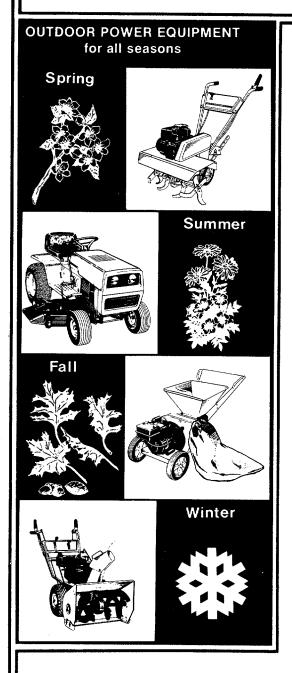
OWNER'S GUIDE



3 H.P. EDGER

Model Numbers 246-604-000 24604C

Important:

Read Safety Rules and Instructions Carefully

Thank you for purchasing an American-built product.

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Instructions given with this symbol are for personal safety. Be sure to follow them.



This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester muffler is available at your nearest engine authorized service center.



To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

SAFE OPERATION PRACTICES FOR EDGERS

TRAINING

- 1. Read this owner's manual carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- Your edger is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times.
- Never allow children to operate a power edger.
 Only persons well acquainted with these rules of safe operation should be allowed to use your edger.
- 4. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your edger. Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidently thrown by the edger in any direction and cause serious personal injury to the operator or any others allowed in the area.
- No one should operate this unit while intoxicated or while taking medication that impairs the senses or reactions.

PREPARATION

- 1. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the edger in any direction and cause serious personal injury to the operator or any others allowed in the area.
- 2. Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
- 3. Check the fuel before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or while the engine is still hot. Wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
- 4. Disengage the blade clutch on units so equipped before starting the engine.
- ▶ 5. Never attempt to make a wheel adjustment while the engine is running.
 - 6. Never operate the equipment in wet grass. Always be sure of your footing. A slip and fall can cause serious personal injury. Keep a firm hold on the handle and walk, never run.

OPERATION

- 1. Never operate this edger unless wearing safety glasses or some other suitable eye protection at all times the engine is running.
- 2. Do not change the engine governor settings or overspeed the engine.
- 3. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade can cause injury.
- 4. Stop the blade when crossing gravel drives, walks or roads.
- After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly inspect the edger for any damage. Repair the damage before restarting and operating the edger.
- If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
- 7. Stop the engine whenever you leave the equipment, before cleaning the guard assembly, and when making any repairs or inspections.
- 8. Before cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
- 9. Do not run the engine indoors.
- Shut the engine off and wait until the blade comes to a complete stop before unclogging guard assembly.
- 11. Never operate edger without proper guards, plates or other safety protective devices in place.
- 12. Always operate the edger so that the protective guard guide is positioned between the walk and the rotating blade. Never allow the rotating blade to operate directly against concrete walk or drive.

MAINTENANCE AND STORAGE

- 1. Check the blade and engine mounting bolts at frequent intervals for proper tightness.
- 2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
- 3. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
- 4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.



This unit is shipped WITHOUT GAS-OLINE or OIL. After assembly, see operating section of this manual for proper fuel and engine oil recommendations.

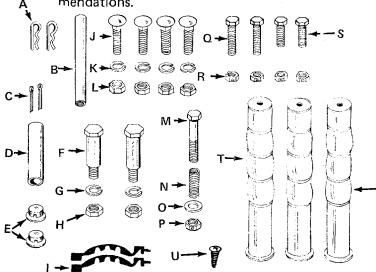
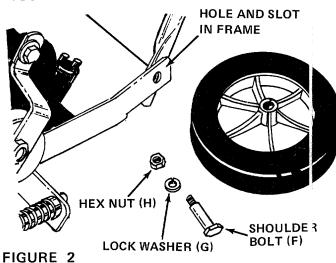


FIGURE 1



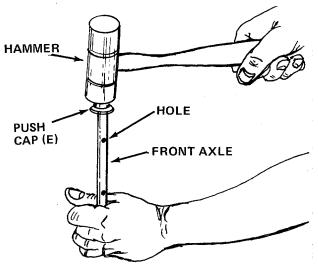


FIGURE 3

ASSEMBLY INSTRUCTIONS



Any reference to right and left hand will be determined from behind the edger, in the operator's position.

TOOLS REQUIRED:

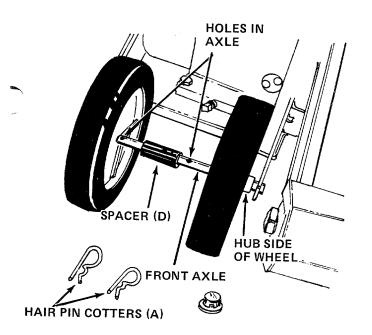
- Adjustable Wrench.
- 7/16" Open End or Box Wrench. 9/16" Open End or Box Wrench.
- C (1)
- D Pair of Pliers. (1)
- Ε Hammer

В

Block of Wood.

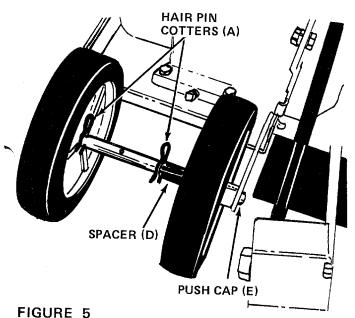
CONTENTS OF HARDWARE PACK: (See Figure 1)

- (2)Hair Pin Cotters
- В Rod Adjustment Link (1)
- (2)
- CDEF Cotter Pins 1/8" Dia. x 1.00" Long Spacer .50" I.D. x .62" O.D. x 1.62" Long (1)
- (2)Push Caps
- Shoulder Bolts (Rear Axles) (2)
- G (2)Lock Washers 3/8" I.D.
- Hex Nuts 3/8-16 Thread Н (2)
- (2)Cable Ties
- Carriage Bolts 1/4-20 x 1.25" Long (4)J
- Lock Washers 1/4" I.D. Κ (4)
- Hex Nuts 1/4-20 Thread (4)L
- Hex Bolt 5/16-18 x 1.75" Long Μ (1)
- N Compression Spring (1)
- Flat Washer 0 (1)
- P Hex Center Lock Nut 5/16-18 Thread (1)
- Q Hex Bolts 1/4-20 x 1.25" Long
- R Hex Center Lock Nuts 1/4-20 Thread (4)
- S Hex Bolts 1/4-20 x 1.00" Long (2)
- Т (3)Grips
- Self-Tapping Screw (1)
- 1. Remove the edger and all parts from the carton. Make certain that all loose parts and literature are removed from carton before carton is discarded.
- 2. Line up holes in lower handle with holes in frame. Secure rear wheels (larger) and lower handle to frame with shoulder bolts (F), lock washers (G) and hex nuts (H). See figure 2.
- Using a hammer, tap one push cap (E) onto the end of the front axle which has a hole closer to it. See figure 3.

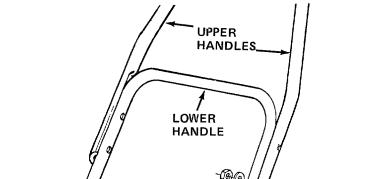


4. Starting on the right side of the edger, place the axle through the support arm on the frame. Then place axle through one wheel so the hub of the wheel is to the outside of the unit. Next place axle through spacer (D), the other wheel (hub to the outside of the unit) and through second support arm. See figure 4. Secure with push cap (E) by tapping it on with a hammer. See figure 5. It is necessary to hold a block of wood or a second hammer against the push cap on the other side of the axle.

FIGURE 4



5. Secure the front wheels and axle in position using two hairpin cotters (A). See figure 5.



HEX NUT (

LOCK

WASHER (K)

- 6. Slip the three handle grips (T) on the upper handles and the engagement handle. They will slip on more easily if you first soak them in warm, soapy water.
- 7. Assemble the two upper handles to the lower handle with four carriage bolts (J), lock washers (K) and hex nuts (L). Tighten only finger tight at this time. See figure 6.

FIGURE 6

CARRIAGE

BOLT (J)

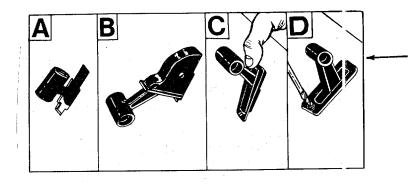


FIGURE 7

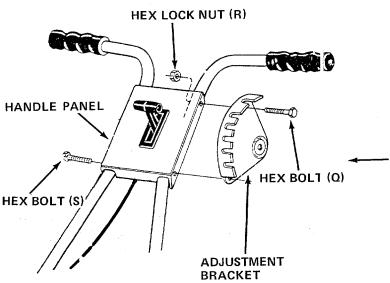


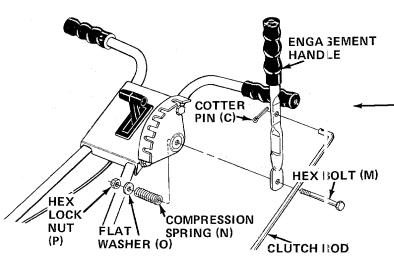
FIGURE 8

- 8. Assemble the throttle control to the handle panel as follows.
 - A. Hold the throttle control assembly beneath the handle panel. Turn the control sideways and insert the lever up through the wide portion of the slot on the handle panel. See figure 7A.
 - B. After the end of the lever is through the slot, turn and then tip the control forward as shown in figure 7B to slide it through the slot.

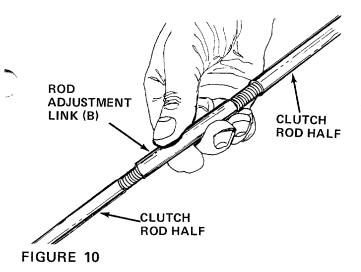


The lever must be all the way to the back of the control housing as shown in figure 7B.

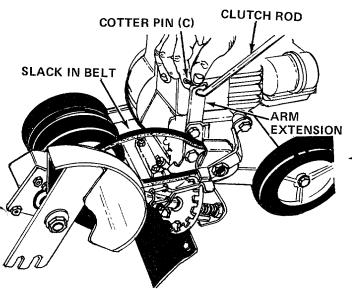
- C. Push the control back into the slot in the handle panel and press in place. Be certain the control is locked securely into the slot. See figure 7C.
- D. Secure the throttle control to the handle panel using self-tapping screw (U). See figure 7D.
- 9. Place the handle panel over the upper handles and line up the holes. See figure 8.
- Secure the right hand side of handle panel with two one-inch long hex bolts (S) and hex lock nuts (R). Do not tighten.
- 11. Secure the adjustment bracket to the left hand side of handle panel with 1-1/4 inch long hex bolts (Q) and hex lock nuts (R). See figure 8.
- 12. Now tighten securely all four bolts and nuts at handle panel and four bolts and nuts at lower handle.



- 13. Place hex bolt (M) through bottom hole in engagement handle as shown in figure 9, then through hole in adjustment bracket.
- 14. Secure hex bolt with compression spring (N), flat washer (O) and hex lock nut (P) on the inside of of the adjustment bracket.
- 15. Secure bent end of clutch rod half to engagement handle with cotter pin (C). See figure 9.



- 16. Thread rod adjustment link (B) onto the upper clutch rod half, using about half of the threads.See figure 10.
- 17. Thread the lower clutch rod half into the bottom of the rod adjustment link. See figure 10.



- 18. Pull the blade and guard assembly all the way back by hand until there is slack in the belt. See figure 11.
- 19. Secure the end of the lower clutch rod half to the arm extension on the pivot bracket with cotter pin (C). See figure 11.
- 20. Secure the throttle control cable to handles with two cable ties (I).

CONTROLS

FIGURE 11

THROTTLE CONTROL

The throttle control lever is located on the handle panel. It regulates the engine speed and stops the engine. See figure 12.

DEPTH CONTROL ADJUSTMENT

The engagement handle controls the clutching and declutching of the belt. To declutch, the handle is pulled back toward the operator. The farther forward the handle is pushed, the deeper the cut. To move the engagement handle, first move it to the left so the the handle is out of the notch. See figure 12.



If belt slips when engagement handle is in the engaged position, lengthen the clutch rod by turning the rod adjustment link. Refer to figure 10.

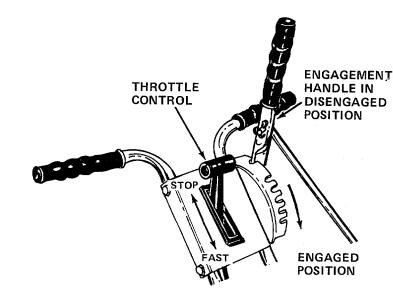


FIGURE 12

BLADE PLANE ADJUSTMENT

The cutting blade can be adjusted to eight positions from vertical to horizontal. To adjust, release the adjustment lever on the pivot bracket and rotate the spindle housing. Place adjustment lever in notch desired. See figure 13.

When the blade is adjusted toward the horizontal position, the front wheels must also be adjusted. Remove the two hairpin cotters and slide the spacer and wheel to the right as shown in figure 14. Reinsert the hairpin cotters.



If the wheels are not adjusted, the blade will hit the left front wheel, causing the belt to slip.

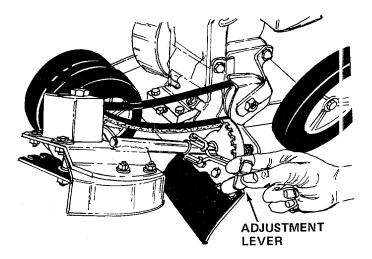


FIGURE 13

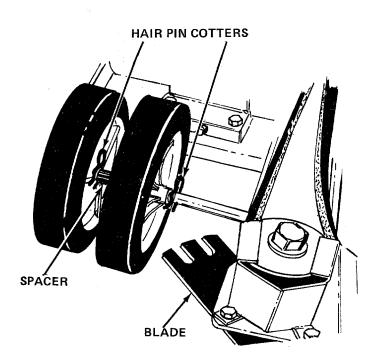


FIGURE 14

Become familiar with all the controls and adjustments before operating the edger so you can adjust it easily to a variety of cutting and trimming conditions. While the engine is running, DO NOT ATTEMPT TO MAKE ANY ADJUSTMENTS except with the throttle control.

OPERATION

1. Fill the crankcase with oil using a high quality detergent oil classified "For Service MS." Nothing should be added to the recommended oil. SUM-MER - Use SAE 30. WINTER - (Below 40° F.) Use SAE 5W-20 or SAE 10W.

Place the engine level. Remove filler plug. FILL THE OIL SUMP TO POINT OF OVERFLOW. Pour slowly. See figure 15.

2. Fill the fuel tank with clean, fresh, lead-free, low-lead, or regular grade leaded gasoline. DO NOT MIX OIL WITH GASOLINE.

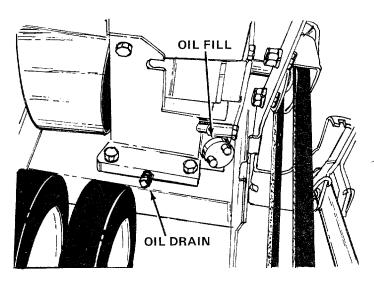


FIGURE 15

- 3. Move the engagement handle (depth control) back as far as it will go and place in the last notch. See figure 12.
- 4. Set the throttle control in "START" position.
- 5. Pull the choke knob out.



A warm engine may not require choking.

- 6. Grasp the starter handle and pull out the cord rapidly. Return it slowly to the engine. If the engine does not start after two pulls, move the throttle control to the "FAST" position.
- 7. After engine starts, push choke knob in gradually. To stop engine, move throttle control to "STOP" position. Disconnect spark plug wire and ground to prevent accidental starting while equipment is unattended.



CAUTION

Rotating cutting blade may throw objects causing personal injury. Always wear safety glasses or some other suitable eye protection at all times the engine is running. Keep area clear of bystanders and do not operate without guards in place.

OPERATING THE EDGER

 Set the adjustment lever (refer to figure 12) in the second notch at the top to edge vertically. See figure 16.

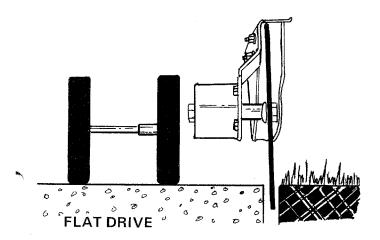


FIGURE 16

2. Set the adjustment lever (refer to figure 13) in the first notch at the top for trenching. See figure 17.

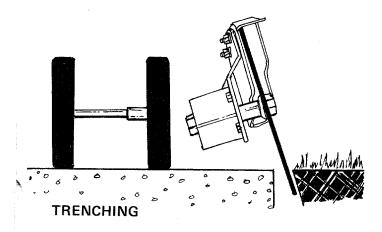


FIGURE 17

3. Move the front wheels all the way to the left when using the edger on a curb. See figure 18.

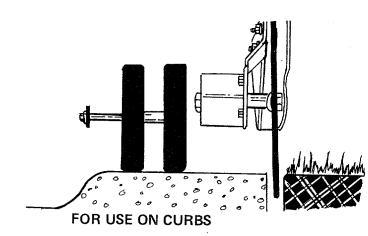
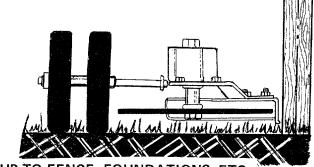


FIGURE 18

4. To operate the unit as a trimmer, move the adjustment lever and rotate the cutting blade 90°. See figure 19. Move the front wheels all the way to the right, as described in the Control section.



Do not adjust the blade guard with the engine running.



UP TO FENCE, FOUNDATIONS, ETC.

FIGURE 19

LUBRICATION

Wheels - The wheels are plastic and require no lubriccation.

Engine - Refer to engine manual for lubrication instructions.

Cutting Head Bearings - The two ball bearings in the cutting head are lubricated and sealed at the factory and require no lubrication. Lubricate all other moving parts with engine oil.

Shaft - Lubricate the two bearings and under the compression spring on the shaft with light oil at least once a season. See figure 20.

MAINTENANCE



Disconnect the spark plug wire and ground against the engine before performing any adjustment, repairs or maintenance.

BLADE REMOVAL

Use a wrench on both sides of the blade when removing it for replacement.

BELT REMOVAL

- 1. To remove the V-belt, remove the belt guard assembly at the engine pulley. Remove the nex nuts and lock washers. See figure 20.
- 2. Remove the belt guard at the spindle assembly by removing two hex bolts, lock washers and hex nuts. See figure 21.
- 3. Remove the old belt, and reassemble with a rew belt, part number 754-0142.

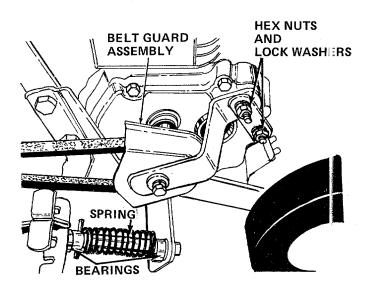


FIGURE 20

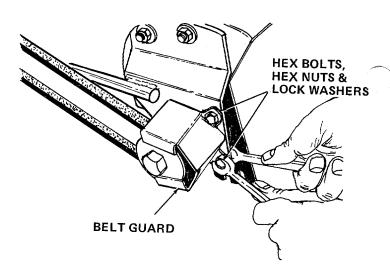


FIGURE 21

ENGINE OIL

Check oil level before starting engine and after every 5 hours of operation. Add oil as necessary to keep level full to point of overflowing. Before removing plug, clean area around plug to prevent dirt from entering oil fill opening. Refer to figure 15.

Change oil after first 5 hours of operation. Thereafter, change every 25 hours. Change oil while engine is warm. Oil may be drained thru oil drain plug. Crankcase capacity - 1-1/4 pints.

Refer to engine manual for complete instructions for care and maintenance of engine.

OFF-SEASON STORAGE

The following steps should be taken to prepare unit for storage.

- 1. Clean and lubricate unit thoroughly.
- 2. Refer to engine manual for correct engine storage instructions.
- 3. Coat unit's cutting blade with chassis grease to prevent rusting.
- 4. Store unit in a dry, clean area.



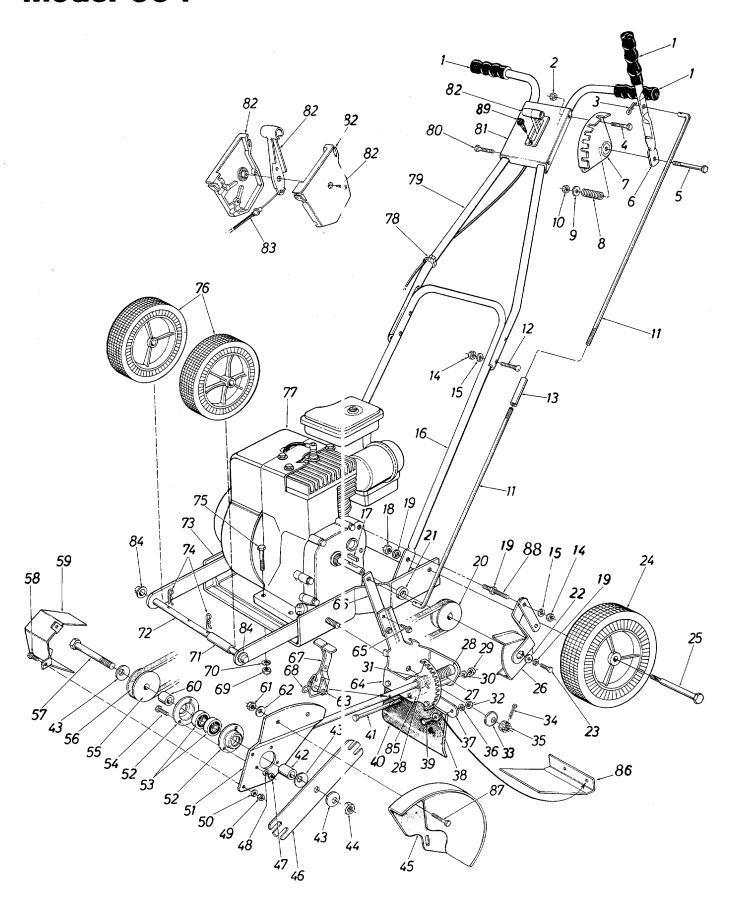
When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially springs and bearings.

TROUBLE SHOOTING CHART

	PROBLEM	CAUSE(S)	CORRECTIVE ACTION(S)
1. Engine fails		A. Check fuel tank for gas.	A. Fill tank if empty.
	to start.	B. Spark plug lead wire disconnected.	B. Connect lead wire.
	·	C. Faulty spark plug.	C. Spark should jump gap between control electrode and side electrode. If spark does not jump, replace the spark plug.
2.		A. Spark plug wire loose.	A. Connect and tighten spark plug wire.
	or loss of power.	B. Dirty air cleaner.	B. Clean air cleaner as described in engine manual.
3.	Engine over- heats.	A. Carburetor not adjusted properly.	A. Adjust carburetor. See engine manual.
		B. Air flow restricted.	B. Remove blower housing on engine and clean as described in the engine manual.
		C. Engine oil level low.	C. Fill crankcase with the proper oil.
4.	Excessive vibration at blade.	A. Spindle bent.	A. Replace spindle.
		B. Ball bearings worn out.	B. Replace ball bearings.
5.	Belt slips.	A. Belt worn or stretched.	A. Adjust clutch rod or replace belt.
		 B. Clutch handle will not remain in clutch plate. 	B. Readjust spring tension at clutch handle.
6.	Blade guard pivots forward, throwing dirt on operator.	Cam lever and carriage bolt at guard are loose.	Readjust guard, tighten cam lever and carriage bolt.

NOTE: For repairs beyond the minor adjustments listed above, please contact your local authorized service dealer.

Model 604



Model 604

PARTS LIST FOR MODEL 604 EDGER

	FAITIS EIST TON MODEL 004 EDGEN										
REF.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART		
1	720-0	120	Black Grip		45	781-0	ากรด	Guard Ass'y.			
2	712-0		Hex LNut 1/4-20 Thd.		46	781-0		Edger Blade	1		
3	714-0		Cotter Pin 1/8" Dia. x 1.00" Lg.*		47	712-0		Hex Nut 1/4-20 Thd.*			
4	710-0		Hex Bolt 1/4-20 x 1.25" Lg.*		48	736-0		LWash. 1/4" I.D.*			
5	710-0		Hex Bolt 5/16-18 x 1.75" Lg.*		49	712-0		Hex Nut 1/4-20 Thd.*	l		
6	749-0		Engagement Handle		50	736-0		LWash. 1/4" I.D.*			
7	781-0		Adjustment Bracket	l	51	781-0					
8	732-0		Compression Spring .50" O.D.		52	1531		Spindle Plate Ass'y. Bearing Housing 1-3/8" I.D.			
			x 1.38" Lg.		53	741-0		Ball Bearing .62" I.D. x 1.38" O.D.	i		
9	736-0	264	FlWash344" I.D. x .62" O.D.		54	710-0		Hex Bolt 1/4-20 x 62" Lg.*	i		
			x .063		55	756-0		3/8" "V"-Pulley 2" x 5/8" I.D.			
10	712-0	158	Hex Cent. LNut 5/16-18 Thd.		56	754-C		13/0 V -Pulley 2 X 5/8 1.D.			
11	747-0		Clutch Rod Half 3/8" Dia. x		57	710-0		"V"-Belt 3/8" x 31.2" Lg.			
	'''		18.25" Lg.		58	710-0		Hex Bolt 5/8-18 x 4.50" Lg.*			
12	710-0	111	Carriage Bolt 1/4-20 x 1.25" Lg.*		59			Hex Bolt 1/4-20 x .50" Lg.*	1		
13	750-0		Rod Adjustment Link		60	781-0		Belt Guard			
14	712-0		Hex Nut 1/4-20 Thd.*		00	750-0	0118	Sleeve .632" I.D. x .875" O.D.			
15	736-0		LWash. 1/4" I.D.*		61	710.0	1007	x .90" Lg.	ļ		
16	09959		Lower Handle			712-0		Hex Nut 5/16-18 Thd.*			
17	714-0		Sq. Key 3/16" x 3/16" x .75" Lg.		62	736-0		BellWash345" I.D. x .88" O.D.			
18	712-0		Hex Nut 3/8-16 Thd.*		63	714-0		Spring Pin Spir. 1/4" Dia. x 2.00"	Lg.		
19	736-0		LWash. 3/8" I.D.*		64	781-0		Pivot Bracket Ass'y.			
20	756-0				65	710-0	0600	Hex Wash. Hd. Self Tap Scr.			
21	750-0 750-0		Engine Pulley		00	704.0		5/16-24 x .50" Lg.			
22	736-0 736-0		Spacer .75" I.D.		66	781-0		Arm Extension			
23	710-0		FIWash385" I.D. x 1.0" O.D.		67	781-0		Adjustment Lever Ass'y.			
24	734-0	i	Hex Bolt 3/8-24 x 1.0" Lg.*		68	732-0		Torsion Spring			
25	734-0		Rear Wheel Ass'y. 8 x 1.75		69	712-0		Hex Nut 5/16-18 Thd.*			
26	13960		Shoulder Bolt .498" Dia. x 1.45" Lg. Belt Guard Ass'y.	j	70	736-0		LWash. 5/16" I.D.*			
27	732-0	107	Compression Spring	i	71	750-0	1622	Spacer .50" I.D. x .62" O.D. x			
28	711-0	270	Compression Spring Bushing			7000		1.62" Lg.			
29	711-0		Hex Nut 5/16-18 Thd.*	İ	72	738-0	1613	Axle .50" Dia. x 8.75" Lg.			
30	736-0					7040		(Front)	i		
31	715-0		LWash. 5/16" I.D.*	ŀ	73	781-0		Base Ass'y.			
3,	715-0	24/	Spring Pin Spir. 3/16" Dia. x 1.00" Lg.	ĺ	74	714-0		Hair Pin Cotter 1/2" Dia.			
32	712-0	207	Hex Nut 1/4-20 Thd.*		75	710-0	1442	Hex Bolt 5/16-18 x 1.50"			
33	736-0	112	BellWash535" I.D. x 1.50" O.D.			7040		_ Lg.*			
34	714-0	115	Cotter Pin 1/8" Dia. x 1.00" Lg.		76	734-0		Front Wheel Ass'y. 7 x 1.50			
35	712-0	110	Hoy Stated Net 1/2 20 The	1	77	700.0		Engine			
36	736-0		Hex Slotted Nut 1/2-20 Thd.	1	78	726-0		Cable Tie			
37	781-0		LWash. 1/4" I.D.*	į	79	749-0		Upper Handle			
38	736-0		Flap Bracket		80	710-0		Hex Bolt 1/4-20 x 1.00" Lg.*	ŀ		
30	/30-0	342	FlWash25"I.D. x .75" O.D. x		81	781-0		Handle Support Plate			
39	710-02	200	.030	ŀ	82	831-0		Throttle Control Box Ass'y.	1		
40	731-0	,	Hex Bolt 1/4-20 x .50" Lg.*	1	83	746-0	421	Throttle Control Wire 30" Lg.	- 1		
41	710-04		Flap		84	726-0		Push Cap 1/2" Dia.	ĺ		
42			Hex Bolt 5/16-18 x 4.5" Lg.*	1	85	711-0	386	Spacer .386" I.D. x .510" O.D. x	i		
72	750-02	229	Spacer .635" I.D. x .88" I.D. x	ļ	_			3.765" Lg.	l		
43	726 0	217	1.030" Lg.		86	781-0		Debris Deflector .25" Lg.	- 1		
43	736-03		BellWash630" I.D. x 1.25" O.D.		87	710-0		Hex Bolt 5/16-18 x .75" Lg. Spec.			
74	712-02	221	Hex Ins. LNut 5/8-18 Thd.	1	88	711-0		Stud 1/4-20 x 2.12" Lg.	- 1		
				1	89	710-0	779	Self-Tap Scr. #10 x .50" Lg.	ŧ		

^{*}For faster service order standard nuts, bolts, and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(615-Red)

When ordering parts, if color or finish is important, use the appropriate color code shown at left. (e.g. Red 10112 (615).)



This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

NOTE: The engine is not under warranty by the edger manufacturer . . . If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."