



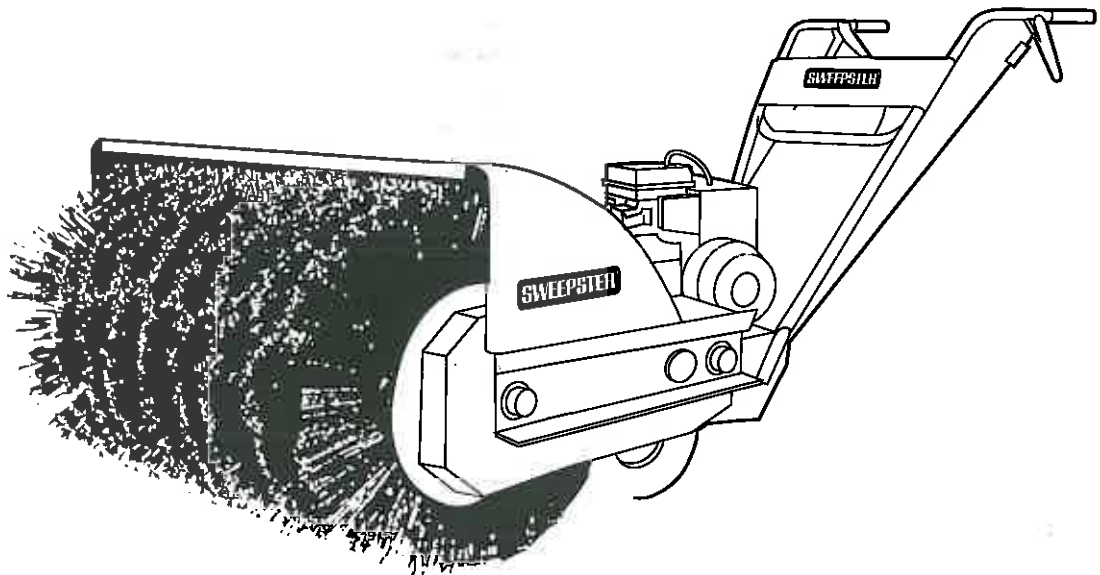
C36TW

Walk-Behind Sweeper



Read this manual before attempting to operate the equipment.

This sweeper is not intended for rooftop use. To help prevent injury or death from falling hazard: ***Do not use this sweeper on roofs!***



SWEEPSTER, Inc.
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1-800-456-7100
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Introduction

Serial & Part Numbers

On your unit you will find a serial number plate and/or part number plate(s). The numbers on these plates are very important if you wish to order parts or accessories. For your convenience, record numbers in the appropriate spaces below.

SWEEPSTER	
Model #	Serial #
<input type="text"/>	<input type="text"/>
Empty	GVW
<input type="text"/>	<input type="text"/>
Dexter, MI 48130 1-800-456-7100	

SWEEPSTER	
Dexter, MI 48130 1-800-456-7100	
Part Number	Date
<input type="text"/>	<input type="text"/>

SWEEPSTER	
Dexter, MI 48130 1-800-456-7100	
Part Number	Date
<input type="text"/>	<input type="text"/>

SWEEPSTER	
Dexter, MI 48130 1-800-456-7100	
Part Number	Date
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Importance of this Manual



Read this manual before attempting to operate the equipment.

This operator's manual should be regarded as part of the sweeper. Suppliers of both new and secondhand sweepers are advised to keep documentation indicating that this manual was provided with the sweeper.

The manual contains information regarding installation, operation and maintenance required for this sweeper model and optional equipment. It also includes detailed parts lists.

Purpose of Sweeper

This sweeper is designed solely for use in construction cleanup, road maintenance, grounds maintenance, snow removal and similar operations. Use in any other way is considered contrary to the intended use. Compliance with and strict adherence to operation, service and repair conditions, as specified by the manufacturer, are also essential elements of the intended use.

This sweeper should be operated, serviced and repaired only by persons who are familiar with its characteristics and acquainted with relevant safety procedures.

Accident prevention regulations, all other generally recognized safety regulations and all road traffic regulations must be observed at all times.

Any modifications made to this sweeper may relieve the manufacturer of liability for any resulting damage or injury.

Safety Alert Symbol



This safety alert symbol indicates important safety messages in this manual. When you see this symbol, be alert to the possibility of injury. Carefully read the message that follows and inform other operators.

Contacting SWEEPSTER

If you have any questions about information in this manual or need to order parts, please call, write, FAX or e-mail SWEEPSTER.

SWEEPSTER, Inc.

2800 North Zeeb Road

Dexter, Michigan 48130

Phone: (734) 996-9116 • (800) 456-7100

FAX: (734) 996-9014

e-mail: sweep@sweepster.com

For help with installation, operation or maintenance procedures, contact our Technical Service Department. Direct product questions and parts orders to our Sales Department.

When ordering parts or accessories, be prepared to give the following information:

- Sweeper model, serial number and date of purchase
- Prime mover make and model
- Part number, description and quantity

Terms Used in Manual

Right-hand, left-hand, front and rear are determined from the operator's perspective (either the operator's seat or standing behind a walk-behind unit), facing forward in the normal operating position.

Prime mover refers to the tractor, truck, loader or tow vehicle that a sweeper is mounted on or towed by.

Optional Equipment

Installation instructions for optional equipment, if applicable, appear with parts lists in the back of the manual.

Specifications & Features

Due to continuous product improvement, specifications and features may change without notice.

Warranty

To validate the warranty for this unit, fill out the warranty card or warranty pages located at the back of this manual. Then, send this information to SWEEPSTER.


Safety Information


Read this Manual


Read all safety information in this manual. All operators must read and understand the entire contents of this manual before sweeping. General safety practices are listed on Safety Information pages and specific safety information is located throughout this manual.

Hazard Definitions

Four hazard classifications are used in this manual. They are


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

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

 **DANGER** – Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

IMPORTANT – Used for instructions when machine damage may be involved.

Operation

 **CAUTION** – A sweeper is a demanding machine. Only fully trained operators or trainee operators under the close supervision of a fully trained person should use this machine.

Before sweeping:

- Learn sweeper controls in an off-road location.
- Be sure that you are in a **safe area**, away from traffic or other hazards.
- Check all hardware making sure it is tight.
- Replace any damaged or fatigued hardware with properly rated fasteners.

- Check tire pressure before sweeping
- Remove from the sweeping area all property that could be damaged by debris flying from the sweeper.
- Be sure all persons not operating the sweeper are clear of the sweeper discharge area.
- Always wear proper apparel such as a long-sleeve shirt buttoned at the cuffs; safety glasses, goggles or a face shield; ear protection; and a dust mask.

When sweeping, adhere to all government rules, local laws and other professional guidelines for your sweeping application.

Before leaving the operator's area for any reason – stop the engine with the stop switch.

Minimize flying debris – use the slowest brush speed that will do the job.


Keep hands, feet, hair and loose clothing away from all moving parts.

Leave the brush hood (shield) and all other shields and safety equipment in place when operating the sweeper.

When sweeping on rough terrain, reduce speed to avoid “bouncing” the sweeper. Loss of steering can result.

Never sweep toward people, buildings, vehicles or other objects that can be damaged by flying debris.

Service & Repair

 **CAUTION** – Do not modify the sweeper in any way. Personal injury could result. If you have questions, contact your dealer or SWEEPSTER.

Repair or adjust the sweeper in a safe area, away from road traffic and other hazards.

Before adjusting or servicing the sweeper – stop the engine with the stop switch.



Warning – Not for Use on Roofs

As of January 1, 1986, SWEEPSTER no longer manufactured any sweepers intended for rooftop use for reasons listed on this page. We urge all people who work on roofs to follow good basic safety habits including the following:

- Guard all perimeters with MSS barriers and/or a warning line system as described in OSHA 1925.00.
- Follow all rules and suggestions set forth by the National Contract Roofing Association.
- Maintain all equipment to factory specifications with all safety and operating features installed and operating correctly.
- Train all operators of power equipment and all employees thoroughly, especially in good safety procedures before allowing them to work on a roof.

As of January 1, 1986, SWEEPSTER no longer supplies sweepers to the ROOFING INDUSTRY. The manufacture of the C36RS ceased at this date.

Repair parts will continue to be supplied for sweepers in the field. All parts orders will continue to receive the complete safety label package and Sweep Safe booklet and replacement labels and Operator's Manual will still be supplied at no charge.

We at SWEEPSTER would like to extend our thanks to the many friends we have made in the roofing industry. We apologize for any hardship this may have on people who have used our products in the past. The worker, job site and legal conditions in the roofing industry have deteriorated to the point where we can no longer continue to serve this market.

We have manufactured good, safe when used as intended sweepers for use on roofs. These simple-to-operate sweepers have been equipped with numerous safety features and warning labels from the first day of manufacture, which are often overridden, ignored and modified to the point where they no longer serve their original purpose.

Accidents we have investigated involving SWEEPSTER products in the roofing industry have many similarities.

1. Evidence of alcohol or drug use or abuse was found in many cases.
2. Products were altered; abused; or broken and not correctly repaired by the operator, roofing company or other owners after its purchase, changing the basic design and function of the sweeper.
3. Job sites violated federal and state OSHA laws.
4. Roofing companies, and employees involved in accidents, have a bad history of blatant safety abuses. (One company with 85 employees had 54 accidents reported to OSHA in one calendar year. One employee had fallen off a roof five times prior to the accident we investigated and was finally killed the third time he fell off a roof after the investigated accident. Trial testimony revealed in one case that a roofing company FOREMAN said he had fallen off a roof 22 times.)

When our machine is on a roof, liability law requires us to pay for the substance abuse, negligence, carelessness and disregard for safety of roofing companies, rental yards, contractors and their employees.

Because of the obvious disregard for safety by many people in the roofing industry, we are forced to stop manufacturing our carefully designed, easy-to-operate, and safe when used as intended sweepers from this market.

We will continue to manufacture sweepers for the asphalt contractor, government, grounds maintenance and other markets where sweepers are used on the ground.

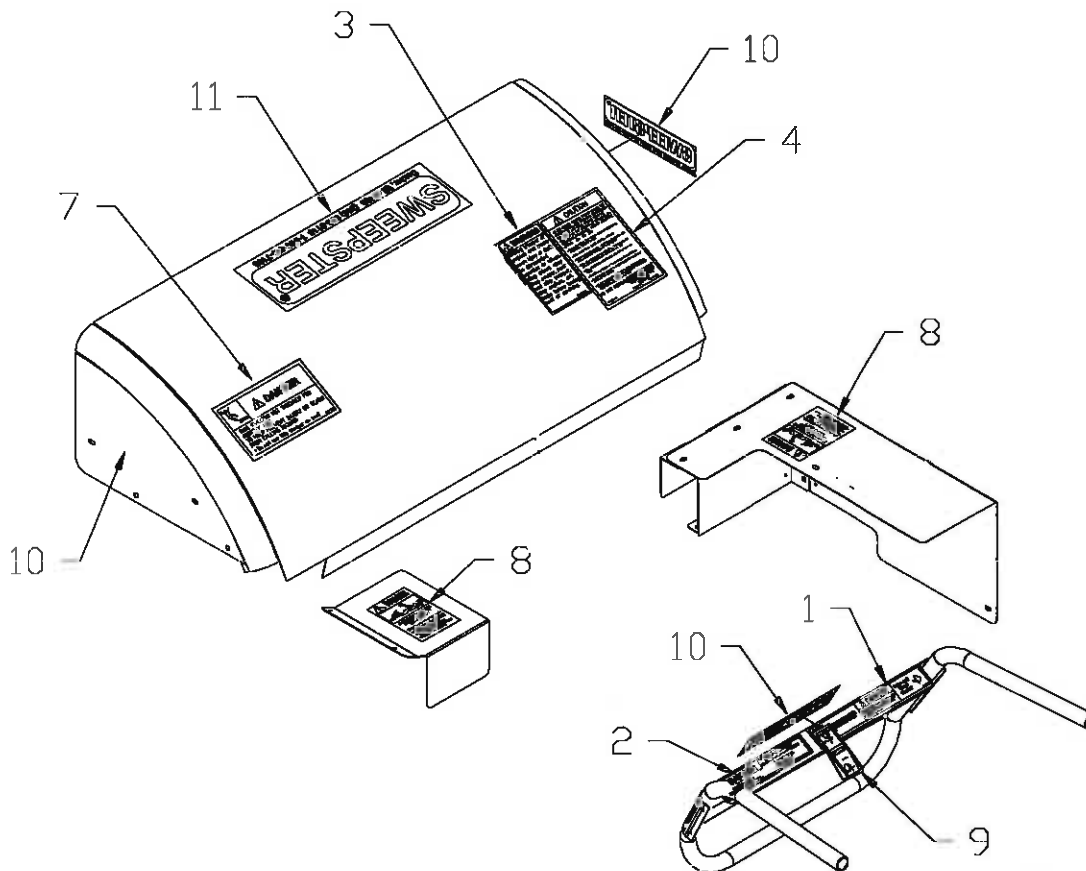
Safety Signs & Labels

Important

Always keep safety signs clean and readable, and always replace any damaged or missing safety signs with new ones from SWEEPSTER.

Safety sign and label locations are shown below. For representations of the safety signs and labels, refer to the next 2 pages.

Locations



Item	Part	Qty	Description
1.	50-0011-4	1	Label, Control Levers, C36
2.	50-0091	1	Label, Danger, Do Not Use On Roof
3.	50-0014-2	1	Label, Warning, Running Sweeper & Engine
4.	50-0014-1	1	Label, Caution, Read Manual, General Safety
7.	50-0565	1	Label, Do Not Use On Roof
8.	50-0115	2	Label, Danger, Rotating Driveline
9.	50-0152	1	Label, Switch, C36, Stop Push-Pull Switch
10.	50-0184	3	Label, Small, White, SWEEPSTER
11.	50-0185	1	Label, Medium, White, Logo

Safety Signs & Labels

Representations

Locations shown on page 8.

ENGINE STOP  ON OFF Check switch for positive engine stop each time engine is started. Repair as necessary to ensure positive engine stop.	⚠ DANGER DO NOT OPERATE sweeper without first checking controls for proper adjustment. Read operator's manual and make any necessary adjustments before operating sweeper.	Brush and Wheel Control  50-0011-4
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------

1. 50-0011-4

⚠ DANGER THIS SWEEPER NOT INTENDED FOR ROOFTOP USE.	TO HELP PREVENT INJURY OR DEATH FROM FALLING HAZARD DO NOT USE ON ROOFS
---------------------------------------------------------------	------------------------------------------------------------------------------------------

2. 50-0091

⚠ WARNING Running sweeper or engines can cause severe injury or death to dismounted operator or others. Keep others away from sweeper, lower and stop sweeper, stop engines, set brake before leaving seat or servicing. 50-0014-2

3. 50-0014-2

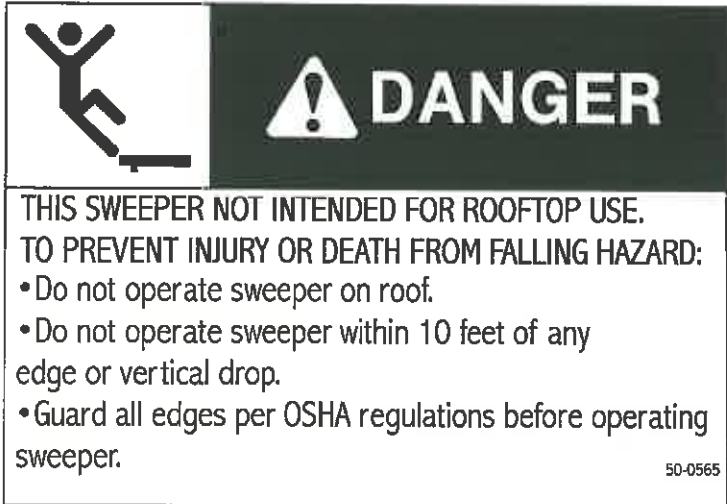
⚠ CAUTION DO NOT OPERATE SWEEPER WITHOUT READING THE OWNERS MANUAL AND OPERATING INSTRUCTIONS COMPLETELY AND BEING FAMILIAR WITH THE OPERATION OF THE SWEEPER. IF OPERATING INSTRUCTIONS ARE MISSING, REPLACEMENT MANUALS ARE AVAILABLE FROM YOUR SWEEPSTER DEALER, OR SWEEPSTER TECHNICAL PUBLICATIONS. <ul style="list-style-type: none">• Personnel must be clear of brush and clear of all moving parts before operating sweeper.• Never sweep toward people, buildings, cars, etc.• Eye protection must be worn at all times by operator and anyone within the discharge area of the brush.• Turn off engine and brush and allow all moving parts to stop before adjusting and servicing the sweeper.• Keep polypropylene material away from intense heat and flames.• No riders on sweeper or vehicle sweeper is mounted on.• Do not operate sweeper or tractor unless PTO Guards and all shields are in place.• All roof areas must comply with Federal OSHA Law Section 1026.500 on perimeter guarding before operating any SWEEPSTER Product on roof area. DO NOT REMOVE! SWEEPSTER SWEEPSTER, INC. 2000 W. ZEEB ROAD DEXTER, MI 48130 734-296-9115 1-800-466-7100 50-0014-1

4. 50-0014-1

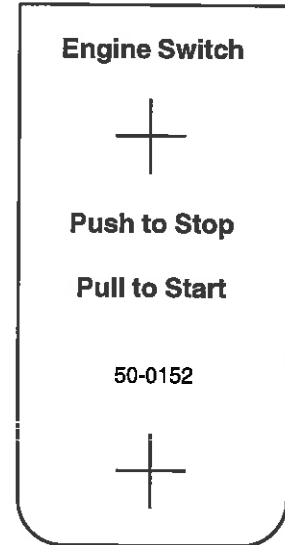
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Safety Signs & Labels

Locations shown on page 8.



7. 50-0565



9. 50-0152



8. 50-00115



10. 50-0184



11. 50-0185

Assembly & Adjustments

Installing Handle Assembly

1. Position the handle assembly behind the main body assembly with the handle uprights to the outside.
2. Align upper holes in handles with top holes in the main body assembly.

Then, adjust the lower holes in the handles according to the height of the operator. Use the middle holes on the body assembly for a short person or the bottom ones for a tall person.

3. Install 2, 3/8 x 1 1/2 in. cap screws, flat washers and nylock nuts per side.

Installing Swing Control & Control Cables

1. Attach 1 tension spring to each control lever on the handle assembly.
2. Route the control cable (attached to the right-hand side of the body) through the pulley on the right handle. Hang the end link of the control cable chain on the spring attached to the right control lever.
3. Route the swing control cable (attached to the left-hand side of the body) through the pulley on the left-hand side of the body. Place the end link of the swing control cable chain on the spring attached to the left control lever.

Adjusting Swing Control Cable

1. Squeeze the swing control lever (located on the left handle).
2. Shorten the chain by 1 link.
3. Squeeze the swing control lever to see if the swing pin releases.
4. Repeat steps 2 and 3 until the swing pin releases when the swing control lever is squeezed.

Adjusting Control Cable & Engine Belt



WARNING – Always check and adjust the control cable and engine belts in an open area. Never perform procedures in a closed area.

Serious injury or death from asphyxiation can result from running the engine in a confined space.

Personal injury and property damage can result from contact with flying debris.

1. Remove the spark plug wire from the engine spark plug.
2. Place the 5th link of the control cable chain on the tension spring located on the right handle.
3. Pull the engine recoil starter handle so the engine turns over.
 - If the brush and drive wheels start turning, *do not start the engine*. Loosen the chain end of the control cable by 1 link. Repeat step 3.
 - If the brush and drive wheels do not start, reconnect the spark plug wire and proceed to the next step.
4. Start the engine according to the procedures outlined in Engine Procedures: Starting Engine.
5. Squeeze the control lever on the right handle.
 - If the brush and drive wheels engage, skip to step 8.
 - If the brush and drive wheels do not engage, go to the next step.
6. Shut off the engine as described in Engine Procedures: Stopping the Engine.
7. Shorten the control cable chain by 1 link. Then, repeat steps 4-7 until the brush and drive wheels engage.

continued on the next page

Assembly & Adjustments

NOTE – If you reach the 1st chain link and the control cable and engine belts are still not properly adjusted, follow these steps.

- a. Loosen 4 cap screws that fasten the engine to the main body assembly.
 - b. Move the engine 1/4 in. (6 mm) farther away from the brush hood.
 - c. Adjust the engine so the rear of the engine block is 3 1/2 in. (89 mm) from the rear edge of the main body assembly.
 - d. Tighten 2 rear cap screws.
 - e. Continue adjustments, starting from step 3.
8. With the brush and drive wheels engaged, pull back on the handles.
- If the engine stalls, shorten the control cable by 1 chain link. Repeat step 8.
 - If the engine remains running, go to the next step.
9. Tighten all 4 screws that fasten the engine to the main body assembly.

NOTE – In the first 1 1/2 hours of operation, the engine belts will stretch, causing the brush to stall. Adjust when this occurs.

Installing Remote Air Cleaner

NOTE – Sweepers equipped with Briggs & Stratton IC, Honda or Robin engines do not require a remote air cleaner kit.

1. Unfasten the screws on the air cleaner cover (figure 1) and remove it from the carburetor.
2. Place the new air cleaner cover on the carburetor.
3. Install and tighten the hardware.

IMPORTANT – Do not operate the engine without the hose connected to the hood assembly as this can cause early engine failure.

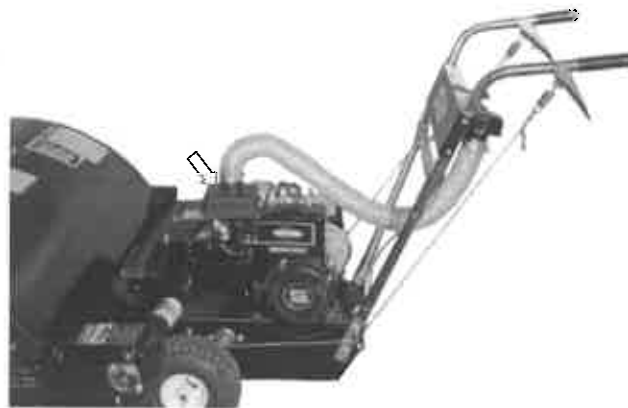


figure 1

Engine Procedures



WARNING – Avoid personal injury or death. Read and understand the engine operating instructions before attempting to start, adjust or perform maintenance on the engine.

Connecting Engine Stop Switch

To engage the engine stop switch (found on the handle assembly cross bar), connect the 2 shielded connectors located on the left handle upright.

Oil & Fuel

For safety reasons, the engine is shipped without oil or fuel. Following the manufacturer's recommendations and instructions, fill the engine with fuel and oil.

Starting Engine



WARNING – Avoid serious injury or death due to asphyxiation. Do not run engine in a confined space. Only run engine in an area with good ventilation.

1. Move the sweeper to a level, open area.
 2. Check oil and fuel levels. Fill as recommended by the engine manufacturer.
 3. Slide the engine run/choke lever to Choke and the throttle lever to Idle.
 4. Pull the engine stop switch (located on the sweeper handle bars), setting it to On.
 5. Grasp the engine recoil starter handle. Pull slowly until the recoil starter engages; then pull rapidly. Repeat until the engine starts.
 6. After the engine is running, move the run/choke lever to Run and adjust the engine to the speed that matches your application. (See the Operation section.)
-

Stopping Engine

1. Push the engine stop switch, setting it to Off.
2. Move the engine throttle control lever to Off.



WARNING – Avoid serious injury or death resulting from the engine failing to stop. Check engine stop switch daily. Repair immediately if it does not stop the engine.

Before Each Use

Perform daily maintenance as indicated in Maintenance: Schedule.

To Operate

1. Start the engine by following instructions in Engine Procedures: Starting Engine.
 2. Angle the sweeper to direct debris.
 - a. Squeeze the swing control lever on the left handle.
 - b. Move the sweeper body until the swing pin aligns with the hole in the swing plate that you wish to use. The swing plate is attached to the brush frame and is to the left of the engine.
 - c. Release the swing control lever to lock the pin in the hole.
 3. Squeeze the control lever on the right handle to start brush rotation. Keep the lever engaged and walk forward to sweep.
 4. Release the control lever to stop sweeping.
 5. Stop the engine according to instructions in Engine Procedures: Stopping Engine.
-

Operating Tips

IMPORTANT – Avoid damage to sweeper hood, core and other parts. Do not ram into piles of materials. Use a dozer blade for this type of job.

Large Areas

When sweeping a large area, such as a parking lot, make a path down the middle and sweep to both sides. This reduces the amount of debris that the sweeper must sweep in the next pass.

Snow

High brush speeds are needed to sweep snow effectively. Start at 3/4 throttle. For wet and/or deep snow, increase to almost full throttle. This helps keep snow from packing up inside the brush hood.

In deep snow you may need to make more than 1 pass to clean the surface completely.

To keep snow from blowing back onto a swept area, always sweep so the wind is at your back or so it follows the brush angle.

Dirt & Gravel

To keep dust at a minimum, plan your sweeping for days when it is overcast, humid or after it has rained. Also, sweep so the wind blows at your back or in the direction the brush head is angled.

Low brush speeds and moderate ground speeds work best for cleaning debris from hard surfaces. Brush speeds that are too fast tend to raise dust because of the aggressive sweeper action.

To sweep gravel, use just enough brush speed to “roll” the gravel, not throw it.

Thatch

Low brush speeds do the best thatching job.

If the brush pulls into the grass and stalls while sweeping pull back on the handles. Stop the sweeper and adjust optional casters, if installed, to raise the brush.

Use brush speeds that roll a neat windrow.

To keep thatch from blowing back into a swept area, sweep with the wind at your back or in the direction the brush is angled.

Heavy Debris

Sweep a path less than the full width of the sweeper.

Not for Use on Roofs



WARNING – Avoid serious injury or death from falling off roofs. The C36TW is not intended for use on roofs. *Do not use on roofs.*

General Tips

Wash the sweeper before long-term storage.

Protect the sweeper from water and weather to prevent rust and corrosion. Preferably, store it inside. If this is not possible, cover it with dark plastic.

Brushes

Store the sweeper with weight off the brush. Weight will deform bristles, destroying sweeping effectiveness. To avoid this problem, place the sweeper on blocks or adjust casters, if installed, so bristles do not rest on the ground.

For longest brush life, store polypropylene brushes away from direct sunlight. The sun's ultraviolet rays will cause the material to deteriorate and crumble.

Keep polypropylene brushes away from intense heat or flame. Otherwise, it will melt.

Maintenance

Schedule

For best sweeper performance, follow this maintenance schedule.

Part	Schedule		
	Before Each Use	Every 8 Hours	When Necessary
Chain – Lubricate by soaking in motor oil. To repair a stiff link, soak in penetrating oil and then bend back and forth. (If this does not work, replace entire chain.)			✓
Control Cable – Check for proper adjustment. Readjust if necessary.	✓		
Drive Shaft Universal Joints – Inspect for wear. Grease drive shaft zerks.		✓	
Engine Remote Air Cleaner – Check that air cleaner intake hose is tight. Replace cracked or damaged hose. Follow manufacturer's instructions for Extreme Service Conditions. (See engine owner's manual.)	✓		
Engine Stop Switch – Check wiring and connections. Repair immediately if switch does not stop engine.	✓		
Engine Belt – Check for tightness. Make sure pulleys are aligned. (Loosen set screws and realign as necessary.) Replace belt that shows signs of wear.	✓		
Hardware – Check for and tighten loose hardware.	✓		
Swing Control Cable – Check for proper adjustment; readjust if necessary.			✓

Replacing Brush Sections

1. If you have optional casters, remove the caster from the drive (left-hand) side of the unit.
2. Take off the chain top shield located inside the hood and chain shield (figure 2).
3. Remove the lock collars (figure 2) from both sides of the brush hood.
4. On the drive side, remove the hardware from the bearing/flange assemblies and push them inward.

Loosen the bearing/flange hardware on the non-drive side. Do not take nuts off screws.

5. Pull out the brush assembly on the drive side and slide it out from the brush frame on the non-drive side.
6. Disassemble the chain at the connecting link and remove the chain from the sprocket.
7. Stand the brush assembly up on end with the sprocket end down and rest it on 2 blocks.
8. Remove the bearing and flange from the top end.
9. Loosen the screws on the retainer plate and remove the retainer halves (figure 3).
10. Remove old sections from the core.

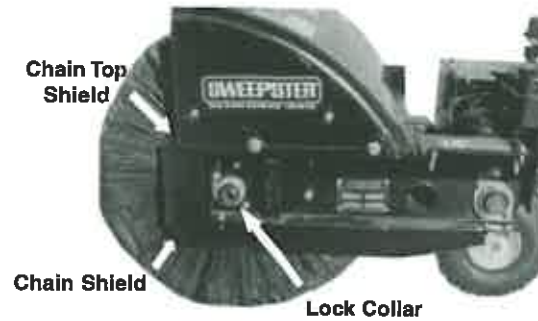


figure 2

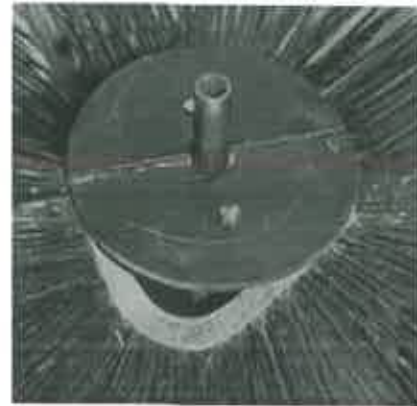


figure 3

Maintenance

11. Install the new sections by doing the following.
 - a. Number the tubes on the core as 1, 2 and 3 (figure 4).
 - b. Slide the first section onto the core with drive pins (figure 5) on either side of tube 1. Make sure that drive pins face up.
 - c. Place the second section on the core with drive pins on either side of tube 2. Be sure that drive pins face down.
 - d. Put the third section on with the lugs around tube 3. Be sure drive pins face up.
 - e. Slide sections on until the core is full, making sure to alternate the tubes used and the direction of the drive pins.
 12. Put the retainer halves on the core and reinstall the screws.
 13. Place the bearing/flange assembly on the shaft with the lock collar hub facing out. Tighten the hardware.
 14. Position the brush assembly in front of the brush hood.
 15. Reinstall the chain.
 16. Insert the shaft into the drive side bearing. Slide the non-drive side into the brush frame and attach the bearing.
 17. Measure the distance between the center of the sprocket and the inside of the brush hood. The dimension should be $1\frac{3}{8}$ in. (35 mm) (figure 6). Adjust accordingly; tighten the set screw.
 18. Install lock collars on both sides of the brush hood. Lock each one to the bearing and shaft; tighten the set screws.
 19. Replace the chain shield and the chain top shield on the brush hood. Tighten the hardware.
-



figure 4



figure 5



figure 6

Troubleshooting

Brush

Problem	Possible Cause	Possible Solution
Brush does not rotate	Engine belt not adjusted properly	Adjust belt; see Installation: Adjusting Control Cable & Engine Belt
	Drive chain not installed properly	Reinstall drive chain
	Key on engine shaft missing; shaft not driving pulley	Replace key
	Control cable not adjusted properly	Adjust control cable; see Installation: Adjusting Control Cable & Engine Belt
Brush stalls when sweeping	Sweeping too much material; debris very heavy	Make several passess
	Engine belt not adjusted properly	Adjust belt; see Installation: Adjusting Control Cable & Engine Belt
	Drive chain not installed properly	Reinstall drive chain
	Key on engine shaft missing; shaft not driving pulley	Replace key
	Control cable not adjusted properly	Adjust control cable; see Installation: Adjusting Control Cable & Engine Belt
	Optional casters not adjusted properly causing too wide of a brush pattern	Adjust casters; see Option – Caster Kit: Adjusting Brush Pattern

Troubleshooting

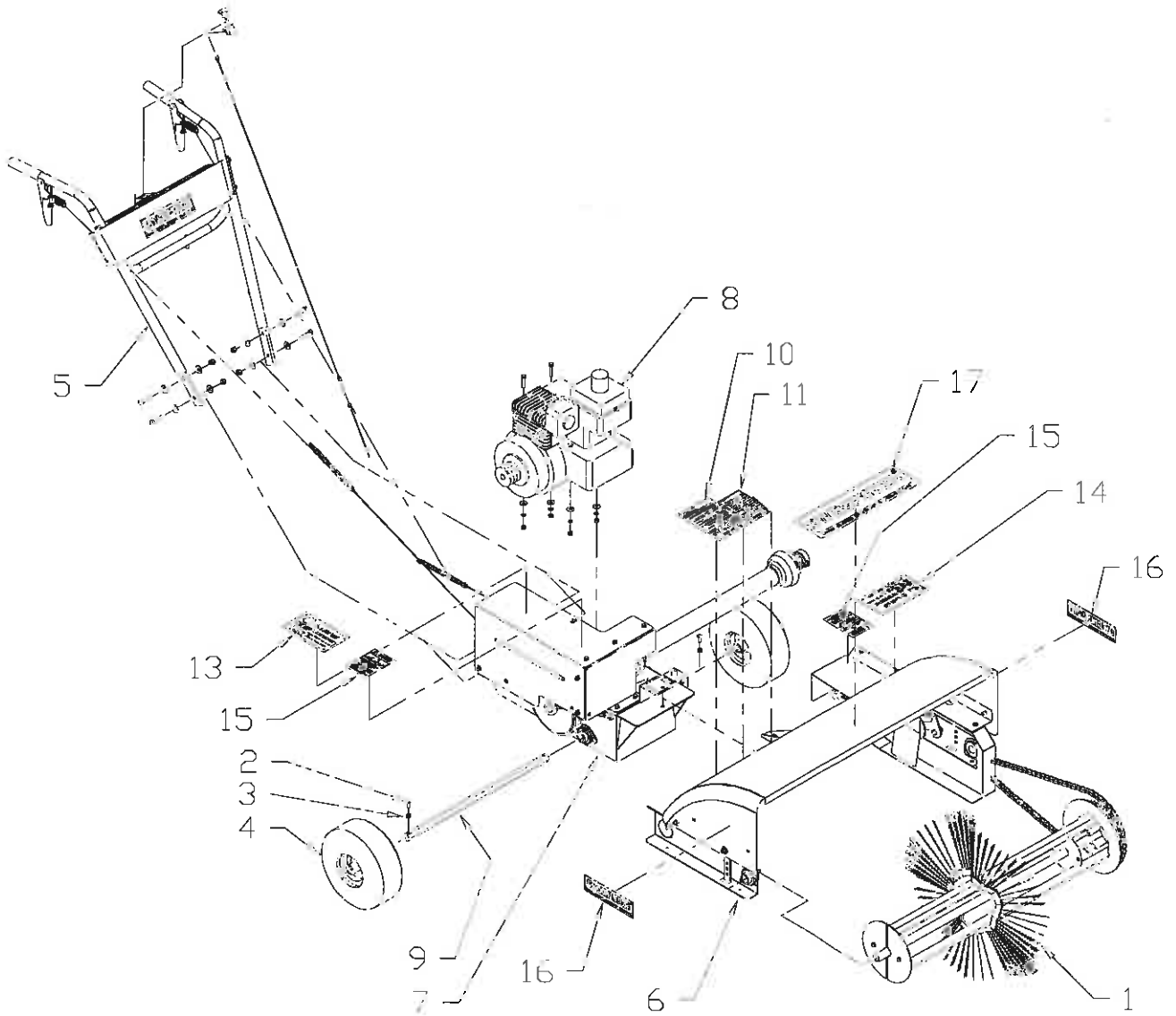
Engine

Problem	Possible Cause	Possible Solution
Engine does not start	No fuel in tank	Add fuel to tank
	Stop switch set to Off	Set stop switch to On
	Stop switch wire damaged, causing it to ground automatically	Replace stop switch wire
	Engine was not choked before attempting to start	Slide the engine run/choke lever to Choke
	Spark plug wire not connected securely	Connect spark plug wire to spark plug securely
Engine stalls when running	Fuel level low	Stop engine, allow it to cool and then fill tank with fuel
	Bad fuel	Stop engine, allow it to cool, drain old fuel and then fill tank with new fuel
	Old or damaged spark plug	Replace spark plug; see engine manual for specifications
	Stop switch wire damaged, causing it to ground automatically	Replace stop switch wire

Assembly C36TW

Item	Part	Qty	Description
1.	01-0012C	1	Set, Section, Poly
	01-0016C	1	Set, Section, Combination
	01-0014C	1	Set, Section, Wire
2.	07-0641	2	Screw, Set, Sq. Head, Gr2, 5/16x3/4
	07-0641	4	Screw, Set, Sq. Head, Gr2, 5/16x3/4 (Back Filler Special)
3.	07-3278	2	Nut, Hex, Gr8, 5/16-18
	07-3278	4	Nut, Hex, Gr8, 5/16-18 (Back Filler Special)
4.	07-3346	2	Assembly Tire/Wheel, 4.10, 3.50-4, Turfsur 7/8
	07-3346	4	Assembly Tire/Wheel, 4.10, 3.50-4, Turfsur 7/8 (Back Filler Special)
5.	28-8029	1	Assembly Handle Bar, C36TW Complete with Controls
6.	28-8026	1	Kit, Parts, Brushhead, C36TW Standard
7.	28-8027	1	Kit, Parts, Body, C36TW
8.	28-8025	1	Kit, Parts, Engine/Drive, Dual Belt, Briggs
	28-8020	1	Kit, Parts, Engine/Drive, Dual Belt, Honda
	28-8022	1	Kit, Parts, Engine/Drive, Dual Belt, Robins
9.	13-7428	1	Shaft, Hex, 23", with Holes
	13-7720	1	Shaft, Hex, 30", with Holes (Back Filler Special)
10.	50-0014-1	1	Label, Caution, Read Manual, General Safety
11.	50-0014-2	1	Label, Warning, Running, Sweeper/Engine
13.	50-0089	1	Label, Hazard, Falling
14.	50-0090	1	Label, Do Not Use On Roof
15.	50-0115	2	Label, Danger, Rotating Drivel
16.	50-0184	2	Label, Small, White, Logo, 2.25x8.00
17.	50-0185	1	Label, Medium, White, Logo, 4.75x16.50

Assembly C36TW

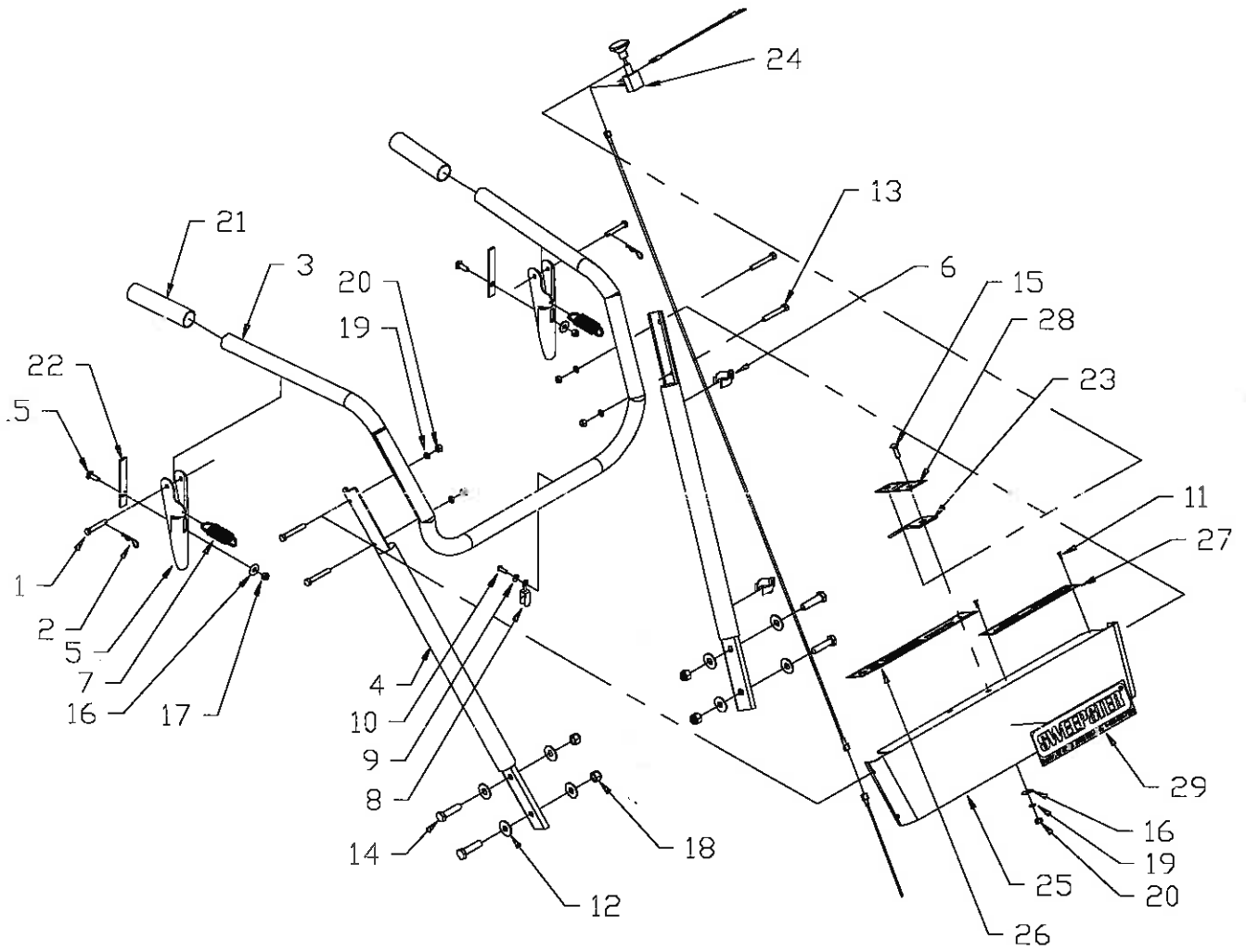


Handle Assembly

Item	Part	Qty	Description
1.	07-0192	2	Pin, Clevis, 1/4 x 1-1/2
2.	07-0209	2	Clip, Hairpin, 16 gauge x 1-3/8
3.	07-0307	1	Handle, Bar, C36
4.	07-0308	2	Handle, Bar, Extension, C36
5.	07-0315	2	Lever, Control, C36, with Hole
6.	07-0322	2	Clamp, Cable, Throttle
7.	07-0329	2	Spring, Tension, 13/16 x 2-3/4
8.	07-0394	1	Pulley, Swivel, C36, Guide
9.	07-1536	1	Washer, Flat, 3/16
10.	07-1597	1	Rivet, Pop, 3/16 x 1/2
11.	07-1675	2	Rivet, Pop, 1/8 x 1/4
12.	07-3279	8	Washer, Flat, 3/16
13.	07-3640	4	Screw, Cap, 1/4-20 x 1-3/4
14.	07-3655	4	Screw, Cap, 3/8-16 x 1-1/2
15.	07-3690	3	Bolt, Carriage, 1/4-20 x 1-3/4
16.	07-4032	3	Washer, Flat, 1/4
17.	07-4033	2	Nut, Hex, Nylock, 1/4-20
18.	07-4036	4	Nut, Hex, Nylock, 3/8-16
19.	07-4038	5	Washer, Lock, Split, 1/4
20.	07-4039	5	Nut, Hex, 1/4-20
21.	09-0016	2	Handle, Grips, C36
22.	11-1892	2	Bracket, Handle, Stop, C36
23.	13-2112	1	Plate, Mounting, Switch, C36, Push-Pull, Stop
24.	13-2124	1	Wire Harness, C36, Engine Stop, Push-Pull
25.	13-8934	2	Plate, Handles, with Holes
26.	50-0011-4	1	Label, Control Levers, C36
27.	50-0091	1	Label, Danger, Do Not Use On Roof, Stamp
28.	50-0152	1	Label, Switch, C36, Stop Push-Pull Switch Only
29.	50-0184	3	Label, Small, White, SWEEPSTER

Handle Assembly

Assembly No. 28-8029

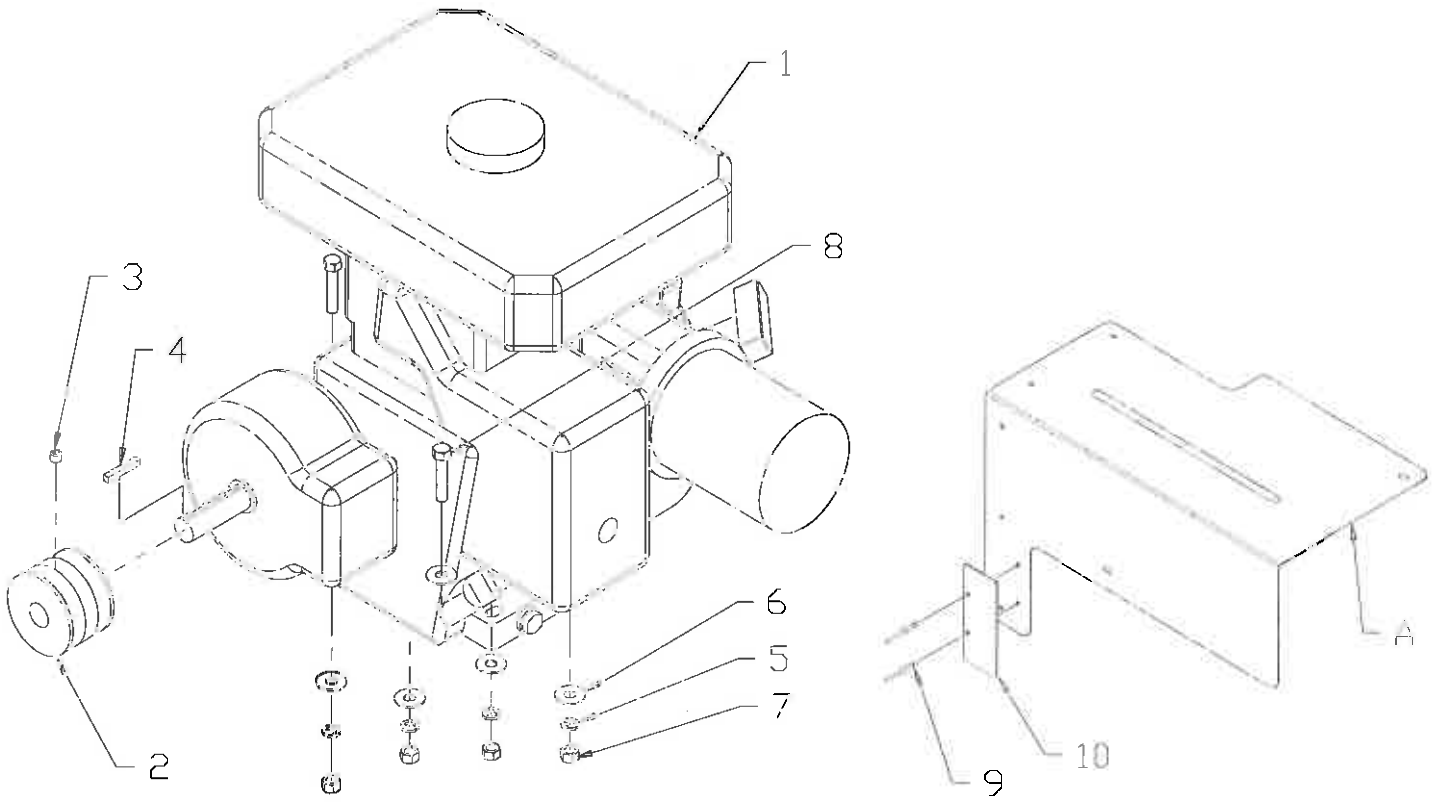


Engine Assembly

Item	Part	Qty	Description
1.	03-9560	1	Engine, Briggs & Stratton IC, Gas, 5 hp
	03-9511	1	Engine, Honda, 5.5 hp
	03-9552	1	Engine, Robin, 6.0 hp
2.	06-0294	1	Pulley, V, 2-1/2, 3/4, Double
	06-0382	1	Pulley, V, 4 x 3/4, Double (High Speed)
3.	07-0002	1	Screw, Set, 5/16-18 x 5/16
4.	07-0677	1	Key, 3/16 x 1-1/4
5.	07-3273	4	Washer, Lock, Split, 5/16
6.	07-3275	8	Washer, Flat, 5/16
7.	07-3278	4	Nut, Hex, 5/16
8.	07-3647	4	Screw, Cap, 5/16-18 x 1-1/2
9.	07-5011	2	Rivet, 3/16 (Not used with Briggs Engine)
10.	13-6279	1	Plate, 2 x 5 (Not used with Briggs Engine)
A.	13-11866	1	Shield, Top (Not used with Briggs Engine)

Engine Assembly

Assembly No. 28-8019 (Robin)
28-8021 (Honda)
28-8020 (Honda, High Speed)
28-8022 (Robin, High Speed)
28-8025 (Briggs I/C)

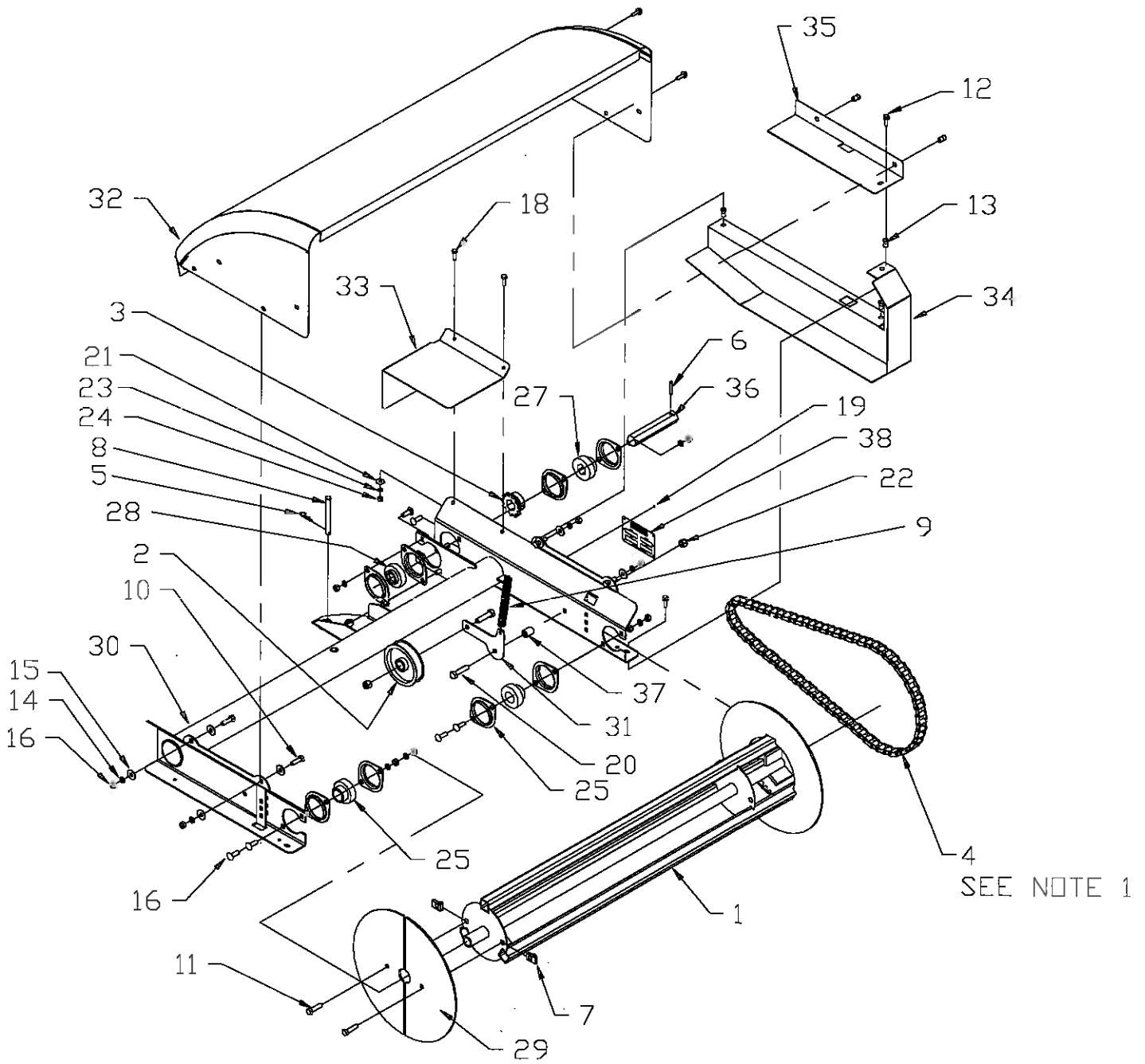


Brush Head Assembly

Item	Part	Qty	Description	NOTE – Remove section bristles from chain before starting engine.
1.	01-4105	1	Weld, Core, M24	
2.	06-0009	1	Pulley, Idler, 3-3/4 x 7/8 x 3/8	
3.	06-0020	1	Sprocket, 4012 x 7/8 Hex	
4.	06-0425	1	Chain, Assembly, #40 x 106, Endless, with Connecting Link	
5.	07-0209	1	Clip, Hairpin, 16 gauge x 1-3/8	
6.	07-0239	1	Pin, Spring, Lock, 3/16 x 1-1/4	
7.	07-0240	2	Nut, Lock, Stamped, 5/16 x 18	
8.	07-0259	1	Pin, Clevis, 3/8 x 3-1/2	
9.	07-0324	1	Spring, Tension, 1/2 x 3	
10.	07-1714	4	Screw, Cap, 5/16-18 x 1	
11.	07-1973	2	Screw, Cap, 5/16-18 x 1-1/4	
12.	07-2952	5	Screw, Whiz Lock, M6 x 1 x 20	
13.	07-2956	5	Nut, Insert, M6 x 1, Grip Length .027-.165	
14.	07-3273	12	Washer, Lock, Split, 5/16	
15.	07-3275	8	Washer, Flat, 5/16	
16.	07-3278	12	Nut, Hex, 5/16-18	
17.	07-3280	8	Bolt, Carriage, 5/16-18 x 3/4	
18.	07-3432	2	Screw, Cap 1/4-20 x 3/4	
19.	07-3624	4	Tack, Metal	
20.	07-3655	2	Screw, Cap, 3/8-16 x 1-1/2	
21.	07-4032	2	Washer, Flat, 1/4	
22.	07-4036	2	Nut, Hex, Nylock, 3/8-16	
23.	07-4038	2	Washer, Lock, Split, 1/4	
24.	07-4039	2	Nut, Hex, 1/4-20	
25.	08-0005	8	Flange, Bearing, 2 Hole	
26.	08-0006	2	Bearing, 1 Round, with Collar, Only	
27.	08-0034	1	Bearing, 7/8 Hex, with Hole	
28.	08-0037	1	Bearing, 7/8 Hex, without Hub	
29.	11-1804	1	Plate, Retainer, Section, Set, C48	
30.	13-7398	1	Frame, Brush, C36TW	
31.	13-7401	1	Arm, Idler, C36TW	
32.	13-7404	1	Hood, C36TW	
33.	13-7417	1	Shield, Input, C36TW	
34.	13-7419	1	Shield, Chain, C36TW	
35.	13-7420	1	Shield, Chain, Top, C36TW	
36.	13-7427	1	Shaft, Hex, 5, with Hole	
37.	13-7441	1	Bushing, 5/8 x 12 gauge x .75	
38.	50-0004	1	Label, Plate, Serial Number	
<u>Not Shown</u>				
01-0012C		1	Set, Section, 24, Poly, Convoluted	
01-0016C		1	Set, Section, 24, Combination, Convoluted	

Brush Head Assembly

Assembly No. 28-8026

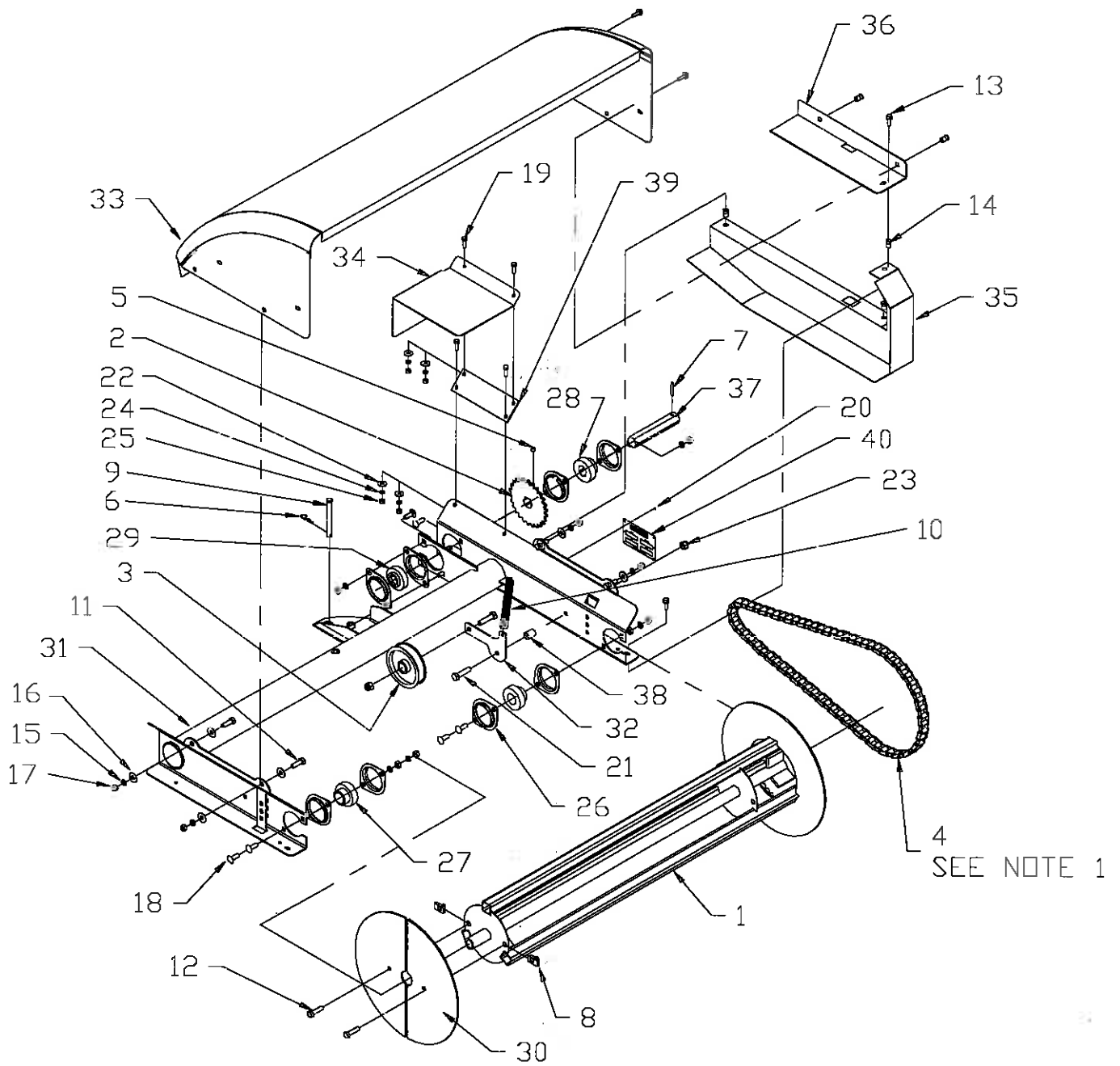


Brush Head Assembly (Snow Specifications)

Item	Part	Qty	Description	NOTE – Remove section bristles from chain before starting engine.
1.	01-4105	1	Weld, Core, M24	
2.	06-0008	1	Sprocket, 4126 x 7/8 Hex	
3.	06-0009	1	Pulley, Idler, 3-3/4 x 7/8 x 3/8	
4.	06-0427	1	Chain, Assembly, #40 x 111, Endless	
5.	07-0002	1	Screw, Set, 5/16-18 x 5/16	
6.	07-0209	1	Clip, Hairpin, 16 gauge x 1-3/8	
7.	07-0239	1	Pin, Spring, Lock, 3/16 x 1-1/4	
8.	07-0240	2	Nut, Lock, Stamped, 5/16 x 18	
9.	07-0259	1	Pin, Clevis, 3/8 x 3-1/2	
10.	07-0324	1	Spring, Tension, 1/2 x 3	
11.	07-1714	4	Screw, Cap, 5/16-18 x 1	
12.	07-1973	2	Screw, Cap, 5/16-18 x 1-1/4	
13.	07-2952	5	Screw, Whiz Lock, M6 x 1 x 20	
14.	07-2956	5	Nut, Insert, M6 x 1, Grip Length .027-.165	
15.	07-3273	12	Washer, Lock, Split, 5/16	
16.	07-3275	8	Washer, Flat, 5/16	
17.	07-3278	12	Nut, Hex, 5/16-18	
18.	07-3280	8	Bolt, Carriage, 5/16-18 x 3/4	
19.	07-3432	4	Screw, Cap 1/4-20 x 3/4	
20.	07-3624	4	Tack, Metal	
21.	07-3655	2	Screw, Cap, 3/8-16 x 1-1/2	
22.	07-4032	4	Washer, Flat, 1/4	
23.	07-4036	2	Nut, Hex, Nylock, 3/8-16	
24.	07-4038	4	Washer, Lock, Split, 1/4	
25.	07-4039	4	Nut, Hex, 1/4-20	
26.	08-0005	8	Flange, Bearing, 2 Hole	
27.	08-0006	2	Bearing, 1 Round, with Collar, Only	
28.	08-0034	1	Bearing, 7/8 Hex, with Hole	
29.	08-0037	1	Bearing, 7/8 Hex, without Hub	
30.	11-1804	1	Plate, Retainer, Section, Set, C48	
31.	13-7398	1	Frame, Brush, C36TW	
32.	13-7401	1	Arm, Idler, C36TW	
33.	13-7404	1	Hood, C36TW	
34.	13-7417	1	Shield, Input, C36TW	
35.	13-7419	1	Shield, Chain, C36TW	
36.	13-7420	1	Shield, Chain, Top, C36TW	
37.	13-7427	1	Shaft, Hex, 5, with Hole	
38.	13-7441	1	Bushing, 5/8 x 12 gauge x .75	
39.	13-7453	1	Plate, Extension, C36TW, Snow Special	
40.	50-0004	1	Label, Plate, Serial Number	
<u>Not Shown</u>				
01-0012C		1	Set, Section, 24, Poly, Convoluted	
01-0016C		1	Set, Section, 24, Combination, Convoluted	

Brush Head Assembly (Snow Specifications)

Assembly No. 28-8028

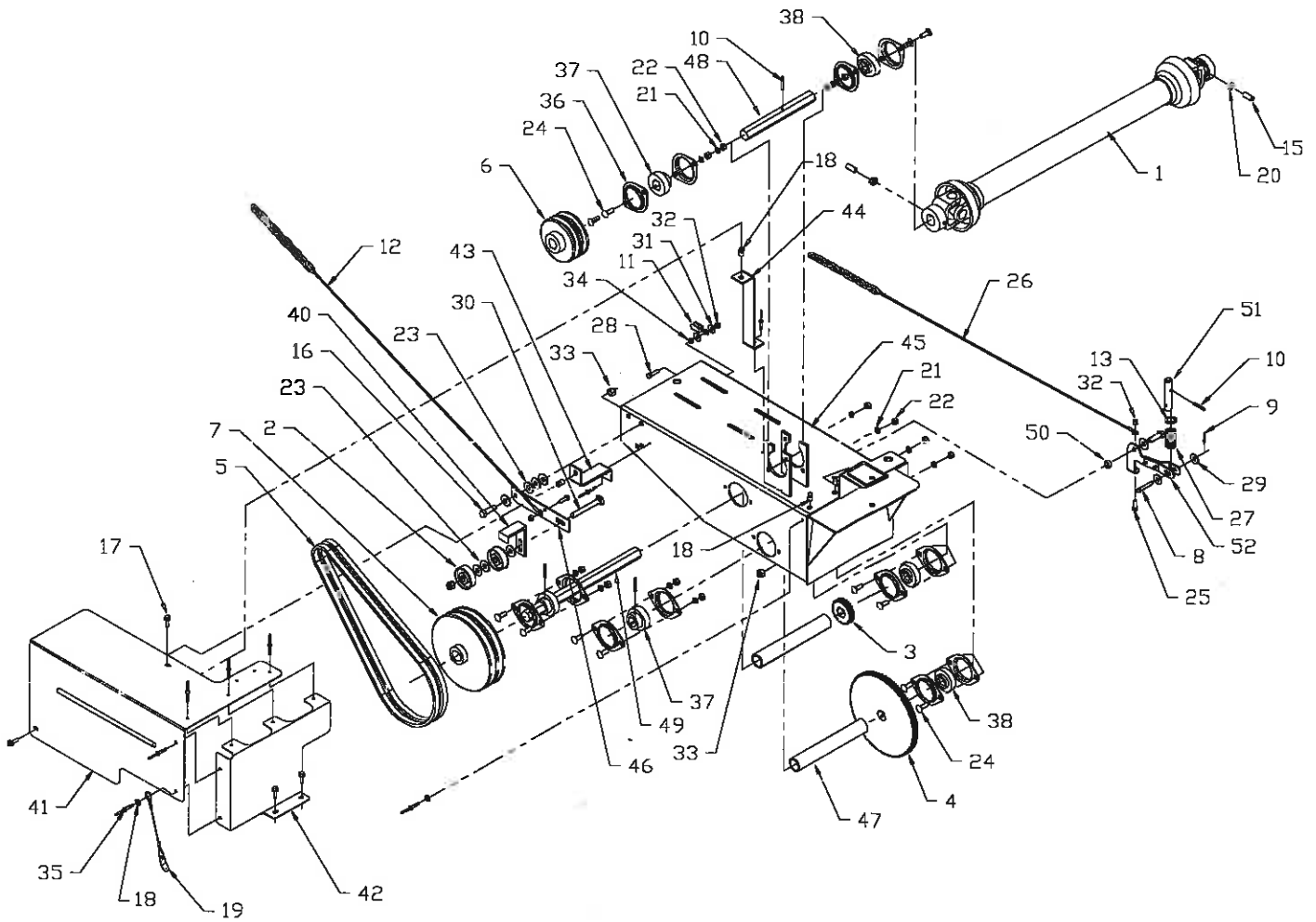


Body Assembly

Item	Part	Qty	Description
1.	05-1247	1	Shaft, Drive, with Shields
2.	06-0030	2	Pulley, Idler, Double
3.	06-0144	1	Gear, NCG 16, 33 x 7/8 Hex, Hardened Teeth
4.	06-0145	1	Gear, NCG 16, 119 x 7/8 Hex
5.	06-0293	2	Belt, Pulley, V
6.	06-0309	1	Pulley, V, 4, 4, Hex, Double
7.	06-0310	1	Pulley, V, 7,7, Hex, Double
8.	07-0192	1	Pin, Clevis, 1/4 x 1-1/2
9.	07-0205	1	Pin, Cotter, 1/8 x 1
10.	07-0239	4	Pin, Spring, Lock, 3/16 x 1-1/4
11.	07-0394	1	Pulley, Swivel, Guide
12.	07-1359	1	Cable, Control, 1 Lever
13.	07-1374	1	Washer, .625 x 1
14.	07-1430	2	Washer, Flat, #10
15.	07-1941	2	Screw, Set, 3/8-16 x 1, Cup Point
16.	07-2116	2	Screw, Cap, 3/8-16 x 1-1/4
17.	07-2952	4	Screw, M6-1 x 20
18.	07-2956	4	Nut, Insert, M6 x 1, Grip Length, .037-.165
19.	07-3011	1	Lanyard, 1/6 Cable, 1-1/4 Tab x 6
20.	07-3272	2	Nut, Hex, Jam, 3/8-16
21.	07-3273	12	Washer, Lock, Split, 5/16
22.	07-3278	12	Nut, Hex, 5/16-18
23.	07-3279	9	Washer, Flat, 3/8
24.	07-3280	12	Bolt, Carriage, 5/16-18 x 3/4
25.	07-3432	2	Screw, Cap, 1/4-20 x 3/4
26.	07-3443	1	Cable, Control, Swing
27.	07-3611	1	Spring, Compression, .845 od, 10.13 lb
28.	07-3637	1	Screw, Cap, 1/4-20 x 1
29.	07-3736	2	Washer, Flat, M8
30.	07-4030	1	Bolt, Carriage, 3/8-16 x 3
31.	07-4032	2	Washer, Flat, 1/4
32.	07-4033	3	Nut, Hex, Nylock, 1/4-20
33.	07-4036	3	Nut, Hex, Nylock, 3/8-16
34.	07-4039	1	Nut, Hex, 1/4-20
35.	07-5011	8	Rivet, Steel, 3/16
36.	08-0005	12	Flange, Bearing, 2 Hole
37.	08-0034	3	Bearing, 7/8 Hex, with Hole
38.	08-0037	3	Bearing, 7/8 Hex, without Hub
40.	11-1876	1	Plate, Belt, Retainer
41.	13-11866	1	Shield, Side
42.	13-11867	1	Shield, Top
43.	13-11870	1	Bracket, Shield, Side
44.	13-11871	1	Bracket, Shield, Top
45.	13-11873	1	Weld, Body
46.	13-7418	1	Arm, Engage, Drive
47.	13-7423	2	Tube, Plastic, 1 x 8.13
48.	13-7426	1	Shaft, Hex, 8, with Hole
49.	13-7429	1	Shaft, Hex, 13, with Hole
50.	13-7440	1	Bushing, .62 x 12 gauge x .25
51.	13-7914	1	Pin, Stop, Swing
52.	13-7917	1	Assembly, Lever, Stop, Swing

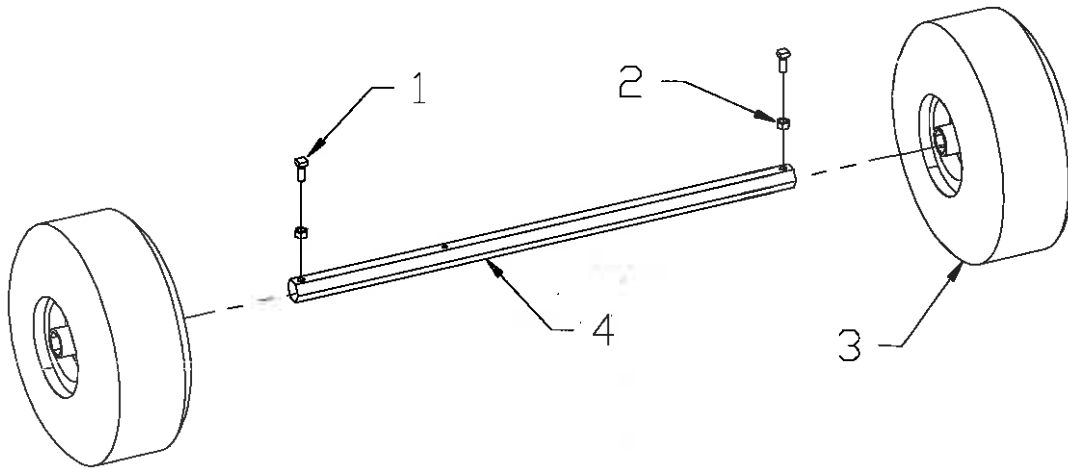
Body Assembly

Assembly No. 28-8027



Wheel Assembly

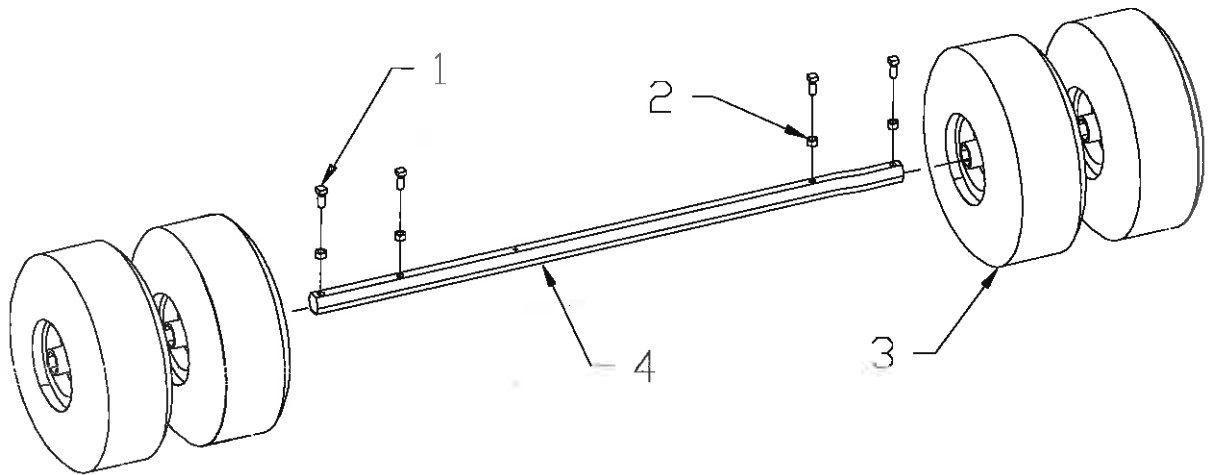
Assembly No. 28-8023



Item	Part	Qty	Description
1.	07-0641	2	Screw, Set, Square Head, 5/16 x 3/4, Cup
2.	07-3278	2	Nut, Hex, 5/16-18
3.	07-3346	2	Assembly, Tire/Wheel, 1 Piece
4.	13-7428	1	Shaft, Hex, 23, W/Holes

Wheel Assembly (Backfill)

Assembly No. 28-8024



Item	Part	Qty	Description
1.	07-0641	4	Screw, Set, Square Head, 5/16 x 3/4, Cup
2.	07-3278	4	Nut, Hex, 5/16-18
3.	07-3346	4	Assembly, Tire/Wheel, 1 Piece
4.	13-7720	1	Shaft, Hex, 30, W/Holes

Option – Caster Kit

Installing

Figure 7 shows a caster fully installed.

1. On 1 side of the brush frame, remove the nut, lock washer and flat washer from the screw (figure 7).
2. Slide the lanyard onto the screw and attach the washer, lock washer and nut just removed. Reinstall the hardware.
3. Lift the brush frame slightly and insert the caster leg into the opening in the bottom of the brush frame.
4. Aligning the hole in the caster leg with 1 in the brush frame, adjust the caster to the height best suited to your application. (Refer to the Operating Tips section.)
5. Insert the quick release pin, which is attached to the lanyard, into the aligned holes.
6. Repeat steps 1-5 on the other side of the unit.



figure 7

Adjusting Brush Pattern

The sweeper works best with the brush properly adjusted. Casters can affect the brush height, so check the height after caster installation.

1. Move the sweeper to a dusty, flat surface. Leave the engine running.
2. Start the sweeper at a slow speed. Run the sweeper in a stationary position for 30 seconds.
3. Switch off the engine, lift the brush head assembly and back away. The brush pattern should be 2-3 in. (51-76 mm) wide, running the length of the brush. Compare the swept area with figure 8.
4. If needed, adjust the casters. To raise the brush, use a lower set of holes. To lower the brush, use a higher set of holes.

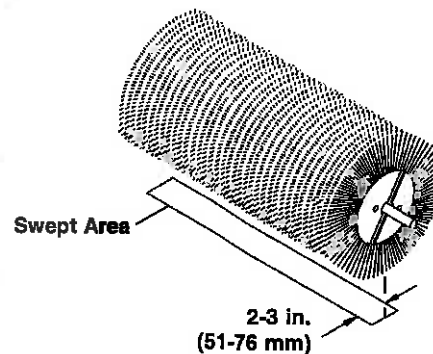
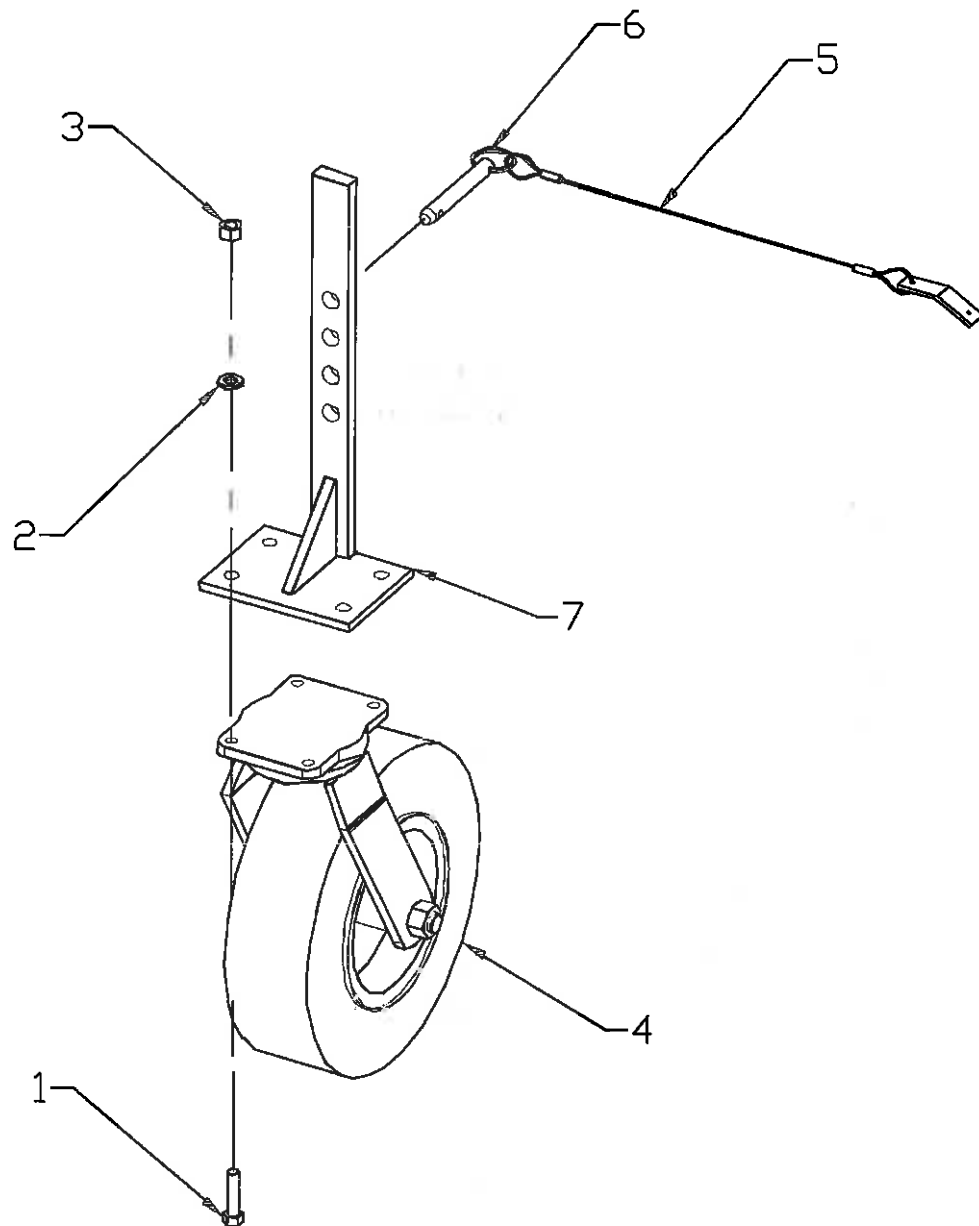


figure 8

Option – Caster Kit

To order, ask for kit 13-7405.

52-0200



Item	Part	Qty	Description
1.	07-3436	8	Bolt, Carriage, 5/16-18 x 3/4
2.	07-3273	8	Washer, Lock, Split, 5/16
3.	07-3278	8	Nut, Hex, 5/16-18
4.	07-0253	2	Caster, 5 Dia
5.	07-3011	2	Lanyard, 1/16 Cable, 1-1/4 Tab x 6, Type C
6.	07-3589	2	Pin, Quick Release, .375 x 1.1
7.	13-7406	2	Caster, Leg, C36TW

Installing

1. On the right-hand side of the sweeper, remove 2 cap screws from the brush hood (figure 9).
2. Attach the side plate (figure 10) with hardware just removed and 2, 1/4 x 3/4 in. cap screws, flat washers, lock washers and nuts inside the brush hood (figure 11).
3. Install an arm on the right-hand side of the sweeper using a 5/16-18 x 1 in. cap screw, flat washer and nylock nut in the rear side plate hole and the shoulder bolt on the side plate (figure 12). Be sure to place a washer on the cap screw, between the arm and the side plate.
4. On the left side of the sweeper, remove 2 screws from the outside and 1 screw (figure 13) from the inner shield. Remove the inner shield.
5. Attach the side plate with 2 screws just removed from the outside of the brush hood.
6. Replace the inner shield and screw.
7. Install an arm on the left side of the sweeper. Be sure to place a flat washer between the arm and the side plate.



figure 10



figure 11



figure 9



figure 12

Option – Hopper

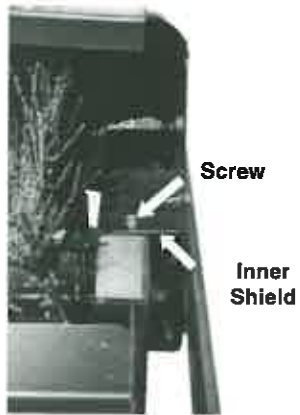


figure 13



figure 14



figure 15

8. Install the handle (figure 14) on the front of the hopper. Use 8, M6 x 1 x 20 cap screws.
9. Align the hopper in front of the sweeper.
10. On each side of the hopper, turn the pressure pin to lock the roll pin in the notch (figure 15).
11. Slide the rear guide pins (figure 16) into the slots in the arms. Once the rear guide pins have reached the ends of the slots, pull the handle toward yourself and push back on the hopper (figure 14); the front guide pins (figure 16) will click into place.
12. Pivot the latches down (figure 16).
13. Unlock the roll pins; the pressure pins will snap into place.

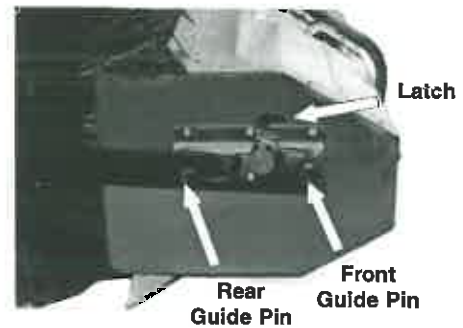


figure 16

Emptying

1. On the right side of the sweeper, pull out the pressure pin (figure 17), turn it to the right and then lock the roll pin in the notch (figure 18).
2. Pivot the latch up (figure 19).
3. Repeat steps 1 and 2 on the left-hand side of the sweeper.
4. Pull up on the handle (figure 20) to detach the hopper from the sweeper.
5. Wheel the hopper away and dump it.
6. Align the hopper in front of the sweeper.
7. Slide the rear guide pins (figure 19) into the slots in the arms. Once the rear guide pins have reached the ends of the slots, pull the handle toward yourself and push back on the hopper; the front guide pins will click (figure 19) into place.
8. Pivot the latches down.
9. Unlock the roll pins; the pressure pins will snap into place.

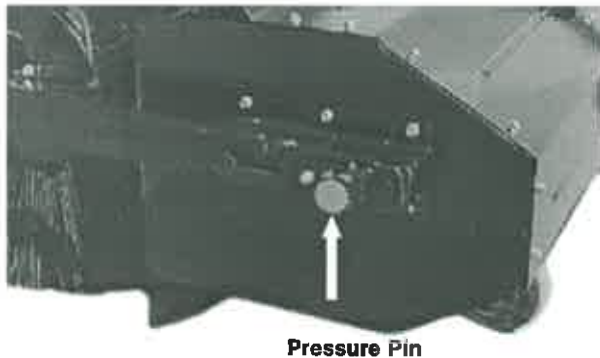


figure 17



figure 18

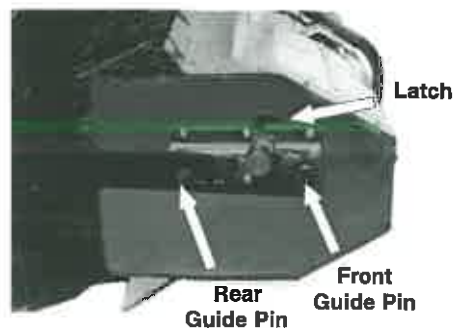


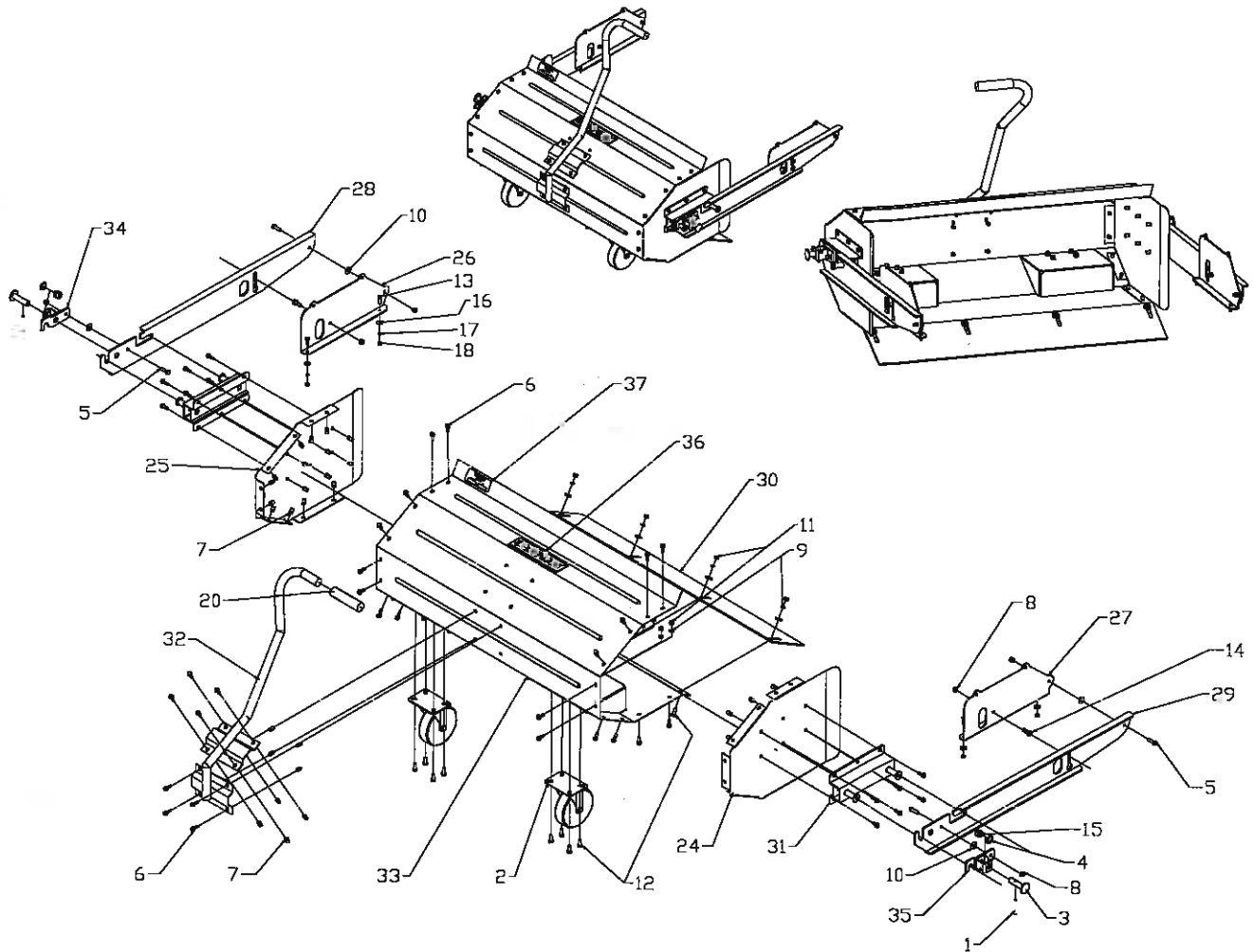
figure 19



figure 20

Option – Hopper

To order, ask for assembly 11-5738.



Item	Part	Qty	Description
1.	07-0204	2	Pin, Roll, 1/4 x 2
2.	07-0253	2	Casters, 5 Dia
3.	07-0319C	2	Pin, Hitch, Quick
4.	07-1374	2	Washer, .625 x 1
5.	07-1714	4	Screw, Cap, 5/16-18 x 1
6.	07-2952	40	Screw, M6 x 1 x 20
7.	07-2956	40	Nut, Insert, M6 x 1
8.	07-3270	6	Nut, Hex, Nylock, 5/16-18
9.	07-3273	12	Washer, Lock, Split, 5/16
10.	07-3275	8	Washer, Flat, 5/16
11.	07-3278	12	Nut, Hex, 5/16-18
12.	07-3280	12	Bolt, Carriage, 5/16-18 x 3/4
13.	07-3432	4	Screw, Cap, 1/4-20 x 3/4
14.	07-3608	2	Bolt, Shoulder, 3/8 x 3/8, 5/16-18
15.	07-3611	2	Spring, Compres, 545 OD, 10.13 lb
16.	07-4032	4	Washer, Flat, 1/4
17.	07-4038	4	Washer, Lock, Split, 1/4

Item	Part	Qty	Description
18.	07-4039	4	Nut, Hex, 1/4-20
20.	09-0016	1	Handle, Grips
24.	13-7675	1	Plate, Hopper, Side, Left
25.	13-7676	1	Plate, Hopper, Side, Right
26.	13-7678	1	Plate, Hopper, Mounting, Right
27.	13-7679	1	Plate, Hopper, Mounting, Left
28.	13-7684	1	Arm, Mounting, Hopper, Right
29.	13-7685	1	Arm, Mounting, Hopper, Left
30.	13-7686	1	Flap, Bottom, Hopper
31.	13-7689	2	Weld, Hitch, Mounting, Hopper
32.	13-7690	1	Weld, Handle, Bar Hopper
33.	13-7691	1	Weld, Hopper, Main
34.	13-7692	1	Weld, Latch, Hopper, Right
35.	13-7693	1	Weld, Latch, Hopper, Left
36.	50-0184	1	Label, Logo, SWEEPSTER
37.	50-0249	1	Label, Plate, Part Number

Option – Snow Special Conversion Kit

Installing

NOTE – Check that the brush head is in the center position before installing the Snow Special conversion kit.

1. If installed, remove the optional caster from the left-hand side of the sweeper.
2. Remove the brush input shield, chain shield and chain top shield, located inside the brush hood, from the left-hand side of the brush hood and frame (figure 21).
3. Loosen the hardware on the universal joint and remove the drive shaft from the brush input shaft (figure 22).
4. Disassemble the chain at the connecting link and remove the chain.
5. Loosen the sprocket set screw (figure 22).
6. Remove the hardware from both bearing/flange assemblies (figure 23). Remove the bearing/flange assembly that is toward the inside of the unit.
7. Remove the brush input shaft and standard sprocket from the brush frame.
8. Hold the conversion kit sprocket where the standard sprocket was. Make sure the hub faces toward the outside of the brush frame.
9. Insert the brush input shaft through the brush frame opening and conversion kit sprocket.

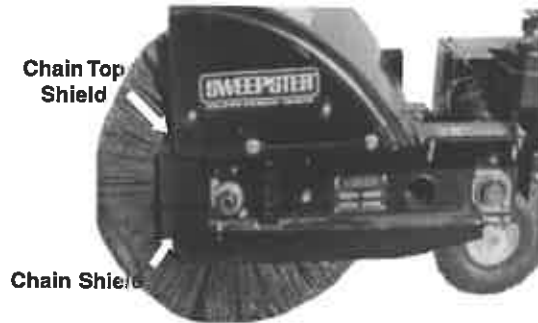


figure 21

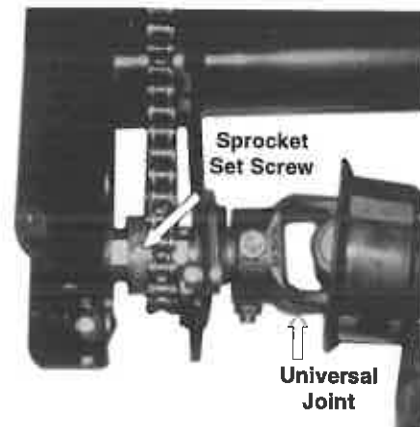


figure 22

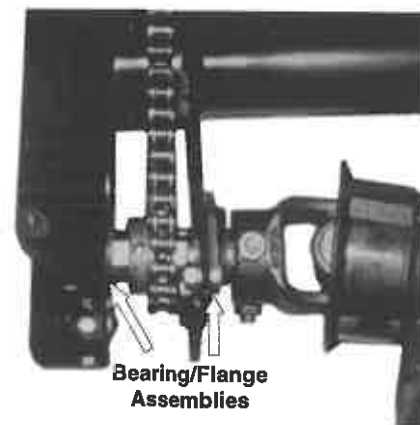


figure 23

Option – Snow Special Conversion Kit

10. Reinstall the bearing/flange assembly on the outside of the brush frame. Install hardware, but do not tighten it completely.
 11. Wrap the conversion kit chain around the core sprocket and conversion kit sprocket. Join the chain at the connecting link. Make sure the idler pulley, located inside the brush frame, rests on top of the lower part of the chain.
 12. Slide the bearing/flange assembly onto the brush input shaft. Install the hardware; tighten the hardware on both bearing/flange assemblies.
 13. Measure from the inside the brush frame to the center of the conversion kit sprocket. Adjust the sprocket so the dimension is $1\frac{3}{8}$ in. (35 mm) (figure 24). Tighten the sprocket set screw.
 14. Attach the drive shaft to the brush input shaft, and then tighten the set screw on the drive shaft.
 15. Place the extension plate under the lip of the brush frame (figure 25). Install and tighten the screws, washers and nuts from the conversion kit.
 16. Reinstall the brush input shield, the chain shield and the chain top shield.
-



figure 24

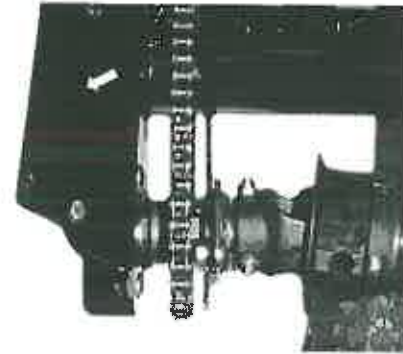
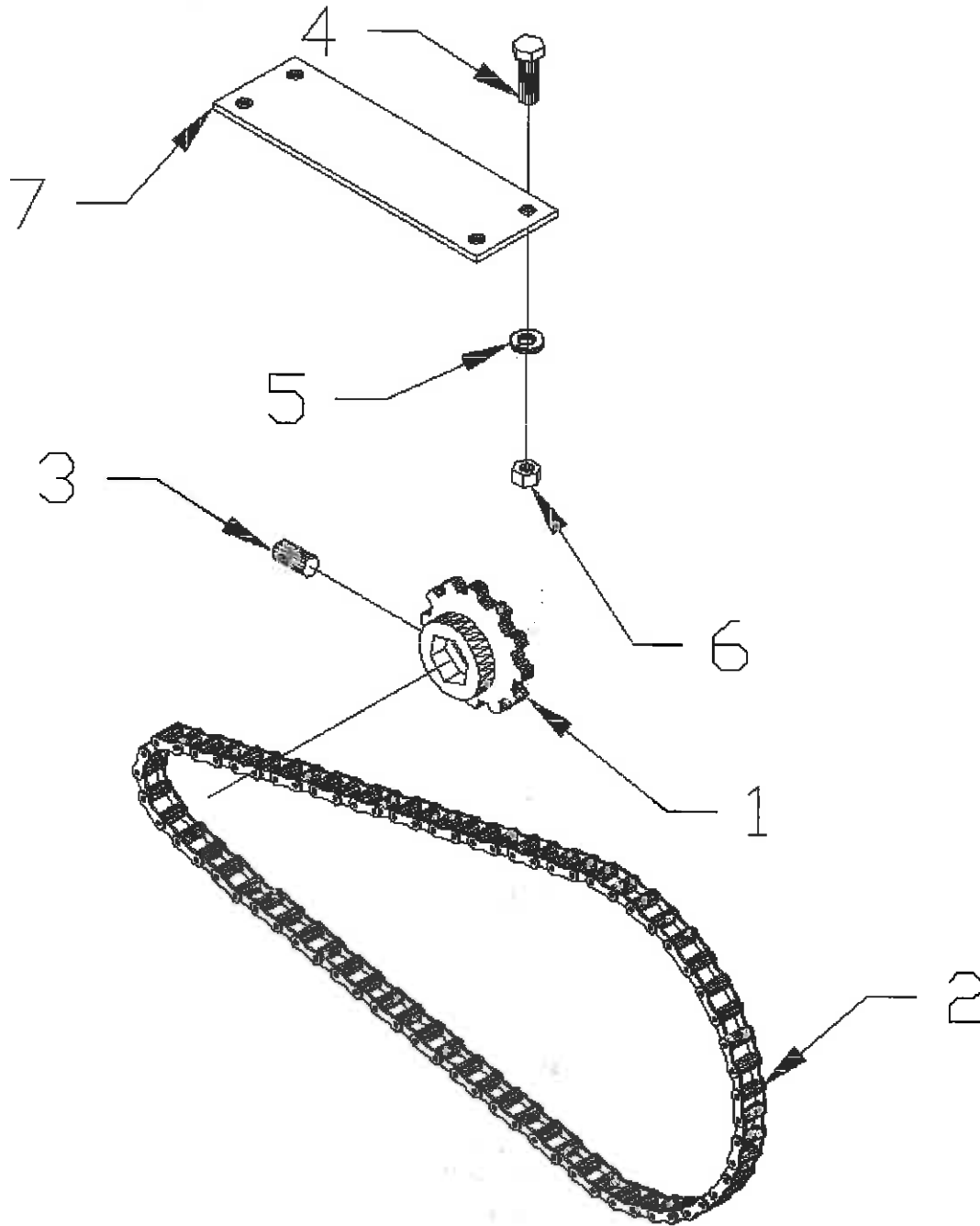


figure 25

Option – Snow Special Conversion Kit

To order, ask for kit 11-4429.

52-0201



Item	Part	Qty	Description
1.	06-0008	1	Sprocket, 4126 x 7/8 Hex
2.	06-0427	1	Chain, Assembly, #40 x 111, Endless, with Connecting Link
3.	07-0002	1	Screw, Set, 5/16-18 x 5/16
4.	07-0009	2	Screw, Cap, 1/4 x 3/4
5.	07-0166	2	Washer, Lock, Split, 1/4
6.	07-0176	2	Nut, Hex, 1/4-20
7.	13-7453	1	Plate, Extension, C36TW, Snow Special

Torque Values

Bolt Torque Specifications

Body Size Grade 5	Ft-lbs		Body Size Class 8.8	Ft-lbs
1/4 - 20	6 ± 1		M6 - 1.0	5 ± 1
- 28	7 ± 1		n/a	-
5/16 - 18	13 ± 3		n/a	-
- 24	14 ± 3		n/a	-
3/8 - 16	23 ± 5		M8 - 1.25	14 ± 3
- 24	26 ± 5		- 1.0	-
7/16 - 14	37 ± 8		M10 - 1.5	29 ± 6
- 20	41 ± 9		- 0.75	-
1/2 - 13	56 ± 11		M12 - 1.75	50 ± 10
- 20	63 ± 12		- 1.0	-
9/16 - 12	82 ± 14		M14 - 2.0	80 ± 14
- 18	91 ± 16		- 1.5	-
5/8 - 11	113 ± 20		M16 - 2.0	125 ± 22
- 18	127 ± 23		- 1.5	-
3/4 - 10	201 ± 26		n/a	-
- 16	223 ± 29		n/a	-
7/8 - 9	321 ± 41		M20 - 2.5	244 ± 31
- 14	355 ± 46		- 1.5	-
1 - 8	483 ± 62		M24 - 3.0	422 ± 54
- 12	528 ± 68		- 2.0	-

Body Size Grade 8	Ft-lbs		Body Size Class 10.9	Ft-lbs
1/4 - 20	9 ± 2		M6 - 1.0	8 ± 1
- 28	10 ± 2		n/a	-
5/16 - 18	18 ± 4		n/a	-
- 24	20 ± 4		n/a	-
3/8 - 16	32 ± 7		M8 - 1.25	20 ± 4
- 24	37 ± 8		- 1.0	-
7/16 - 14	52 ± 11		M10 - 1.5	40 ± 8
- 20	58 ± 12		- 0.75	-
1/2 - 13	80 ± 16		M12 - 1.75	69 ± 14
- 20	90 ± 18		- 1.0	-
9/16 - 12	115 ± 20		M14 - 2.0	110 ± 20
- 18	128 ± 23		- 1.5	-
5/8 - 11	159 ± 28		M16 - 2.0	173 ± 31
- 18	180 ± 32		- 1.5	-
3/4 - 10	282 ± 36		n/a	-
- 16	315 ± 41		n/a	-
7/8 - 9	454 ± 59		M20 - 2.5	337 ± 44
- 14	500 ± 65		- 1.5	-
1 - 8	681 ± 88		M24 - 3.0	583 ± 75
- 12	746 ± 97		- 2.0	-

Foot-pounds may be converted to Newton Meters by multiplying by 1.35582.
 Foot-pounds may be converted to Inch-pounds by dividing by 12.
 If the nut and screw are not the same grade, the lower grade will always be used.

NOTE – Nylock nuts are utilized when greater resistance to vibrating loose is required, and greater operating temperatures are not a factor. In addition, like lock nuts, nylock nuts have a safety feature that if the bolt does vibrate loose, the nut will remain on the screw. Install nylock nuts to the standard torque shown above.

SWEEPSTER WARRANTY REGISTRATION

Thank you for purchasing a Sweepster product. Warranty protection on this equipment is valid only when completed and signed by customer and dealer and mailed to SWEEPSTER. If you have any questions, please give us a call at 1-800-456-7100 or (734) 996-9116.

PLEASE PRINT - PRESS HARD MULTIPLE COPIES

Purchaser's Name

Address _____ *City* _____

State _____ *Zip* _____ *Phone* _____

Model Number _____ *Serial Number* _____

Engine Make _____ *Engine Model* _____

Date Delivered to Dealer _____ *Date Delivered to Customer* _____

Dealer's Name

Address _____ *City* _____

State _____ *Zip* _____ *Phone* _____

White-Customer Yellow-Dealer Card-Return to Sweepster postage paid

Form: SWR Rev 4/97

1. MATERIAL YOU ARE SWEEPING?

- Snow Dirt General Debris Thatch
- Other _____

2. MAKE AND MODEL NUMBER OF PRIME MOVER.

(For attachment sweepers only.) _____

3. DID YOU OR YOUR CUSTOMER RECEIVE AN OPERATION/PARTS MANUAL? Yes No

4. DID THE UNIT FIT CORRECTLY TO PRIME MOVER?

- Yes No Comments _____

5. WHY DID YOU PURCHASE A SWEEPSTER? (check one)

- Quality Price Reputation Simplicity Prior Use
- Dealer Referral Operation Features Availability
- Other _____

6. PLEASE RATE THE FOLLOWING (check one)

- Appearance: Excellent Good Poor
- Delivery Time: Excellent Good Poor
- Sales Service: Excellent Good Poor
- Performance: Excellent Good Poor
- Technical Support: Excellent Good Poor

7. SUGGESTIONS/COMMENTS? _____



SWEEPSTER Limited Six Month Warranty

For a period of six (6) months from date of delivery of product to the original user, Sweepster, Inc. of Dexter, Michigan warrants each product to be free from manufacturing defects, subject to the limitations contained in this policy.

This warranty does not apply to defect caused, in whole or in part, by unreasonable use while in the possession of the user, including, but not limited to: failure to properly set up product; failure to provide reasonable and necessary maintenance; normal wear; routine tune ups or adjustments; improper handling or accidents; operation at speed or load conditions contrary to published specifications; improper or insufficient lubrication; improper storage. This warranty is also not a guarantee that the performance of each product will meet the expectations of the purchaser.

Sweepster, Inc. shall not be liable for consequential damages of any kind, including, but not limited to: consequential labor costs or transportation charges in connection with the replacement of repair of defective parts; lost time or expense which may have accrued because of said defects. In no event shall Sweepster, Inc.'s total liability hereunder exceed the product purchase price.

Sweepster, Inc. makes no warranty with respect to trade accessories or any component or accessory of the product which was not manufactured by Sweepster, Inc. including any purchased components of any kind. These are subject to the warranties of their respective manufacturers. The warranty will be considered void if the product or any part of the product is modified or repaired in any way not expressly authorized by Sweepster, Inc., or if closed components are disassembled prior to return. Closed components include, but are not limited to: gearboxes, hydraulic pumps, motors, cylinders, and actuators.

Our obligation under the warranty is expressly limited, at our option, to the replacement or repair at Sweepster, Inc. of Dexter, Michigan, or at a service facility designated by us, or such part or parts as inspection shall disclosed to have been defective. We are not responsible for unauthorized repairs or replacements. Any implied or statutory warranties, including any warranty of merchantability or fitness for a particular purpose, are expressly limited to the duration of this written warranty. We make no other express warranty, nor is anyone authorized to make any in our behalf. This warranty cannot be extended, broadened, or changed except in writing by an authorized officer of Sweepster, Inc.

Glossary – Terms & Abbreviations

asphyxiation – unconsciousness or death caused by lack of oxygen.

brush pattern – area of dirt removed from sweeping surface; with a properly adjusted sweeper, the pattern is the same width for the entire length.

caster kit – optional equipment used to regulate brush height; especially helpful when thatching and sweeping delicate surfaces, like paver stones.

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

control cable – cable that, when engaged, activates brush rotation.

core – weldment that holds brush sections.

drive pins – portion of brush section that prevents it from spinning around the core.

engine stop switch – safety switch that stops the engine from running. Set to On before starting engine.

handle assembly – assembly that includes hand grips, control levers and control switches.

hood – brush shield.

hopper – optional equipment that collects debris swept by the brush.

important – used for instructions when machine damage may be involved.

in. – inches.

left-hand – side that is on the left when facing the normal forward direction of travel of the machine.

mm – millimeters.

note – indicates supplementary information.

poly – polypropylene; plastic material used to make brush bristles.

qty – quantity.

remote air cleaner – assembly which attaches to the engine that filters air; not used with Briggs & Stratton IC, Honda and Robin engines.

retainer – removable plate or set of plates that keeps sections on the core.

right-hand – side that is on the right when facing the normal forward direction of travel of the machine.

section – single brush wafer.

section set – replacement brush wafers.

snow special conversion kit – optional equipment that makes the unit better-suited for sweeping snow.

swing control cable – cable that, when released, allows the operator to angle the sweeper.

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

windrow – pile of debris.

zerk – grease fitting.

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Appendix – 6:1 Gear Reduction (Robin Engine)

Maintenance

Before starting new engine, fill engine crankcase and gear reduction unit to indicated oil levels with a good quality engine oil. Refer to your "Operators Manual" for engine crankcase oil recommendations. The following are lubricating instructions for the gear reduction unit:

S.A.E. 30 for spring, summer, or fall operation.

S.A.E. 20 for winter operation.

Remove filler and level plugs. Note: when remounting, the filler plug has a vent hole. Pour oil through filler opening until it runs out through level hole. About 3/8 pint (177 cc) is required. Install oil level plug and vented filler plug.

When changing engine crankcase oil, check reduction unit and add oil if necessary to maintain proper level.

Every 500 hours of operation, or sooner if oil becomes dirty, change oil in reduction unit. To drain oil with engine warm, place pan under reduction unit and loosen cover. Once a year remove cover completely and flush out inside of housing with kerosene. Do not use gasoline for cleaning.

Vented filler plug should be removed periodically and the vent hole should be thoroughly cleaned. Ventilation is necessary to eliminate pressure build-up (causing oil leaks) and to prevent condensation from forming in the housing.

Take Off Shaft Position

The standard location of the take-off shaft is to the right in a 3 o'clock position facing the shaft end of the engine as illustrated in Figure 1. Three other positions are obtainable: above, below or to the left of the engine center-line.

To Change Shaft Position

The mounting holes of the housing are equally spaced so that the reduction unit can be rotated without too much difficulty to obtain either a 6, 9 or 12 o'clock take-off shaft position.

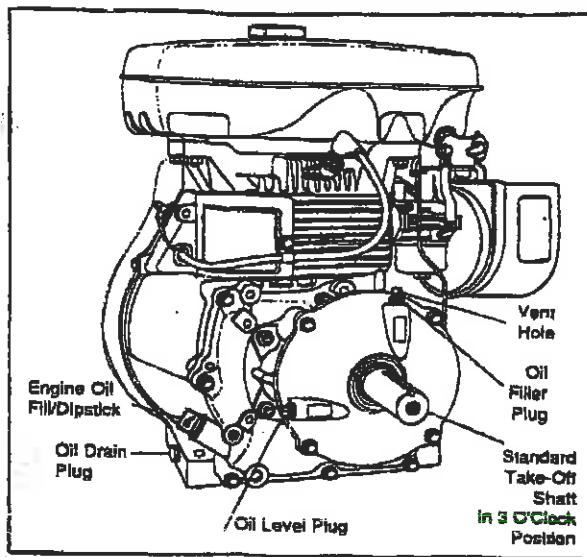


figure 1

Technical Information

Rotation:	Counterclockwise
Shaft dimensions:	
EY18-3W, EY15, EY20	3/4 dia., 3/16" Sq. Key
EY25W, EY27W, EY28	1" dia., 1/4" Sq. Key
3/8" – 24 Tap in end of shaft (all models)	
Take-off shaft position:	3 o'clock standard Optional 6, 9 and 12 o'clock positions
Total weight (dry)	Engine with Reduction Unit
EY15:	35 lbs(16.0 kg)
EY20:	39 lbs(17.8 kg)
EY18-3W:	50 lbs(22.7 kg)
EY28:	53 lbs(24.0 kg)
EY25W/27W:	60 lbs(27.2 kg)
Ball bearing support:	Both ends of take-off shaft
Housing and cover:	Cast-aluminum
Driving gear:	Machined on end of crankshaft
Forged steel take-off shaft:	With driven ring gear (an integral part of forging)

Revision Level

<u>Revision</u>	<u>Item Revised</u>	<u>Date</u>	<u>Originator</u>	<u>Description</u>
A	Pg. 22	3/20/00	M. Golin	Item 9
B	Pp.8-10	5/16/00	M. Golin	186 # 11823
C	Pg. 37	7/30/01		Update Dwg
D	Update	10/24/01	M. Golin	Add new part numbers