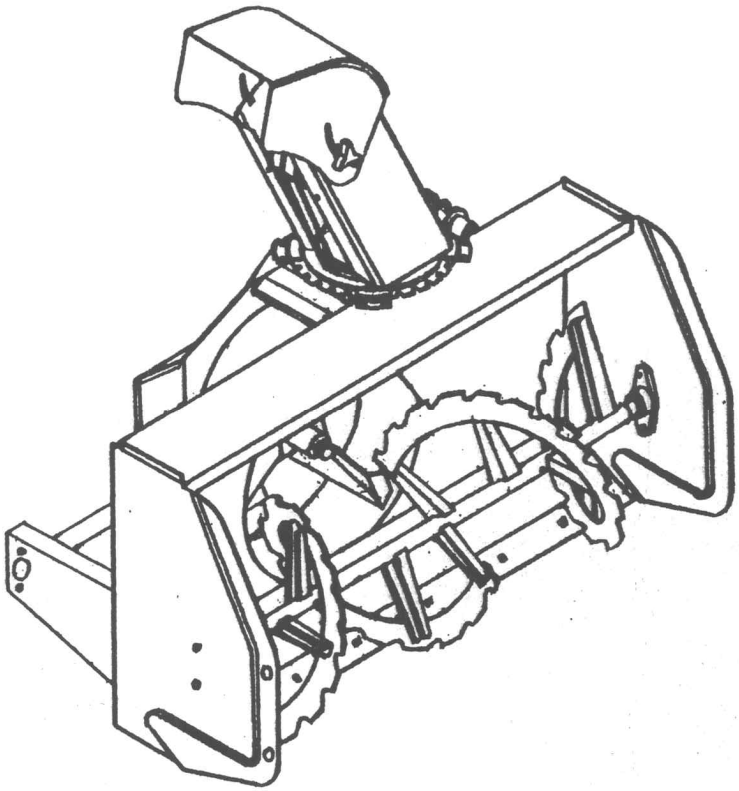
OPERATOR'S MANUAL

PARTS MANUAL



40" TWO STAGE SNOWBLOWER

MODEL 944-61020

AND 700102

102141 A

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SAFETY PRECAUTIONS

Careful operation is your best insurance against an accident. Read this section carefully before operating the tractor and attachment. All operators, no matter how experiences they may be, should read this and other related manuals before operating the attachment. 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 attachment safety labels to warn of the possibility of personal injury. Please take special care in reading and understanding the safety precautions before operating the attachment 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 attachment. 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 clutch and shift into neutral before starting the engine.

7. Do not operate equipment in winter time without wearing adequate winter garments.

8. Never attempt to make any adjustments while engine is running.

9. Do not work under a raised attachment.

SNOWBLOWER OPERATION

NOTE: POWER TAKE OFF is abreviated to PTO, which is the power source for the snowblower and is activated by manual or electric clutch.

1. Make sure drive belt is routed properly before operation.

2. Before getting off tractor, 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 impeller.

4. Watch carefully to avoid foreign objects that could enter the blower while operating.

5. Make sure the PTO switch/lever is in the OFF position before starting engine.

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. Adjust collector housing height to clear gravel or crushed rock surface.

SAFETY PRECAUTIONS

9. Use adequate safety warning lights check local regulations.

10. Stop the engine, remove the key, set the parking brake, and allow the rotation parts to stop before unclogging the collector/impeller housing or discharge chute and before making any repairs, adjustments or inspections. Use only a 36" long piece of wood to unclog blower.

11. If the attachment 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 attachment in or out of building. Do not operate or run engine in a non-ventilated area. Carbon monoxide gas is colorless, adorless and deadly.

13. Exercise extreme caution when changing direction on slopes. Do not attempt to clear steep slopes.

14. Never operate snowblower without guards, 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.

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/impeller when transporting or when not in use.

20. Never operate the snowblower without good visibility and lighting.

21. Use only tractor manufacturer approved tire chains and counterweights for better traction and stability (see WARNING on page 14).

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 !

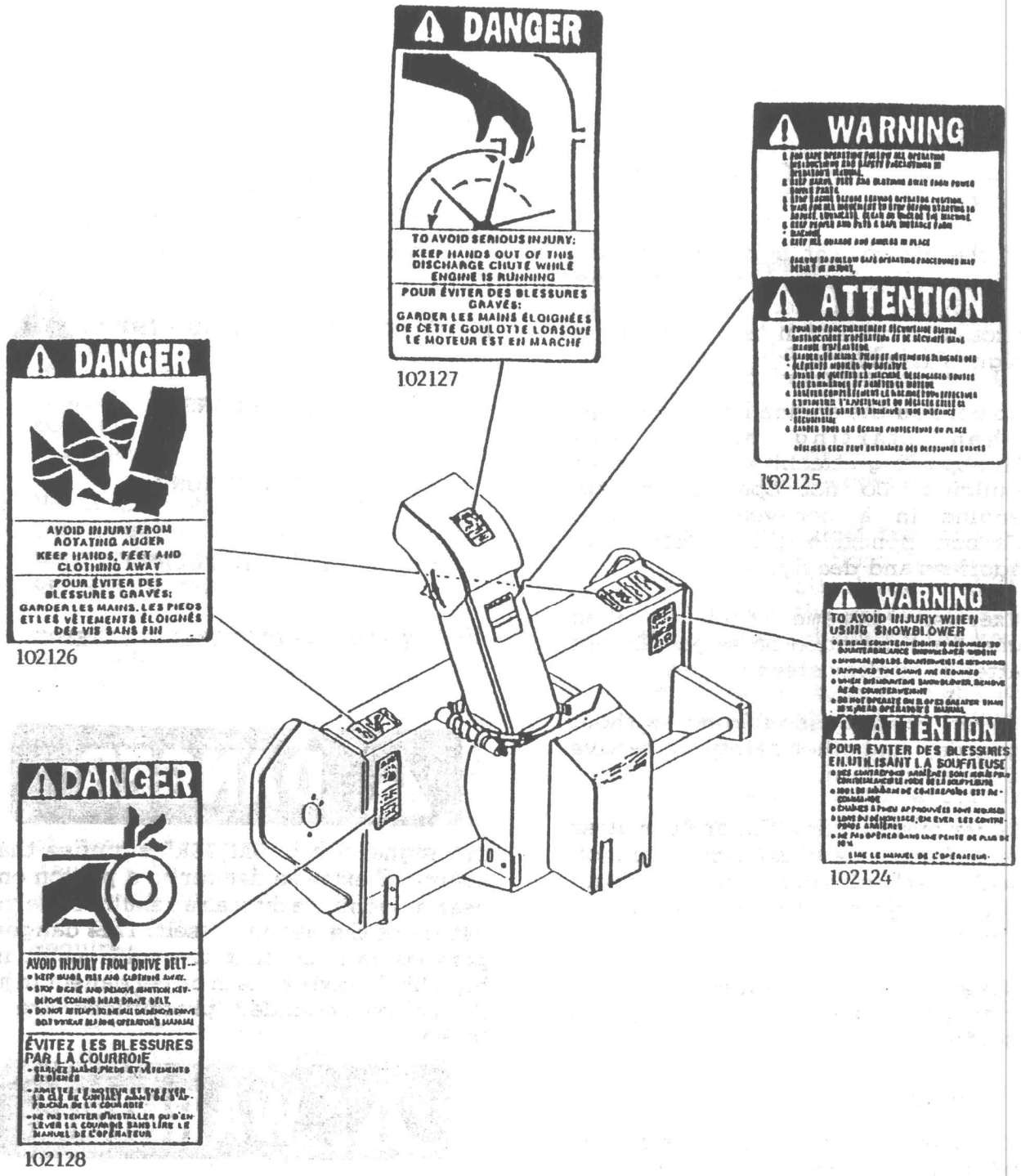
YOUR SAFETY IS INVOLVED !

The signal word "DANGER" signifies that a source of extreme danger to a person on or near a machine exists as a result of the very nature of the machine itself. This danger to persons is such that it would result in a high likelihood of death or permanent injury if the recommended precautions are not taken.

The signal word "WARNING" indicates that a source of danger to a person on or near a machine exists which may result in death or injury if the recommended precautions are not taken.

SAFETY DECALS

REPLACE IMMEDIATELY IF DAMAGED



INTRODUCTION

TO THE PURCHASER

This new snowblower was carefully designed to give years of dependable service. This manual has been provided to assist in the safe operation and service of your snowblower.

NOTE: All photographs and illustrations in the manual may not necessarily depict the actual models or equipment, but 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 putting the machine to use. Carefully read, understand and follow these recommendations and insist that they be followed by those who work with you.

THIS SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE IT, BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY AND CAREFULLY READ THE MESSAGE THAT FOLLOWS.

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

If warranty repairs are required please present this registration booklet and original sales invoice to your selling dealer for warranty service.

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

MODEL .....

SERIAL NUMBER .....

DATE PURCHASED .....

ASSEMBLY

The following terminology will be used to identify the two different tractors on which this snowblower can be installed.

Tractor Model A: For tractors with 44" wheelbase (center of front axle to center of rear axle) which also have the clutch lever on the right hand side of the tractor.

Tractor Model B: For tractors with 46 1/2" wheel base, and the clutch lever on the tractor dash. This tractor is also equipped with the extended mower brackets welded on the inside of the front tractor frame, which are used for the vented mower deck.

NOTE: If the tractor is equiped with a muffler guard, remove it to permit space to install the front support bracket.

NOTE: All tractors are equiped with belt guides on the engine attachment drive pulley. These must be removed to permit snowblower belt guide installation.

IMPORTANT: Put these tractor parts in a safe place, as they must be reinstalled on the tractor when the snowblower is removed.

IMPORTANT: Torque all bolts according to torque specification table on page 26, unless otherwise specified.

STEP 1: SNOWBLOWER PREPARATION

a) Insert one 5/16 X 3/4" carriage bolt (fig. 1, item 1) through bottom slot of each skid shoe (item 2) from inside the bend. Secure loosely with nuts. Insert bolt heads (item 1) through round holes in collector housing and slide square shank portion of bolt in slot. Secure skid shoes to collector housing using another 5/16 X 3/4" bolt (item 3) from inside collector housing through each skid shoe, secure with nuts.

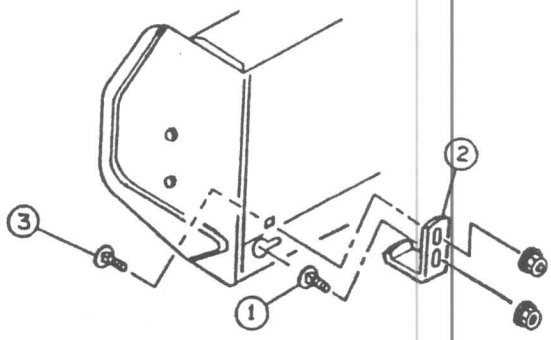


FIGURE 1

Skid Shoe Adjustment

a) Level Paved Surface - adjust skid shoes to allow 3/16 to 1/4" 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.

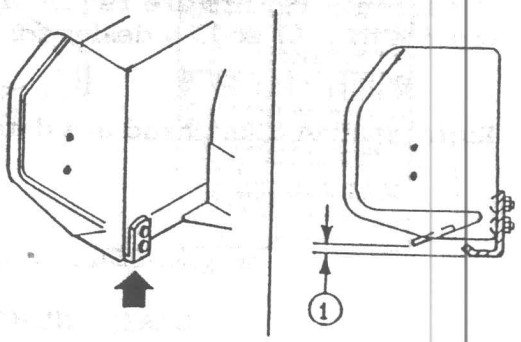


FIGURE 2

b) Install hand guard (fig. 3, item 1) on chute (item 2) with the top portion inside the chute and the bottom section outside the chute base ring. Place two 1/4 X 3/4" bolt (item 3) with the head on the outside of chute, through the chute then through the hand guard and secure with a flatwasher and nut. Tighten securely.

ASSEMBLY

c) Place plastic anti-friction insert (fig. 3, item 5) over chute base. Only one position provides a perfect fit.

d) Insert shortest plastic bushing (fig. 3, item 6) in snowblower tube weldment.

e) Insert longest plastic bushing (fig. 3, item 7) in bushing support (item 4), grease both ends of rotation worm and place rotation worm (item 8) in bushing.

f) Install rotation worm assembly through tube weldment with the bushing support (fig. 3, item 4) on the underside of chute base lip.

g) Install chute (fig. 3, item 2) over plastic insert (item 5) (applying grease in between) and secure with four retaining plates (item 9) using six 1/4 X 1/2" bolts (item 10) and two 1/4 X 3/4" bolts (item 11) to also secure bushing support (item 4). Lock all bolts with nuts. Tighten securely.

h) Insert push frame assembly (fig. 4, item 1) in snowblower assembly and fix in place using four 7/16 X 1 1/4" bolts (item 2). Secure the two bolts closest to collector housing with flatwashers, lockwashers and nuts and secure other bolts with lockwashers and nuts. do not tighten yet.

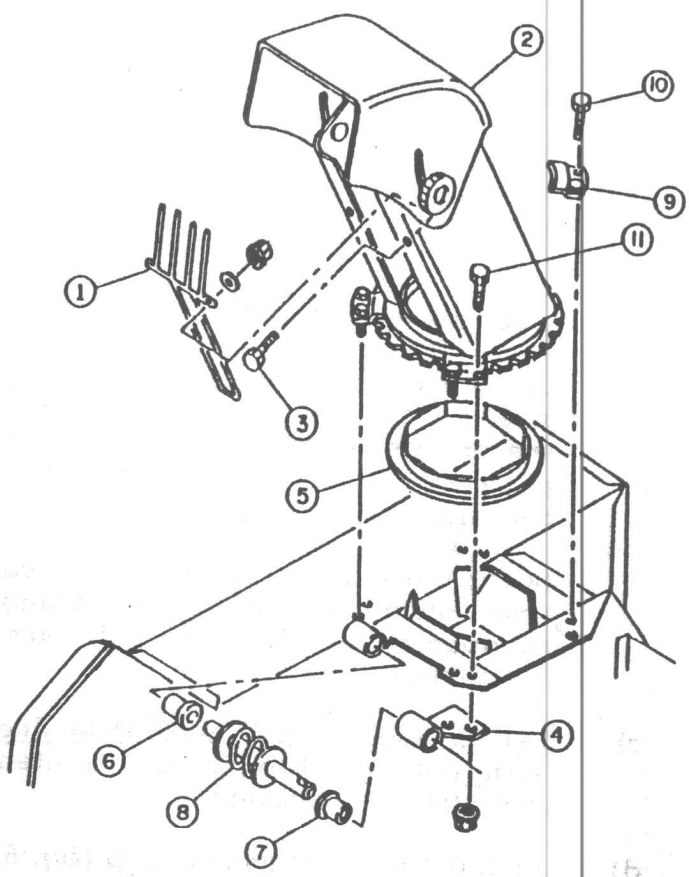


FIGURE 3

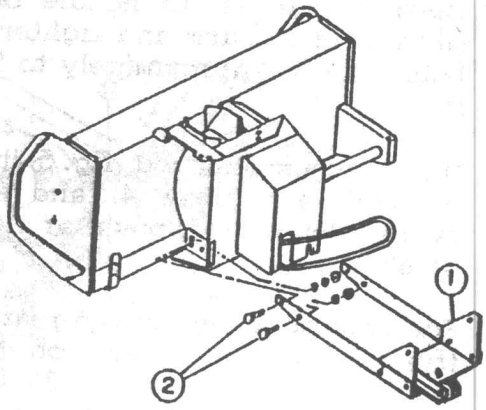


FIGURE 4

ASSEMBLY

STEP 2: SUBFRAME PREPARATION

a) Install channel (fig. 5, item 1) between lift supports and subframe flatbars (item 2) using four 7/16 X 1 1/4" bolts (item 3), lockwashers and nuts. Do not tighten yet.

b) Remove tie wrap from lift lever assembly and insert lift arm (fig. 6, item 1) from right hand side through lift support bearing, sleeve spacer, lever assembly (item 2), sleeve spacer, lift support bearing until it protrudes 2 1/4" from left hand bearing.

NOTE: It mey be necessary to remove some paint on lift arm (using sandpaper) to facilitate lift arm installation.

c) Set channel (fig. 5, item 1) in line with flatbars (item 2) and tighten bolts (item 3) securely.

d) Install 1 X 4 1/2" handle grip (fig. 6, item 3) on lift arm (item 1).

e) Set handle section (fig. 6, item 3) of lift arm parallel to level ground and block in this position. Set lift lever (item 2) parallel to handle section (item 3) of lift arm and tighten 5/8" bolt (item 4) approximately to 50 lbs ft.

f) Install adjustment rod (fig. 5, item 5), in push arm (item 4) and adjust overall length of push ar . to 32 9/16".

g) **For Tractor A:** Install the rear hitch (fig. 7, item 1) loosely on top of subframe channel (item 2) in the forward most set of holes using 7/16 X 1 1/4" bolt, flatwasher on top of the slot, and the lockwasher and nut under the channel. Do not tighten yet.

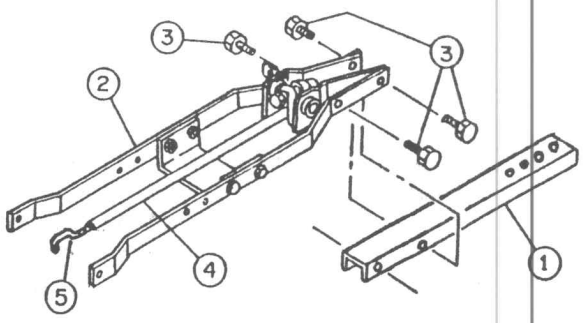


FIGURE 5

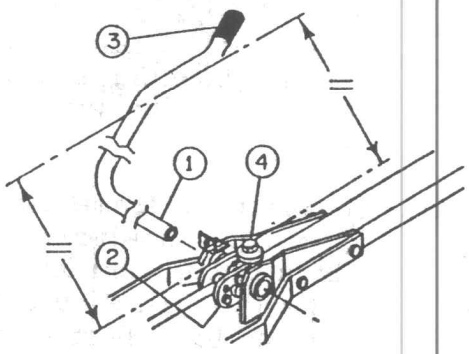


FIGURE 6

h) Attach the other end of the hitch using a 5/8 X 6" bolt (fig. 7, item 5) through the channel, then through the tube 2 1/4" spacer (item 3), then through the hitch (item 1). On top of this, install a 2" long tube spacer (item 4) and then secure with a flatwasher, lockwasher and nut. Do not tighten yet.

ASSEMBLY

i) For Tractor B: (In the most rear set of holes) Install the rear hitch (fig. 7, item 1) as follows: Use exactly the same instruction as for Tractor A except that a 5/8 X 4" bolt (item 5) is used with the 2 1/4" spacer (item 3) between the hitch and channel, but not the 2" spacer on top of the hitch. Secure with flatwasher, lockwasher and nut. Do not tighten yet.

j) Attach subframe flatbars (fig. 8, item 1) inside front support brackets (item 2) in lower holes using two 7/16 X 1 1/4" bolts, lockwashers and nuts. Do not tighten.

k) Install a 5/32 X 1" cotter pin at one end of the 5/8 X 11 1/16" pin (fig. 8, item 3).

l) Attach push frame (fig. 8, item 4) with snowblower to front support brackets (item 2) using the 5/8 X 11 1/16" pin (item 3). Secure pin using 4mm hair pin (item 5).

m) Install rod end of push arm assembly (fig. 8, item 6) on bottom center of pivot bracket (item 4) secure on top with 5/32 X 1" cotter pin and underside with a 4mm hair pin (the rod end may have to be rotated to allow installation).

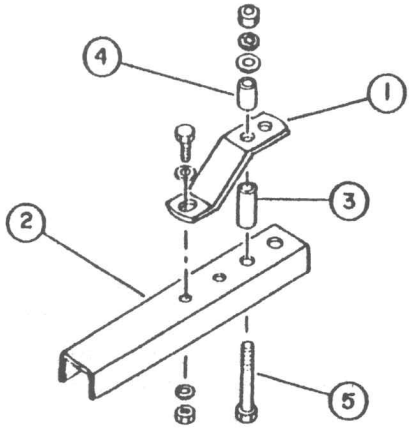


FIGURE 7

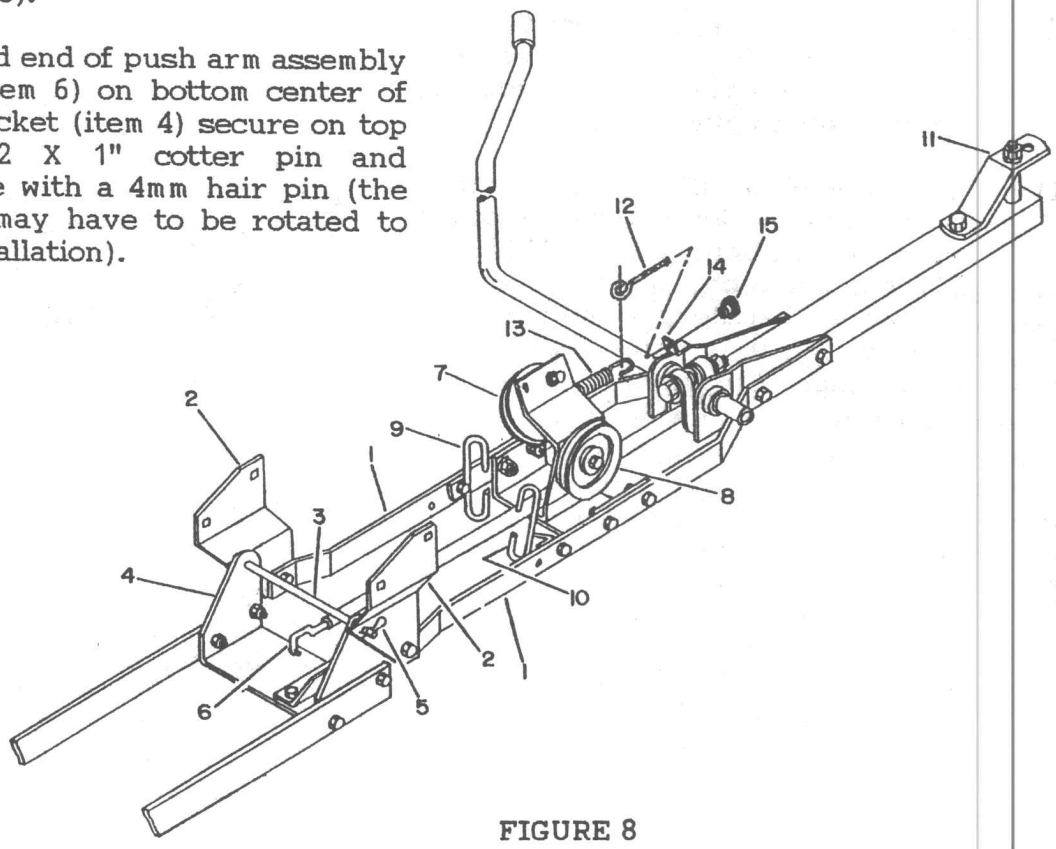


FIGURE 8

n) Route the snowblower drive belt in the subframe by placing flat side of bottom belt section on idler (fig. 9, item 5), belt sections inside belt guide, inside subframe belt guide (fig. 8, item 9-10) around "V" idlers (fig. 8, item 7-8) or (fig. 9, item 1-2).

STEP 3: SUBFRAME INSTALLATION

a) Pull carefully the tractor on top of the subframe.

b) Attach rear hitch (fig. 8, item 11) to tractor tow hitch using bolts already installed, with flatwasher, lockwasher and nut on top of tractor tow hitch. Don't tight yet.

c) Install front support brackets (fig. 10, item 1-2) inside the front of the tractor frame, using four 3/8 X 1" hex bolts, and nuts with the bolt heads on outside tighten securely all the subframe bolts according to torque specification table.

d) Set snowblower angle (front to rear) at 90-91 degrees to level surface and securely tighten bolts securing snowblower to push frame.

f) Carefully place lift arm in rearmost position (snowblower must be locked in raised position), place a 3" (76mm) block under each end of snowblower and adjust handle grip section of lift arm so that it is parallel to tractor right fender. Torque the 5/8 X 4" bolt on lift lever to 100 lbs. ft.

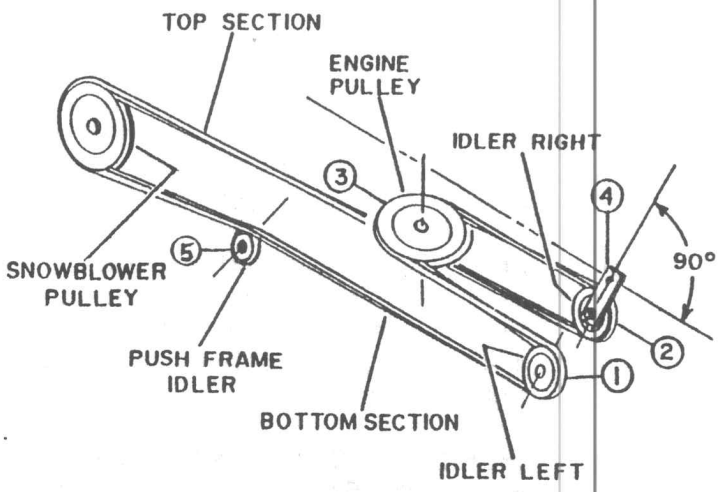


FIGURE 9

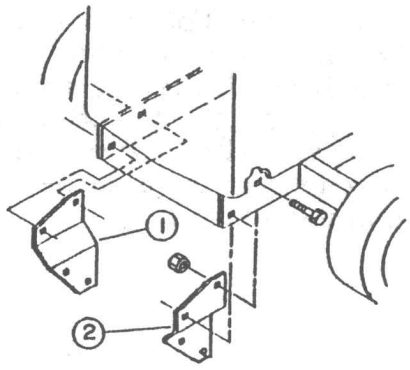


FIGURE 10

NOTE: If snowblower does not raise 3" (76mm) above level ground, check and adjust tractor tire pressure as follows:

Front tires - 22-25 psi
Rear tires - 7-10 psi

Tire pressure must be equal on both sides of tractor.

ASSEMBLY

WARNING: Remove tractor ignition key and disconnect engine spark plug wire.

f) Route the V-belt around tractor pulley (fig. 9, item 3) (the left bottom section of the belt is not twisted).

TRACTOR WITH ELECTRIC PTO CLUTCH, GO TO ITEM "H".

For Tractor A with side mounted manual PTO clutch: Install short extension bracket (fig. 11, item 4) on tractor clutch lever (item 5) under tractor using a 1/2 X 1" bolt, lockwasher and nut (placing bent portion of bracket against front side of tractor clutch lever). Tighten securely and attach free end of spring (item 6) to extension bracket.

For Tractor B with the dash mounted manual PTO clutch: Install long extension bracket (fig. 11, item 7) on clutch lever (item 8), using a 3/8 X 3/4" bolt and nut (placing bent portion of bracket against front side of tractor clutch lever). Tighten securely and attach free end of spring (item 6) to extension bracket.

g) If you have not yet removed the two belt guides on the tractor engine attachment drive pulley, remove them now, and install the bent flatbar drive pulley guide (fig. 12, item 1) inside the tractor frame. On the left hand side use the tractor hole 7 11/16" from the center of the front axle. The left hand side of the guide should be higher. On the right side, use the hole 8 5/16" rear of the center of the front axle. Secure with a 3/8 X 3/4 hex bolt and secure tightly with flange nut.

CAUTION: All belt guides must be adjusted so that belt does not touch the guides.

h) Tractor with electric PTO clutch: Place eyelet end of eyebolt (fig. 8, item 12) on free end of spring (item 13), place threaded end through welded bracket (item 14) on right hand side lift support and thread plastic know (item 15) on eyebolt. The belt guide (fig. 12, item 1 and fig. 8, item 9-10) is not necessary on tractor equipment with electric PTO clutch.

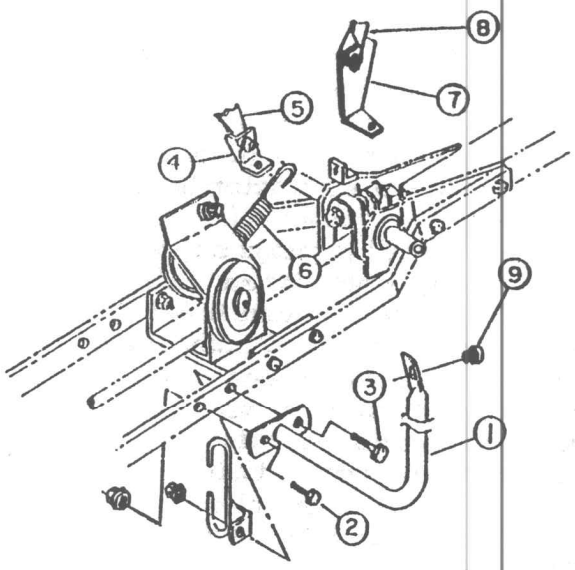


FIGURE 11

i) Belt Adjustment With Manual Clutch: With the clutch mechanism is engaged position, and the snowblower in raised position, the pulley lever (fig. 9, item 4) must be approximately 90° with the subframe, and the spring lengthened 3/4 to 7/8". If it is not like this, adjust the belt tension using the left adjustable idler pulley (item 1). Disengage the clutch, loosen the middle bolt, slide the idler in the slot and retighten the bolt. Make sure that with the spring at 3/4 to 7/8" lenght, the pulley lever angle is approximately 90° to the subframe.

ASSEMBLY

j) Belt Adjustment With Electric Clutch: Raise the snowblower. With the adjustment knob (fig. 8, item 15), adjust the spring length (item 13) to approximately 3/4 to 7/8". The pulley lever (fig. 9, item 4) must be approximately 90° to subframe. If it is not like this, loosen the spring by on screw the knob and slide the left idler pulley (item 1) by loosening the middle bolt, then sliding the idler in the slot, and then retightening the bolt. Check to be sure that with the spring lengthened to 3/4 to 7/8", the pulley lever angle is approximately 90° to the subframe.

k) Reconnect engine spark plug wire and close tractor hood.

l) Install rotation support bracket (fig. 11, item 1) on left hand side of subframe using a 3/8 X 1" (item 2) in most forward hole and a 3/8 X 1 1/4" bolt (fig. 6, item 3) in other hole with belt wide inside subframe flatbar, making sure the belt guide is 90° to subframe flatbar. Secure bolts with nuts. Insert plastic grommet (item 9) in support bracket (item 1).

m) Install 1/2 X 3" handle grip (fig. 13, item 1) on chute rotation handle (item 2) and place handle through grommet in rotation support bracket (item 3).

n) Install hook (fig. 13, item 4) on rotation worm (item 5). Insert hook in rotation handle and lock ir place with a 2.5mm X 40mm hairpin (item 6).

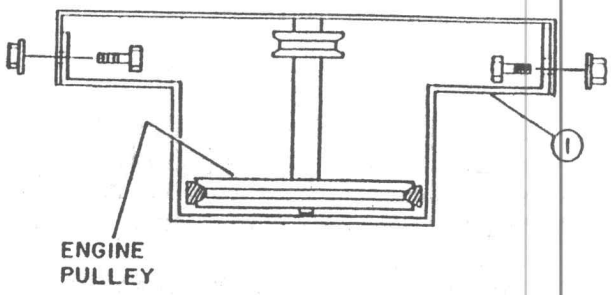


FIGURE 12

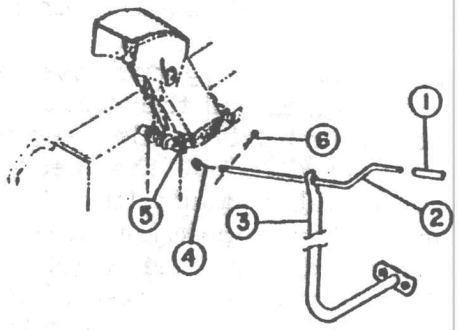


FIGURE 13

OPERATION

OPERATING CONTROLS

1. Chute Rotation
The chute rotation handle (fig. 13, item 2) is located to the left of the steering wheel. Turning the handle in a clockwise direction turns the discharge chute in a clockwise direction.

2. Raising And Lowering The Snowblower
The lift lever for raising and lowering the snowblower is located on tractor right hand fender. To raise the snowblower, pull back on the lift lever handle (fig. 6, item 3). To lower the snowblower, push forward on the lift lever handle.

3. Starting And Stopping The Snowblower
Engage snowblower when engine is running at low rpm.
-For tractors with electric clutch: place PTO switch to "on" position to engage. Place switch to "off" position to disengage.
-For tractors with manual clutch: place PTO lever in forward position to engage. Place lever in rearward position to disengage.

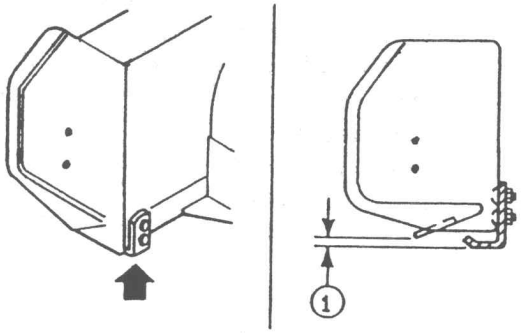


FIGURE 14

ADJUSTMENTS

WARNING: Before making any adjustments, stop the snowblower by moving the clutch lever rearward, stop the engine, set parking brake and disconnect spark plug wire.

1. Chain Adjustments
AUGER DRIVE CHAIN: Loosen chain idler arm bolt (page 18, item 29) on snowblower right hand side plate, and set chain tension leaving 1/2" deflection in longest chain span. Tighten idler arm bolt securely.

DRIVE CHAIN: Remove cover (page 18, item 44) and loosen idler (page 18, item 30). Set chain tension leaving 1/4" deflection in longest chain span. Tighten idler bolt securely.

2. Deflector Adjustment
Set the angle of the deflector according to the distance the snow must be thrown and to prevent property damage. To change the deflector angle, loosen the two deflector knob & adjust the deflector to the appropriate angle and retighten the two knobs securely.

3. Shearbolt Replacement
Use 5mm X 40mm bolt with 1/2" shoulder for the impeller shearbolt and 5mm X 45mm bolt with 1/2" shoulder for the auger. Use grade 8.8. See page 19 (item 20 et 22) for part number.

4. Belt Adjustment
Follow the instructions on Page 11 (item i) and page 12 (item j) for belt adjustment.

5. Skid Shoe Adjustment
a) Level Paved Surface - adjust skid shoes to allow 3/16 to 1/4" clearance (fig. 14, item 1) betwen cutting edge and surface.

b) Uneven or Gravel Surface - adjust skid shoes to allow 1/2 to 5/8" clearance (fig. 14, item 1) between cutting edge and surface.

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 worm by the operator should be fairly tight and belted. Loose clothing should not be permitted because of danger of getting into moving parts.

OPERATING THE SNOWBLOWER

1. Make sure that the snowblower is clear of snow before engaging the snowblower.

2. Make sure that the auger and impeller operate freely.

3. Start the tractor engine.

4. Before engaging the snowblower drive, always have the engine running at idle.

5. Operate the snowblower at maximum engine 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 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. Do not use hand to unplug chute. Use a 36" (924mm) minimum length stick or board.

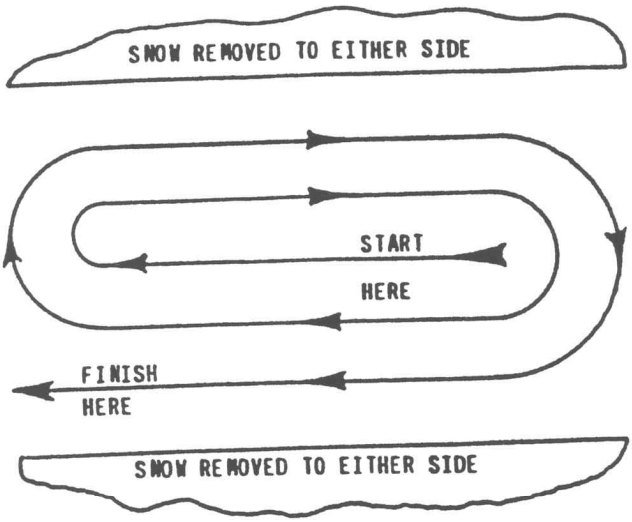
WARNING: To avoid injury when using snowblower:

- Rear counterweight is required to counterbalance snowblower weight
- Minimum 100 lbs. counterweight recommended.
- Tractor manufacturer approved tire chains are required.
- Do not operate on slopes greater than 10%.
- When dismounting snowblower remove rear counterweight.

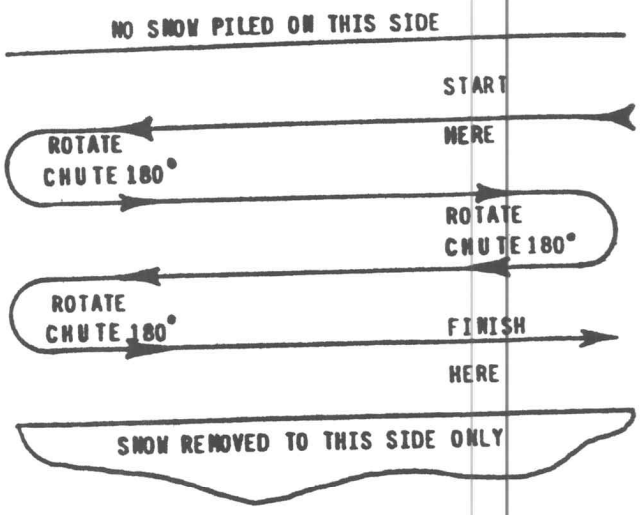
OPERATION

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 chute.



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

MAINTENANCE

WARNING: All maintenance, lubrication, adjustment and storage instructions must be followed with engine off and all drives disengaged.

MAINTENANCE SERVICE AND STORAGE

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

2. Provide adequate blocking before working under the snowblower when in raised position.

3. See adjustment section page 13 for shearbolt replacement.

LUBRIFICATION

DRIVE CHAINS: Lubricate with chain saw chain lubricant every 2 hours of operation and at the end of each operation.

CHUTE ROTATION SYSTEM: Oil chute base, rotation worm bushings and rotation hook every 8 hours of operation.

TIRE PRESSURE

Recommendation:
Front tires=22-25 psi/Rear tires=7-10 psi
Tire pressure must be equal on both sides of tractor.

END OF SEASON STORAGE

1. Clean snowblower and subframe thoroughly and repaint all parts from which paint has worm.

2. When snowblower and subframe is dry, oil all moving parts. Apply oil liberally to all surfaces to protect against rust.

3. Lubricate snowblower as instructed in lubrication section.

4. List the replacement parts that will be needed before the next season.

5. Store the snowblower and the subframe in a dry place.

DISMOUNTING

SNOWBLOWER AND SUBFRAME DISMOUNTING

a) Select a level surface, set parking brake and remove spark plug wire from engine spark plug.

b) Remove hairpin from chute rotation tube and remove handle.

c) Remove bent flatbar guide from tractor frame, remove belt from tractor drive pulley, by either unhooking spring from the clutch cable or loosening spring using knob for electric PTO clutch.

d) Remove the rotation support from the subframe.

e) Remove rear counterweight.

f) Dismount subframe by loosening the 5/8" bolt securing subframe on the rear to tractor tow hitch. Remove the front support subframe bracket of tractor by removing the four 3/8 X 1" hex bolts, carefully lower the front subframe. Remove the rear bolt 5/8"and carefully lower the back.

g) Pull back carefully the tractor over the subframe.

h) If the muffler guard was removed, reinstall.

i) Reconnect engine spark plug wire.

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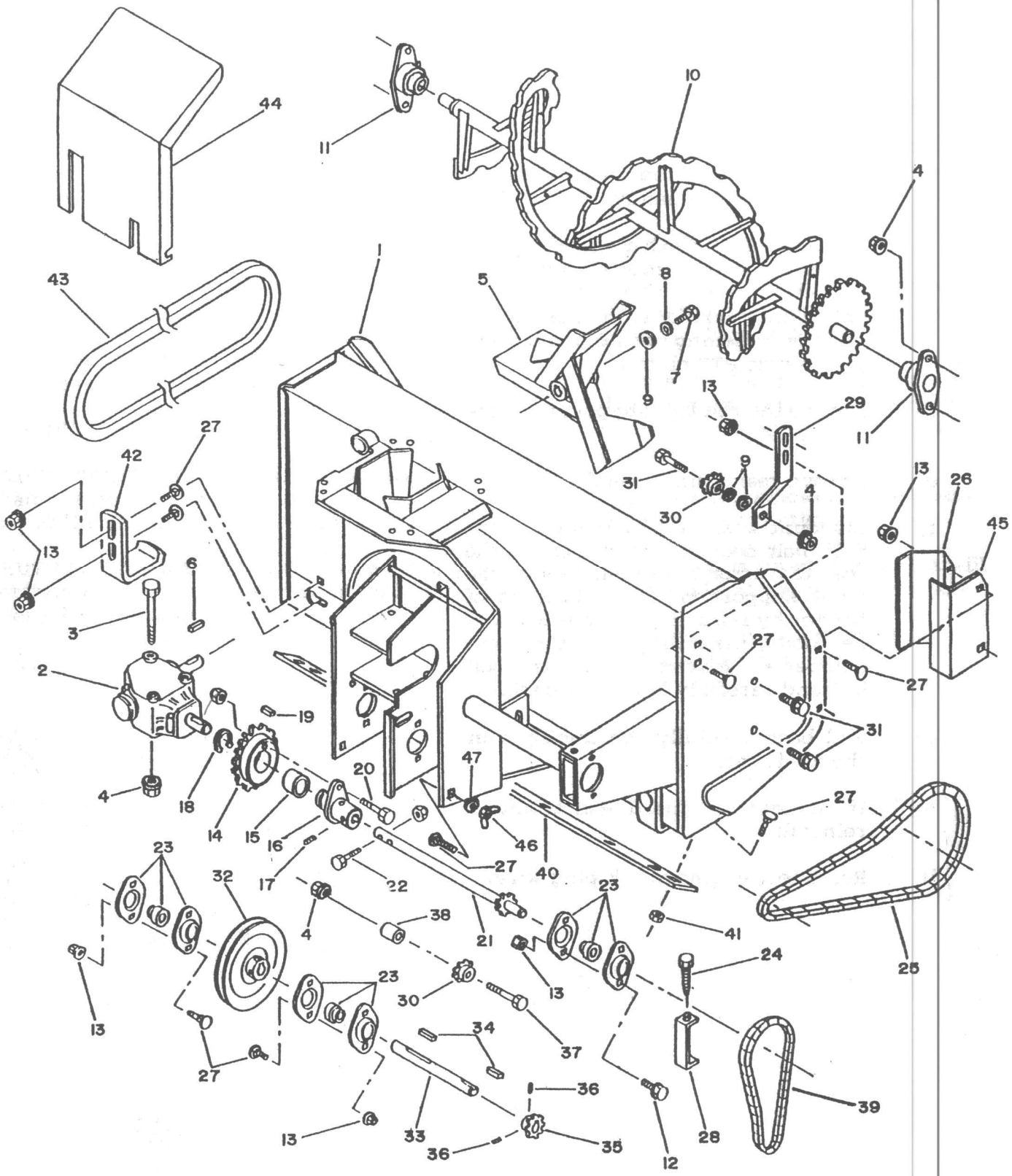
SNOWBLOWER HEAD (40" MODEL)



SNOWBLOWER HEAD (40" MODEL)

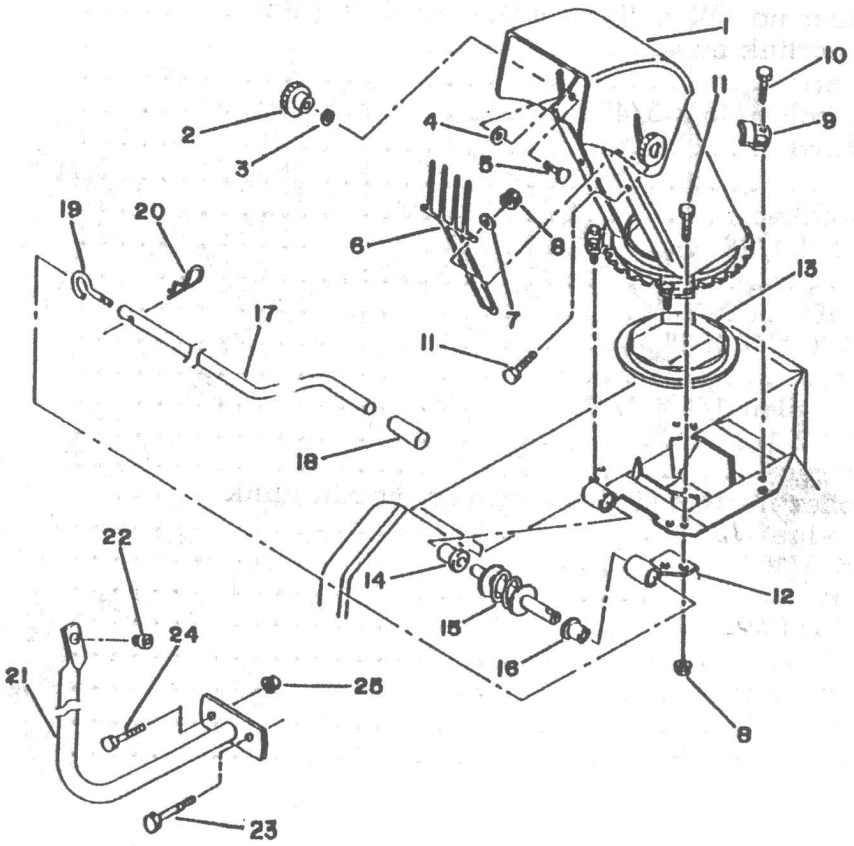
REF	DESCRIPTION	QTY	PART NO.
1	Frame	1	102028
2	Gear box	1	102029
3	Bolt 3/8 X 4"	3	O/L
4	Flange nut 3/8"	9	O/L
5	Fan assembly	1	102001
6	Key 8mm X 7mm X 35mm	1	102035
7	Bolt M8 X 1.25 X 25mm	1	O/L
8	Lock washer 5/16"	1	O/L
9	Flat washer 3/8" dia. hole	3	O/L
10	Auger .40"	1	102000
11	Flange bearing	2	102031
12	Bolt 5/16 X 3/4"	2	O/L
13	Flange nut 5/16"	14	O/L
14	Sprocket	1	102032
15	Bushing	1	102033
16	Shear plate	1	102008
17	Set screw allen 5/16 X 5/16"	2	O/L
18	Snap ring	1	102034
19	Key 8mm X 7mm X 25mm	1	102030
20	Impeller shear bolt (5mm X 0.8 X 40mm) with nylon nut	1	102036
21	Driven shaft	1	102037
22	Auger shear bolt (5mm X 0.8 X 45mm) with nylon nut	1	102038
23	Bearing and flangets ass'y	3	102039
24	Self taping screw	1	O/L
25	Chain roller no 40X 92 links with connecting link	1	102022
-	Connecting link no 40	1	102040
26	Chain guard	1	102010
27	Carriage bolt 5/16 X 3/4"	20	O/L
28	Chain guard	1	102041
29	Idler arm	1	102042
30	Idler sprocket	2	102027
31	Bolt 3/8 X 1 1/4"	5	O/L
32	Pulley	1	102043
33	Drive shaft	1	102044
34	Key 3/16 X 3/16 X 1"	2	102026
35	Sprocket	1	102045
36	Set screw allen 1/4 X 1/4"	2	O/L
37	Bolt 3/8 X 2 1/2"	1	O/L
38	Idler spacer	1	102046
39	Chain roller no 40 X 40 links with connecting link	1	102021
40	Cutting edge	1	102047
41	Lock nut 5/16"	6	O/L
42	Skid shoe	2	102015
43	Belt	1	102048
44	Reduction cover	1	102090
45	Reinforcing angle	1	102133
46	Nut wing 5/16"	2	O/L
47	Bellville washer 3/8" dia.	2	O/L

* O/L : Obtain locally

ROTATION SYSTEM & CHUTE

REF	DESCRIPTION	QTY	PART NO.
1	Chute and deflector	1	102058
2	Knob 5/16"	2	102020
3	Nylon flat washer 11/32" dia. hole	2	102009
4	Nylon flat washer 7/16" dia. hole	2	102011
5	Carriage bolt 5/16 X 1"	2	O/L
6	Hand guard	1	102012
7	Flat washer 5/16" dia. hole	2	O/L
8	Flange nut 1/4"	10	O/L
9	Retaining plate	4	102007
10	Bolt 1/4 X 1/2"	6	O/L
11	Bolt 1/4 X 3/4"	4	O/L
12	Worm support	1	102014
13	Rotation ring	1	102016
14	Plastic bushing 1 5/16"	1	102060
15	Rotation worm (CW)	1	102005
16	Plastic bushing 1 11/16"	1	102059
17	Handle	1	102061
18	Handle grip	1	102062
19	Handle hook	1	102006
20	Hair pin 2.5mm X 40mm	1	102013
21	Handle support	1	102019
22	Plastic grommet	1	102063
23	Bolt 3/8 X 1 1/4"	1	O/L
24	Bolt 3/8 X 1"	1	O/L
25	Flange nut 3/8"	1	O/L

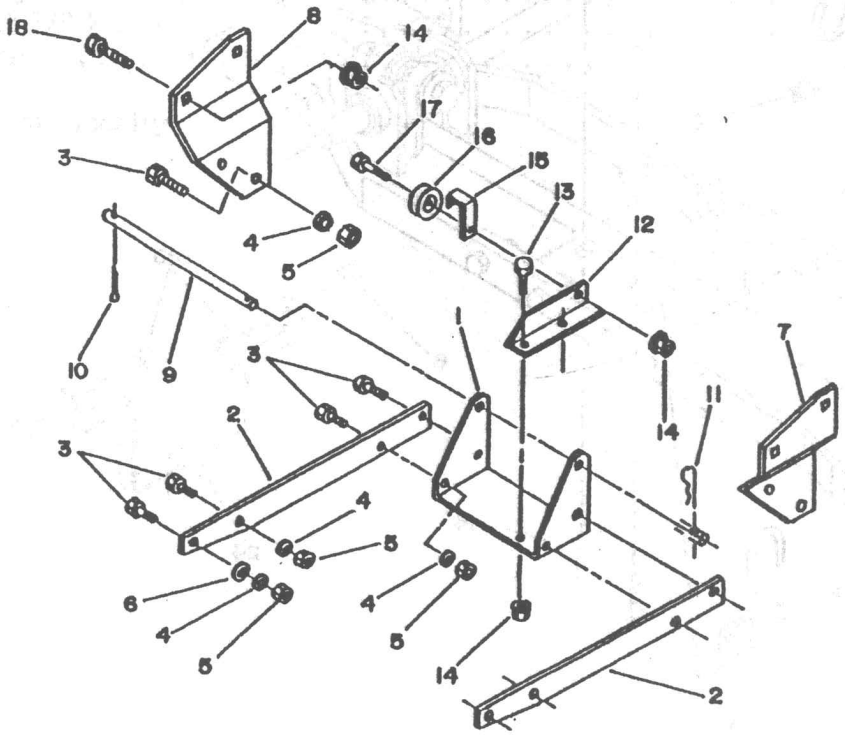
* O/L = Obtain locally



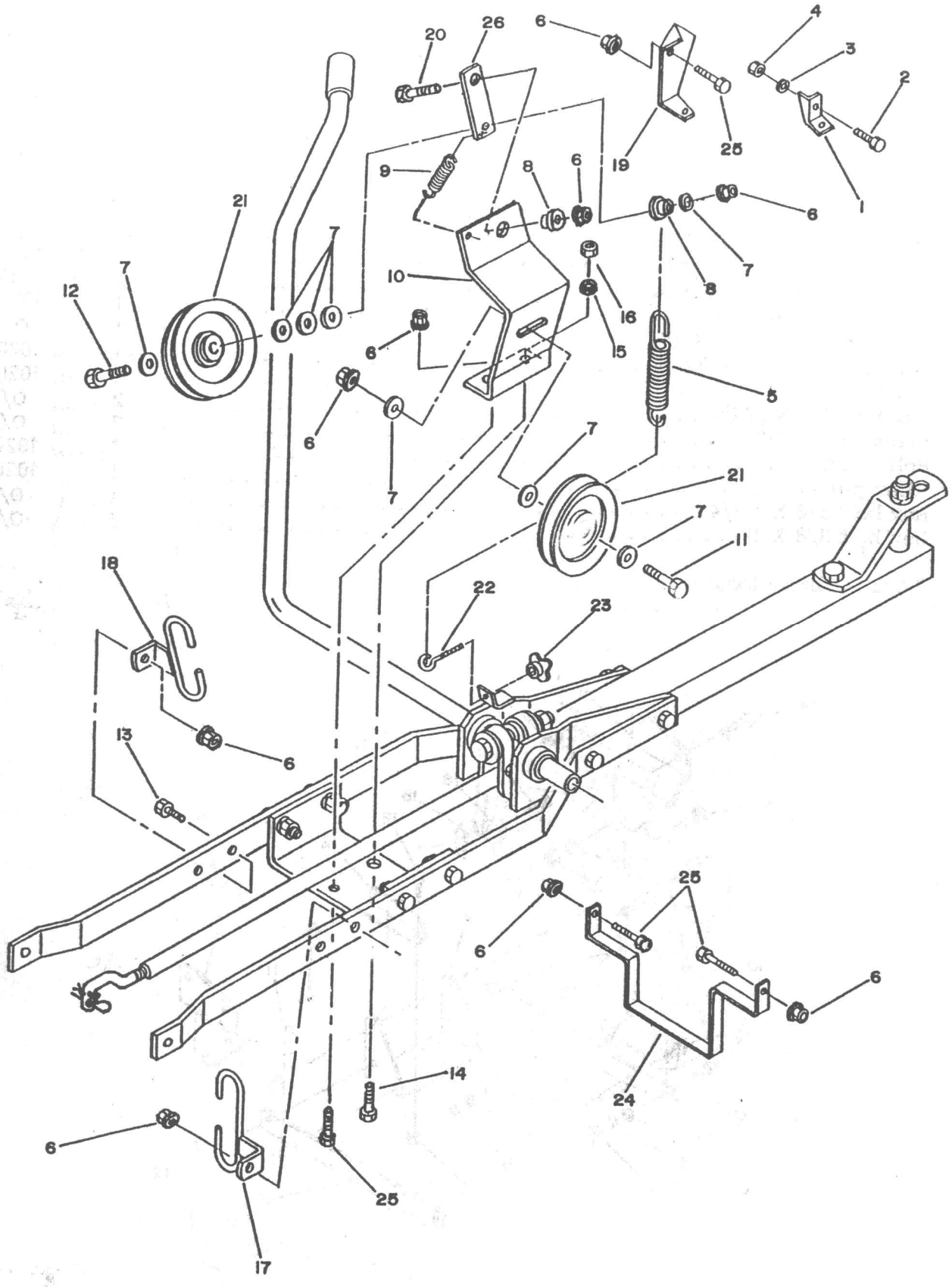
PUSH FRAME

REF	DESCRIPTION	QTY	PART NO.
1	Pivot support	1	102049
2	Attaching flat bar	2	102050
3	Hex bolt 7/16 X 1 1/4"	10	O/L
4	Lock washer 7/16"	10	O/L
5	Hex nut 7/16"	10	O/L
6	Flat washer 1/2" dia. hole	2	O/L
7	Front support bracket L.H.	1	102051
8	Front support bracket R.H.	1	102052
9	Pivot pin	1	102053
10	Cotter pin 5/32 dia. X 1"	1	O/L
11	Hair pin 4mm dia. X 80mm	1	102054
12	Idler support	1	102055
13	Hex bolt 3/8 X 3/4"	2	O/L
14	Flange nut 3/8"	7	O/L
15	Belt guide	1	102056
16	Idler pulley	1	102057
17	Hex bolt 3/8 X 1 3/4"	1	O/L
18	Hex bolt 3/8 X 1"	4	O/L

* O/L = Obtain locally



DRIVE MECANISME



DRIVE MECANISME

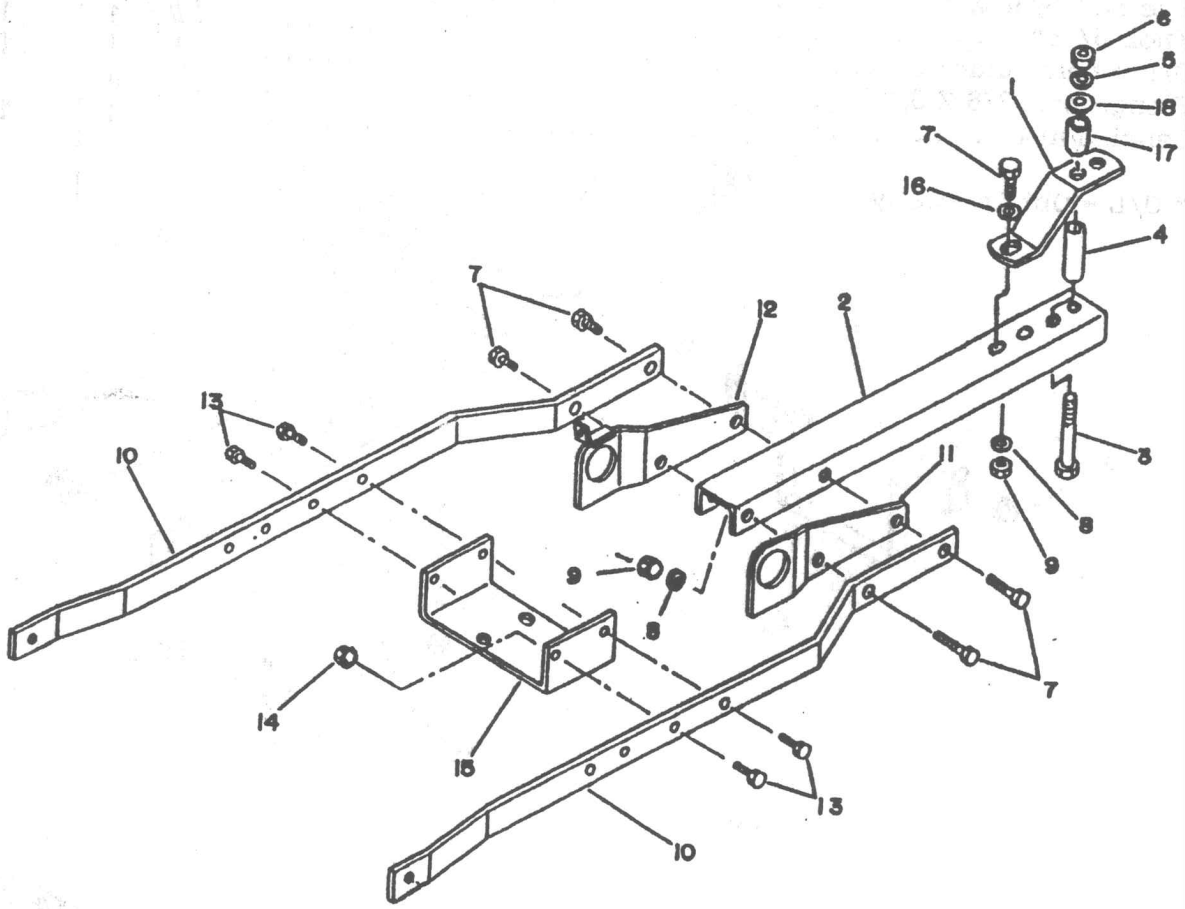
REF	DESCRIPTION	QTY	PART NO.
1	Clutch bracket	1	102080
2	Bolt 1/2 X 1"	1	O/L
3	Lock washer 1/2"	1	O/L
4	Nut 1/2"	1	O/L
5	Spring 1 1/8"	1	102004
6	Flange nut 3/8"	9	O/L
7	Flat washer 7/16" dia. hole	8	O/L
8	Flange washer	2	102081
9	Spring 1/2" dia.	1	102003
10	Pulley support bracket	1	102082
11	Bolt 3/8 X 1 3/4"	1	O/L
12	Bolt 3/8 X 2 1/2"	1	O/L
13	Bolt 3/8 X 1"	1	O/L
14	Bolt 7/16 X 1"	1	O/L
15	Lock washer 7/16"	1	O/L
16	Nut 7/16"	1	O/L
17	Belt guide L.H.	1	102083
18	Belt guide R.H.	1	102084
19	Clutch lever	1	102085
20	Bolt 3/8 X 1 1/4"	1	O/L
21	Pulley idler	2	102086
22	Eye bolt 5/16 X 5"	1	102087
23	Knob 5/16"	1	102020
24	Drive belt guide	1	102088
25	Flange bolt 3/8 X 3/4"	4	O/L
26	Tension arm	1	102089

* O/L = Obtain locally

SUBFRAME

REF	DESCRIPTION	QTY	PART NO.
1	Hitch plate	1	102064
2	Channel	1	102065
3	Bolt 5/8 X 4"	1	O/L
	Bolt 5/8 X 6"	1	O/L
4	Tube spacer	1	102066
5	Lock washer 5/8"	1	O/L
6	Hex nut 5/8"	1	O/L
7	Hex bolt 7/16 X 1 1/4"	5	O/L
8	Lock washer 7/16"	5	O/L
9	Hex nut 7/16"	5	O/L
10	Subframe flatbar	2	102067
11	Lift support bracket L.H.	1	102068
12	Lift support bracket R.H.	1	102069
13	Hex bolt 3/8" X 1"	4	O/L
14	Flange nut 3/8"	4	O/L
15	Support plate	1	102070
16	Flat washer 1/2" dia. hole	1	O/L
17	Tube spacer	1	102071
18	Flat washer 11/16" dia. hole	1	O/L

* O/L = Obtain locally



LIFT MECHANISM ASSEMBLY

REF	DESCRIPTION	QTY	PART NO.
1	Hex bolt 3/8 X 2 1/4"	2	O/L
2	Lock nut 3/8"	2	O/L
3	Lift lever	1	102072
4	Adjustment rod	1	102073
5	Push arm	1	102112
6	Pin 17/32 X 2 1/4"	1	102079
7	Cotter pin 5/32 dia. X 1"	2	O/L
8	Bearing flange	2	102075
9	Lift arm	1	102076
10	Tube spacer	2	102077
11	Bolt 5/8 X 4"	1	O/L
12	Flat washer 11/16" dia. hole	2	O/L
13	Bent retainer plate	2	102078
14	Lock washer 5/8"	1	O/L
15	Nut 5/8"	1	O/L
16	Hair pin 4mm dia. X 80mm	1	102054
17	Handle grip	1	102025

* O/L = Obtain Locally