

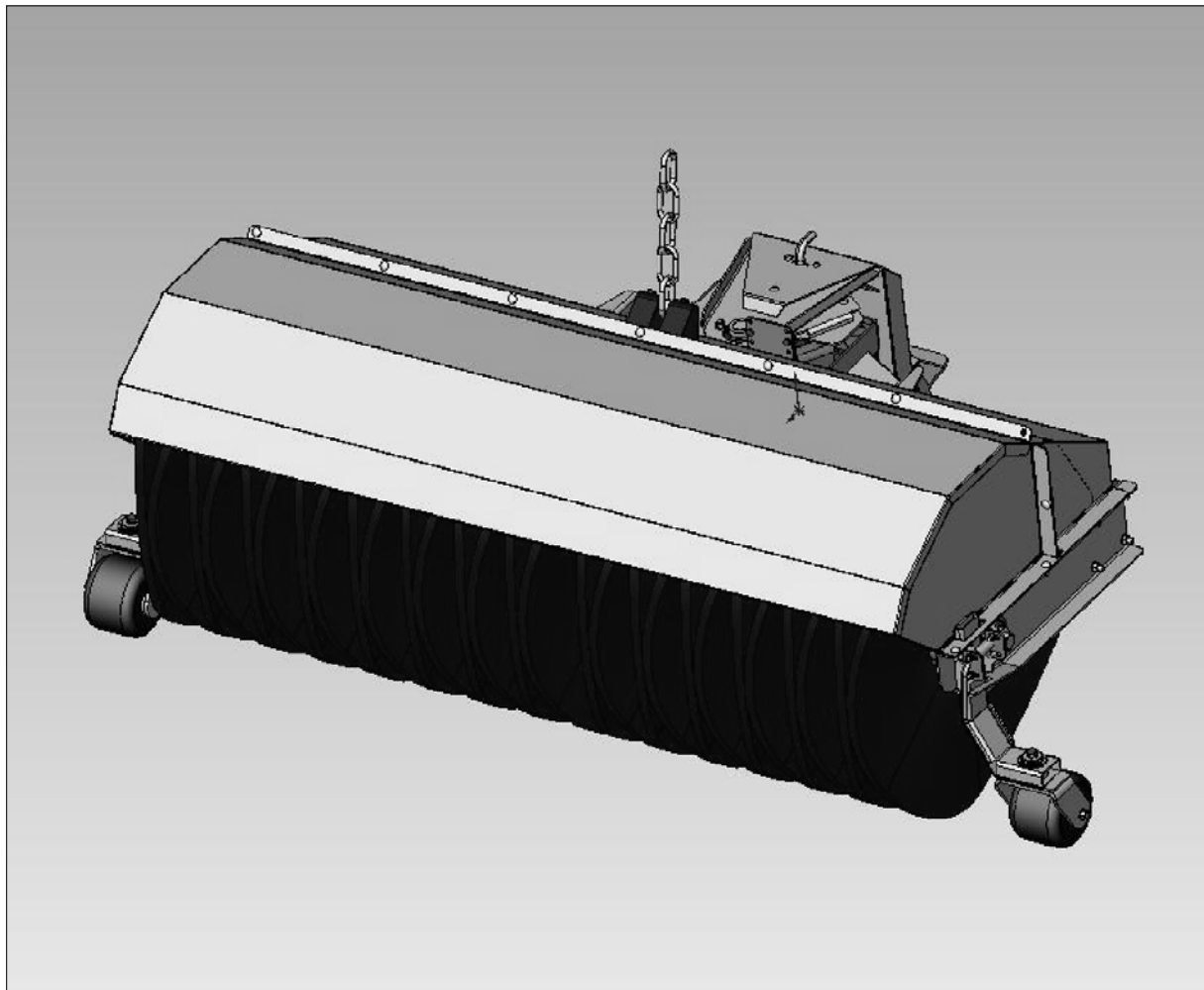


Power Brush PB60 06

Assembly/Operators/Parts Manual

English Language Version 06

Printed: September 2006



READ & SAVE THIS MANUAL

QUADIVATOR INC.
1000 6th Ave. NE
Portage La Prairie, MB
Canada, R1N 3C5
www.quadivator.com

Part #: 89754A

QUADIVATOR WARRANTY POLICY

The warranty for the Quadivator Product is a limited warranty.

The manufacturer's warranty to the original customer is - the product is free from defects in materials and workmanship for a period of one (1) year from the date of purchase by the original purchaser.

We will repair or replace, at our discretion, parts found to be defective due to materials and workmanship.

The warranty is subject to the following limitations and exclusions:

1. Engine Warranty - all engines utilized on our products have a separate warranty extended to them by the engine manufacturer. Any engine service difficulty is the responsibility of the engine manufacturer and in no way is Quadivator Inc. or its agents responsible for the engine warranty. The Briggs & Stratton Engine Service Hot Line is 1-800-233-3723.

2. Commercial Use - the warranty period for any product used for commercial or rental use is limited to ninety (90) days from the date of original purchase.

3. Limitations - the warranty applies only to products which have been properly assembled, adjusted and operated in accordance with the instructions contained within this manual. The warranty does not apply to any product of Quadivator Inc. that has been subject to alteration, misuse, abuse, improper assembly or installation, shipping damage or normal wear of the product.

4. Exclusions - excluded from this warranty are normal wear, normal adjustments and normal maintenance.

In the event you have a claim under this warranty, you must return the product to an authorized service dealer. All transportation charges, damage or loss incurred during transportation of parts submitted for replacement or repair under this warranty shall be borne by the purchaser. Should you have any questions concerning this warranty, please contact us toll-free at 866 770-2169 or on our web-site at www.quadivator.com. The model, serial numbers, date of purchase and the name of the authorized Quadivator dealer from whom you purchased the Quadivator Product will be needed before any warranty claim can be processed.

This warranty does not apply to any incidental or consequential damages and any implied warranties are limited to the same time periods stated for all expressed warranties. Some provinces and states do not allow the limitation of consequential damages or limitations on how long an implied warranty may last, so the above limitations may not apply to you. This warranty gives you specific legal rights and you may have other rights, which vary from province to province or state to state.

This is a limited warranty as defined by the Magnuson-Moss Act of 1975.

FOREWORD

Congratulations on the purchase of your new Quadivator PB60 Power Brush. To obtain the best use of your Power Brush, read this manual *carefully*. It will help you become familiar with the operation and maintenance of the Quadivator PB60. It is Quadivator Policy to use all research, design and manufacturing improvements to improve our Power Brush. At the time of printing, this may result in some of the minor parts in the manual becoming outdated.

Quadivator will have the most up to date parts and service information – call 866 770-2169 for service information and parts orders!

Contact Information

Quadivator Inc.
1000 – 6th Ave NE
Portage la Prairie, MB
Canada, R1N 3B5

E-mail: mailbox@quadivator.com
Website: www.quadivator.com
Tel. 866-770-2169
Fax. 204-239-4271



SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the device itself to warn the possibility of personal injury.

Read these instructions carefully.

It is essential that you read the instructions and safety regulations before you attempt to assemble or use this brush.



DANGER

Indicates an imminent hazardous situation, which if not avoided, will result in death or serious injury.



WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

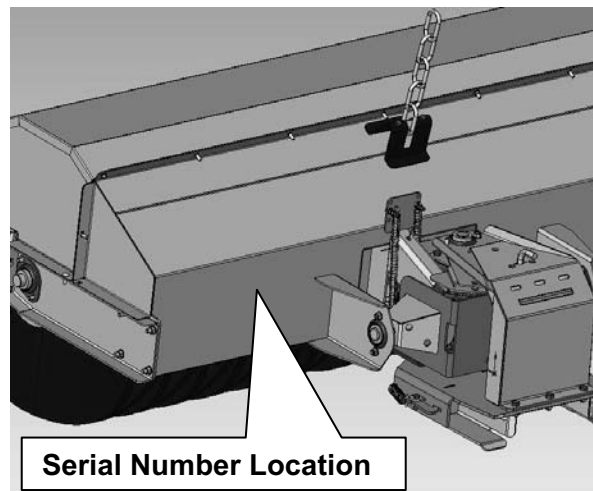


CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

Table of Contents

1. Safety First	i
2. Pre-delivery Checklist	iii
3. Owners Registration & Delivery Checklist	iv
4. Safe Operation	1
5. Setup & Operation	2
Brush Mounting	2
Angle Adjustment	2
Gage Wheels	3
General Operation	3
Storage	3
Maintenance	3
6. Replacement Parts	5
7. Warranty Registration	17



PRE- DELIVERY CHECKLIST

Check off all items as they are found satisfactory or after adjustments are made:

- ☐ All safety shields and guards are securely in place!
- ☐ All decals are in place and readable!
- ☐ All fasteners are securely tight



CAUTION

To help prevent personal injury from thrown objects, never walk or stand in the front area of the brush during run-in or operation!

- ☐ Start the Quadivator Power Brush and allow it to run for 5 – 10 minutes, check for excessive operation or unusual noise.
- ☐ The Quadivator Power Brush has been tested and to the best of my knowledge, is ready to be delivered to the customer!

Date Pre-delivered –

Signature –

OWNER'S REGISTRATION

Name –

Address –

City/Town –

State/Prov. –

Postal/Zip (Mail) Code –

Model & Serial # –

Date Sold –

DELIVERY Checklist

- ☐ Tell the customer not to remove any of the safety shields or guards.
- ☐ Review the Quadivator Warranty with customer.
- ☐ Review with the customer the Safe Operation and Service of the Power Brush.
- ☐ Review with the customer the Daily and Periodic Maintenance.
- ☐ Review with the customer the Daily and Periodic Inspections.
- ☐ Parts & Service Availability.

Prior to delivery to the customer, do the following:

- ☐ Record Serial Numbers for the Quadivator Products
- ☐ Sign and remove this section for the dealer's record.
- ☐ Give the customer the Operator's Manual and encourage the customer to read the manual.

Date Delivered –**Signature –**

SAFE OPERATION



DANGER

Failure to observe the following safety instructions could result in serious injury and or death.

1. GENERAL OPERATION

- .1 Read the operating and service instruction manual *carefully*.
- .2 Become thoroughly familiar with the controls and the proper use of the equipment. Know how to stop the unit and disengage the controls quickly.
- .3 Allow only responsible adults, who are familiar with the instructions, to operate this machine. Never allow children to operate the equipment.
- .4 Be sure the area is clear of bystanders, children and pets before operating. Stop machine if anyone or anything enters the area.
- .5 NEVER CARRY PASSENGERS while sweeping with the PB60



While operating, ALWAYS attach the clip end of the Tether Cord to your belt, until you dismount from the ATV. The switch the cord is attached to will shut off the engine if pulled deliberately or by inadvertent dismount from the ATV seat.

- .6 Thoroughly inspect the area where the equipment is to be used and remove all foreign objects.
- .7 Disengage clutch on ATV and shift ATV into neutral before starting the engine (motor). Refer to the safety section in the ATV operators manual
- .8 Never attempt to make adjustments while the engine (motor) is running
- .9 Always wear safety glasses or eye shields: during operation, while performing an adjustment or repairs; to protect eyes from foreign objects that may be thrown from the machine.
- .10 Maintain or replace safety and instruction labels, as necessary. Never tamper with safety devices and check their proper operation regularly.

2. GENERAL DEVICE OPERATION

- .1 Do not put hands or feet near or under rotating parts.
- .2 Exercise extreme caution when operating on or crossing gravel drives, walks or roads. Stay alert for hidden hazards and traffic.
- .3 After striking a foreign object; stop the engine (motor) remove the wire from the spark plug, thoroughly inspect the brush for any damage, and repair damage before restarting and operating the brush.
- .4 If the unit should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
- .5 Stop the engine (motor) whenever you leave the operating position, before making any repairs, adjustments or inspections.
- .6 Take all possible precautions when leaving the machine unattended. Disengage the drive, lower the attachment, set the parking brake, stop the engine and remove the key.
- .7 Before cleaning, repairing or inspecting, make certain all moving parts have stopped. Disconnect the spark plug wire and place the wire away from the plug to prevent accidental starting.
- .9 Do not operate across the face of slopes. Exercise extreme caution when changing direction on slopes. Do not attempt to clear steep slopes.
- .10 Never operate the brush without provided guards, plates or other safety protective devices in place.
- .11 Never operate the machine at high transport speed and use care when backing up!
- .12 Never allow anyone in front of the unit.
- .13 Disengage power to the brush when transporting or not in use.
- .14 Never operate the power brush without good visibility or good light.

3. SET-UP & OPERATION

-i- BRUSH MOUNTING

**Refer to the Power Unit operator's manual for instructions on assembly of the Power Unit.*

1. Loosen the motor plate on the Power Unit (Refer to Power Unit Manual for illustration)
2. Take the belt, slide over pulley on broom and the upper pulley on the Interframe (Figure 3-1).

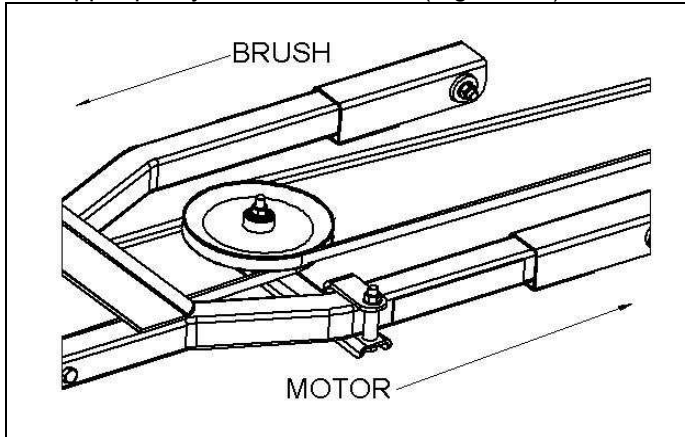


Figure 3-1

3. Tighten the motor plate on the Power Unit
4. Engage both locking clips on the brush (one on each side) as shown in Figure 3-2.

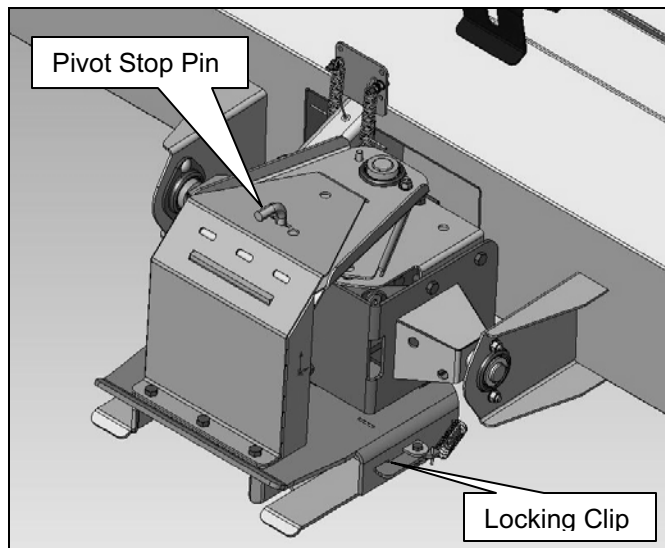


Figure 3-2

5. Attach the winch cable to the last chain link to prevent the brush from hitting the ATV when winch is reeled in. Depending on winch location on the ATV, a higher lift is required to use the second link, but only if it cannot interfere with the ATV when lifted.

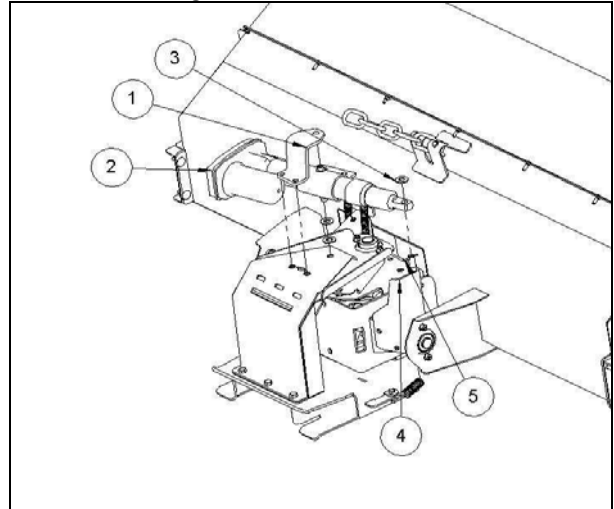
-ii- ANGLE ADJUSTMENT

Manual

Remove Pivot stop pin (shown in Fig 3-2) and manually adjust angle by rotating brush to desired angle and reinsert pin

Electrical Pivot (Option)

An electrical pivot option is available and is setup as shown in the Figure 3-3



1. Bracket. 2. Actuator. 3. Washers. 4. Bracket. 5. Pin

Figure 3-3

Attach the supplied wiring harnesses to the ATV as shown in Figure 3-4.

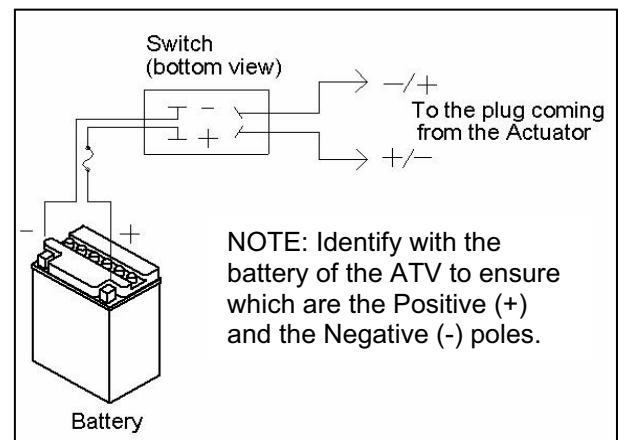


Figure 3-4

Attach the switch to the front rack of the ATV with the bracket.

WHEN IN USE: Attach the clip end of the Tether Cord to your belt, until you dismount the ATV. The switch the cord is attached to: will shut off the engine if pulled deliberately or by inadvertently dismounting from the ATV seat.

Gage Wheels

1. The gage wheels (one on each side) are to be used on surfaces that are not hard enough for the full weight of the brush, such as sweeping leaves on grass. The wheels are not needed for hard surfaces, such as concrete or asphalt.
2. *When not used:* the gage wheel assemblies can be removed from the unit OR stored upside down in the same holder and tightened (refer to procedure 3).
3. Lift the Brush and adjust the wheels to the desired height, depending on the degree of aggressive desired. Secure the gage wheels with the offset locking pins (Figure 3-5) to achieve proper locking tightness.

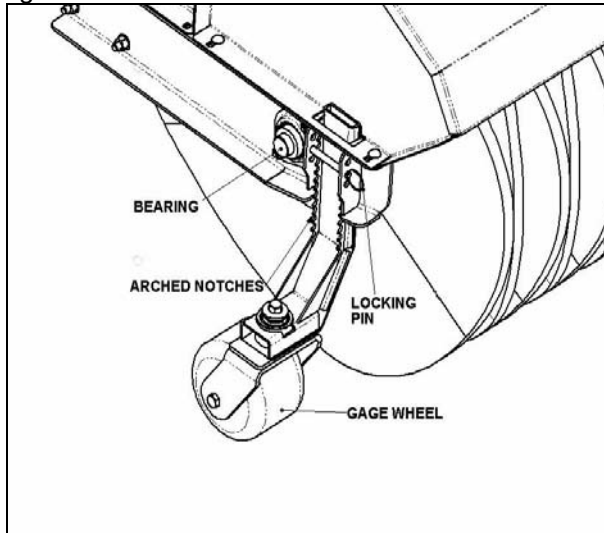


Figure 3-5

GENERAL OPERATION

1. Start brush engine and warm up at LOW RPM.
2. Increase engine RPM to desired speed and start operating. Refer to the Power Unit Manual for illustrations and operation of throttle controls).
3. Operate brush so wind blows debris away from operator, engine and power unit.

4. For a longer lasting brush; take note of the following:
 - a) More pressure does not produce a better sweep
 - b) A level brush lasts longer.
 - c) The faster the ground speed, the faster the brush will wear.
 - d) More aggressive brush down pressure will reduce brush life.
5. Drive at low speed.
6. When climbing curbs or loading brush on trailer, raise brush to maximum height and drive slowly. The bristles might come in contact with curb or trailer ramp.

STORAGE

1. Keep all nuts, bolts and screws properly tightened. This maintains the unit in good working condition.
2. Remove weight from brush bristles by putting blocks under the frame and setting up gage wheels to maintain brush to floor clearance.
3. Refer to Power Unit manual on storage instruction for the Power Unit

MAINTENANCE

1. Refer to the engine manual for servicing and lubrication specifications and intervals.
2. Clean engine air cleaner frequently (hourly, if necessary, if subject to a lot dust).
3. Clean debris from engine and gearbox area after each use.
4. The gearbox is sealed and therefore the oil level cannot and is not required to be checked.
5. Bristles wear off after time and will be in need of replacement:
 - a. Disconnect the roller chain that attaches the gearbox to sprocket on the brush.
 - b. Remove the bolted front shield for easier access, if desired, but not necessary.
 - c. Remove the bearing (Figure 3-5) on each side of the brush and slide out the shaft.
 - d. Remove bolts from bristle shaft and replace all bristles at once.

NOTE: Refer to pages 10 to 13 of the Parts Replacement Section of this manual.

NOTE: Bristles must be replaced all at once or uneven sweeping will occur. The longer bristles will wear off faster.

6. Replacing and Adjusting belt and belt tension:
 - a. Belt tension is determined by the position of the motor on the Power Unit. To adjust the tension; loosen the motor bolts on the Power Unit and slide the motor until proper tension is achieved.
 - b. To replace the belt; perform the previous step and unlock locking clips as shown in Figure 3-2 and replace belt. See Figure 3-7, Belt Drive Schematic.

NOTE: As the engine is moved rearward on the power unit, the spring loaded idler pulley (under the gearbox of the Power Brush) will come under greater tension.

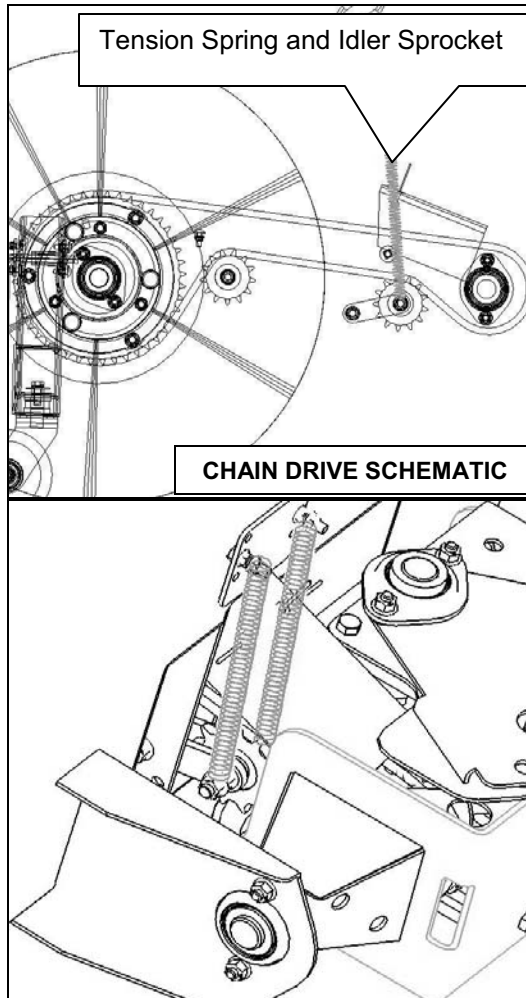


Figure 3-6

7. Servicing the roller chain that drives the rotor:
 - a. To replace the roller chain, remove the bolts that hold the springs on the idler. Remove springs, Figure 3-6.
 - b. Find the connector link on the chain and disconnect.
 - c. Roll chain out and insert the replacement.
 - d. For easier access to the sprocket on the rotor, remove the top cover on the brush assembly before replacing chain.

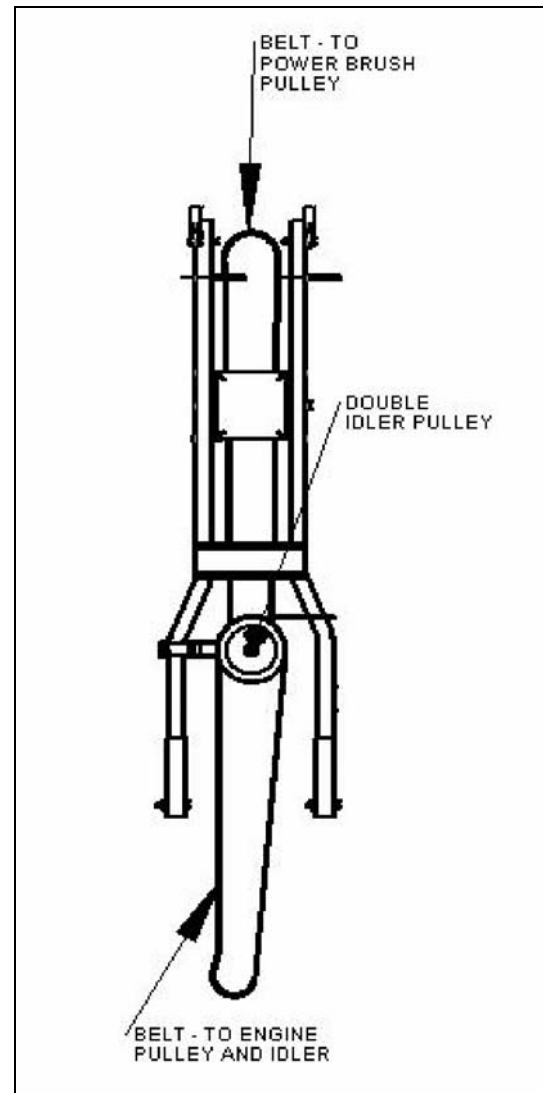


Figure 3-7: Belt Drive Schematic

4. REPLACEMENT PARTS

The following pages contain parts illustrations and replacement part numbers for all components for the Quadivator Power Brush. At the time of printing, some of the minor parts in the manual may become outdated.

To obtain replacement parts, please contact your Quadivator Dealer for service. To locate the nearest dealer, please contact a Quadivator Representative using the contact information at the beginning of the manual.

When ordering parts – please have the following information on hand:

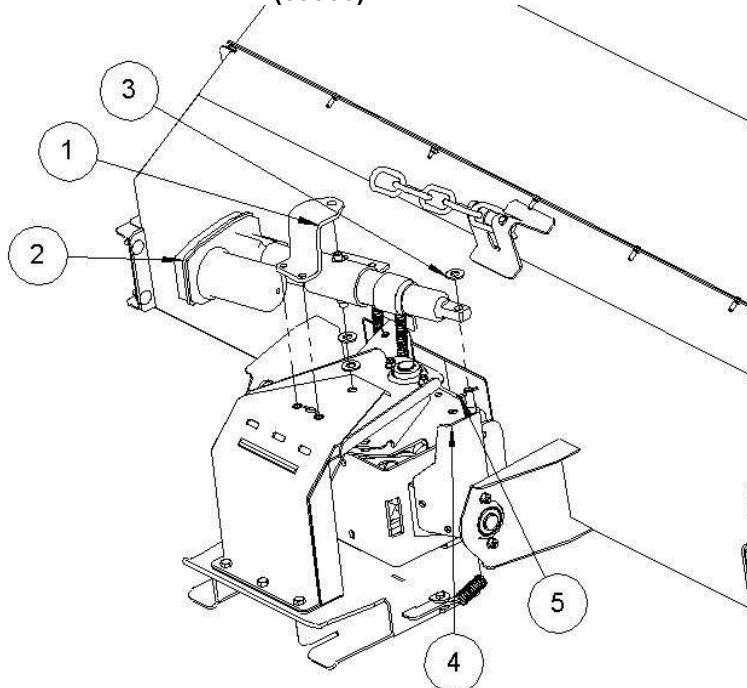
- *Part Number you are looking for.*
- *Model Number and Serial Number of the machine.*
- *Quantity required.*

To ensure warranty support for your Quadivator, please fill out the Warranty Registration Card located at back of the Operator's Manual.

Power Brush Sub-assemblies

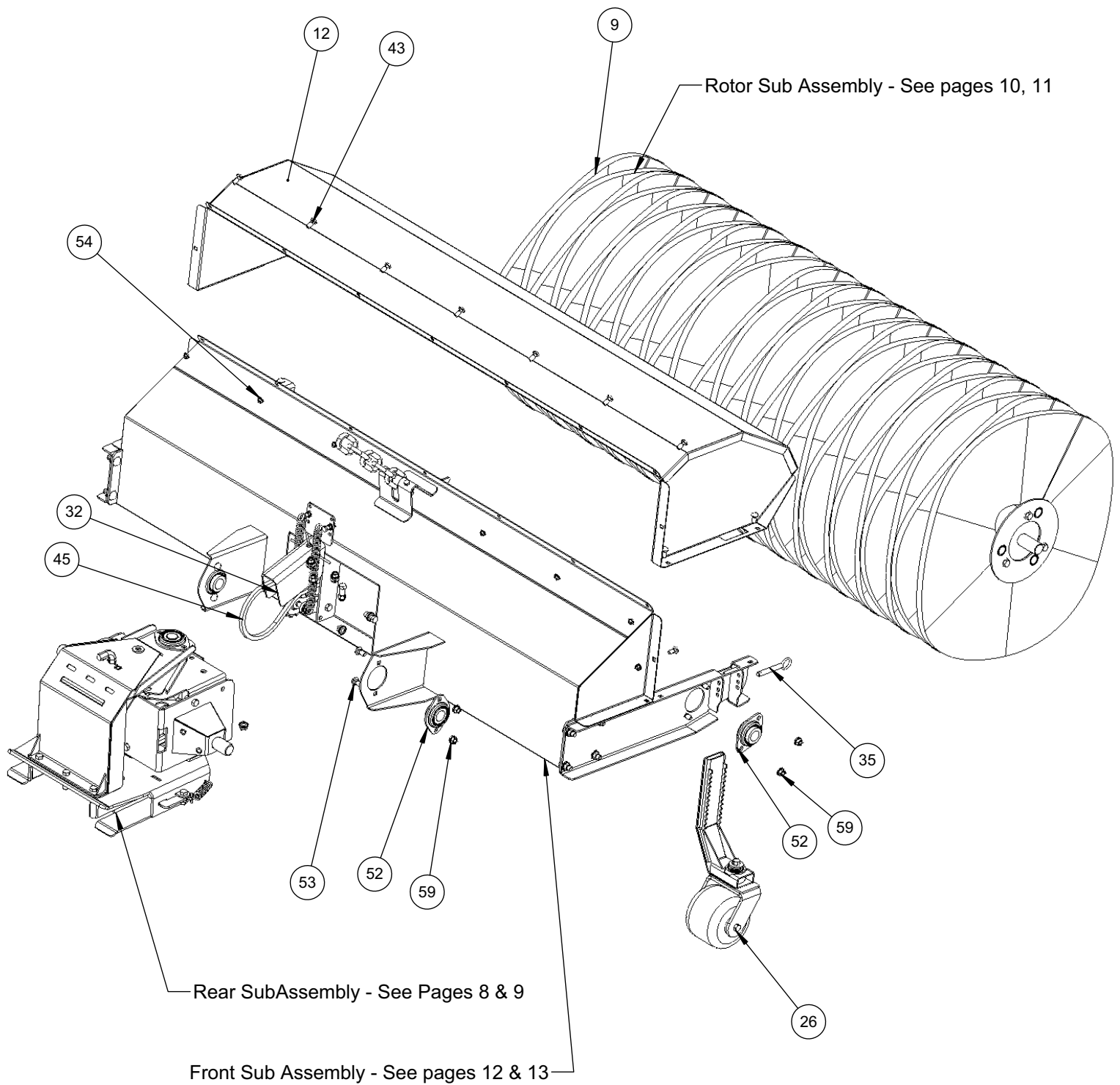
Electrical Brush Pivot Option

(89900):



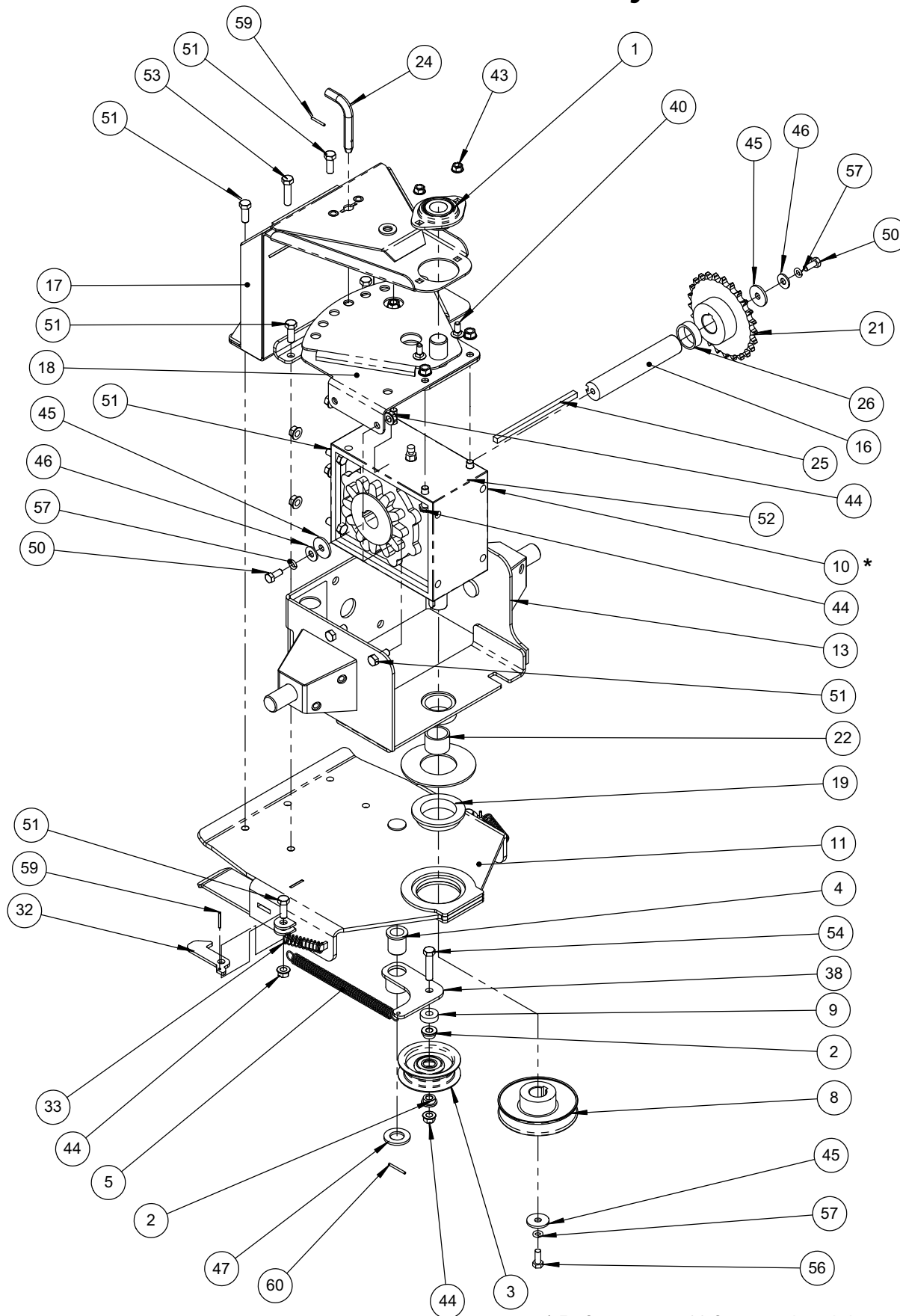
ITEM	QTY.	PART	DESCRIPTION
1	1	89906	Bracket - Actuator Base
2	1	86031	Actuator
3	3	FW.5N	Flat Washer 1/2 SAE
4	1	89915	Weld't -Actuator Rod End
5	1	CTP.125x1	Cotter Pin 1/8 x 1
6	1	89930	Actuator Switch/Wiring Harness (not shown)

Shields and Sub Assemblies



ITEM	Qty	PART	DESCRIPTION
1	2	88540	Spacer - Bushing
2	1	88574	Idler Pulley - 3"
3	1	88579	UNMW - Flange Bearing
4	3	88651	Spring, Extension - Tensioner Arm
5	1	89075B	Weld't -Pulley 4.5" 'B' x 24 Bore
6	1	89529	Spacer - Pulley
7	1	89550	Gearbox, Worm - 10:1 RatiO
8	1	89705	W.A. - Mounting Frame
9	1	89710	Sub Assy -Brush Rotor
10	1	89715	W.A. - Frame, Brush
11	1	89725A	W.A. - Sweeper Arm, LH
12	1	89730	W.A. - Hood, Sweeper
13	1	89734	Drive Shaft - Sweeper
14	1	89740	Weldment - Anchor Pivot
15	1	89745	Weldment - Brace, Pivot
16	1	89751	Bushing - Gearbox Mount
17	1	89755A	W.A. - Sweeper Arm, RH
18	1	89760B	Sprocket - #50 X 25t
19	1	89788	Tube - Spacer
20	1	89812	Pin - Pivot Stop
21	1	89813	Key -5/16 x 100
22	1	89814	Bushing -Spacer-Sprocket
23	1	89830	Weld't-Rotor Frame Backbone
24	1	89846	Pin-Lift
25	1	89852	Thrust Washer -UHMW
26	2	89855A	Assy - Gage Wheel -Optional
27	1	89860	Stud Bolt -3/8-16 NC x 80
28	2	89863	Latch
29	2	89865	Spring-Comp-.625 OD x 2.75FL x .054Wire
30	2	89887	Idler Sprocket 50 Pitch x 13t -17mm ID
31	2	89889	Bracket - Tensioner Mount
32	1	89909	Shield - Belt -Rubber
33	1	89910	Chain Assy - Lift
34	1	89935	Weld't -Idler Pivot
35	2	QRP .313x2-30	Pin - Quick Release
36	3	LW.313	Lockwasher-5/16
37	4	HB.375x1.25	Hex Head Bolt 3/8-16 X 1 1/4
38	1	HB.375x1.5	Hex Head Bolt 3/8-16 X 1 1/2
39	4	RP.125x1	Roll Pin- 1/8 x 1
40	2	FW.313	Flat Washer 5/16 Std
41	2	HB.313x.75	Hex Head Bolt 5/16-18 X 3/4
42	8	CB.375x1	Carriage Bolt 3/8 x 1
43	14	CB.25x3/4	Carriage Bolt 1/4 x 3/4
44	2	HB.25x1.5	Hex Head Bolt 1/4-20 X 1 1/2
45	1	89809A	Chain -#50 x 105P w/ Conn
46	2	HB.25x1	Hex Head Bolt 1/4-20 X 1
47	3	70924280	Pop Rivet, Aluminum 1/8 Dia x .390 Long
48	1	FW.75N	Flat Washer 3/4 SAE
49	1	HB.375x1.75	Hex Head Bolt 3/8-16 X 1 3/4
50	1	HBm8x20	Hex Bolt M8 x 1.25 x 20
51	6	TLN.375	Nut, Hex Top Lock 3/8-16 UNC Gr 5 Zn Plt
52	5	14618	Brg Unit-Prssd Stil Hsng SBPFL205-16
53	10	CB.313x3/4	Carriage Bolt 5/16 x 3/4
54	19	FHN.25	Flange Lock Nut-1/4 NC Uнитарque
55	1	HB.375x2	Hex Head Bolt 3/8-16 X 2
56	3	FlatWasher	Flt Fndr Wshr 3/8"IDx1.25"ODx.125 Thk
57	26	Nut-FlangLock	Flange Lock Nut-3/8 NC Uнитарque
58	12	hexheadbolt	Hex Head Bolt 3/8-16 X 1
59	10	Nut-FlangLock	Flange Lock Nut, Uнитарque 5/16 NC

Gearbox Assembly

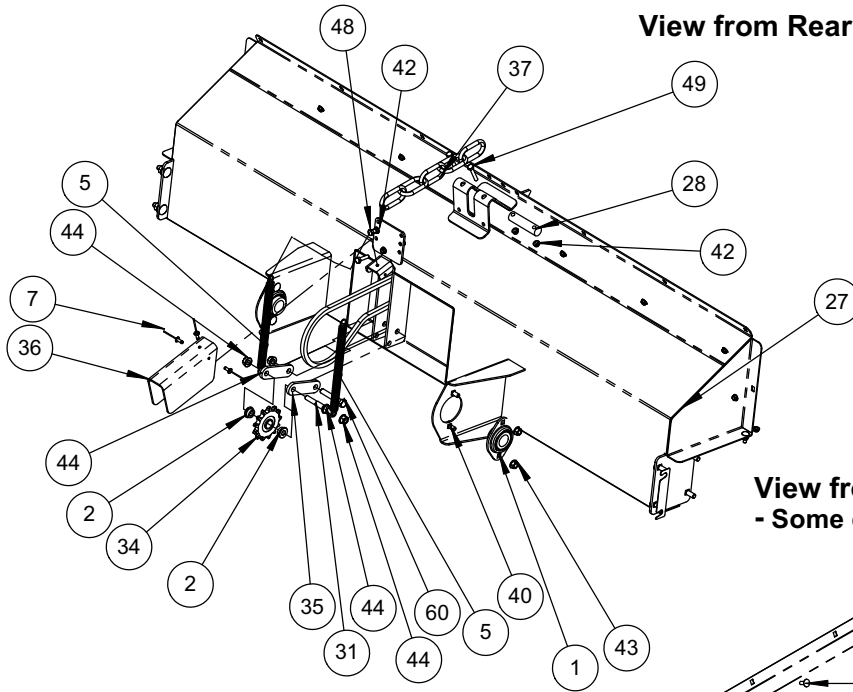


* Refer to page 16 for parts breakdown of the gearbox.

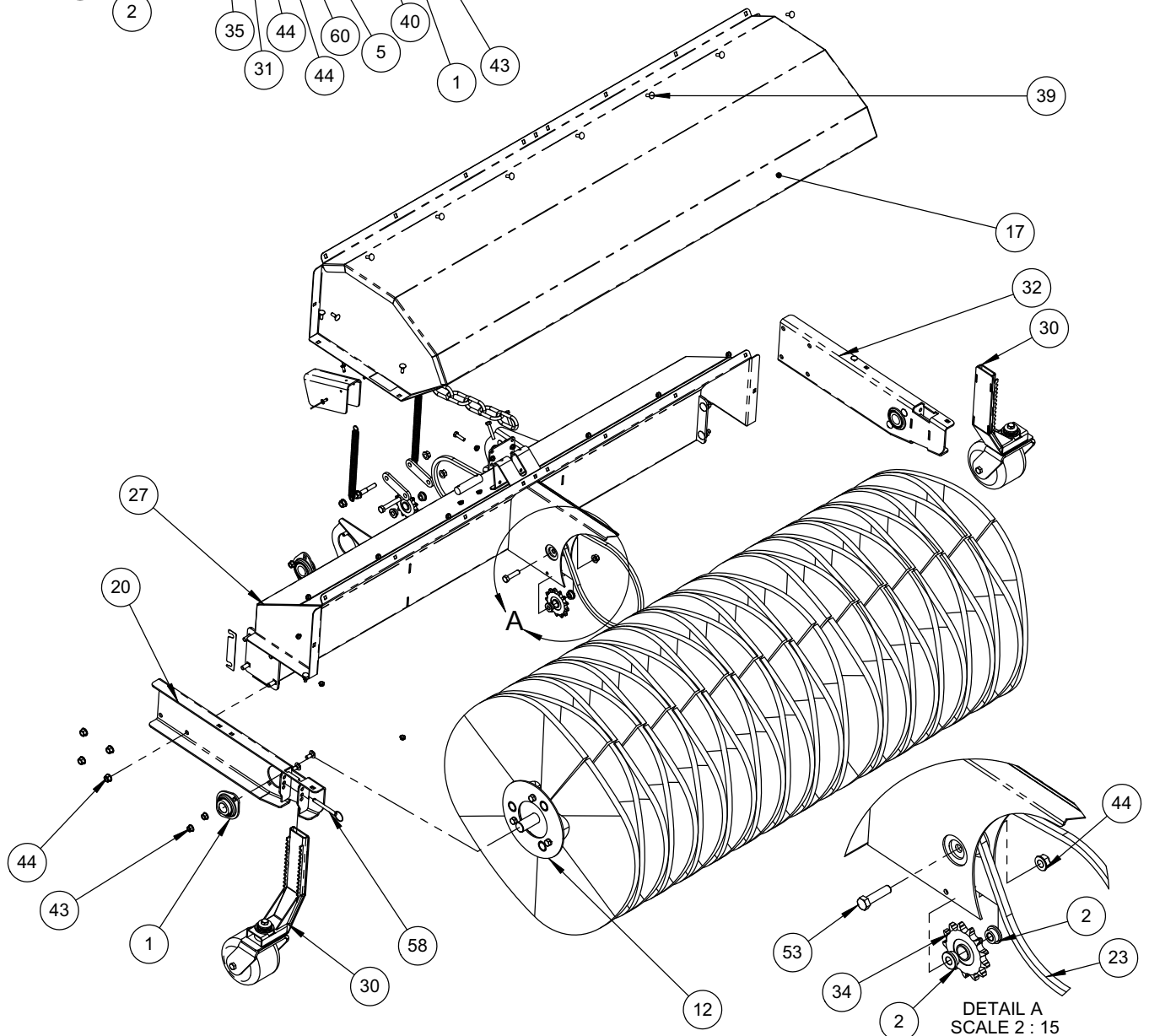
ITEM	Qty	PART	DESCRIPTION
1	5	14618	Brg Unit-Prssd Stil Hsng SBPFL205-16
2	2	88540	Spacer - Bushing
3	1	88574	Idler Pulley - 3"
4	1	88579	UNMW - Flange Bearing
5	3	88651	Spring, Extension - Tensioner Arm
6	1	89702	Shim, Power Brush Arm
7	3	70924280	Pop Rivet, Aluminum 1/8 Dia x .390 Long
8	1	89075B	Weld't -Pulley 4.5" 'B' x 24 Bore
9	1	89529	Spacer - Pulley
10	1	89550	Gearbox, Worm - 10:1 Ratio
11	1	89705	W.A. - Mounting Frame
12	1	89710	Sub Assy -Brush Rotor
13	1	89715	W.A. - Frame, Brush
14	1	89725A	W.A. - Sweeper Arm, LH
15	1	89730	W.A. - Hood, Sweeper
16	1	89734	Drive Shaft - Sweeper
17	1	89740	Weldment - Anchor Pivot
18	1	89745	Weldment - Brace, Pivot
19	1	89751	Bushing - Gearbox Mount
20	1	89755A	W.A. - Sweeper Arm, RH
21	1	89760B	Sprocket - #50 X 25t
22	1	89788	Tube - Spacer
23	1	89809A	Chain -#50 x 105P w/ Conn
24	1	89812	Pin - Pivot Stop
25	1	89813	Key -5/16 x 100
26	1	89814	Bushing -Spacer-Sprocket
27	1	89830	Weld't-Rotor Frame Backbone
28	1	89846	Pin-Lift
29	1	89852	Thrust Washer -UHMW
30	2	89855A	Assy - Gage Wheel -Optional
31	1	89860	Stud Bolt -3/8-16 NC x 80
32	2	89863	Latch
33	2	89865	Spring-Comp-.625 OD x 2.75FL x .054Wire
34	2	89887	Idler Sprocket 50 Pitch x 13t -17mm ID
35	2	89889	Bracket - Tensioner Mount
36	1	89909	Shield - Belt -Rubber
37	1	89910	Chain Assy - Lift
38	1	89935	Weld't -Idler Pivot
39	15	CB.25x3/4	Carriage Bolt 1/4 x 3/4
40	10	CB.313x3/4	Carriage Bolt 5/16 x 3/4
41	8	CB.375x1	Carriage Bolt 3/8 x 1
42	21	FHN.25	Flange Lock Nut-1/4 NC Uitorque
43	10	FHN.313	Flange Lock Nut, Uitorque 5/16 NC
44	32	FHN.375	Flange Lock Nut-3/8 NC Uitorque
45	3	FNW.375x1.25X.12	Flt Fndr Wshr 3/8"IDx1.25"ODx.125 Thk
46	2	FW.313	Flat Washer 5/16 Std
47	1	FW.75N	Flat Washer 3/4 SAE
48	2	HB.25x1	Hex Head Bolt 1/4-20 X 1
49	2	HB.25x1.5	Hex Head Bolt 1/4-20 X 1 1/2
50	2	HB.313x.75	Hex Head Bolt 5/16-18 X 3/4
51	12	HB.375x1	Hex Head Bolt 3/8-16 X 1
52	3	HB.375x1.25	Hex Head Bolt 3/8-16 X 1 1/4
53	2	HB.375x1.5	Hex Head Bolt 3/8-16 X 1 1/2
54	1	HB.375x1.75	Hex Head Bolt 3/8-16 X 1 3/4
55	1	HB.375x2.25	Hex Head Bolt 3/8-16 X 2
56	1	HBm8x20	Hex Bolt M8 x 1.25 x 20
57	3	LW.313	Lockwasher-5/16
58	2	QRP .313x2-30	Pin - Quick Release
59	3	RP.125x1	Roll Pin- 1/8 x 1
60	1	RP.125x1.25	Roll Pin- 1/8 x 1 1/4

Brush Assembly

View from Rear - Some components hidden for clarity.



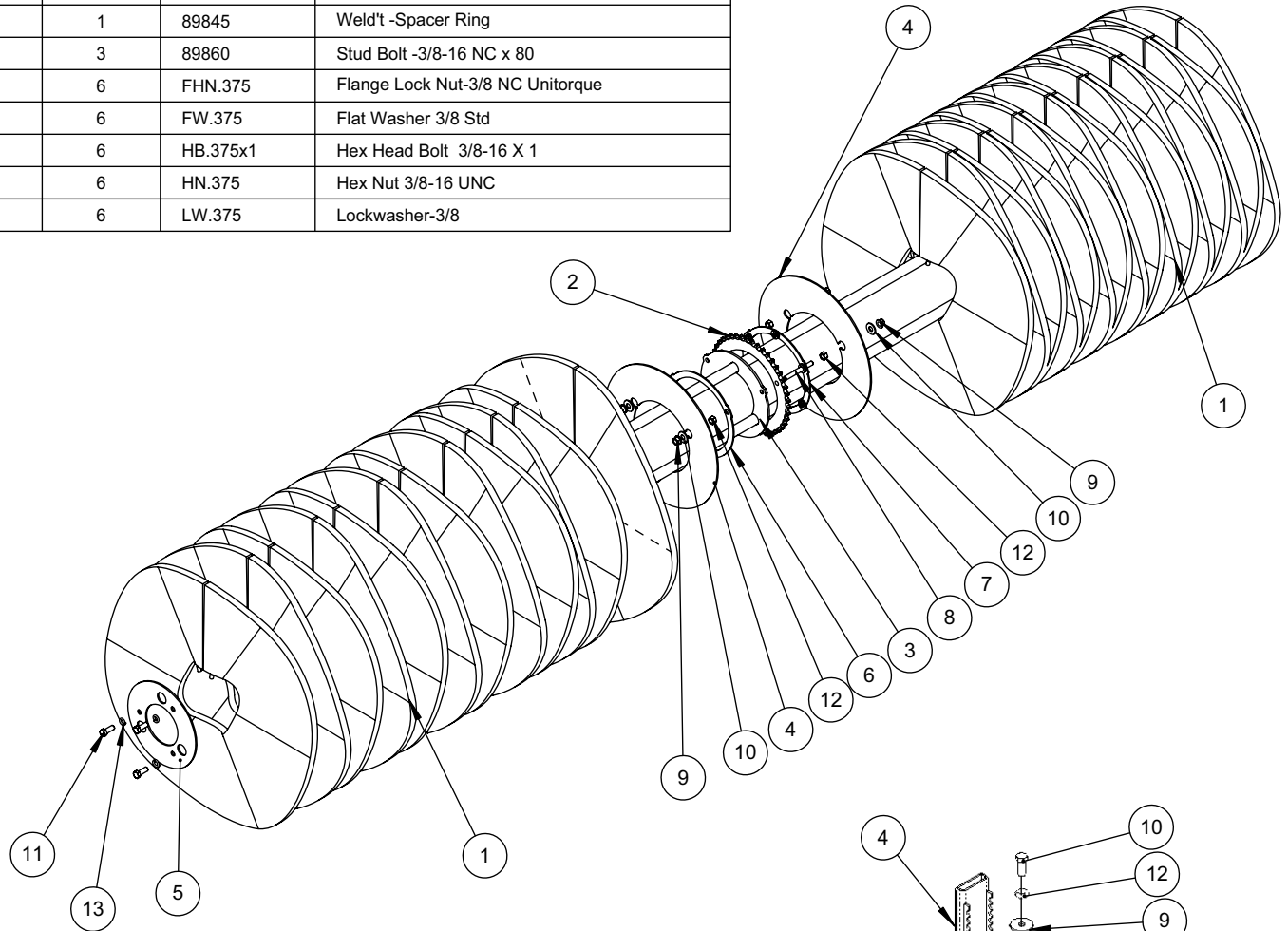
View from Front
- Some components hidden for clarity.



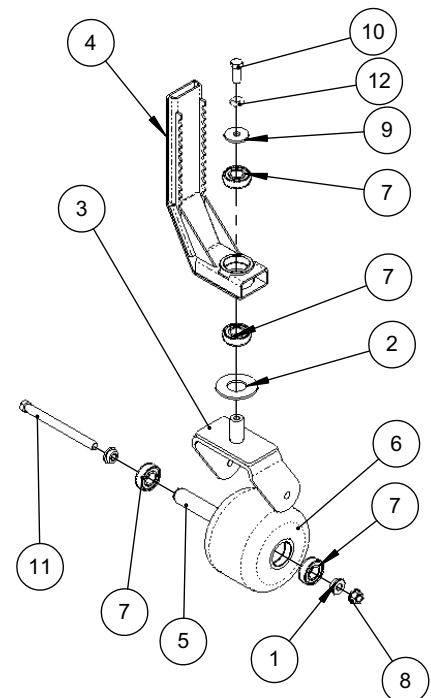
ITEM	Qty	PART	DESCRIPTION
1	5	14618	Brg Unit-Prssd Stl Hsng SBPFL205-16
2	6	88540	Spacer - Bushing
3	1	88574	Idler Pulley - 3"
4	1	88579	UNMW - Flange Bearing
5	3	88651	Spring, Extension - Tensioner Arm
6	1	89702	Shim, Power Brush Arm
7	3	70924280	Pop Rivet, Aluminum 1/8 Dia x .390 Long
8	1	89075B	Weld't -Pulley 4.5" 'B' x 24 Bore
9	1	89529	Spacer - Pulley
10	1	89550	Gearbox, Worm - 10:1 Ratio
11	1	89705	W.A. - Mounting Frame
12	1	89710	Sub Assy -Brush Rotor
13	1	89715	W.A. - Frame, Brush
32	1	89725A	W.A. - Sweeper Arm, LH
17	1	89730	W.A. - Hood, Sweeper
16	1	89734	Drive Shaft - Sweeper
17	1	89740	Weldment - Anchor Pivot
18	1	89745	Weldment - Brace, Pivot
19	1	89751	Bushing - Gearbox Mount
20	1	89755A	W.A. - Sweeper Arm, RH
21	1	89760B	Sprocket - #50 X 25t
22	1	89788	Tube - Spacer
23	1	89809A	Chain -#50 x 105P w/ Conn
24	1	89812	Pin - Pivot Stop
25	1	89813	Key -5/16 x 100
26	1	89814	Bushing -Spacer-Sprocket
27	1	89830	Weld't-Rotor Frame Backbone
28	1	89846	Pin-Lift
29	1	89852	Thrust Washer -UHMW
30	2	89855A	Assy - Gage Wheel -Optional
31	1	89860	Stud Bolt -3/8-16 NC x 80
32	2	89863	Latch
33	2	89865	Spring-Comp-.625 OD x 2.75FL x .054Wire
34	2	89887	Idler Sprocket 50 Pitch x 13t -17mm ID
35	2	89889	Bracket - Tensioner Mount
36	1	89909	Shield - Belt -Rubber
37	1	89910	Chain Assy - Lift
38	1	89935	Weld't -Idler Pivot
39	15	CB.25x3/4	Carriage Bolt 1/4 x 3/4
40	10	CB.313x3/4	Carriage Bolt 5/16 x 3/4
41	8	CB.375x1	Carriage Bolt 3/8 x 1
42	21	FHN.25	Flange Lock Nut-1/4 NC Uitorque
43	10	FHN.313	Flange Lock Nut, Uitorque 5/16 NC
44	32	FHN.375	Flange Lock Nut-3/8 NC Uitorque
45	3	FNW.375x1.25X.12	Flt Fndr Wshr 3/8"IDx1.25"ODx.125 Thk
46	2	FW.313	Flat Washer 5/16 Std
47	1	FW.75N	Flat Washer 3/4 SAE
48	2	HB.25x1	Hex Head Bolt 1/4-20 X 1
49	2	HB.25x1.5	Hex Head Bolt 1/4-20 X 1 1/2
50	2	HB.313x.75	Hex Head Bolt 5/16-18 X 3/4
51	13	HB.375x1	Hex Head Bolt 3/8-16 X 1
52	3	HB.375x1.25	Hex Head Bolt 3/8-16 X 1 1/4
53	1	HB.375x1.5	Hex Head Bolt 3/8-16 X 1 1/2
54	1	HB.375x1.75	Hex Head Bolt 3/8-16 X 1 3/4
55	1	RP.125x1.25	Roll Pin- 1/8 x 1 1/4
56	1	HBm8x20	Hex Bolt M8 x 1.25 x 20
57	3	LW.313	Lockwasher-5/16
58	2	QRP .313x2-30	Pin - Quick Release
59	3	RP.125x1	Roll Pin- 1/8 x 1
60	1	HB.375x2.25	Hex Head Bolt 3/8-16 X 2

**Brush Rotor Sub Assembly
89710**

ITEM	QTY.	PART	DESCRIPTION
1	28	88669	Wafer, Blue Poly Conv.
2	1	89517	Sprocket - 44 Tooth x 50 Pitch
3	1	89720	Weld't -Brush Rotor
4	2	89771	Chain Guide-Circular
5	2	89793	Plate - Retainer, Waffle
6	1	89833	Shim Spacer -Chain
7	1	89845	Weld't -Spacer Ring
8	3	89860	Stud Bolt -3/8-16 NC x 80
9	6	FHN.375	Flange Lock Nut-3/8 NC Unitorque
10	6	FW.375	Flat Washer 3/8 Std
11	6	HB.375x1	Hex Head Bolt 3/8-16 X 1
12	6	HN.375	Hex Nut 3/8-16 UNC
13	6	LW.375	Lockwasher-3/8

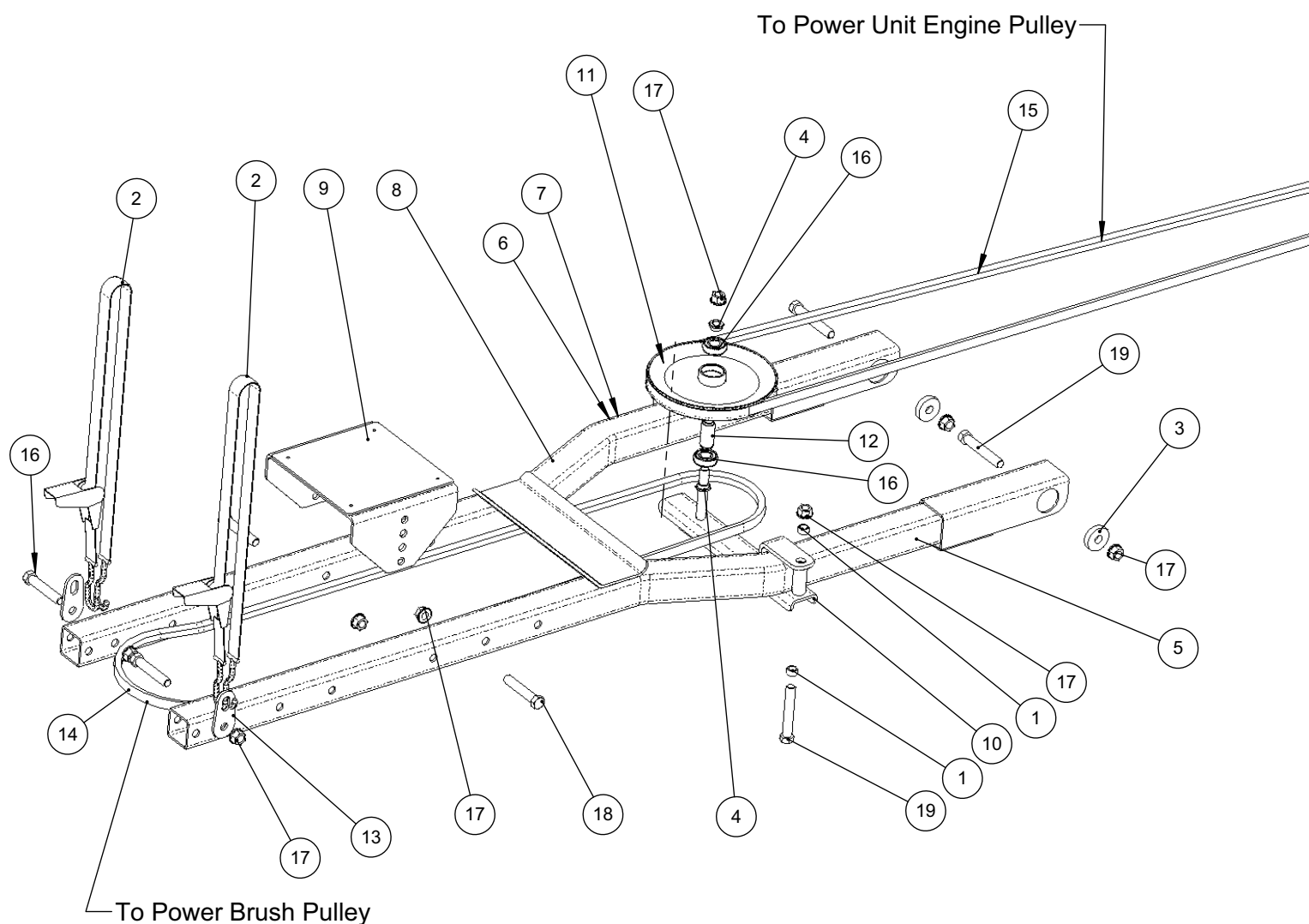
**Optional Gage Wheel Sub Assembly 89855A**

ITEM	89855A/QTY.	PART	DESCRIPTION
1	2	88540	Spacer - Bushing
2	1	89753	Washer - Caster
3	1	89765A	W.A. - Caster Wheel Mount
4	1	89775B	Weld't -Gage Wheel
5	1	89822	Tube -Bearing Spacer -Castor
6	1	89823	Assy-Rubber Wheel
7	4	89824	Bearing 6003-2RS-AAB
8	1	FHN.375	Flange Lock Nut-3/8 NC Unitorque
9	1	FNW.375x1.25X.12	Flt Fndr Wshr 3/8"IDx1.25"ODx.125 Thk
10	1	HB.375x1	Hex Head Bolt 3/8-16 X 1
11	1	HB.375x5	Hex Head Bolt 3/8-16 X 5
12	1	LW.375	Lockwasher-3/8



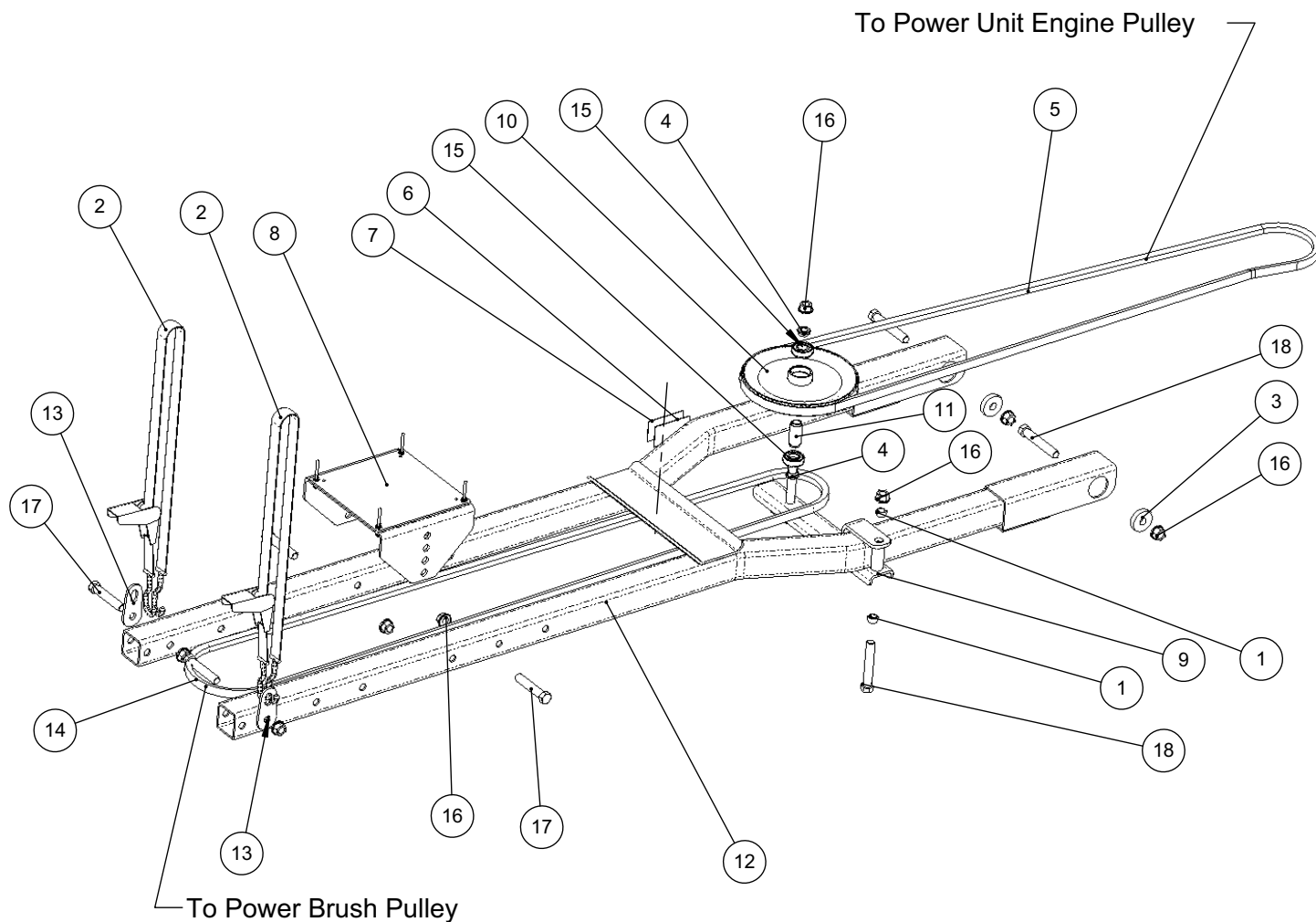
Short Interframe Assembly

89250-06



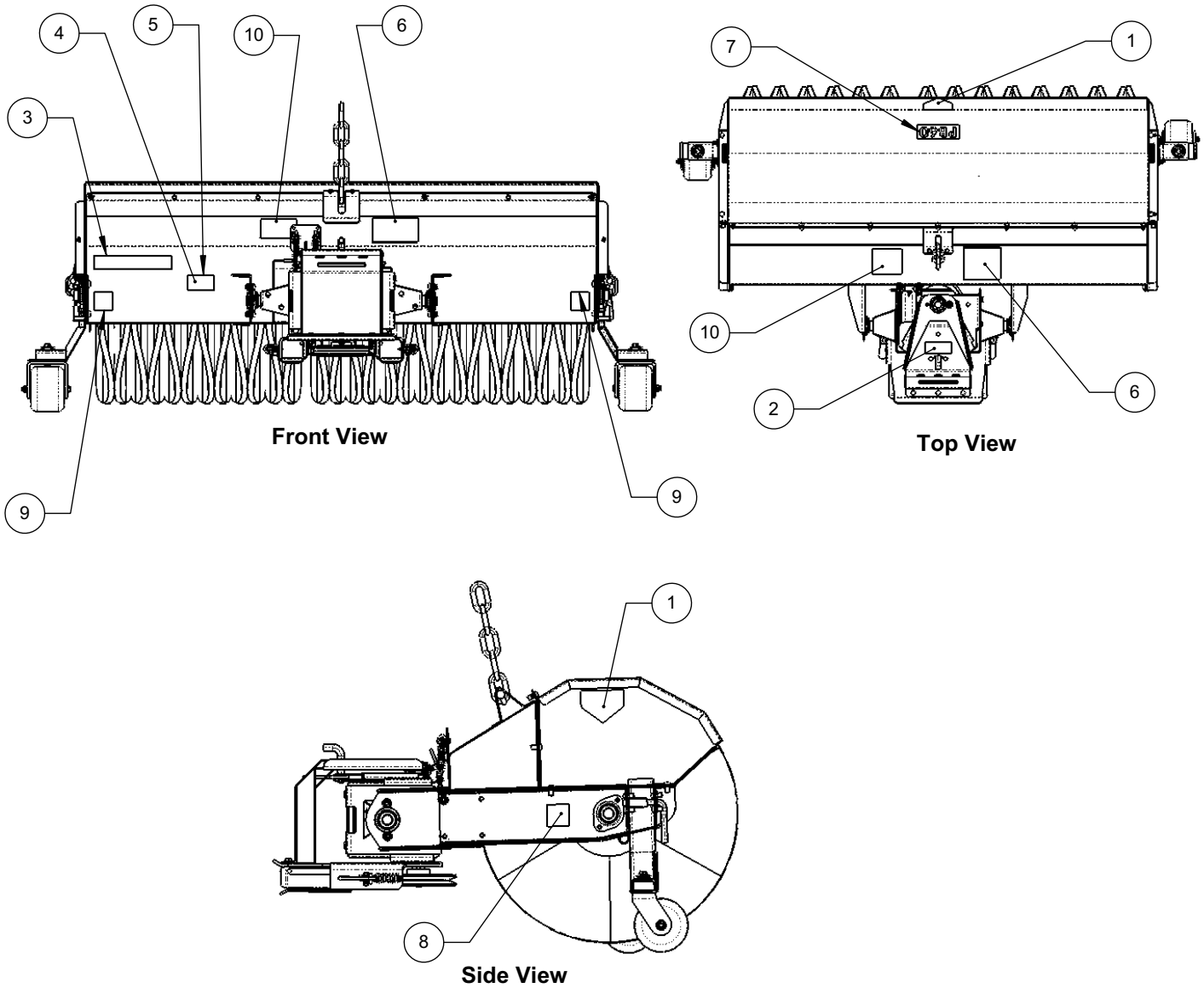
ITEM	89250-06/QTY.	PART	DESCRIPTION
1	2	19-5-91	Bushing -Oillite 12.7ID x 16OD x 9.4 Long
2	2	86803	Ratchet Strap -05500 1 x 6
3	2	88403	Washer - Retainer
4	2	88545	Spacer - Bushing
5	1	88665	Decal-Quadivator Corp-1.75 x 8.5"
6	1	88666	Decal - Serial Plate Foil (1 5/8 x 3.00")
7	1	88667	Decal - Mylar Overlay, Frosted
8	1	89240A	Weldment - Inter-Frame, short
9	1	89245	Assembly - Bumper Pad
10	1	89290	Weld't - Pulley Mount Swing Arm
11	1	89315B	Pulley -Double Idler Weld't -4.5&8
12	1	89318	Bushing -Spacer -Dbl Pulley
13	2	89442	Lug, Ratchet Strap Base
14	1	89523	V Belt -B116, Kevlar (USA) (4404)
15	1	89530	V Belt -B133, Kevlar(7-8727)
16	2	89824	Bearing 6003-2RS-AAB
17	8	FHN.5	Flange Lock Nut-Unitorque -1/2-13NC
18	4	HB.5x3	Hex Head Bolt 1/2-13 X 3
19	3	HB.5x3.5	Hex Head Bolt 1/2-13 X 3 1/2
20	3	LCT.04x11	Tie Wrap .04 x .17 x 11 in 35 Lbs-Black

Long Interframe Assembly 89450-06



ITEM	450-06Manual/QTY.	PART	DESCRIPTION
1	2	19-5-91	Bushing -Oilite 12.7ID x 16OD x 9.4 Long
2	2	86803	Ratchet Strap -05500 1 x 6
3	2	88403	Washer - Retainer
4	2	88545	Spacer - Bushing
5	1	88645	Belt B225 - Blower Drive
6	1	88666	Decal - Serial Plate Foil (1 5/8 x 3.00")
7	1	88667	Decal - Mylar Overlay, Frosted
8	1	89245	Assembly - Bumper Pad
9	1	89290	Weld't - Pulley Mount Swing Arm
10	1	89315B	Pulley -Double Idler Weld't -4.5&8
11	1	89318	Bushing -Spacer -DbI Pulley
12	1	89440	Weldment - Inter-Frame-Long
13	2	89442	Lug, Ratchet Strap Base
14	1	89545	V Belt- B136, Kevlar
15	2	89824	Bearing 6003-2RS-AAB
16	8	FHN.5	Flange Lock Nut-Untorque -1/2-13NC
17	4	HB.5x3	Hex Head Bolt 1/2-13 X 3
18	3	HB.5x3.5	Hex Head Bolt 1/2-13 X 3 1/2

Decal Locations [Power Brush]



ITEM	QTY.	PART	DESCRIPTION
1	3	88590	Decal - Warning (Keep Hands and Feet Away
2	1	88599	Decal, Warning-Keep Hands Clear
3	1	88665	Decal-Quadivator Corp-1.75 x 8.5"
4	1	88666	Decal - Serial Plate Foil (1 5/8 x 3.00")
5	1	88667	Decal - Mylar Overlay, Frosted
6	1	89543A	Decal, Warning - General
7	1	89879	Decal - PB60
8	2	89881	Decal - Amber reflective Tape 51 x 51
9	2	89882	Decal - Amber reflective Tape 51 x 51
10	1	SW404	Decal-Moving Part Hazard

WARRANTY REGISTRATION – Quadivator PB60 Power Brush

Please fax this sheet to (204) 239-4271 or mail it to:

Quadivator Inc.
P.O. Box 1127
1000 – 6th Ave NE
Portage la Prairie
Manitoba, R1N 3C5
CANADA

Power Brush Model # -

Power Brush Serial # -

Purchased by (Name)

Address-

City

State/Prov./Mail Code

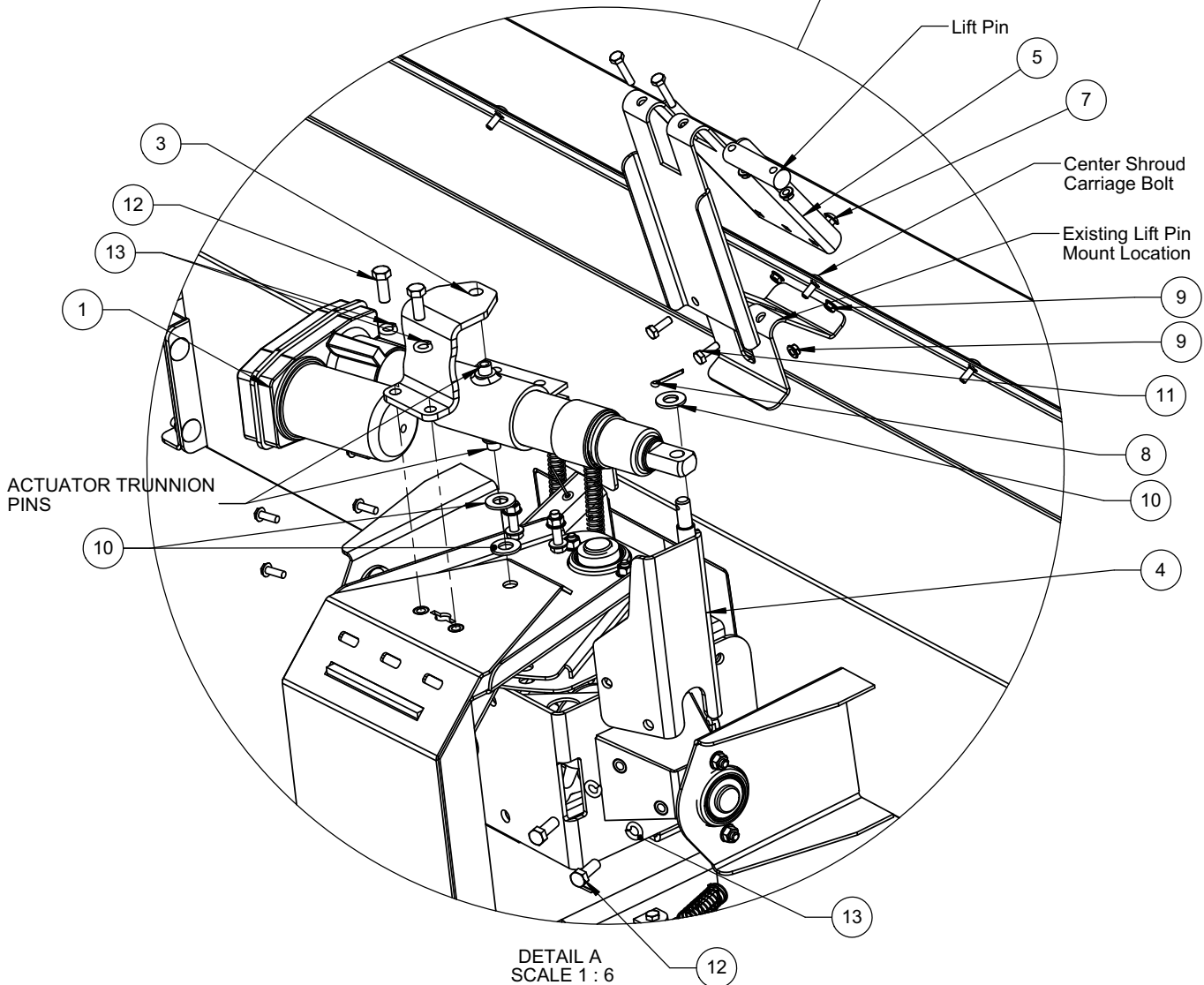
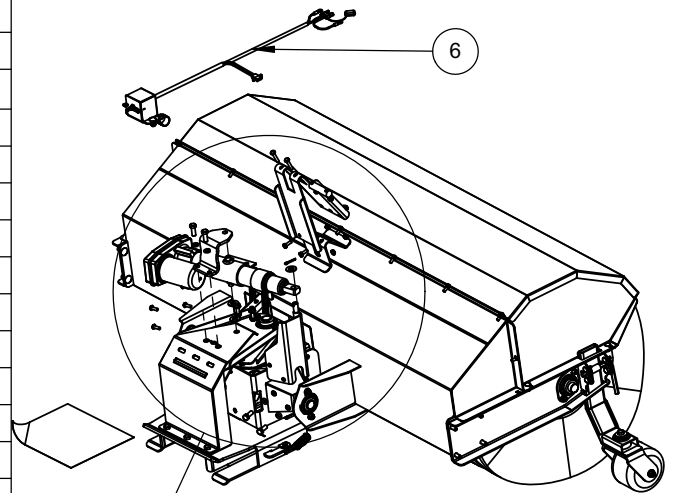
Dealer -

Date Purchased (D/M/Y)

Thank you!

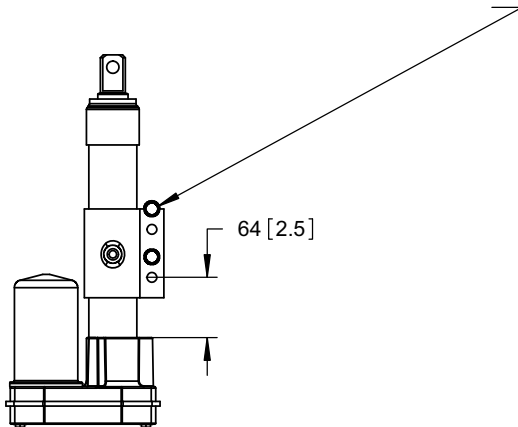
Electrical Pivot Option - Installation

ITEM	QTY.	PART	DESCRIPTION
1	1	86031	Actuator, 4" Stroke, HD, 12VDC 17:1
2	1	86348	Instructions, Power Brush Elect Pivot Kit
3	1	89906	Bracket - Actuator Base
4	1	89915	Weld't -Actuator Rod End
5	1	89921	Bracket -Lift Extension
6	1	89930	Assy - Brush Pivot Switch
7	2	CB.25x3/4	Carriage Bolt 1/4 x 3/4
8	1	CTP.125x1	Cotter Pin 1/8 x 1
9	4	FHN.25	Flange Lock Nut-1/4 NC Unitorque
10	3	FW.5N	Flat Washer 1/2 SAE
11	2	HB.25x.75	Hex Head Bolt 1/4-20 X 3/4
12	6	HB.375x1	Hex Head Bolt 3/8-16 X 1
13	6	LW.375	Lockwasher-3/8

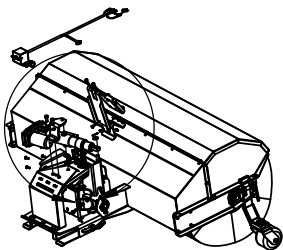


Installation - Electrical Pivot

1. Loosen clamping bolts on actuator trunnion mount. Make sure both bolts are loose.



2. Slide trunnion mount to achieve dimension shown. Secure in place by tightening the clamping bolts.



3. Remove the lift pin from existing mount location by removing 1/4 x 1-1/4 bolts and nuts.

4. Remove center carriage bolt from the top of the shroud.

5. Place new lift extension brackets over existing lift pin mount so that the center hole aligns with the center hole on the shroud where you just removed the bolt from.

6. Re-install bolt securing lift extension bracket to shroud using a 9/32" drill bit. Drill 2 holes in the shroud flange and two holes in the existing lift pin mount bracket.

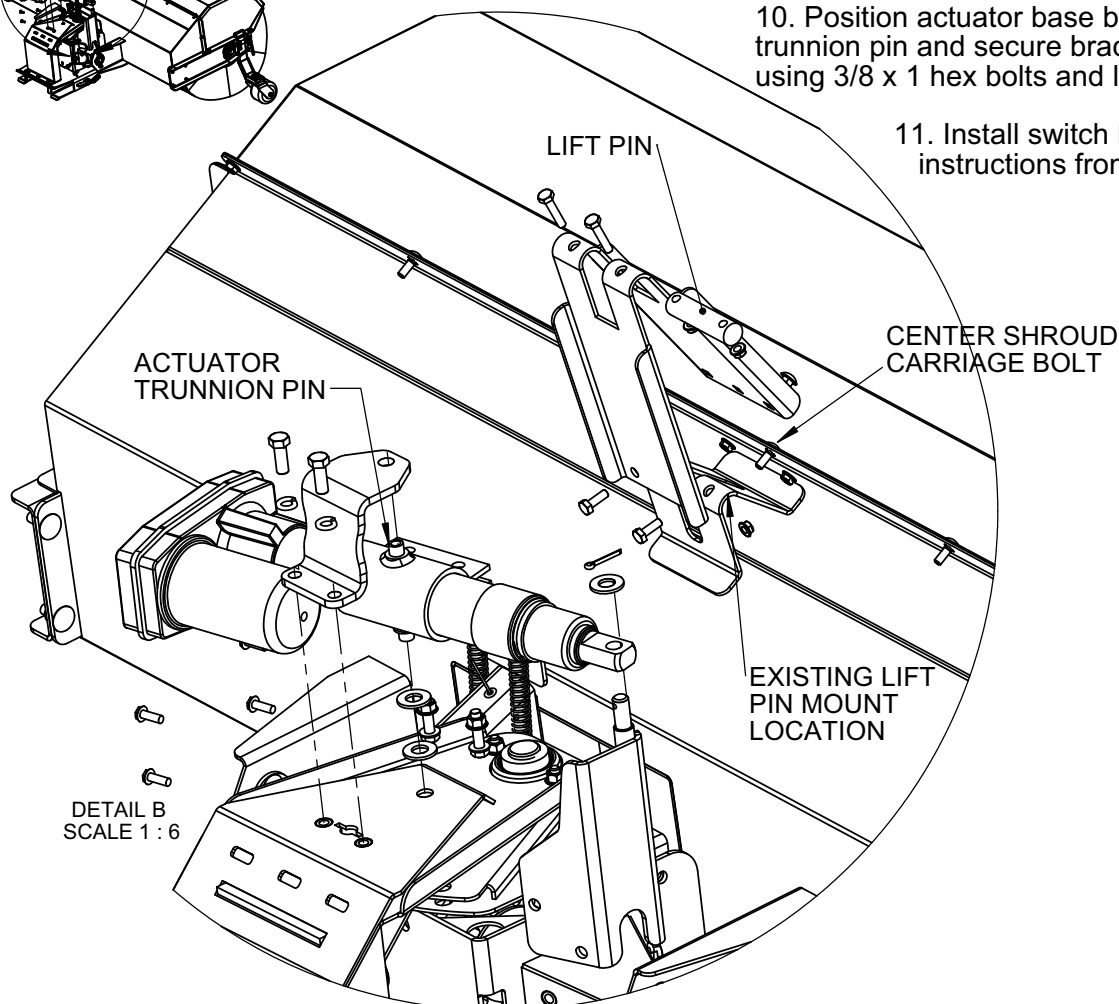
7. Install 1/4 x 3/4 hex bolts in the rear locations and secure with 1/4" flange nuts. Use 1/4 x 3/4 carriage bolts in the front location.

8. Bolt the actuator rod mount bracket (4) to gear box pivot bracket as shown, using four 3/8 x 1 bolts, lockwashers.

9. Place two 1/2" SAE washers on top of gear box plate. Align with holes as shown. Position actuator trunnion pins through washers and gear box plate.

10. Position actuator base bracket (3) over top trunnion pin and secure bracket to gear box plate using 3/8 x 1 hex bolts and lockwashers.

11. Install switch kit on ATV using instructions from the switch kit.



Wiring Instructions

The following instructions apply to units having a cargo box. Use the guidelines when installing the wiring harness to your unit.

1. Using a tape measure, measure down 2-1/2 inches (63.5mm) from the top left corner inside the front of the cargo box. Then make a mark in the center of the radius on the inside of the box. Drill a 1/2 inch (13mm) hole in the corner radius.

NOTE: Drill only through the inside wall of the cargo box.

2. Remove the battery cover. Disconnect the battery cables. Disconnect the negative battery cable first.

3. Route wiring harness from the battery along the right upper main frame tube following the main wiring harness toward the rear of the ATV, and then over the rear cross-tube next to the voltage regulator. Continue routing the wiring harness along the rear of the cargo box frame. Make sure wiring is away from moving parts and pinch points.

4. Continue routing the wiring harness along the left side of the cargo box toward the front of the box,

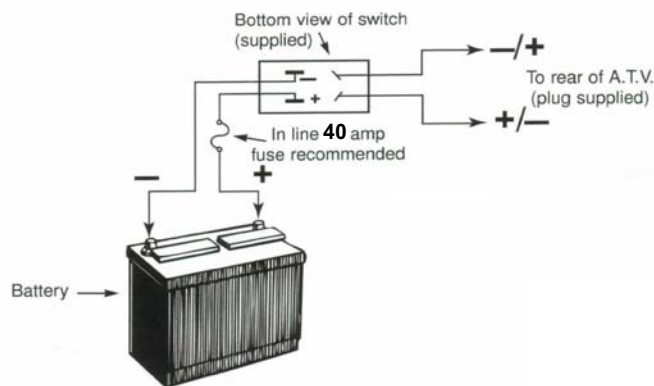
5. Route the wiring harness through the 1/2 inch (13mm) hole. Plug the red wire and black wire connectors to either of the center terminals of the switch. Plug the red/white wire and black/white wire connectors to the remaining terminals of the switch. Secure with ties as needed,

6. Use the supplied clamp for the switch to secure the switch assembly to the cargo box or other position. Position the switch so it is easily operated from the operator's seat of the ATV.

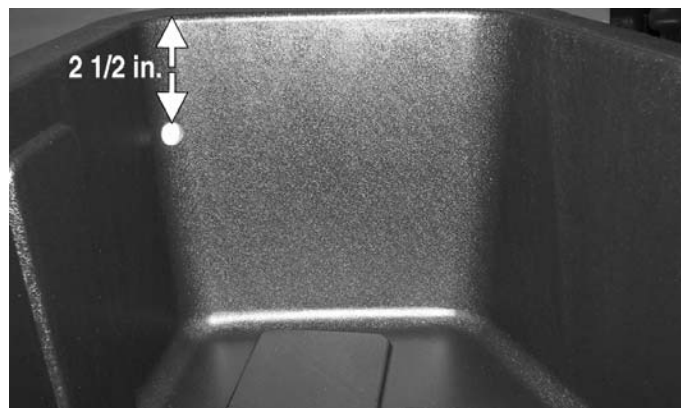
7. Connect the red and black power wires, along the positive and negative cables to the battery. Reinstall all removed parts.

8. Check routing and connections. Wiring harness should be away from pinch points and moving parts.

NOTE: After the wiring harness has been connected to the 3-point hitch system; make sure the switch works in the up/down modes.



Wiring Schematic - Typical



Hole Location for Wiring Harness - Cargo Box



Wiring Harness Routing - under Cargo Box



Wiring Harness Routing to Drilled Hole in Cargo Box

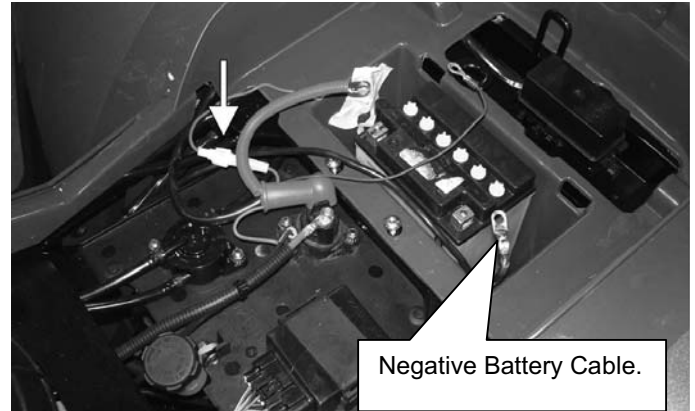
The following wiring instructions apply to units having no cargo box. Use as a guideline when installing the wiring harness.

1. Remove the battery cover. Disconnect the battery cables making sure to disconnect the negative cable first.
2. Next to the right side of the tail light, route the wiring harness up and along the bottom side of the rear fender toward the left side of the ATV. Route the wiring harness away from moving parts and pinch points.
3. Locate switch and wiring harness at a convenient location so it can be worked easily. Clamp switch. Plug the red wire and black wire connectors to either of two center terminals on the switch. Plug the red/white wire and black/white wire into remaining two terminals. Secure wiring harness with ties as needed.

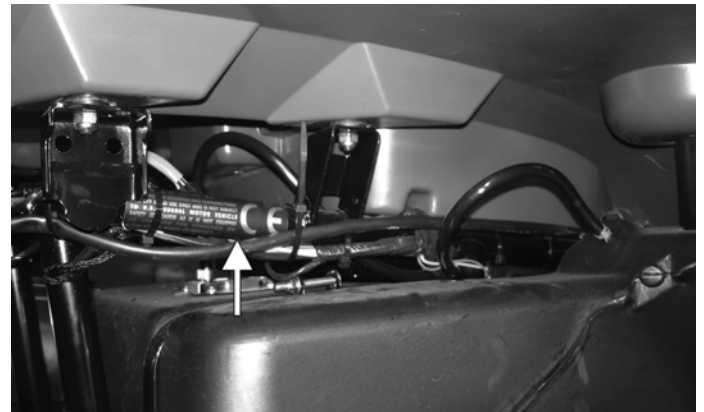
NOTE: Tighten clamp along with the actuator switch securely to its location.

4. Connect the red and black power wires, along with the positive and negatives cables. Reinstall remaining parts.

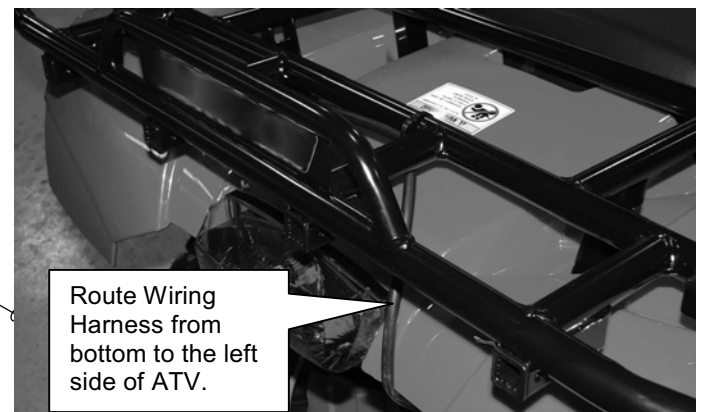
NOTE: After the wiring harness has been connected to the 3-point hitch system, make sure the switch works in conjunction with electrical pivot option.



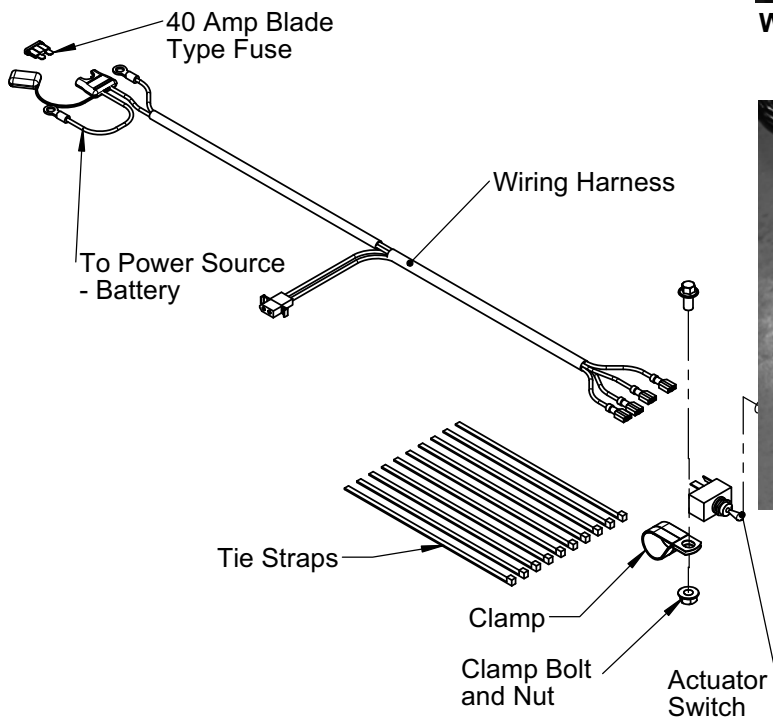
Wiring Connection to Battery - Typical View



Wiring Harness Routing - Between Frame and Shell



Wiring Harness Routing - Rear of Unit



Typical View of Wiring Harness Assembly