25	29
70060-01287	28	5	70060-01486	27	8	70060-03618	25	31
70060-01290	30	1	70060-01487	26	12	70060-03619	25	32
70060-01291	30	2	70060-01487	27	2	70060-03620	25	11
70060-01292	30	3	70060-01493	32	2	70060-03621	25	20
70060-01294	30	5	70060-01495	31	15	70060-03623	26	9
70060-01295	30	6	70060-01674	22	8	70060-03624	26	11
70060-01299	30	10	70060-01679	28	3	70060-03625	26	10
70060-01302	30	13	70060-01684	32	4	70060-03626	22	1
70060-01306	30	19	70060-01698	35	11	70060-03628	25	31
70060-01329	30	4	70060-01699	35	10	70060-03643	35	2
70060-01330	30	11	70060-01700	34-5	12-7	70060-03644	34	7
70060-01331	28	4	70060-01804	32	7	70060-03646	22	4
70060-01338	28	12	70060-01828	30	7	70060-03647	22	10
70060-01340	22	9	70060-01829	30	8	70060-03650	34	6
70060-01350	32	1	70060-01830	30	9	70060-03651	34	8
70060-01351	32	3	70060-01831	30	12	70060-03651	35	4
70060-01352	25	19	70060-01832	30	15	70060-03652	35	1
70060-01353	33	12	70060-01833	33	3	70060-03653	34	21
70060-01357	33	16	70060-01834	33	4	70060-03653	35	14
70060-01358	33	7	70060-03023	23	5	70060-03654	34	22
70060-01362	33	1	70060-03143	23	11	70060-03654	35	15
70060-01364	31	18	70060-03166	23	7	70060-03657	34	2
70060-01365	27	34	70060-03167	23	1	70060-03659	35	13
70060-01365	28	34	70060-03168	23	8			
70060-01373	23	2	70060-03170	23	10			

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						  				  			
Bolt Size		Torque		Torque		Torque		Torque		Torque		Torque	
Inches	Millimeters	Pounds Feet	Newton-Meters	Pounds Feet	Newton-Meters	Pounds Feet	Newton-Meters	Pounds Feet	Newton-Meters	Pounds Feet	Newton-Meters	Pounds Feet	Newton-Meters
		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