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GreenMachine[®]
by John Deere

***Product Update
Service Training Seminar***

www.mymowerparts.com



NEW PRODUCT INTRODUCTION

TRIMMERS \ BRUSHCUTTERS3-7

- **Model 1940:** 30cc Homelite; curved shaft, flex cable; EXPAND-IT® trimmer
- **Model 2840:** 26.1cc Mitsubishi; straight shaft, flex cable; EXPAND-IT® trimmer
- **Model 2600:** 22.6cc Mitsubishi engine; straight shaft, flex cable; 4" head
- **Model 2800:** 26.1cc Mitsubishi engine; straight shaft, flex cable; 4" head
- **Model 3000j:** 26.1cc Mitsubishi engine; straight, solid shaft; 6" head; J handle
- **Model 3000b:** 26.1cc Mitsubishi engine; straight, solid shaft; 6" head; bicycle handle
- **Model 4000j:** 40.6cc Mitsubishi engine; straight, solid shaft; 6" head; J handle
- **Model 4000b:** 40.6cc Mitsubishi engine; straight, solid shaft; 6" head; bicycle handle

EXPAND-IT ATTACHMENT® SPECIFICATIONS4

EDGERS8

- **Model 500e:** 3.5 hp Briggs & Stratton; dual cutting edge 8" (20 cm) star blade; cutting depth 2.25" (5.7 cm); blade speed 3950 rpm; weight 61 lb (27.7 kg)
- **Model 1900e:** 22.6cc Mitsubishi engine; 8" (20 cm) blade, flex shaft, weight 12.5 lb (5.7 kg)

BLOWERS9

- **Model 3000hb:** 30cc; max. air velocity 180 mph (290 km/h); max. air volume 475 cfm; sound level 70 dB(A) @ 50 ft.; weight 10.7 lb (4.9 kg)
- **Model 4600bp:** 40.2cc; max. air velocity 250 mph (402 km/h); max. air volume 590 cfm; sound level 69.5 dB(A) @ 50 ft.; weight 17 lb (7.7 kg)

SPRAYER10

- **Model sp70:** max. capacity 4 gal. (15.1 l); external diaphragm pump; max. pressure 70 psig; wand length 20" (51 cm); weight 9.9 lb (4.5 kg)

HEDGE TRIMMER10

- **Model 2600h:** 26.1cc; single 30" (760mm) cutting edge, double reciprocating; reduction ratio 1: 3.62; weight 12.9 lb (5.9 kg)

CHAIN SAWS11

- **Model 20:** 30cc; automatic chain oiling; 12"-16" (30-40 cm) guide bar sizes; 3/8" pitch low profile saw chain; weight 7.5 lb (3.4 kg)
- **Model 30:** 49cc; automatic chain oiling; 16"-20" (40-50 cm) guide bar sizes; .325" pitch saw chain; weight 11.8 lb (5.3 kg)

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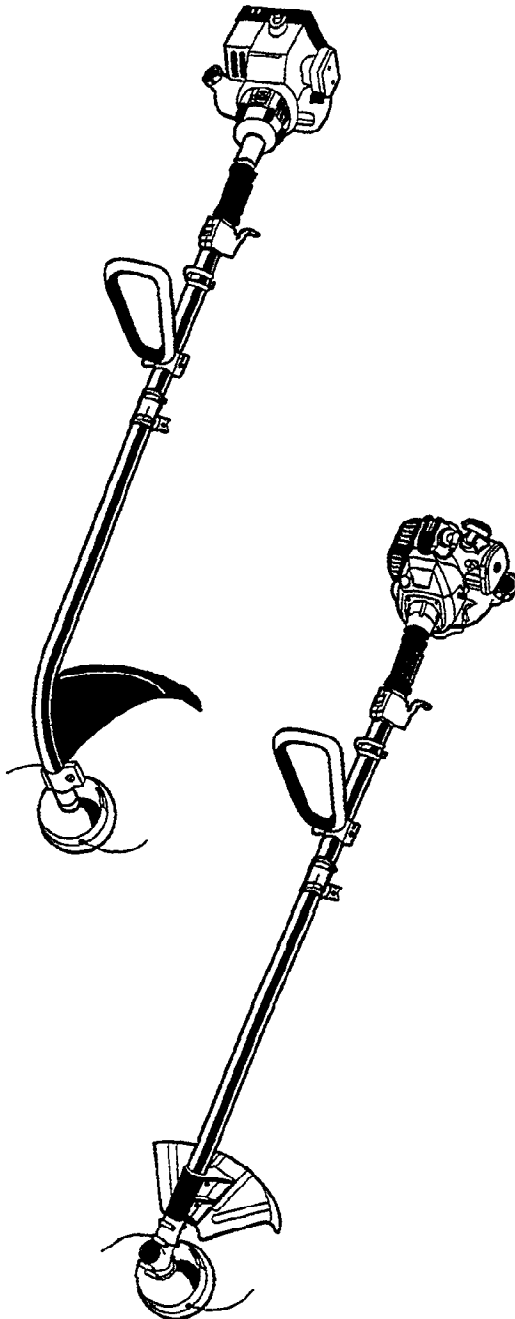


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1940
2840

Expand-It® Trimmers

The models 1940 and 2840 trimmers feature the Expand-It® System of attachments, for unmatched versatility and value. Green Machine® was the first company to offer a single-engine, multiple-tool series. Now proven in years of service, these rugged units are suitable for landscape professionals.



1940 Specifications -

UT Number	26030
Engine	Homelite® 30 cc
Fuel Capacity	23 fl oz (680 ml)
Shaft Type	Curved Flex Shaft
Shaft Tube Dia.	1" (25.4 mm)
Trimming Swath	17" (43 cm)
Stringhead	4" (10.2 cm)
Standard Line	.080" (2 mm)
Line Capacity	30' (9.1 m)
Handle	Loop
Strap	Optional
Blade	Optional
Weight	11.5 lbs (5.2 kg)
Warranty	Commercial User - 90 Days

2840 Specifications -

UT Number	26031
Engine	Mitsubishi 26.1 cc
Fuel Capacity	16.9 fl oz. 500 ml
Shaft Type	Straight Flex Shaft
Shaft Tube Dia.	1" (25.4 mm)
Trimming Swath	17" (43 cm)
Stringhead	4" (10.2 cm)
Standard Line	.080" (2 mm)
Line Capacity	30' (9.1 m)
Handle	Loop
Strap	Optional
Blade	Optional
Warranty	Commercial User - One Year

All Specifications are subject to change without notice.

Page 3



Expand-It™ Attachment Specifications

2381 SNOWTHROWER ATTACHMENT

(Snowthrower Tool Only - UT26009)

Weight:	6 lbs (13.2 kg)
Clearing Width:	12" (30.5 cm)
Clearing Depth:	7" (17.8 cm)
Throwing Distance:	23' (7.0 m)
Throwing Height:	13' (3.9 m)
Throwing Volume:	220 lbs/min. / 2100 cu.ft. / Hr.
Rotor Type:	Dual 3-Blade Closed Center
Rotor Speed:	2,000-2,500 RPM
Drive:	3.6:1 Steel Gears
Scraper:	Replaceable
Shaft Length:	22.75" (58 cm)

2361ba BLOWER ATTACHMENT

(Blower Tool Only - UT 26308)

Weight:	3.0 lbs. (1.4 kg)
Volume:	279 CFM (474 m³/h)
Air Intake:	On top of blower
Fan Type:	Closed Vane
Shaft Length:	26.4" (67 cm)

2851ea STICK EDGER

(Edger Tool Only - UT 26307)

Weight:	4lbs 10 oz (1.8 kg)
Reduction:	1.25:1
Blade:	9"
Height Adjustment:	0 - 2 1/2"
Guide:	3 3/4" Wheel w/Rubber Tread
Guard Type:	Plastic w/Rubber Flap
Edger Type:	Hand held
Shaft Length:	26.4" (67 cm)

2871ca CULTIVATOR

(Cultivator Tool Only - UT 26309)

Weight:	8.8 lbs (4.0 kg)
Housing:	Die cast aluminum
Drive Train:	4.5:1 Gear Drive Reduction
Blades:	Twin Spring Steel Blades
Blade speed:	2,000 R.P.M. @ tines
Depth of Cut:	4.75" (12.1cm)
Shaft Length:	22.75" (58 cm)

3041bca BRUSHCUTTER / TRIMMER ATTACHMENT

(Brushcutter / Trimmer Tool Only - UT 26310)

Weight:	4.2 lbs (1.9 kg)
Cutting Head:	6" (15.2 cm) TFC dual .095" (2.4mm) cutting line
Cutting Swath:	18" (46cm)
Blade:	Included
Shaft Length:	34.4" (87 cm)

All Specifications are subject to change without notice.

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2381



2861ba



2851ea



2871ca



3041bca



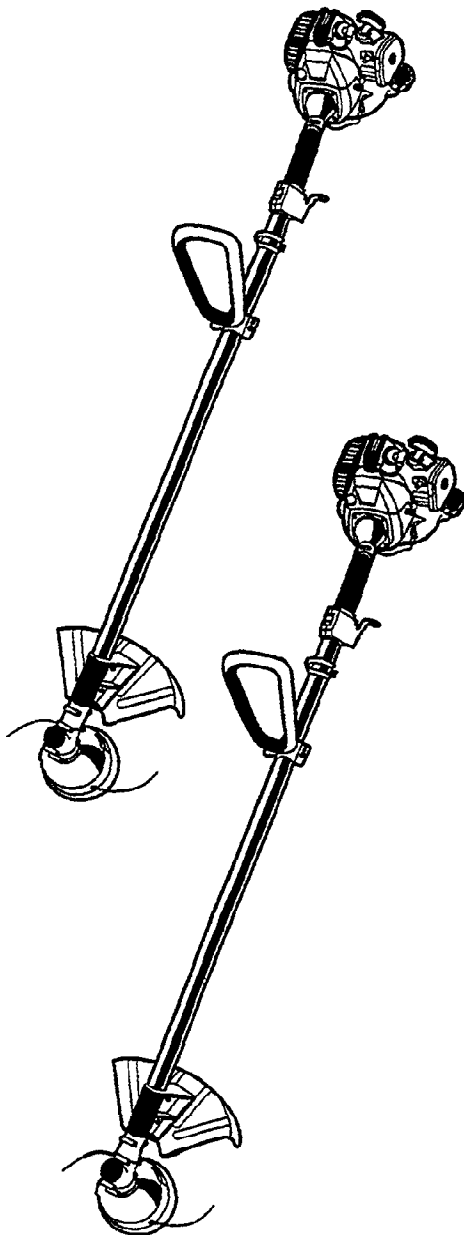


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2600
2800

Trimmer Brushcutters

The 2600, 2800 and 3000 series of trimmer / brushcutters are powered by dependable Mitsubishi full-crank engines. Proven in countless hours of professional use, these engines produce the power and torque needed to finish big jobs fast. And with solid state ignition and primer carburetors, starting is quick and dependable.



2600 Specifications -

UT Number	26032
Engine	Mitsubishi 22.6 cc
Fuel Capacity	16.9 fl oz (500 ml)
Shaft Type	Straight Flex Shaft
Shaft Length	72" (183 cm)
Shaft Tube Dia.	1.03" (26 mm)
Trimming Swath	17" (43 cm)
Stringhead	4" (10.2 cm)
Standard Line	.080" (2 mm)
Line Capacity	30' (9.1 m)
Handle	Loop
Strap	Included
Blade	Optional
Weight	13 lbs (5.9 kg)
Warranty	Commercial User - One Year

2800 Specifications -

UT Number	26033
Engine	Mitsubishi 26.1 cc
Fuel Capacity	16.9 fl oz (500 ml)
Shaft Type	Straight Flex Shaft
Shaft Length	72" (183 cm)
Shaft Tube Dia.	1.03" (26 mm)
Trimming Swath	17" (43 cm)
Stringhead	4" (10.2 cm)
Standard Line	.080" (2 mm)
Line Capacity	30' (9.1 m)
Handle	Loop
Strap	Included
Blade	Optional
Weight	13 lbs (5.9 kg)
Warranty	Commercial User - One Year

All Specifications are subject to change without notice.

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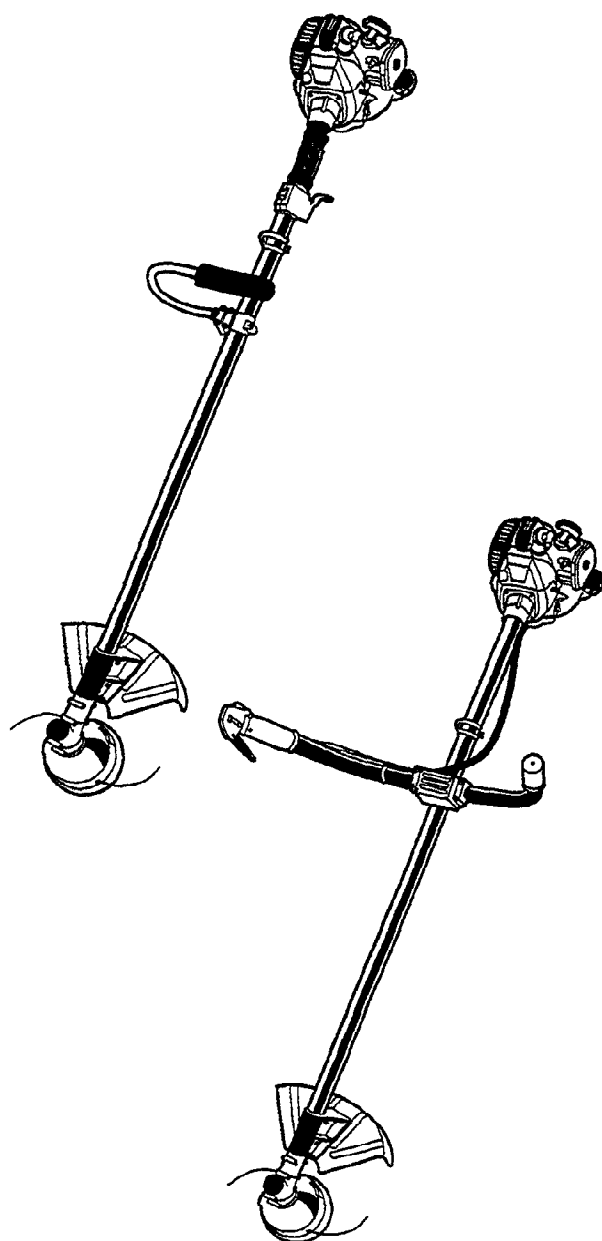
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3000j 3000b

Trimmer Brushcutters

Like the 2600 and 2800 models, the 3000 series trimmer / brushcutters are powered by proven dependable Mitsubishi full-crank engines with solid state ignition and primer carburetors. In addition, the 3000 models offer the benefit of a full anti-vibration system for maximum comfort on long workdays.



3000j Specifications -

UT Number	26034
Engine	Mitsubishi 26.1 cc
Fuel Capacity	16.9 fl oz (500 ml)
Shaft Type	Straight Solid Shaft
Shaft Length	73" (185 cm)
Shaft Tube Dia.	1.03" (26 mm)
Trimming Swath	17" (43 cm)
Stringhead	6" (15.2 cm)
Standard Line	.095" (2.4 mm)
Line Capacity	50' (15.2 m)
Handle	J-Bar
Strap	Included
Blade	XRT Brush Blade Included
Weight	14.6 lbs (6.6 kg)
Warranty	Commercial User - One Year

3000b Specifications -

UT Number	26035
Engine	Mitsubishi 26.1 cc
Fuel Capacity	16.9 fl oz (500 ml)
Shaft Type	Straight Solid Shaft
Shaft Length	73" (185 cm)
Shaft Tube Dia.	1.03" (26 mm)
Trimming Swath	17" (43 cm)
Stringhead	6" (15.2 cm)
Standard Line	.095" (2.4 mm)
Line Capacity	50' (15.2 m)
Handle	Bicycle-Type
Strap	Included
Blade	XRT Brush Blade Included
Warranty	Commercial User - One Year

All Specifications are subject to change without notice.



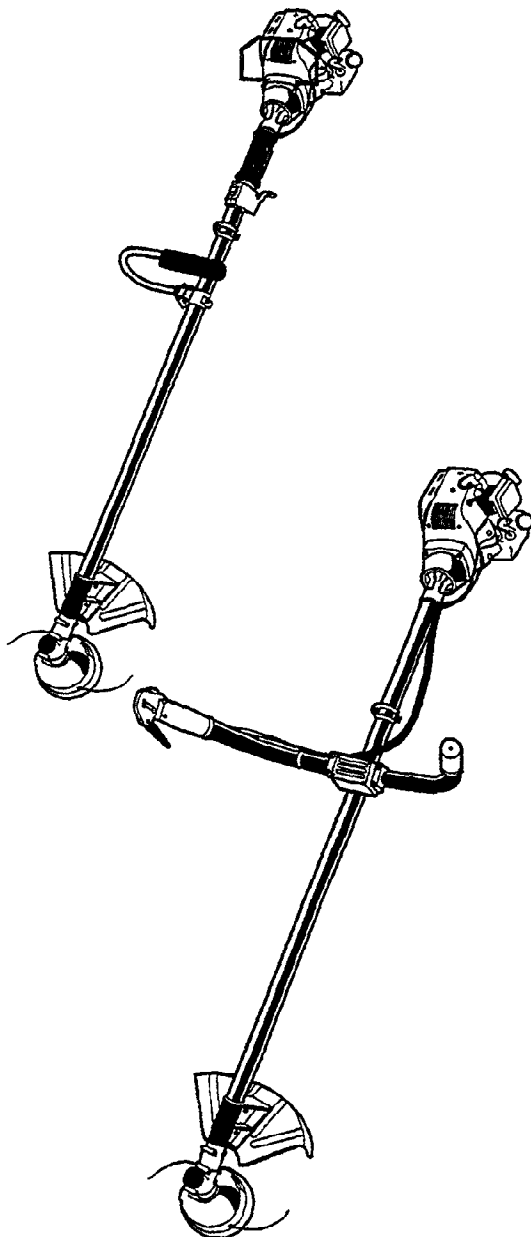
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4000j 4000b

Brushcutters

The 4000 series brushcutters are powered by the high-performance 40.6 cc Mitsubishi full-crank engine. Producing an impressive power to weight ratio, they are built for demanding duty. Solid state ignition and primer carburetors insure a professional level of dependability.

Naturally, the 4000 series comes with an anti-vibration system built in, along with a Quad brush blade and a 6" string head, and a solid drive shaft with 74 inch shaft length for maximum reach.



4000j Specifications -

UT Number	26022
Engine	Mitsubishi 40.6 cc
Fuel Capacity	30.4 fl oz (900 ml)
Shaft Type	Straight Solid Shaft
Shaft Length	74" (188 cm)
Shaft Tube Dia.	1.03" (26 mm)
Trimming Swath	18" (46 cm)
Stringhead	6" (15.2 cm)
Standard Line	.095" (2.4 mm)
Line Capacity	50' (15.2 m)
Handle	J-Bar
Strap	Included
Blade	Quad Blade Included
Weight	16.9 lbs (7.7 kg)
Warranty	Commercial User - One Year

4000b Specifications -

UT Number	26023
Engine	Mitsubishi 40.6 cc
Fuel Capacity	30.4 fl oz (900 ml)
Shaft Type	Straight Solid Shaft
Shaft Length	74" (188 cm)
Shaft Tube Dia.	1.03" (26 mm)
Trimming Swath	18" (46 cm)
Stringhead	6" (15.2 cm)
Standard Line	.095" (2.4 mm)
Line Capacity	50' (15.2 m)
Handle	Bicycle Handlebars
Strap	Included
Blade	Quad Blade Included
Weight	19.6 lbs (8.9 kg)
Warranty	Commercial User - One Year

All Specifications are subject to change without notice.

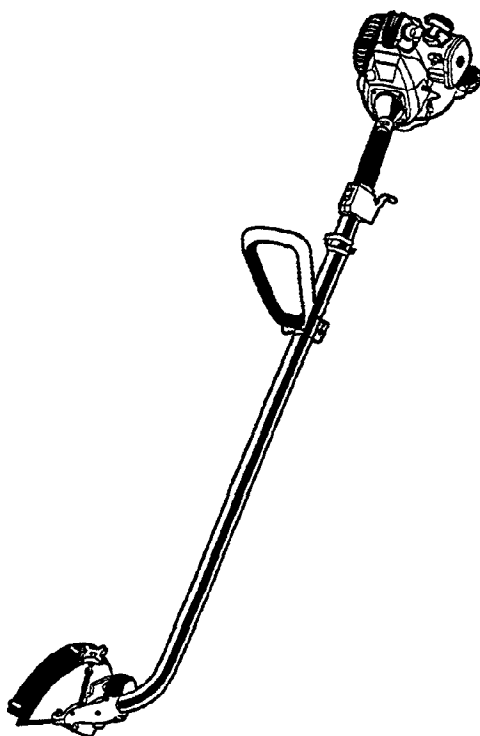
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1900e Stick™ Edger

The 1900e edges neatly around beds, along walks and drives. The large guide wheel adjusts quickly, and the big 9" blade and powerful 22.6cc engine handle tough landscape edging jobs with ease.

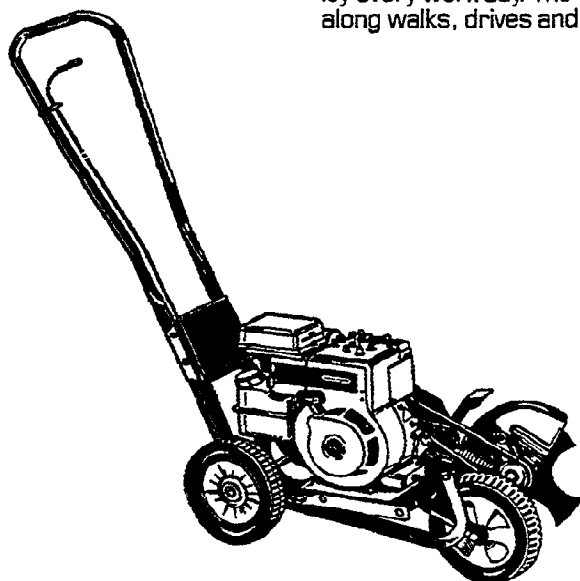


1900e Specifications -

UT Number	26024
Engine	Mitsubishi 22.6 cc
Fuel Capacity	16.9 fl oz (500 ml)
Shaft Type	Flex Shaft
Shaft Length	72" (183 cm)
Blade Size	8" (20 cm)
Handle	Loop
Warranty	Commercial User - One Year

500e Walk-Behind Edger

The 500e is powered by a dependable Briggs & Stratton 4-cycle engine for productivity every work day. The three large wheels give excellent stability for crisp, fast edging along walks, drives and curbs.



500e Specifications -

UT Number	26101
Engine	Briggs & Stratton 3½ HP
Drive Type	Heavy-Duty Belt Drive
Blade Size	8" (20 cm)
Max. Cutting Depth	2¼" (5.7 cm)
Blade Speed	3950 rpm
Blade Type	Star with dual cutting edges
Cutterhead	Four position for bevel cuts
Weight	61 lbs (27.7 kg)
Warranty	Commercial User - Ninety Days

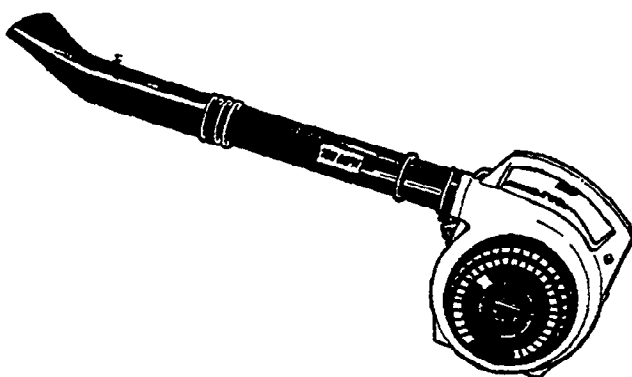
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3000hb Handheld Blower

The 3000hb delivers outstanding performance in a hand-held blower. The 180 mph air velocity and 450 cfm air volume move leaves and debris quickly, and at just 10.7 lbs, one-hand operation is easy and comfortable.

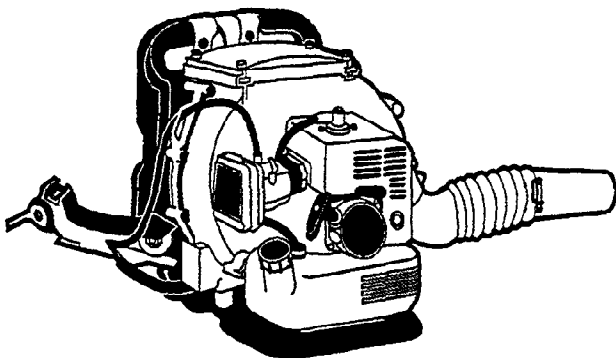


3000hb Specifications -

UT Number	26111
Engine	Homelite® 30 cc
Fuel Capacity	23 oz (680 ml)
Max. Air Velocity	180 mph (290 km/h)
Max. Air Volume	450 cfm
Sound Level @ 50'	70 dBA
Weight	10.7 lbs (4.9 kg)
Warranty	Commercial User - Ninety Days

4600bp Backpack Blower

The powerful 4600bp features impressive numbers; 250 mph air velocity and 590 cfm air volume. This commercial unit is designed for all day use, with a comfortable, padded back pack frame with fully adjustable straps, and a large fuel tank for less stopping to refuel.



4600bp Specifications -

UT Number	26110
Engine	Kawasaki 40.2 cc
Fuel Capacity	54 fl oz (1.6 l)
Max. Air Velocity	250 mph (402 km/h)
Max. Air Volume	590 cfm
Sound Level @ 50'	69.5dBA
Weight	17 lbs (7.7 kg)
Warranty	Commercial User - One Year

All Specifications are subject to change without notice.

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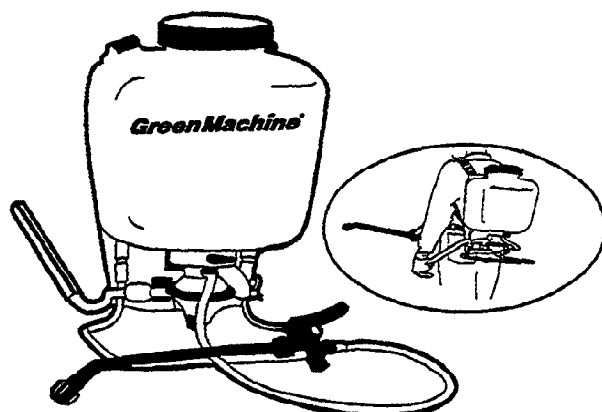


sp70

Backpack Sprayer

The sp70 backpack sprayer is a professional unit which will appeal to homeowners as well. Designed for safety, the dependable diaphragm pump is highly resistant to leaks. It is also extremely durable, capable of two million strokes without a leak, which equals two years of constant use!

The sprayer is easy to use, simple to maintain. It is ideal for weed control, fertilizing, pest and insect control, oil spraying, watering and misting, curing compounds, painting and staining surfaces.



sp70 Specifications -

UT Number	26350
Max. Capacity	4 gal (15.1 l)
Recommended Use	3 gal (11.4 l)
Pump Type	External Diaphragm
Max. Pressure	70 psig
Wand Length	20" (51 cm)
Weight	9.9 lbs (4.5 kg)
Warranty	Commercial User - Ninety Days

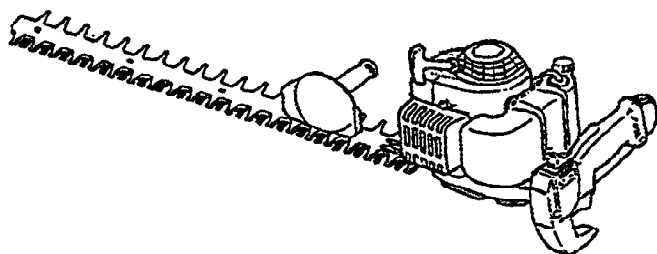
2600h

Hedge Trimmer

Powerful, lightweight, and well-balanced, the 2600h was designed with input from over 400 landscape professionals. It has the power to cut through branches as large as 1" in diameter, and the 30" blade gives good reach and productivity.

2600h Specifications -

UT Number	26150
Engine	Mitsubishi 26.1 cc
Fuel Capacity	16.9 fl oz (500 ml)
Blade Length	30" (76 cm)
Blade Type	Single-Side Double Reciprocating
Warranty	Commercial User - One Year



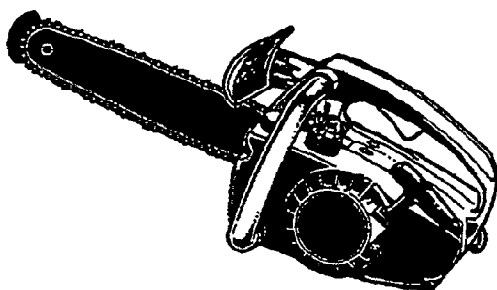
All Specifications are subject to change without notice.



20
30

Chain Saws

Dependable partners in woodcutting - that's what the Green Machine® Chain Saws are designed and built to be. With safety and convenience features built in, these saws offer proven, reliable construction.

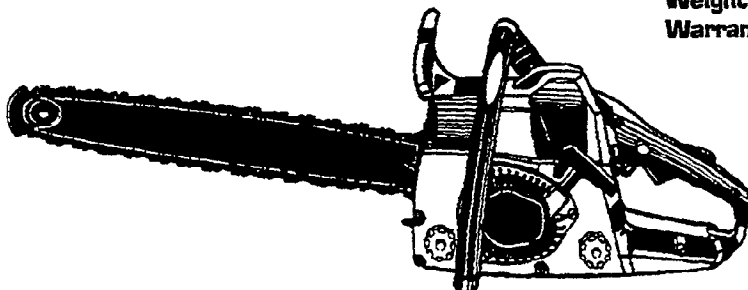


20 Specifications -

UT Number	26202
Displacement	2.0 cu in (32 cc)
Bar Sizes	12 - 16" (30 - 40 cm)
Chain Pitch	3/8" LP (6 tooth spur sprocket)
Chain Oil Capacity	6.1 oz (180 ml)
Fuel Capacity	8.5 oz (252 ml)
Weight (Powerhead)	7.5 lbs (3.4 kg)
Warranty	Commercial User - Ninety Days

30 Specifications -

UT Number	26203
Displacement	3.0 cu in (49 cc)
Bar Sizes	16 - 20" (40 - 50 cm)
Chain Pitch	.325" (7 tooth rim sprocket)
Chain Oil Capacity	12.2 oz (360 ml)
Fuel Capacity	22.3 oz (659 ml)
Weight (Powerhead)	11.8 lbs (5.3 kg)
Warranty	Commercial User - Ninety Days



All Specifications are subject to change without notice.

NOTES



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GREEN MACHINE® EXPAND-IT® SYSTEM

INSTALLING ATTACHMENTS

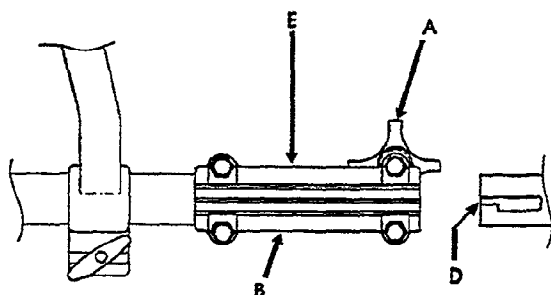


Figure 1

The attachments connect to the power unit by a driveshaft coupler device attached to the power unit driveshaft tube.

1. Loosen the knob (A) near the open end of the coupler (B). It is not necessary to loosen the other three screws.
2. Position the slot (D) of the lower tubes as shown and slide the lower unit into the coupler until the tubes of the power unit and lower unit solidly meet inside the coupler. Rotate the lower tube to lock in place. By looking in the slot (E) on top, see that both tube ends are abutted together before re-tightening the knob. The inner driveshafts will align themselves.

3. To remove attachments, reverse the sequence.

SERVICE TIP

Be certain the knob is fully tightened before operating equipment; it should be checked for tightness periodically during use.

TRIMMER ATTACHMENT - DISASSEMBLY

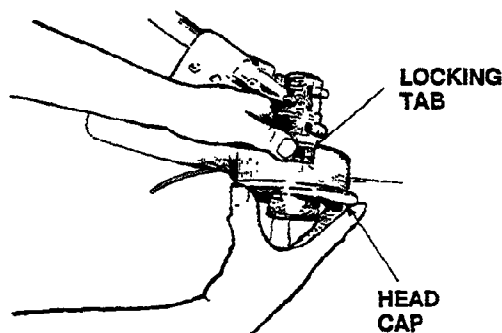


Figure 2

Depress the two locking tabs on each side of the head body to release the cap. Pull the cap off the head body assembly.

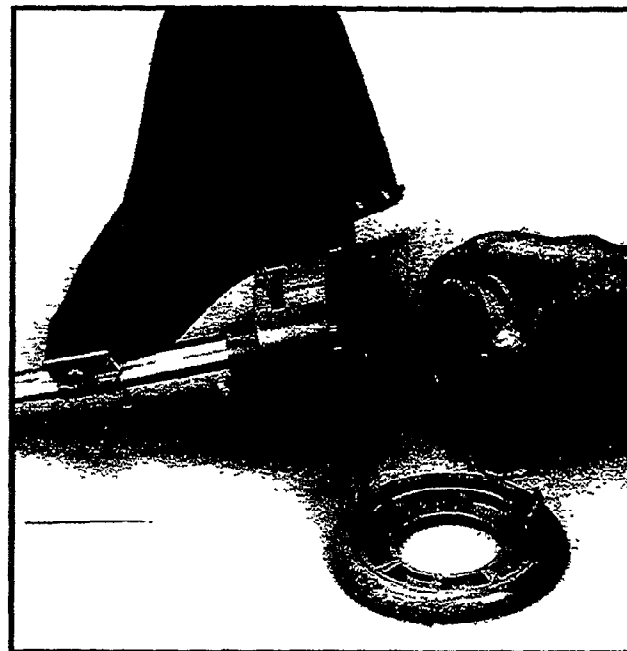


Figure 3

Once the cap has been removed from the head body, the compression spring and both spring plates can be removed.

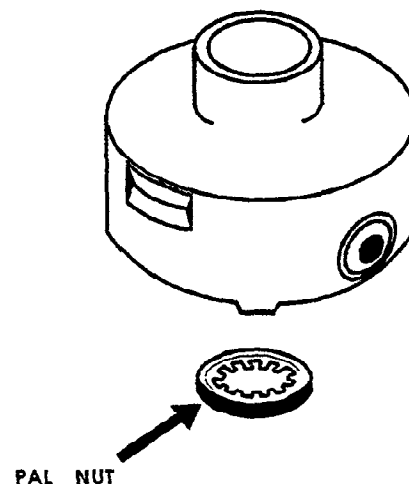


Figure 4

Place a 9/16" (14 mm) socket and short extension over the pal nut (retains head body to the shaft) and tap on the extension with a mallet to flatten the pal nut. This operation relaxes the "fingers" on the pal nut so it is loose on the shaft. Now, the pal nut can be lifted off the shaft.

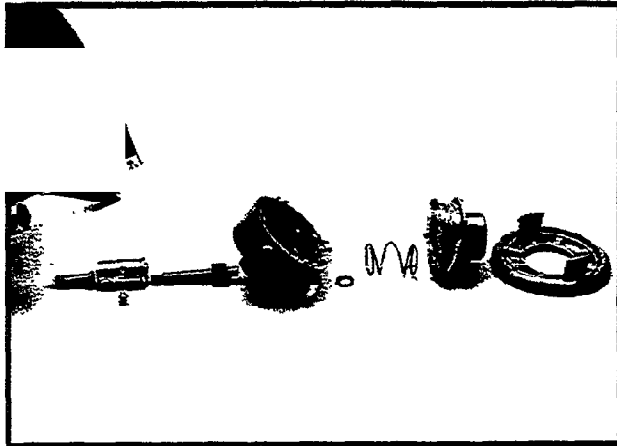


Figure 5

Use a #2 Phillips head screwdriver to remove the single retaining screw holding the arbor and bushing to the shaft housing. Then pull the arbor and shaft assembly off the unit.

Use a 5/8" (16mm) combination wrench or socket to hold the large hex adapter post and use a 5/16" (8mm) combination wrench to turn the arbor adapter to unscrew it from the adapter post. The adapter post will slide out the bottom of the arbor bushing assembly.

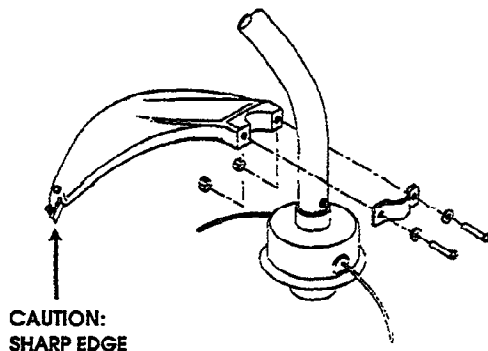


Figure 6

Use a #3 Phillips head screwdriver to remove the two head shield screws, then remove the two washers, bracket clamp, deflector and two nuts.

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TRIMMER ATTACHMENT - ASSEMBLY

The string trimmer attachment should be assembled by reversing the preceding instructions and by using the special instructions shown below.

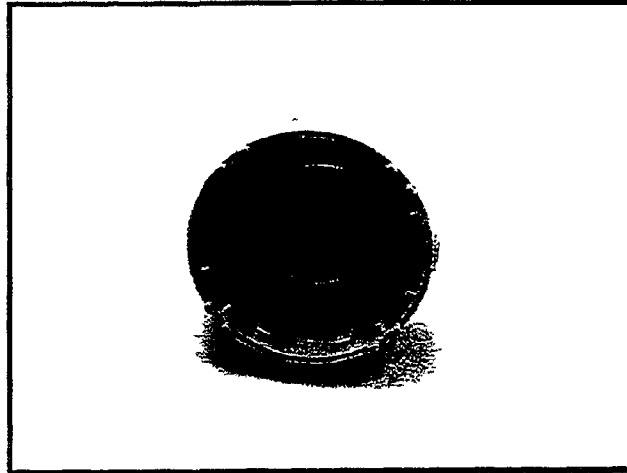


Figure 7

When installing the pal nut, use a 1/2" (13mm) socket to press the pal nut tightly against the string head.

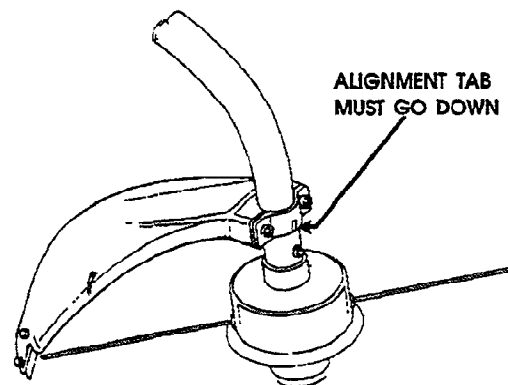


Figure 8

Assemble the bracket clamp to the shaft and deflector with the alignment tab facing down.



BLOWER ATTACHMENT - DISASSEMBLY

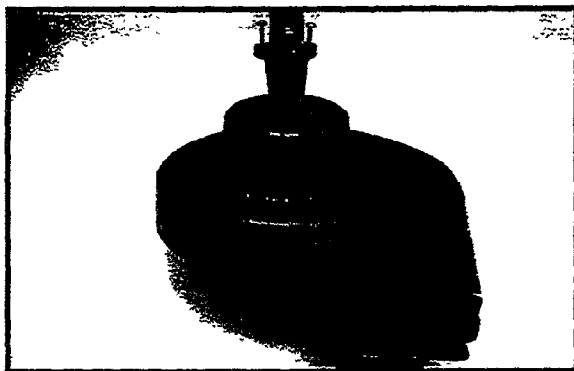


Figure 9

To remove the blower from the tube, remove the three (3) Phillips head screws (with a #2 Phillips head screwdriver) and separate the clamp from the upper blower housing. **NOTE:** The air intake area must be kept free of debris. Remove the two (2) Phillips head screws and guard, the five (5) Phillips head screws in the lower half to separate the two blower halves.

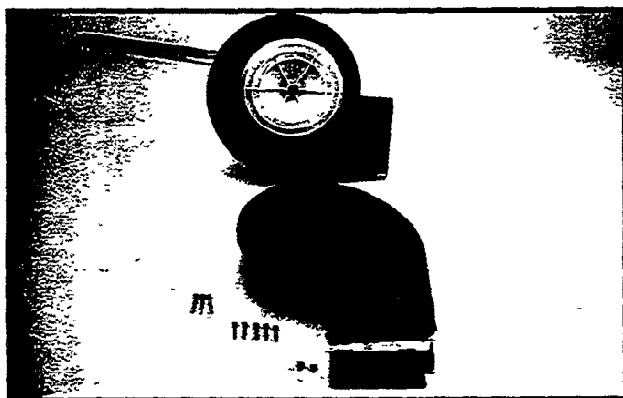


Figure 10

Place a 9/16" (14 mm) socket and extension over the pal nut. Tap on the extension to flatten the pal nut. It will be loose and can be lifted off the arbor shaft. Use arbor press to press the arbor shaft through the impeller. Remove the tube from the upper housing.

BLOWER ATTACHMENT - ASSEMBLY

Push the impeller on the arbor shaft until the arbor shaft extends through the impeller. If the impeller bottoms out before the arbor shaft is fully through the impeller, hold the hex shaft and continue rotating the impeller while pushing until the impeller fully seats.

NOTE: you may have to tap the socket lightly with a mallet to fully seat the pal nut. Next, follow the above steps in reverse order to assemble the blower.

BRUSHCUTTER ATTACHMENT - DISASSEMBLY

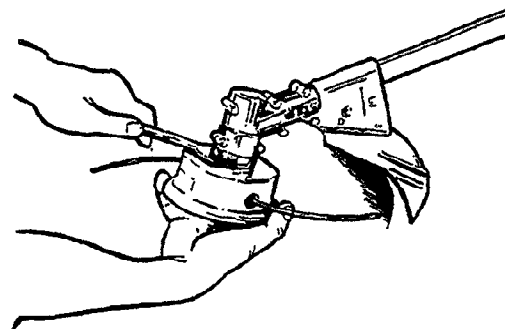


Figure 11

Use the GM 30019-0 spanner wrench to hold the lower holder 'B'. Grasp the spanner wrench with one hand and the trimmer head assembly with the other hand and turn the head clockwise (left hand threads) to remove it from the gear head. The upper holder 'A' can now be removed if needed.

SERVICE TIP

If the unit has a blade on it, use a 9/16" (14 mm) wrench to loosen and remove the blade mounting bolt, star washer, flat washer, upper holder 'A', blade, and lower holder 'B'.

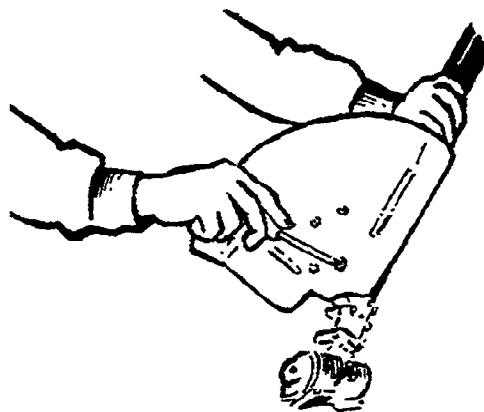


Figure 12

Use a #3 Phillips head screwdriver to remove the four screws holding the deflector guard to the bracket. The two screws on the bracket can also be loosened with the #3 Phillips head screwdriver. This will allow you to slide the bracket off the shaft.

Use a 5/16" (8mm) socket to loosen the two hex head clamping screws on the gear head. Then, use the same socket to remove the single hex head locating screw. Pull the gear head off the shaft.



GEAR CASE DISASSEMBLY: ALL UNITS

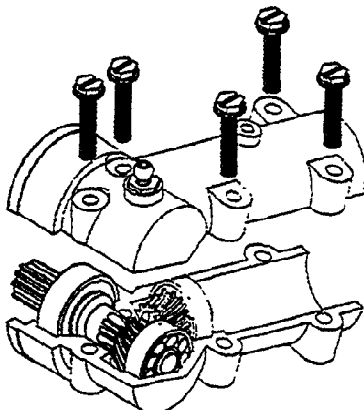


Figure 13

Use a 5/16" (8 mm) socket to remove the five (or seven) hex head screws from the gear head. Separate the two halves and carefully remove the pinion and bevel gear sets.

GEAR CASE ASSEMBLY

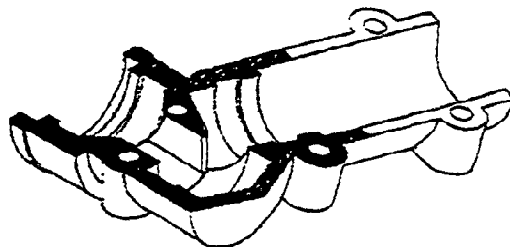


Figure 14

Apply a generous amount of Loctite 51814 to both gear case halves (as shown above). Make sure that the Loctite is put on the surfaces between the bearing pockets.

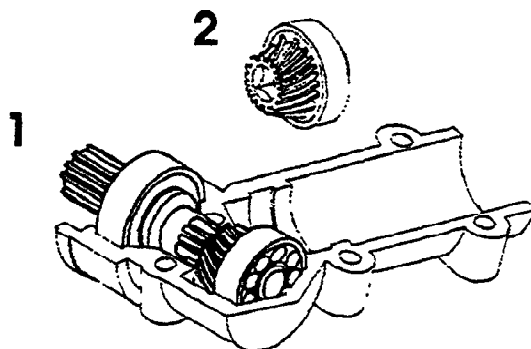


Figure 15

Place the bevel gear and shaft assembly (1) into place followed by the pinion gear assembly (2).

SERVICE TIP

On the large gear case assembly used on the 4000 Series trimmers / brushcutters the bevel gear and shaft assembly requires shims (GM 16691-9) to be used to take up slack in the lower bearing pocket.

Simply place these shim(s) over the shaft and against the lower bearing, then insert the whole assembly into the gear case housing. There should be no end play in the bevel gear and shaft after the gear case is assembled.

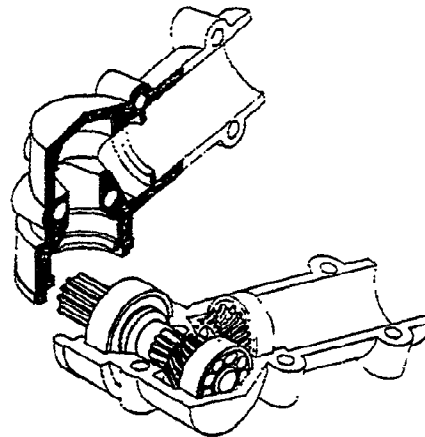


Figure 16

Apply Loctite 51814 to the half of the other gear case and place it on top of the gear sets and gear case casting. Insert all screws in the gear case. Tighten all screws to 35-45 in.lb (4-5 Nm) except the two clamping screws. **Note:** Wipe off excess Loctite from the housings.

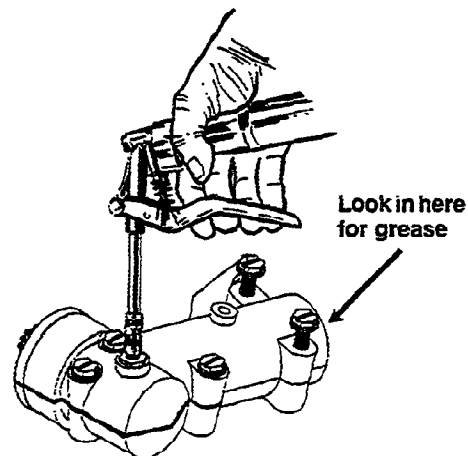


Figure 17

Apply multi-purpose grease (p/n 18453) to the gear head until grease starts to push out from the pinion gear side of the gear head (look down into the gear head). The gear case should be regreased after every 10 hours of operation.

BRUSHCUTTER ATTACHMENT - ASSEMBLY

Use the reverse sequence to the above disassembly steps to assemble the Brushcutter Attachment.



CULTIVATOR ATTACHMENT - DISASSEMBLY

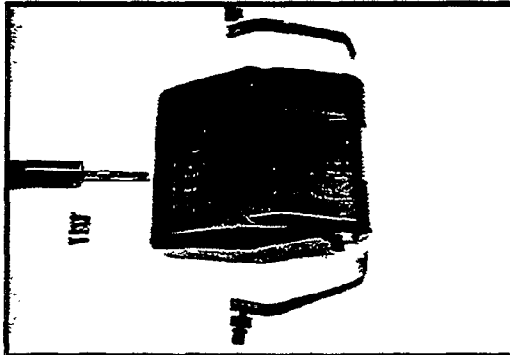


Figure 18

Use 1/8" hex key wrench to remove four (4) Allen head cap screws holding tube to transmission. Use 1/4" hex key wrench to remove two tine retaining screws. NOTE: Blade plate must be installed with the rounded side facing the blade and the word "OUT" facing away from the blade. To replace the flex cable, remove it from lower end of tube. Use multi-purpose grease (p/n 18453) to lubricate flex cable before reinstalling.

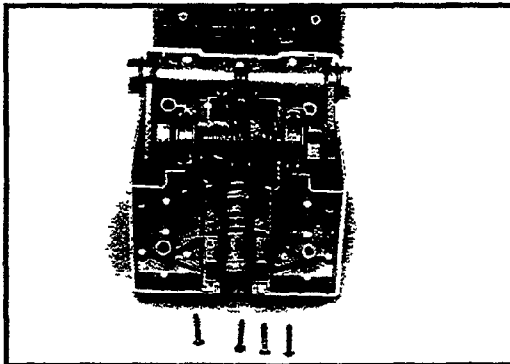


Figure 19

Use #2 Phillips screwdriver to remove four (4) screws holding upper housing cover to lower housing. The cultivator is internally lubricated at the factory and should not need service. However, if used daily or in extremely hard or dusty soil, it is recommended that new grease (p/n 18453) be supplied to the grease pockets.

CULTIVATOR ATTACHMENT - ASSEMBLY

To reassemble the cultivator, reverse the above sequence.

SNOW THROWER ATTACHMENT - DISASSEMBLY

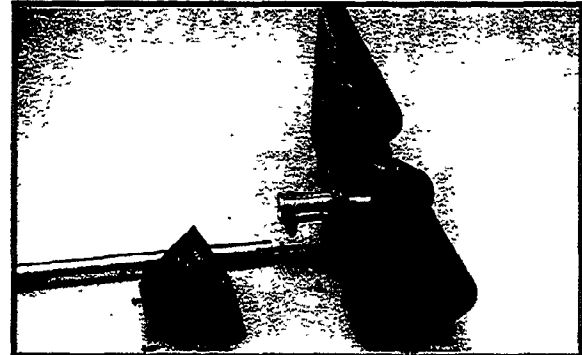


Figure 20

Remove the two #8 x 5/8" (16 mm) Phillips head screws and cover. Loosen the 10-24 x 1 3/16" (30mm) Allen head screw and remove the 8-32 x 7/16" (11mm) Phillips head locating screw and slide the tube out. Note: the flex cable can be removed without removing the tube.

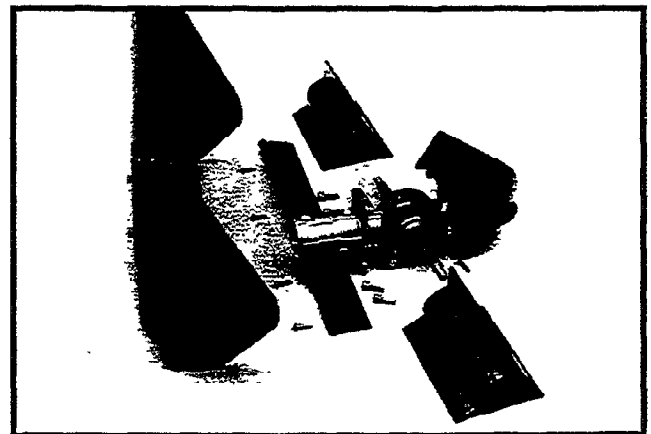


Figure 21

Remove the two #8 x 5/8" (16 mm) Phillips head screws holding the gearcase cover to the snow thrower housing. Remove the four 8-32 x 3/4" (19 mm) Phillips head screws holding the snow thrower housing to the gear box. Remove the four #8 x 5/8" (16 mm) Phillips head screws holding the scraper bar to the snow thrower housing. **Note:** this procedure only needs to be performed if the scraper bar is being replaced.

Grasp the right hand rotor in one hand and the left hand rotor in the other hand. Turn the right hand rotor *counterclockwise* to remove it from the gear box. Insert a 1/8" (0.3 mm) rod in the right hand gear box shaft (a hole is provided). Turn the left hand gear box shaft *clockwise* to remove the rotor from the gear box shaft.

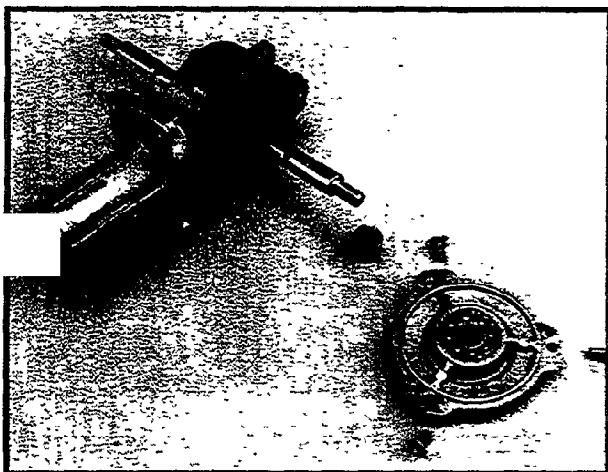


Figure 22

Remove the three 8-24 x 5/16" (8 mm) Phillips head screws holding the gear box cover to the gear box. Then slide the cover and spacer off the gear box.

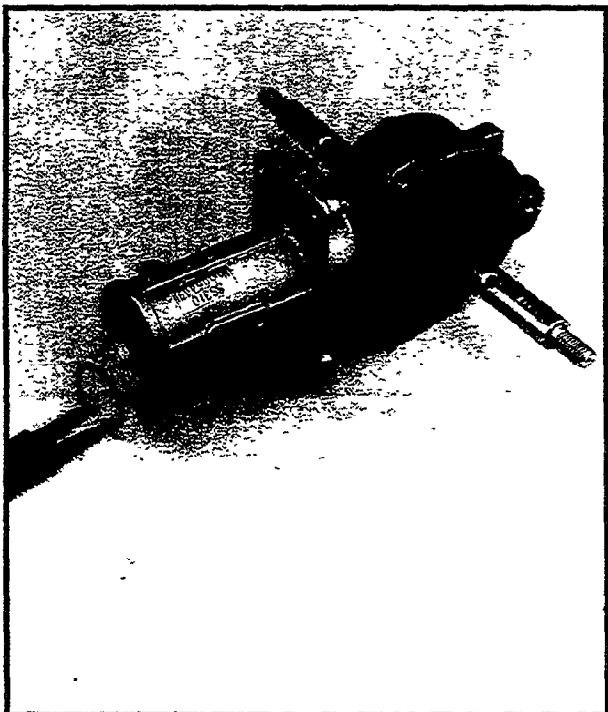


Figure 23

Use a pair of # 300 internal snap ring pliers to remove the large retaining ring holding the pinion gear and bearings in the gear box.

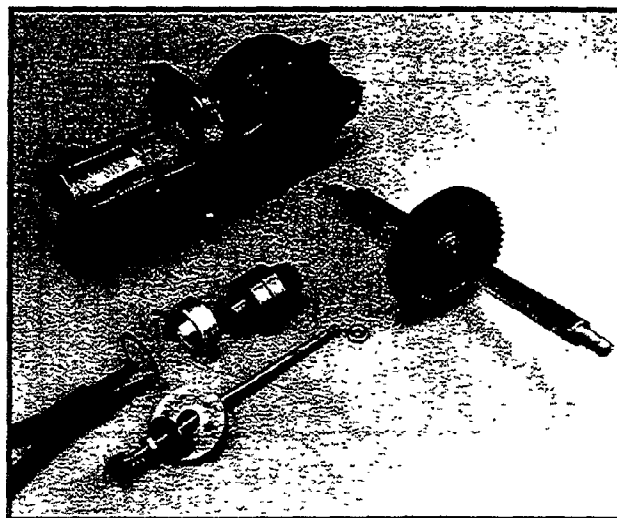


Figure 24

Slide a 4-1/2" (11.5 cm) long piece of 10-24 (M5) threaded stock through the gear box. Then place a large (1-5/16" O.D./33mm) #10 (M5) washer on the threaded shaft along with four 10-24 (M6) nuts. Lock the nuts together with two open end wrenches. On the top of the gear box, place the second large flat washer followed by one of the 10-24 nuts. Thread the nut all the way down the shaft until it contacts the flat washer. Use two 5/16" (8mm) wrenches to hold the one nut and turn the other nut to pull the collar and pinion gear assembly up through the housing.

SNOW THROWER ATTACHMENT - ASSEMBLY

To reassemble the snowthrower, reverse the above disassembly steps and follow the special instructions below.

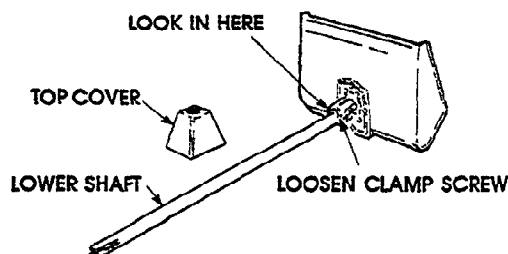


Figure 25

The gear case should be lubricated after every ten hours of operation. To do this use a Phillips head screwdriver to remove the top cover; then remove the two screws holding the gear case cover to the snowthrower housing. Remove the grease hole screw (located at the bottom of the gearcase) and add multi-purpose grease (p/n 18453) to the gearcase.



EDGER ATTACHMENT - DISASSEMBLY

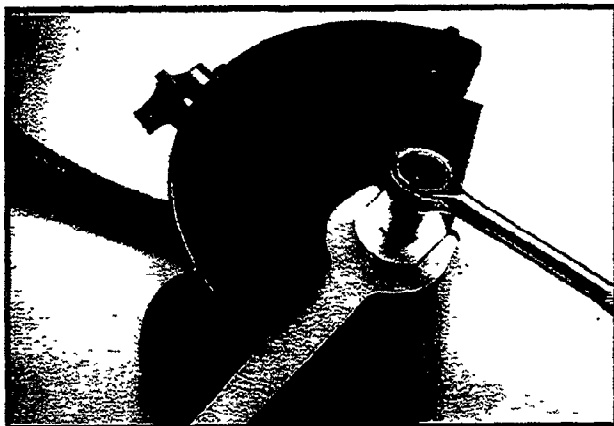


Figure 26

Use the GM 30019-0 (1-1/2" / 38 mm) spanner wrench to hold the lower holder 'B' and use a 9/16" (14 mm) wrench or socket to turn the blade mounting bolt clockwise (left hand threads) to remove the blade bolt, star washer, flat washer, blade and upper holder 'A' from the edger.

SERVICE TIP

Use a block of wood between the guard and housing to prevent the blade from turning if the spanner wrench is not available.

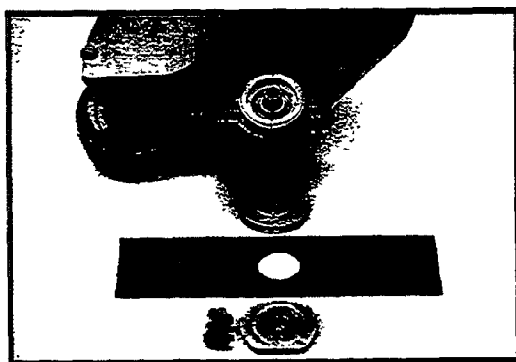


Figure 27

Once the mounting bolt, star washer, and flat washer have been removed, holder 'A', the blade, holder 'B', and the spacer can be removed from the gear head. The blade shield can also be removed by using a 5/16" (8mm) socket or wrench to remove the three 10-24 x 1" screws holding the shield to the guard.

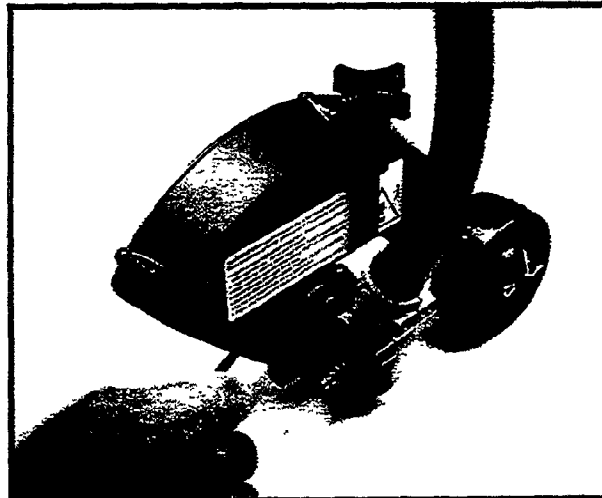


Figure 28

Use a 3/16" hex key wrench to remove the 10-24 x 1" Allen head screw holding the guard to the bracket. Then, turn the knob on the height adjuster counterclockwise until the bracket is loose and the guard comes off the gearcase.

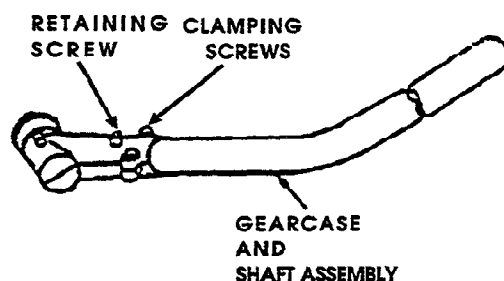


Figure 29

Use a 5/16" (8 mm) socket to loosen two clamping screws on the gearcase. Then use the same socket to remove the screw retaining the gearcase to the flex shaft housing. Slide the shaft housing out of the gearcase.

GEARCASE DISASSEMBLY / ASSEMBLY

Use the gearcase disassembly / assembly procedure found in the Brushcutter Attachment section of this manual.



4600bp BLOWER DISASSEMBLY AND INSPECTION

BACK PACK FRAME, FUEL TANK, THROTTLE CABLE AND LEAD WIRES

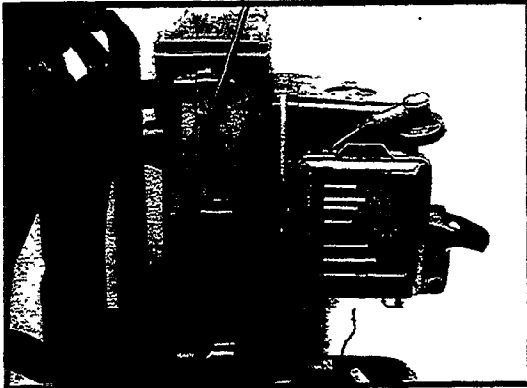


Figure 30

Remove the primer return line and fuel pickup line from the fuel tank. Use a #2 Phillips head screwdriver to remove the fuel tank from the back pack frame. Use a 10 mm wrench to remove the M6 x 45 mm hex head screw holding the ignition ground wire to the engine. Disconnect the ignition lead wire where it exits the ignition module (look at the bottom of the engine).

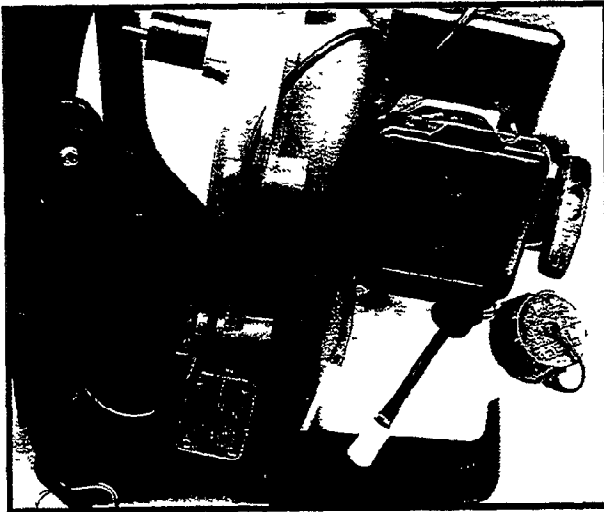


Figure 31

Use a 10mm socket to remove the four M6 nuts and flat washers that retain the vibration isolators to the back pack frame.

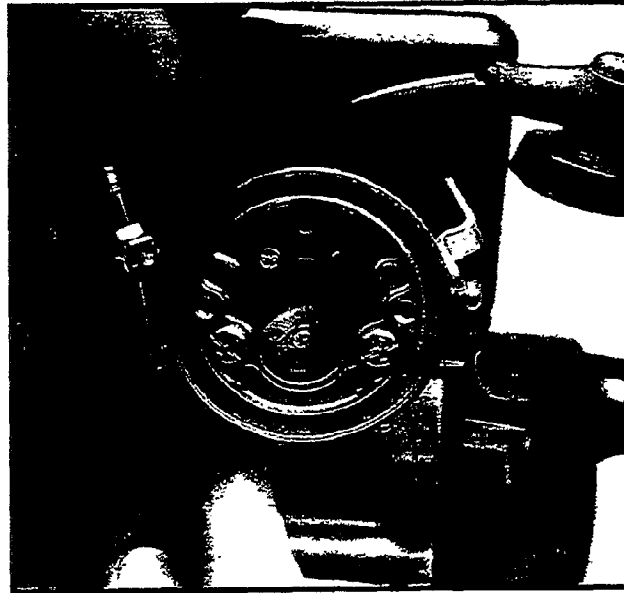


Figure 32

Grasp and hold the throttle cable with one hand where it enters the throttle cable adjuster. With the other hand, push up on the cable holder and throttle shaft to expose the end of the cable, then push the cable out of the slot in the cable holder and release the throttle shaft from the carburetor. **Note:** The air cleaner assembly was removed in the above illustration for clarity.

SERVICE TIP

When the throttle is disconnected from the carburetor, it must be pulled through a slot on the volute. Make sure that the cable is routed back through this same slot when assembling the unit.

INNER AND OUTER VOLUTE DISASSEMBLY

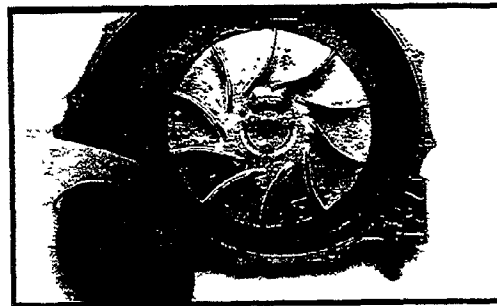


Figure 33

Remove the twelve M5 x 30 mm screws that hold the inner and outer volutes together. Then remove the two M6 x 20 mm screws and square nuts holding the volute cover. Once the two halves have been separated, look for an O-ring at the elbow that is normally positioned inside the volute halves. The O-ring is lubricated along with the elbow, so remember to grease these two components when assembling.

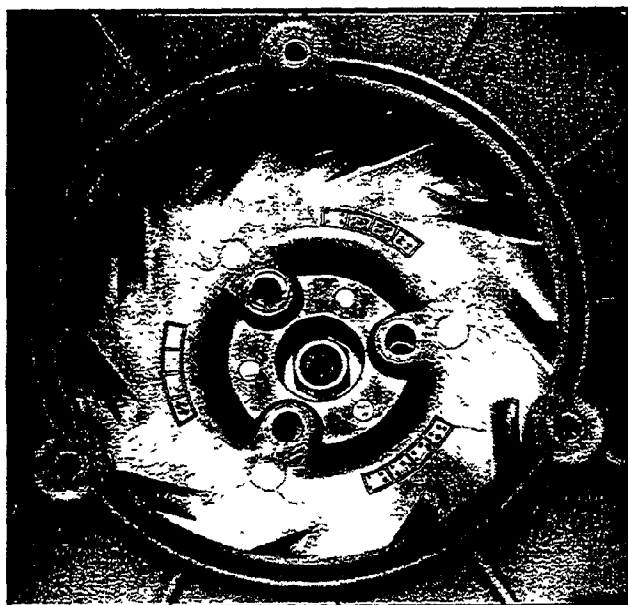


Figure 34

Use a 5/16" (8 mm) socket to remove three M6 x 25 mm hex head screws from the metal fan.

SERVICE NOTE:

When reassembling, use thread locking compound (p/n 23488-C) on the screw threads prior to inserting these screws into the fan.

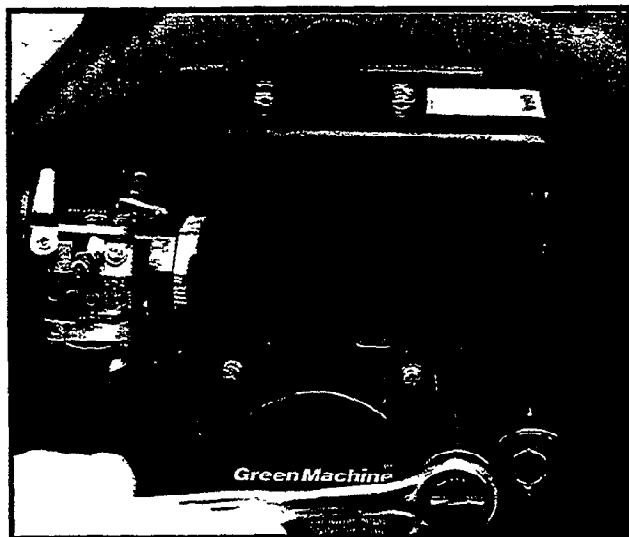


Figure 35

Use a 10 mm socket and extension to remove the three remaining bolts holding the engine to the volute. **Note:** The ground wire normally goes under the lower left engine mounting bolt.

4600bp BLOWER - ASSEMBLY

Follow the disassembly steps in reverse and read the assembly instructions below to assemble the 4600bp.

1. Place the engine on the rear volute (fan case). Two locating pins on the volute help to center the engine on the volute.
2. Install the four engine mounting bolts through the engine and into the volute. Leave the mounting bolts slightly loose to aid in assembly of the fan. Make sure the ignition ground lead is placed on the left engine mounting bolt.

SERVICE TIP

While the engine is still loose, route the high tension lead around the carburetor. Once the engine is mounted tight against the volute, the high tension lead cannot be routed past the throttle wire bracket.

3. Route the throttle cable around the air filter housing and by the cable adjuster and bracket.
4. Lay the unit on the engine (works best to hang back pack frame off the edge of the bench) so the engine is flat on the table
5. Rotate the fan clockwise and align the holes in the fan with holes in the engine rotor. Insert the three fan mounting screws and tighten.



2600h HEDGE TRIMMER DISASSEMBLY

THROTTLE CABLE AND LEAD WIRES

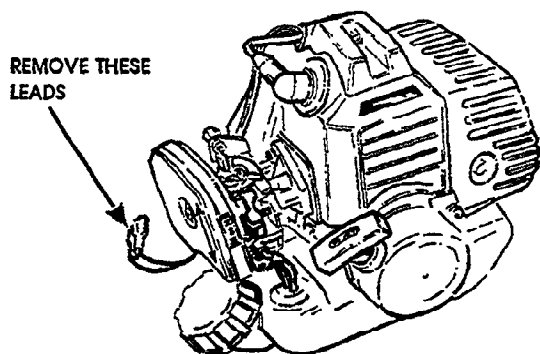


Figure 36

Pull apart the ignition and ground leads so the engine can be separated from the gearcase.

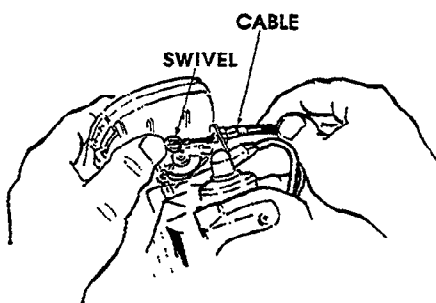


Figure 37

Remove the throttle cable by advancing the throttle linkage and pulling the throttle cable end out of the bracket on the carburetor (as shown above).

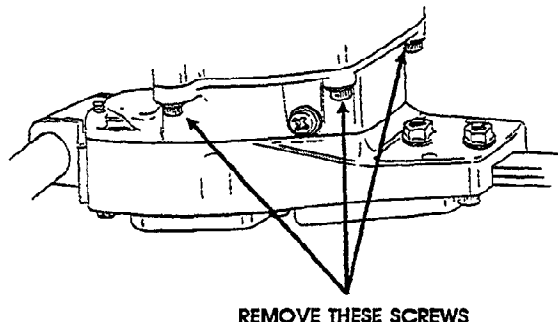


Figure 38

Remove the four M5 x 20 mm screws holding the gearcase assembly to the engine with a 5/32" (8 mm) hex key wrench. Then remove the two M5 x 40 mm Allen head cap screws holding the rear handle to the gearcase.

REAR HANDLE DISASSEMBLY / ASSEMBLY

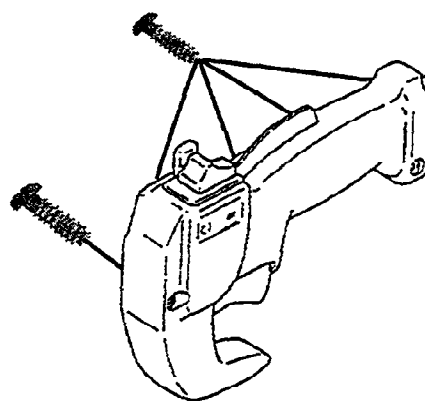


Figure 39

Remove the four M4 x 20 mm form threading screws and one M5 x 30 mm screw holding the rear handle cover to the handle. Use a #1 Phillips head screwdriver to remove the screws.

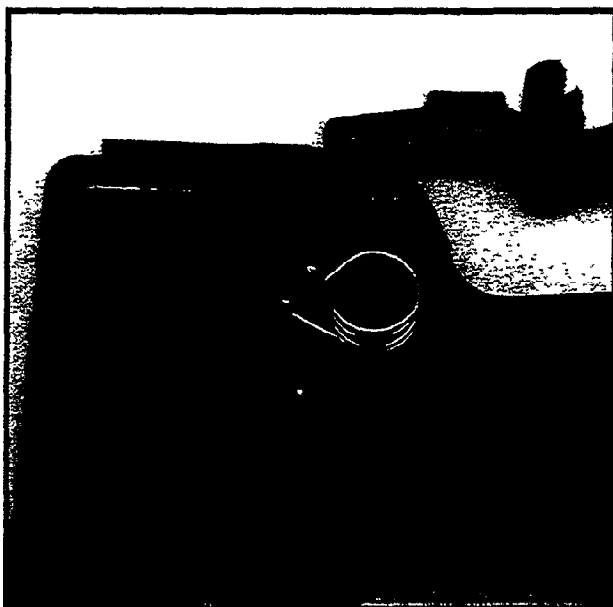


Figure 40

When installing the safety interlock lever and fast idle button, assemble the torsion spring as shown. The spring bend must fit between the notches in the button.



Figure 41

Place the lever on the post in the cover and engage the other end of the spring. Rotate the lever into position.

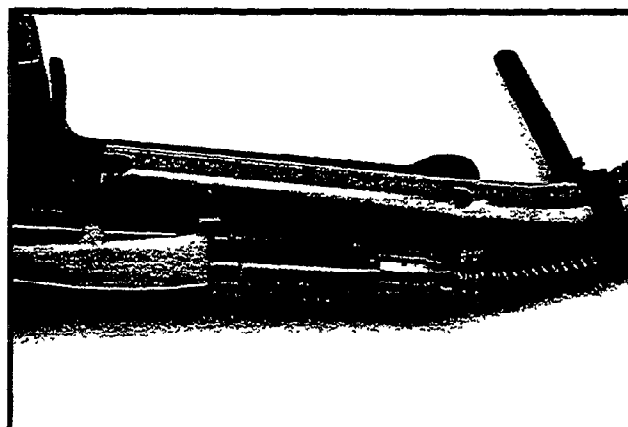


Figure 42

Route the wire in the slot as shown and lay the cable on top. Push the cable housing in place. Press the wire protector into the housing and push down to lock it in place. Make sure the cable housing is in place, or the throttle adjustments will be affected.

Lay the upper housing (with button, spring and lever) in place over the lower housing assembly. Line up the lever post in the upper housing with the boss in the lower housing. Hold the lever and at the same time push the two halves together.

SERVICE TIP

Rotate the screw counterclockwise before starting it in the housing

GEARCASE DISASSEMBLY

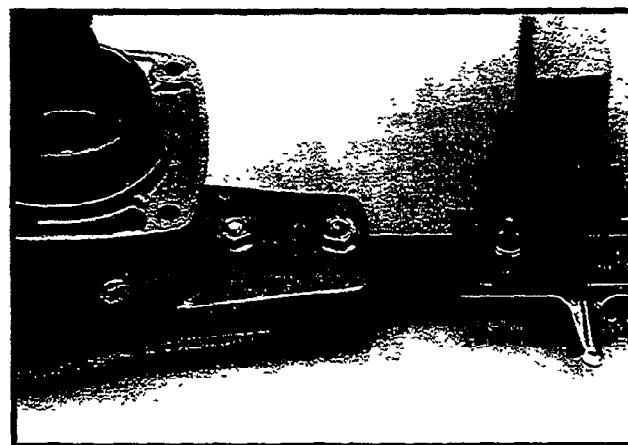


Figure 43

Place a 7/8" (22 mm) thick block of hard wood between the two cutter blades. It may be necessary to rotate the clutch drum to align the two cutter blades. Once the block of wood is in place, rotate the drum counterclockwise to lock up the pinion shaft. Use needle nose pliers to turn the clutch drum counterclockwise to remove it from the shaft.

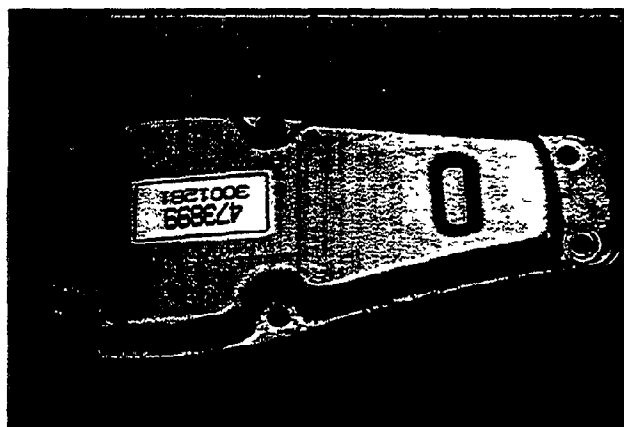


Figure 44

Use a 5/32" (4 mm) hex key wrench to remove the four M5 x 40 mm Allen head cap screws and the two M5 x 10 mm screws holding the lower case to the upper case.

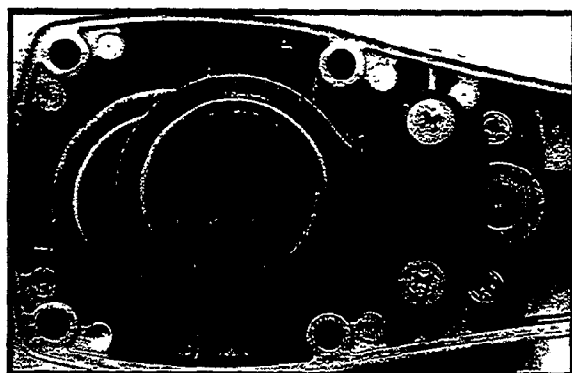


Figure 45

With block of wood in place, use a #2 Phillips head screwdriver to remove the cam push screw (M5 x 15 mm). Turn clockwise (left hand threads) to remove this screw. Remove both felt seals and use a #2 Phillips head screwdriver to remove the two M5 x 7 mm screws and plate. Use the two flat blade screwdrivers under each end of the crank rod to push it off the cam and cutter blade.

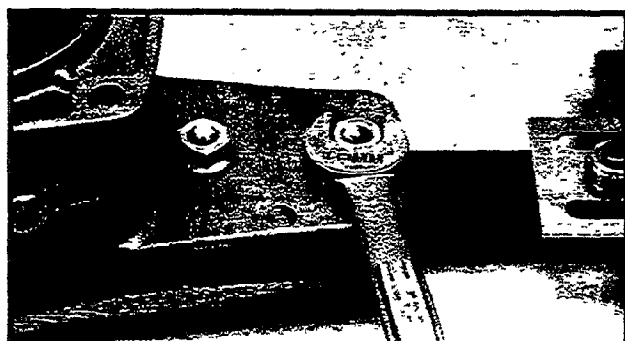


Figure 46

Use a 10 mm wrench or socket to remove the two M6 flange nuts. Pull the blade assembly off the gearcase.

Page 24

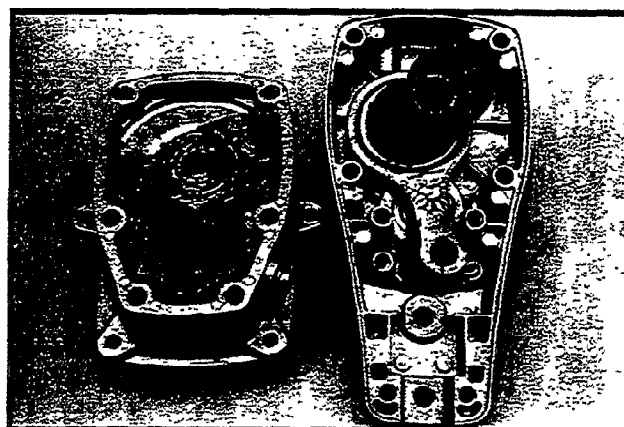


Figure 47

Use a 5/16" (8 mm) socket to remove two M5 x 30 mm hex head screws holding the slide plate to the gearcase housing. Slide the engine base off the gearcase. Always replace the base gasket as it is paper thin.

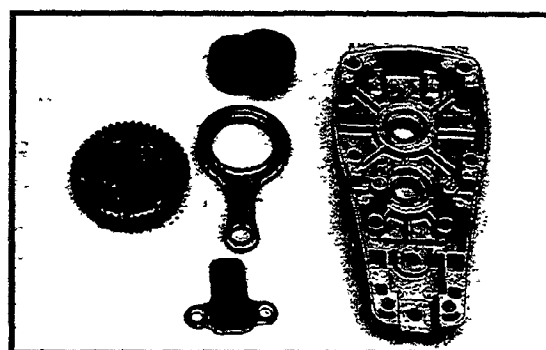


Figure 48

Insert a 3/16" (4.5 mm) drift into the hole in the cam. Hold the gearcase in one hand and tap on the drift with a mallet to drive the main gear from the cam. Lift the cam out of the gearcase, then pull the cam rod out of the gearcase housing.

SERVICE TIP

The rounded side of the cam rod is assembled towards the cam.

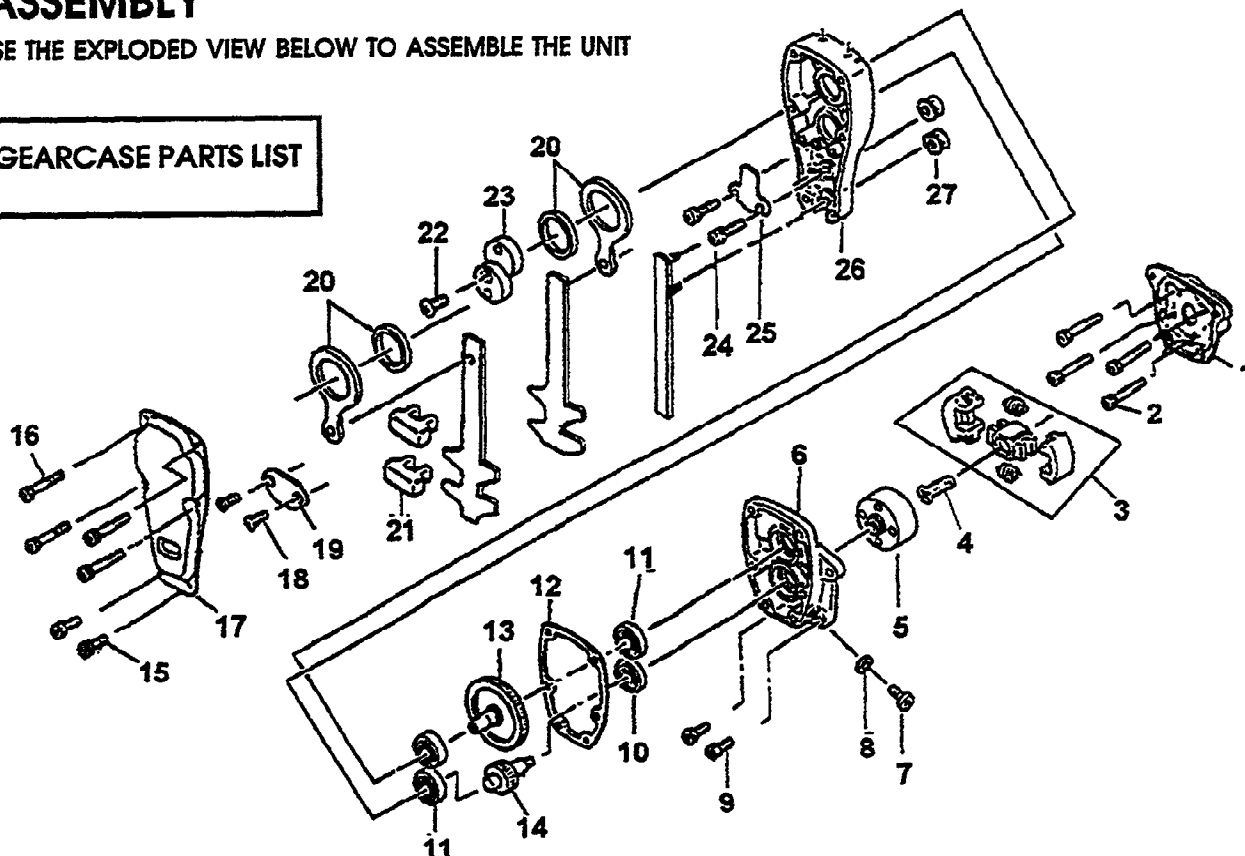
Remove the sliding plate from the housing. Push the pinion gear out of the gearcase housing (slip fit).



2600h HEDGE TRIMMER ASSEMBLY

USE THE EXPLODED VIEW BELOW TO ASSEMBLE THE UNIT

GEARCASE PARTS LIST

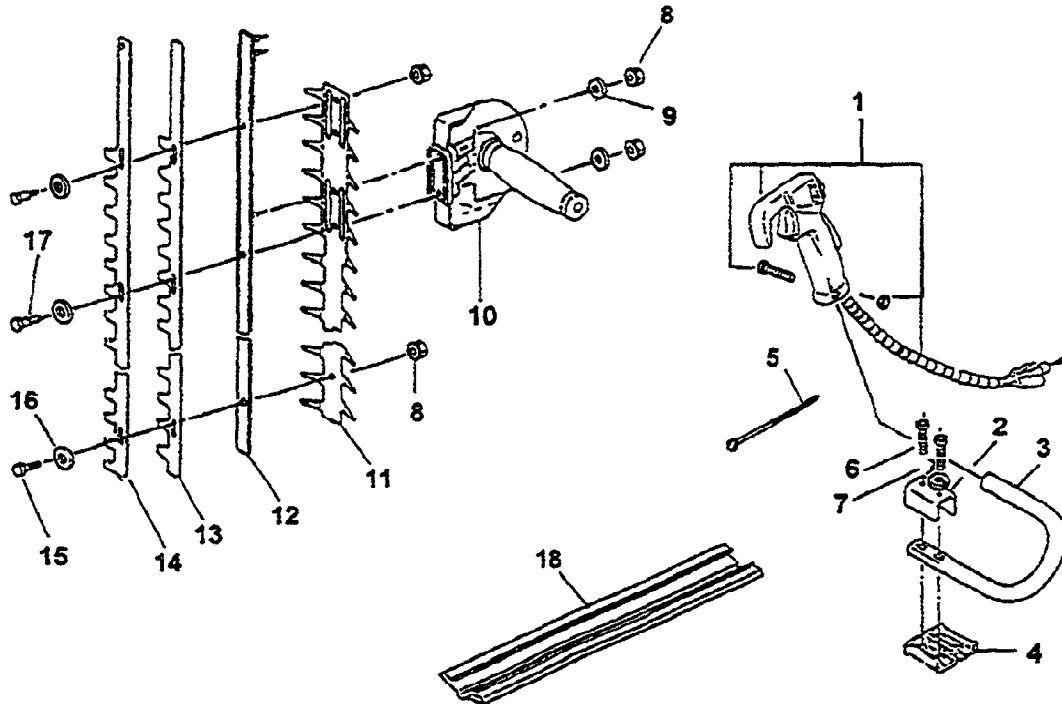


NO.	PART NO.	DESCRIPTION	Qty.
1	07970-48	ENGINE BASE	1
2	07970-09	SOCKET SCREW	4
3	A-07970-50	CLUTCH ASSY.	1
4	07970-07	FLAT SCREW	1
5	07970-52	CLUTCH DRUM	1
6	07970-53	GEAR CASE	1
7	07970-54	SCREW (M6X10)	1
8	07970-55	WASHER, FLAT	1
9	07970-08	SOCKET SCREW	4
10	07970-57	BEARING	1
11	07970-58	BEARING	3
12	07970-59	PACKING	1
13	07970-60	GEAR	1
14	07970-61	PINION	1

NO.	PART NO.	DESCRIPTION	Qty.
15	07970-62	SOCKET SCREW (M5X10)	2
16	07970-63	SOCKET SCREW (MX40)	4
17	07970-64	CAM CASE COVER	1
18	07970-65	FLAT SCREW (M5X10)	2
19	07970-66	FIXING PLATE	1
20	07970-67	CAM ROD	2
21	07970-68	FELT PACKING	2
22	07970-69	CAM PUSH SCREW	1
23	07970-70	CAM	1
24	07970-71	HEX BOLT (M5X30)	2
25	07970-72	SLIDE PLATE	1
26	07970-73	CAM CASE	1
27	07970-74	FLANGE NUT M6	2



CUTTERS & HANDLES PARTS LIST



NO.	PART NO.	DESCRIPTION	Qty.
	• A-07970-93	HANDLE ASSY.	1
1	07970-75	THROTTLE LEVER ASSY.	1
2	07970-76	BRACKET	1
3	07970-77	HANDLE	1
4	07970-78	ABSORBER	1
5	07970-81	WIRE BAND	2
6	07970-10	SOCKET SCREW (M5X45)	2
7	07970-79	LOCK WASHER (M5)	2
8	07970-11	HEX NUT (M6)	6
9	07970-83	WASHER (M6)	2
10	A-07970-84	HANDLE ASSY	1
11	07970-85	PROTECTOR	1
12	07970-86	CUTTER GUIDE	1
13	07970-87	CUTTER BLADE (B)	1
14	07970-88	CUTTER BLADE (A)	1
15	07970-89	STEP BOLT (SHORT)	4
16	07970-90	CUTTER WASHER	5
17	07970-91	STEP BOLT (LARGE)	1
18	07970-92	COVER	1



3000B TRIMMER / BRUSH - CUTTER DISASSEMBLY

REMOVE STRING HEAD, LEADS, THROTTLE CABLE, AND DRIVESHAFT ASSEMBLY

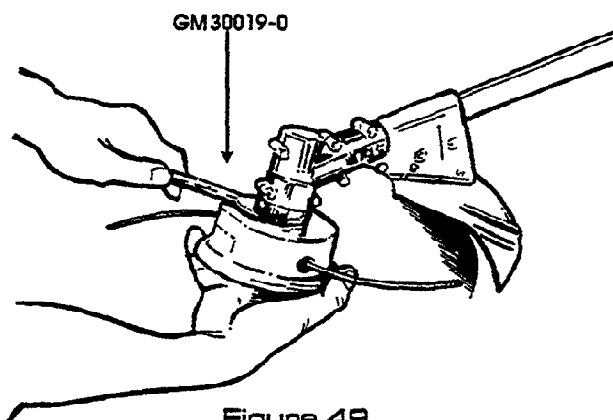


Figure 49

Remove the string head assembly by using the 38 mm spanner wrench to keep the holder from turning, and rotate the string head in a clockwise direction (left hand threads) to remove.

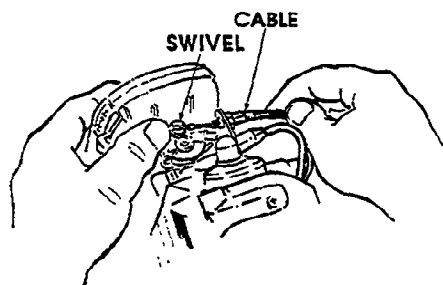


Figure 50

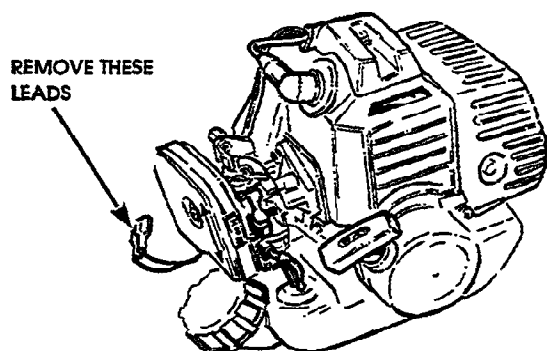


Figure 51

Disconnect the throttle from the carburetor and pull apart the ignition and ground leads

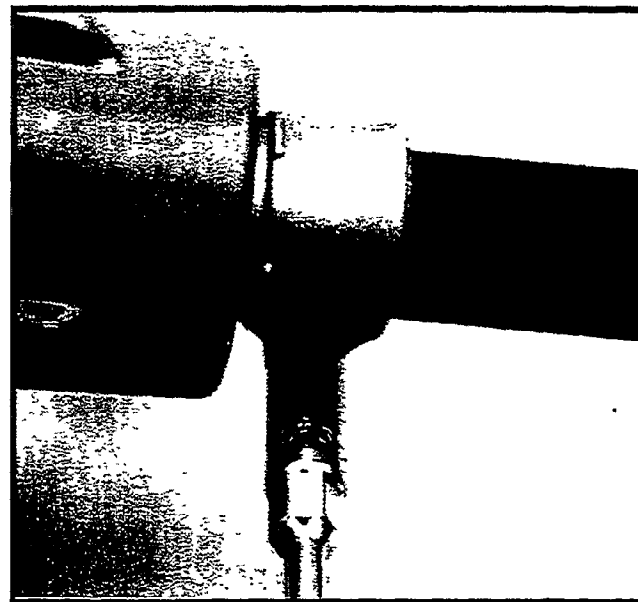


Figure 52

Use a 5/16" (8 mm) socket or wrench to loosen the M5 x 25 mm clamp screw and pull the drive shaft tube assembly out of the clutch case.

CLUTCH CASE REMOVAL AND DISASSEMBLY

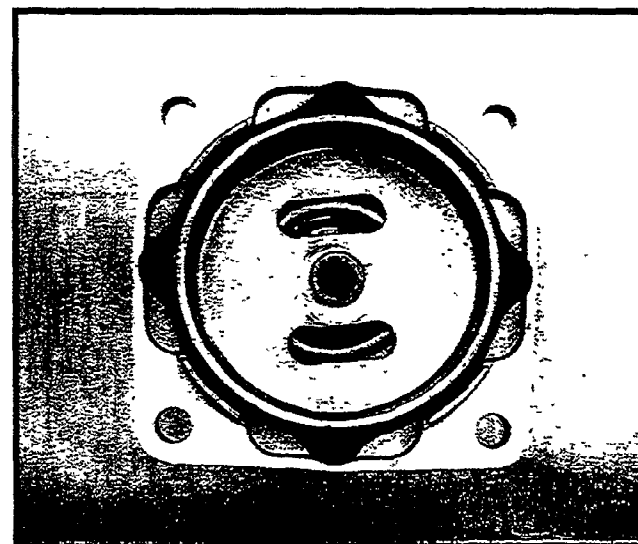


Figure 53

Use a 10 mm socket to remove four M6 x 25 mm hex head screws holding the clutch case to the crankcase cover. The clutch drum and bearing can be serviced by turning the clutch drum until the slot in the clutch drum is aligned with the ears on the large, internal retaining ring. Use #300 internal snap ring pliers to remove the retaining ring from the groove in the clutch case. The clutch drum and bearing assembly can be pushed out of the clutch case with an arbor or hydraulic press.

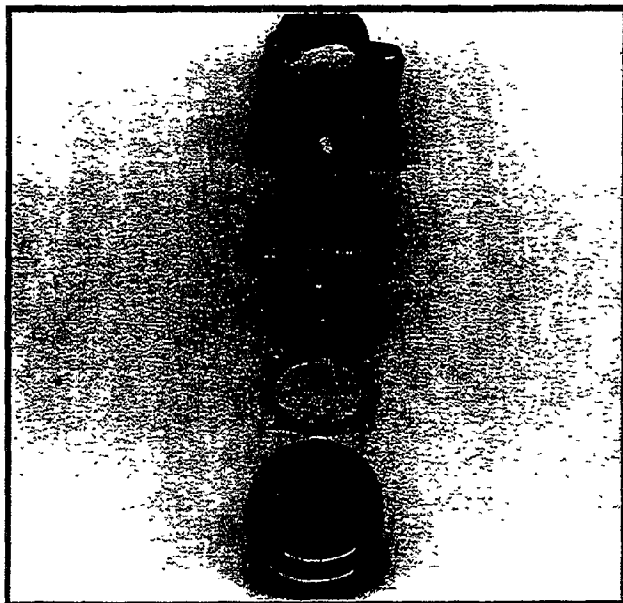


Figure 54

Once the clutch drum and bearings are removed, use a 3 mm hex key wrench to remove the four M4 x 20 mm Allen head screws. Remove the bearing cover and insert ring.

SERVICE TIP

The insert ring is a rubber isolator that must be replaced periodically. If checking increased vibration, remove and examine this part for wear.

POWER HEAD DISASSEMBLY

TOP COVER, SPARK PLUG, ENGINE COVER, MUFFLER GUARD

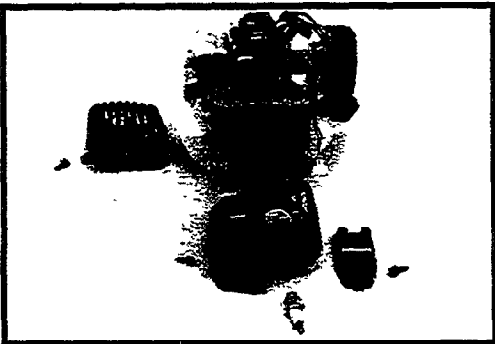


Figure 55

Use a #2 Phillips head screwdriver to remove the top cover, then use a 13/16" (21 mm) deep well socket to remove the spark plug. Rotate the piston to the bottom dead center (BDC) position. Install a length of starter rope as a piston stop. Use a Phillips head screwdriver to remove the upper right screw on the starter assembly and the bottom screw on the muffler guard. Push down on the top of the muffler guard to release it from the engine cover. While guiding the ignition wires and high tension lead, lift the engine cover off the cylinder.

CARBURETOR AND AIR FILTRATION COMPONENTS

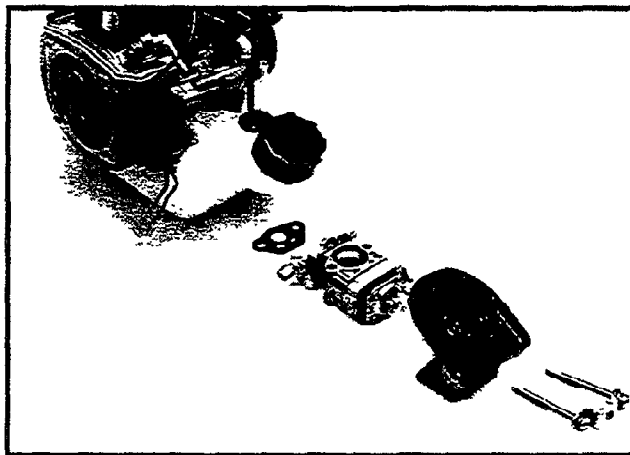


Figure 56

Disconnect the fuel and primer lines from the carburetor with a flat blade screwdriver. Use a #2 Phillips screwdriver to loosen the M5 x 15 mm screw and take off the air filter cover and air filter. Use a #2 Phillips screwdriver to remove the two M5 x 50 mm carburetor mounting screws, air filter body, and gaskets.

MUFFLER DISASSEMBLY



Figure 57

Use a 5/16" (8 mm) socket or wrench to remove the two M5 muffler mounting nuts and washers. Remove the muffler and muffler gasket. The spark arrestor screen can be serviced by removing two Phillips head screws.



FAN CASE AND CLUTCH REMOVAL

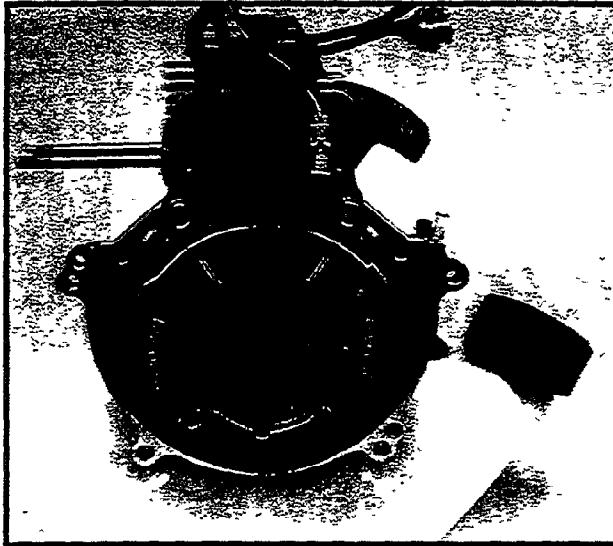


Figure 58

Remove four M5 x 16 mm screws with a Phillips head screwdriver or 5/16" (8 mm) wrench and pull the fan case (clutch case) from the crankcase.

Rotate the piston until it contacts the rope stop. Use a 1/2" (13 mm) socket to remove the two clutch shoulder bolts, wave washers and flat washers. Lift the clutch assembly off the flywheel.

IGNITION MODULE AND FLYWHEEL DISASSEMBLY

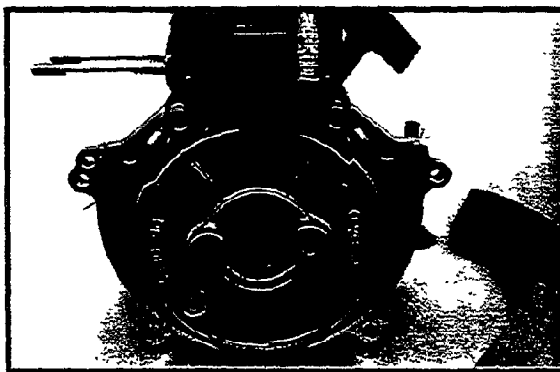


Figure 59

Remove the two M5 x 20 mm screws holding the ignition module to the crankcase. Next, use a 1/2" (13 mm) socket to remove the M6 flywheel nut from the flywheel. Attach the flywheel puller GM 25760-2 (with two GM 03008-2 screws mounted in the inner holes) on the flywheel and pull the flywheel off the unit.

SERVICE TIP

If the flywheel does not come off by tightening the jackscrew, tap lightly on the jackscrew with a mallet to free the flywheel from the crankshaft.

STARTER, FUEL TANK, STARTER PULLEY REMOVAL

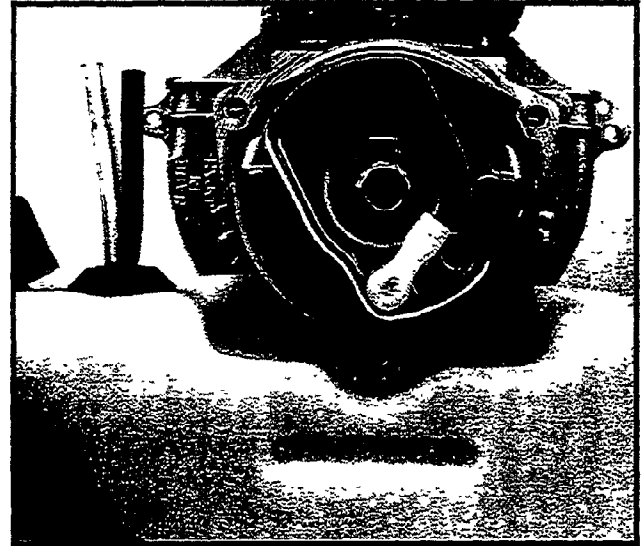


Figure 60

Use a #2 Phillips head screwdriver to unscrew the four remaining M5 x 16 mm screws holding the starter assembly and fuel tank on the crankcase. Remove the starter and fuel tank from the unit.

Use a 12 mm socket to remove the locking nut on the starter pulley. Then, use a 1/2" (13 mm) socket to spin the starter pulley and starter pawl assembly off the crankshaft.

CYLINDER AND PISTON DISASSEMBLY

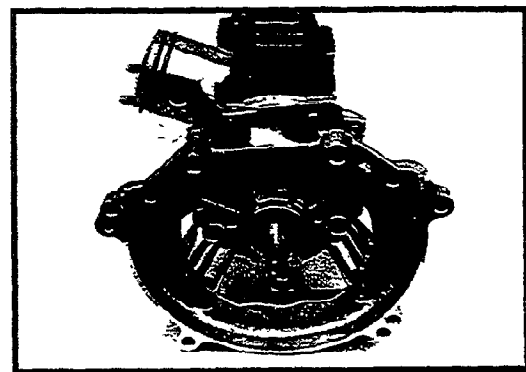


Figure 61

Use a 5/32" (4 mm) hex key wrench to remove the four M5 x 16 mm screws holding the cylinder to the crankcase. Rock the cylinder back and forth to break it loose from the crankcase, then lift it from the crankcase. Use needle nose pliers to remove the piston pin retaining ring. Push out the piston pin and remove the piston.



3000B TRIMMER / BRUSHCUTTER ASSEMBLY

Use the reverse sequence of the preceding disassembly steps and follow the special instructions below to properly assemble the unit.

PISTON ASSEMBLY

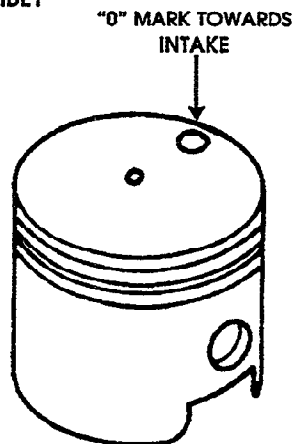


Figure 62

When placing the piston on the connecting rod, make sure the 'o' mark on top of the piston is facing the intake side of the unit.

FLYWHEEL ASSEMBLY

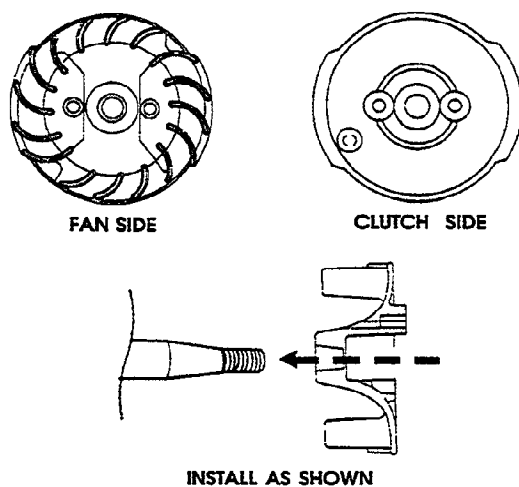


Figure 63

Clean the flywheel and crankshaft taper. Align the flywheel with the crankshaft key way. Insert the M8 nut and torque to 70-87 in. lb (8.0-9.8 Nm).

CLUTCH INSTALLATION

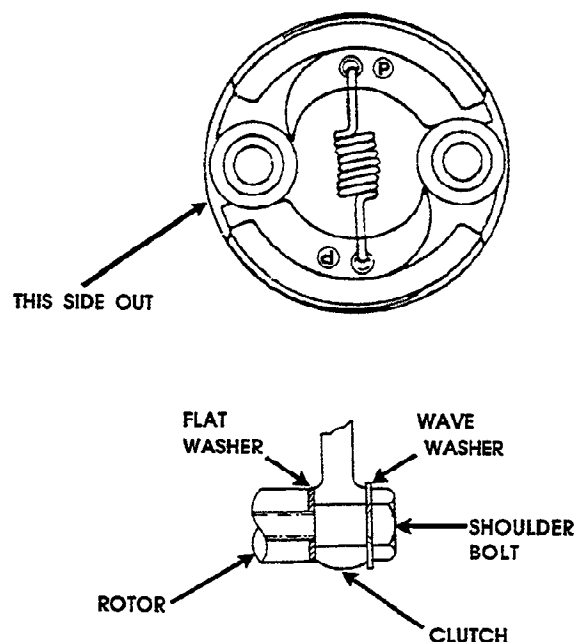


Figure 64

Place the clutch on the flywheel with the "P" mark on the casting facing out. Apply thread locking compound (p/n 23488-C) to the clutch shoulder bolts and assemble the shoulder bolts, washers and clutch assembly as shown. Torque the shoulder bolts to 52-70 in. lb (6.0-8.0 Nm).

SETTING THE AIR GAP

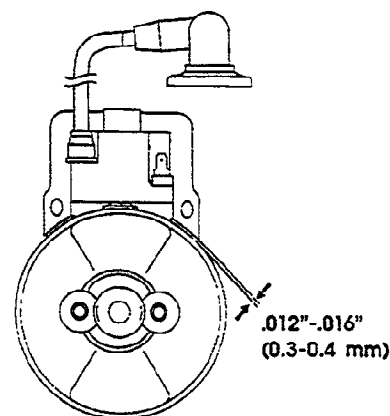


Figure 65

With the ignition module loose, place a .012"-.016" (0.3-0.4 mm) shim between the module and flywheel. Rotate the flywheel until the magnets are opposite the module core legs. Apply pressure on the flywheel towards the ignition module and tighten the two ignition module mounting screws. Remove the shim and torque the screws to 35-43 in. lb (4.0-5.0 Nm).



SPARK PLUG REFERENCE CHART

MODEL	DESCRIPTION	SPARK PLUG #	MODEL	DESCRIPTION	SPARK PLUG #
20	Chain Saw	DG96196	2800	Straight Shaft Trimmer	GM 19003 6
30	Chain Saw	DG93561	2840	Expand-It Trimmer	GM 19003 6
500e	Walk Behind Edger	78271	2840	Expand-It Trimmer	GM 19003 6
1600	Curved Shaft Trimmer	GM 08M6F	3000	Straight Shaft Trimmer	GM 19003 6
1700	Curved Shaft Trimmer	GM 19003 6	3000b	Straight Shaft Trimmer	GM 19003 6
1730	Curved Shaft Trimmer	GM 19003 6	3000hb	Handheld Blower	68616 S
1900	Curved Shaft Trimmer	GM 19003 6	3000j	Straight Shaft Trimmer	GM 19003 6
1900E	Dedicated Edger	GM 19390 1	3000LP	Straight Shaft Trimmer	GM BPM7A
1900e	Dedicated Edger	GM 19003 6	3000M	Straight Shaft Trimmer	GM 19003 6
1900EM	Dedicated Edger	GM 19003 6	3000SS	Straight Shaft Trimmer	GM 19003 6
1930	Expand-It Trimmer	GM 19390 1	3040M	Expand-It Trimmer	GM 19003 6
1930M	Curved Shaft Trimmer	GM 19003 6	3540	Expand-It Trimmer	GM 19003 6
1940	Expand-It Trimmer	DG 96196	4000	Straight Shaft Trimmer	GM 00B7S
1940	Expand-It Trimmer	GM 19390 1	4000b	Straight Shaft Trimmer	GM 19003 6
1940M	Expand-It Trimmer	GM 19003 6	4000j	Straight Shaft Trimmer	GM 19003 6
2100	Curved Shaft Trimmer	GM 19003 6	4000LP	Straight Shaft Trimmer	GM BPM6A
2100P	Push Mower		4000M	Straight Shaft Trimmer	GM 19003 6
2100SP	Self-Propelled Mower		4500	Straight Shaft Trimmer	GM 00B7S
2200	Straight Shaft Trimmer	GM 19003 6	4500LP	Straight Shaft Trimmer	GM BPM6A
2230	Straight Shaft Trimmer	GM 08M6F	4600	Back Pack Blower	GM 00B7S
2400	Hedge Trimmer	GM 19003 6	4600bp	Back Pack Blower	GM 19003 6
2500	Straight Shaft Trimmer	GM 19003 6	4600K	Back Pack Blower	GM 19003 6
2500LP	Straight Shaft Trimmer	GM BPM7A	4600LP	Back Pack Blower	GM 19003 6
2540LP	Expand-It Trimmer	GM BPM7A	7200	Chain Saw	GM 19003 6
2600	Back Pack Blower	GM 19003 6	7400	Chain Saw	GM 19003 6
2600	Straight Shaft Trimmer	GM 19003 6	7600	Chain Saw	GM BPM6A
2600h	Hedge Trimmer	GM 19003 6	7700	Chain Saw	GM BPM6A

NOTE: UNITS IN BOLD ARE NEW 1996 PRODUCTION

All Specifications are subject to change without notice.



COMPRESSION PRESSURES

MODEL	COMPRESSION PSIG - MINIMUM	COMPRESSION PSIG - STANDARD
20	115	145
30	120	140
500e	N/A	N/A
1600	110	140
1700	110	140
1730	110	140
1800	110	140
1900	90	125
1900e	110	155
1900E	100	150
1900EM	110	155
1930	100	150
1930M	110	155
1940	100	150
1940	90	120
1940M	110	155
2100	90	130
2100p		
2100sp		
2200	110	140
2230	110	140
2400	110	155
2600	110	155
2600h	110	155
2500	90	125
2500LP	100	150
2540LP	100	150
2600	100	150

MODEL	COMPRESSION PSIG - MINIMUM	COMPRESSION PSIG - STANDARD
2800	110	155
2800	110	155
2840	110	155
2840	110	155
3000	90	125
3000b	100	155
3000hb	95	105
3000j	100	155
3000LP	100	150
3000M	100	155
3000SS	100	150
3040M	100	155
3540	100	150
4000	100	150
4000b	120	175
4000j	120	175
4000J	120	175
4000LP	100	150
4000M	120	175
4500	110	165
4500LP	110	165
4600	110	165
4600bp	120	175
4600K	120	175
4600LP	110	165
7200	120	160
7400	120	160
7600	125	180
7700	125	180

NOTE: UNITS IN BOLD ARE NEW 1996 PRODUCTION.

COMPRESSION PRESSURES LISTED ARE COLD READINGS. COMPRESSION TESTERS CAN VARY WIDELY IN CALIBRATION. DO NOT USE THE COMPRESSION TEST AS THE SOLE MEANS OF DECIDING ON AN ENGINE REBUILD.

All Specifications are subject to change without notice.


Green Machine
 by John Deere

ENGINE SPEEDS

MODEL	DESCRIPTION	IDLE R.P.M.	CLUTCH IN / OUT R.P.M.	HIGH SPEED R.P.M. NO LOAD	HIGH SPEED R.P.M. WITH LOAD
20	Chain Saw	3200-3400	4200-4400	10,500-12,500	9500-10,000
30	Chain Saw	2800-3100	3800-4100	12,500-14,000	10,500-12,000
500E	Walkbehind Edger	-----	-----	3400-3600	2800-3100
1600	Curved Shaft Trimmer	3400-3800	-----	7000-7500	7000-7500
1700	Curved Shaft Trimmer	3000-3400	3700-4100	7000-8000	5000-7000
1730	Curved Shaft Trimmer	3100-3400	-----	7000-8000	6900-7200
1800	Curved Shaft Trimmer	3000-3300	3300-3600	8500	7000-7500
1900	Curved Shaft Trimmer	2700-3000	3400-3800	6500-7500	5800-6200
1900E	Dedicated Edger	2800-3200	3200-3600	9000	7300-8100
1900EM	Dedicated Edger	2700-3100	2900-3300	10,400	8700-9100
1900e	Dedicated Edger	2800-3300	2900-3300	9,500	7000-8000
1930	Expand-It Trimmer	2800-3200	3200-3600	9000	7300-8100
1940	Expand-It Trimmer	2800-3200	3200-3600	9000	7300-8100
1930M	Curved Shaft Trimmer	2700-3100	2900-3300	10,400	8700-9100
1940M	Expand-It Trimmer	2700-3100	2900-3300	10,400	8700-9100
1940	Expand-It Trimmer	2500-3500	3500-4200	10,500	6800-7800
2100	Curved Shaft Trimmer	3000-3400	3700-4100	7000-8000	5000-7000
2100p	Push Mower	1500-1800	-----	3100-3300	2900-3100
2100sp	Self-Propelled Mower	1500-1800	-----	3100-3300	2900-3100
2200	Straight Shaft Trimmer	3000-3400	3700-4100	7000-8000	5000-7000
2230	Straight Shaft Trimmer	3000-3400	3400-3800	7000-8000	6800-7400
2340	Expand-It Trimmer	2900-3300	3700-4100	7000-8000	6500-7500
2400	Hedge Trimmer	2800-3300	3800-4300	11,000	7100-7800
2500	Straight Shaft Trimmer	2900-3100	3000-3400	10,000	6500-7000
2500LP	Straight Shaft Trimmer	2800-3000	3300-3800	11,000	5250-8000

NOTE: UNITS IN BOLD ARE NEW 1996 PRODUCTION
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ENGINE SPEEDS

MODEL	DESCRIPTION	IDLE R.P.M.	CLUTCH IN / OUT R.P.M.	HIGH SPEED R.P.M. NO LOAD	HIGH SPEED R.P.M. WITH LOAD
2540LP	Expand-It Trimmer	2900-3300	3300-3800	11,000	7100-7800
2600	Back Pack Blower	2800-3100	-----	6500-7000	
2600	Straight Shaft Trimmer	2800-3300	2900-3300	9,500	7000-8000
2600h	Hedge Trimmer	2800-3300	2900-3300	9,500	7000-8000
2800	Straight Shaft Trimmer	2700-3100	2900-3300	10,400	8700-9100
2800	Straight Shaft Trimmer	2800-3300	2900-3300	9,500	7000-8000
2840	Expand-It Trimmer	2700-3100	2900-3300	10,400	8700-9100
2840	Expand-It Trimmer	2800-3300	2900-3300	9,500	7000-8000
3000	Straight Shaft Trimmer	2900-3100	3200-3800	10,000	6500-7000
3000LP	Straight Shaft Trimmer	2800-3200	3400-3800	10,000	4800-7200
3000SS	Straight Shaft Trimmer	2900-3100	3700-4200	10,000	6500-7500
3000M	Straight Shaft Trimmer	2700-3100	2900-3300	10,400	8700-9100
3040M	Expand-It Trimmer	2700-3100	2900-3300	10,400	8700-9100
3000hb	Handheld Blower	2800-3800	-----	-----	7200-8200
3000j	Straight Shaft Trimmer	2800-3300	2900-3300	9,500	7000-8000
3000b	Straight Shaft Trimmer	2800-3300	2900-3300	9,500	7000-8000
3540	Expand-It Trimmer	2900-3100	3700-4200	10,000	6500-7500
4000	Straight Shaft Trimmer	2100-2300	2750-3250	10,000	4800-7200
4000LP	Straight Shaft Trimmer	2100-2300	2750-3250	10,000	4800-7200
4000J	Straight Shaft Trimmer	2500-2900	2750-3250	10,400	8200-8600
4000M	Straight Shaft Trimmer	2500-2900	2750-3250	10,400	8200-8600
4000j	Straight Shaft Trimmer	2800-3300	2750-3250	10,400	8200-8600
4000b	Straight Shaft Trimmer	2800-3300	2750-3250	10,400	8200-8600
4500	Straight Shaft Trimmer	2100-3200	2750-3250	10,000	4800-7200
4500LP	Straight Shaft Trimmer	2100-3200	2750-3250	10,000	4800-7200

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All Specifications are subject to change without notice.



ENGINE SPEEDS

MODEL	DESCRIPTION	IDLE R.P.M.	CLUTCH IN / OUT R.P.M.	HIGH SPEED R.P.M. NO LOAD	HIGH SPEED R.P.M. WITH LOAD
4600	Back Pack Blower	2800-3100	-----	-----	6500-7500
4600LP	Back Pack Blower	3000-3200	-----	-----	6500-7500
4600K	Back Pack Blower	3000-3200	-----	-----	6500-7500
4600bp	Back Pack Blower	3000-3200	-----	-----	6500-7500
7200	Chain Saw	2700-3100	3750-4250	10,000	7500-8500
7400	Chain Saw	2700-3100	3750-4250	10,000	7500-8500
7600	Chain Saw	2300-2800	3600-4000	10,500-11,000	7500-8500
7700	Chain Saw	2300-2800	3600-4000	10,500-11,000	7500-8500

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1996 WARRANTY PERIODS

UT NUMBER	MODEL DESCRIPTION	CONSUMER WARRANTY	COMMERCIAL WARRANTY
String Trimmers / Brushcutters			
26032	2600 String Trimmer / Brushcutter	2 Years	1 Year
26033	2800 String Trimmer / Brushcutter	2 Years	1 Year
26034	3000j String Trimmer / Brushcutter	2 Years	1 Year
26035	3000b String Trimmer / Brushcutter	2 Years	1 Year
40cc Brushcutters			
26022	4000j Brushcutter	2 Years	1 Year
26023	4000b Brushcutter	2 Years	1 Year
Expand-It® String Trimmers			
26030	1940 String Trimmer	2 Years	90 Days
26031	2840 String Trimmer	2 Years	1 Year
Expand-It® Attachments			
26307	2851 Stick Edger	2 Years	90 Days
26308	2861 Blower	2 Years	90 Days
26309	2871 Cultivator	2 Years	90 Days
26310	3041 Brushcutter 6'	2 Years	90 Days
26009	2381 Snow Broom	2 Years	90 Days
Stick™ Edger			
26100	1900e Stick Edger	2 Years	1 Year
Walk-Behind Edger			
26101	500e Walk-Behind Edger	2 Years	90 Days
Backpack Blower			
26110	4600bp Backpack Blower	2 Years	1 Year
Handheld Blower			
26111	3000hb Handheld Blower	2 Years	90 Days
Hedge Trimmer			
26150	2600h Hedge Trimmer	2 Years	1 Year
Sprayer			
26350	sp70 Sprayer	2 Years	90 Days
Chain Saws			
26202	20 Chain Saw - 12"	1 Year	90 Days
26203	30 Chain Saw - 16"	1 Year	90 Days
Walk-Behind Mowers			
26500	2100p Walk-Behind Mower	2 Years	1 Year
26501	2100sp Walk-Behind Mower	2 Years	1 Year

All Specifications are subject to change without notice.



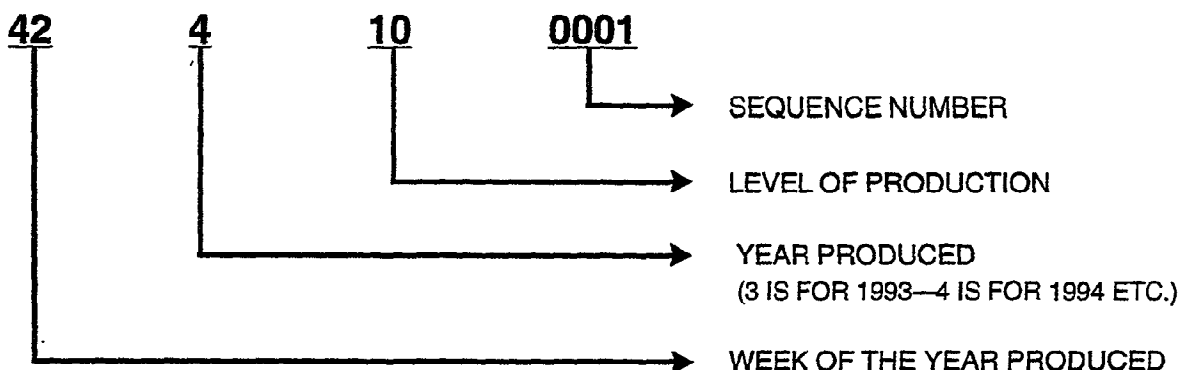
GREEN MACHINE SERIAL NUMBERING SYSTEM

PRIOR TO 1995

THE SERIAL NUMBER PLATE ON YOUR GREEN MACHINE HAS TWO NUMBERS. THE FIRST NUMBER IS THE MODEL NUMBER. THE SECOND NUMBER IS THE SERIAL NUMBER WHICH IS BROKEN DOWN INTO FOUR PARTS. THESE PARTS TELL US THE FOLLOWING ABOUT THE PARTICULAR UNIT.

EXAMPLE

MODEL	2800
SERIAL	424100001

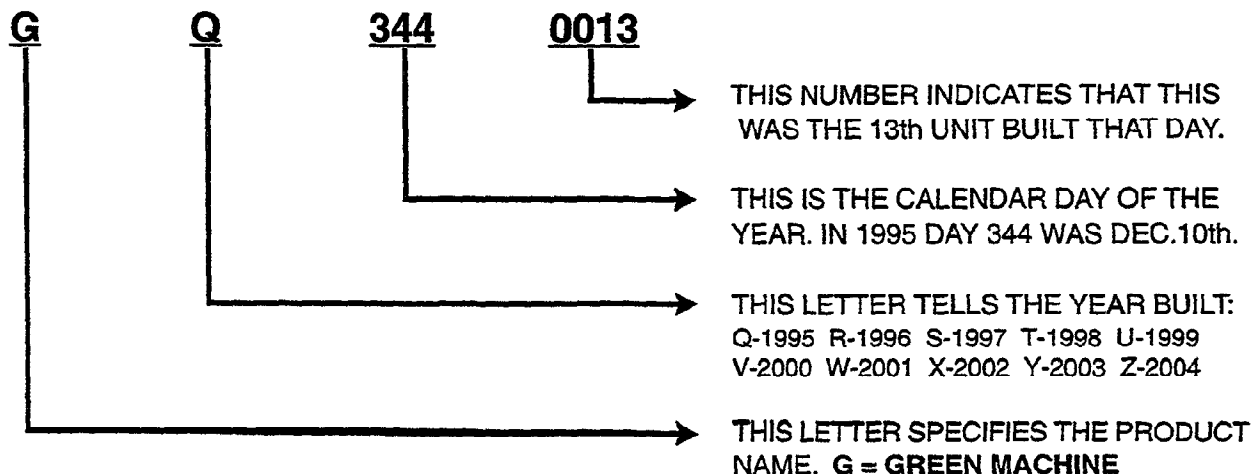


NEW STYLE 1995 AND AFTER

THE SERIAL NUMBER PLATE ON YOUR GREEN MACHINE HAS TWO NUMBERS. THE FIRST NUMBER IS UT NUMBER WHICH IS THE COMPUTER IDENTIFICATION NUMBER FOR THE PARTICULAR PRODUCT. THE SECOND NUMBER IS THE SERIAL NUMBER WHICH IS BROKEN DOWN INTO FOUR PARTS. THESE PARTS TELL US THE FOLLOWING ABOUT THE PARTICULAR UNIT.

EXAMPLE

MODEL	UT26101
SERIAL	GQ3440013





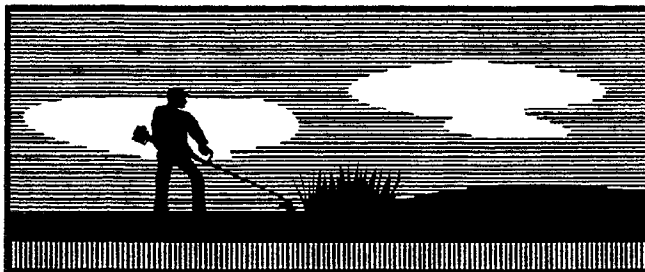
PARTS LIST AND OWNERS MANUALS

A Dealer or customer can call 1-800-242-4672, follow the prompts for a manual request and leave the request in the system. Please provide your name, address, city, state, zip code, telephone number, and your UT number and/or Model number of the product for which you need a parts list and/or owners manual. To obtain the correct manual, the 5 digit UT number must be provided. The request will be printed and mailed the same day or at the latest the next business day. This is a voice mail system and is active 24 hours per day, 7 days per week.

NOTES

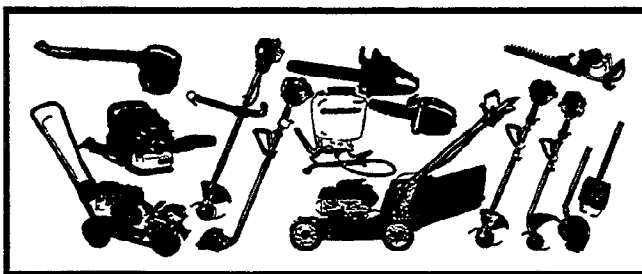
NOTES

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by John Deere



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