RYAN®

LAWNAIRE® 28 MODEL 544874C

OPERATOR'S, PARTS & SERVICE MANUAL



— GENERAL INFORMATION



IMPORTANT!

THIS MANUAL WILL AID YOU IN THE SAFE OPERATION AND PROPER MAINTENANCE OF YOUR EQUIPMENT. READ MANUAL THOROUGHLY BEFORE ATTEMPTING OPERATION. IF ANY PORTION IS NOT CLEARLY UNDERSTOOD. CONTACT AN AUTHORIZED DEALER FOR CLARIFICATION.

To make sure you are fully aware of safety and service information, the following two symbols are used throughout this manual.

This symbol is used throughout the manual to alert you to information about unsafe actions or situations, and will be followed by the word DANGER. WARNING. or CAUTION. DANGER indicates immediate hazards that may result in severe injury or death. WARNING indicates unsafe actions or situations that may cause severe injury, death and/or major equipment or property damage. CAUTION indicates unsafe actions or situations that may cause injury, and/or minor equipment or property damage.

NOTE: This appears next to information or instructions which will help you operate and maintain your equipment the right way.



WARNING

The information and instructions included in this manual alert you to certain things you should do very carefully. If you do not, you could:

- hurt yourself or others
- hurt the next person who operates the equipment
- damage the equipment.

This manual contains essential operation and safety information and must remain with the unit at all times, within easy access of any operator.

Additional manuals are available through your dealer.

IMPORTANT!

THIS EQUIPMENT SHOULD NOT BE MODIFIED OR ADDED TO WITHOUT THE MANUFACTURER'S AUTHORIZATION.



WARNING

Altering this equipment in any manner which adversely affects the equipments operation, performance, durability or use, may cause hazardous conditions.

Direct any inquiries to:

Textron Turf Care and Specialty Products Attn: Director of Engineering Services

P.O. Box 82409

Lincoln, NE 68501-2409 USA

SPECIFICATION INFORMATION

All information contained in this manual is the latest available at the time of printing. Textron Turf Care and Specialty Products reserves the right to make changes at any time without notice.

Whenever a name brand product is specified, an equivalent product may be used unless stated otherwise.

CHANGE OF OWNERSHIP OR ADDRESS

Textron Turf Care and Specialty Products makes every effort to keep owners informed of all safety related information. Therefore, changes in ownership and/or address should be reported to the manufacturer.

Your dealer has REGISTRATION CHANGE FORMS which will be filled out and filed by the dealer for his records, and a copy will be sent to the manufacturer.

DEALER INFORMATION

For your nearest dealer location write to: Textron Turf Care and Specialty Products Attn: Sales Coordinator P.O. Box 82409 Lincoln, NE 68501-2409 USA

In the USA and Canada call 1-800-228-4444 (dealer information only).

TABLE OF CONTENTS

3E	CHON	PAGE
1	Gene 1.1	ral Information Inside Front Cover General Information Inside Front Cover
2	Identi 2.1 2.2 2.3	flication 2 IDENTIFICATION 2 SPECIFICATIONS 2 TOUCH UP PAINT 2
3	Set–l 3.1	Jp
4	Contr 4.1 4.2	rols 5 ENGINE CONTROLS 5 AERATOR CONTROLS 5
5	Opera 5.1 5.2 5.3	ation 7 Pre-Operation Check 7 Aerating 7 Operation Tip 7
6	Servi 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9	Ce 8 Cleaning 8 Lubrication 8 Transporting 8 Tire Pressure 8 Belt Removal and Installation 9 Transmission Removal 10 Transmission Service 11 Reversing Gear Box Removal 12 Reversing Gear Box Service 13
7	Stora 7.1	ge
8	Torqu	e Chart 16
9	Parts 9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8 9.9	Illustrations 18-19 Engine Mounting 20-21 Aerator Head 20-21 Frame, Wheels & Tires 22-23 Handlebar & Shroud 24-25 Aerator Drive 26-27 Transport Drive 28-29 Transmission 30-31 Reversing Gear Box 32-33 Differential 34-35

2.1——— IDENTIFICATION

The model number and model year designation as well as the unit's serial number are all stamped on the identification decal attached to the frame (See FIGURE 1).

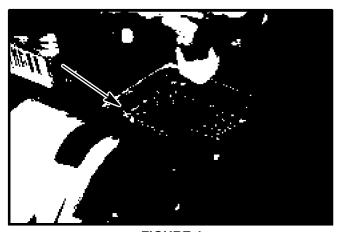


FIGURE 1
Identification Decal

2.2	SPECIFICATIONS
Features	Tricycle front wheel for easy maneuverability
	Rubber isolated handlebars and spring assist lift for easy, comfortable operation
	Sealed precision ball bearings in tine arms and linkage
Aerating Width	
Coring Depth	2 1/2" (64mm)
Coring Diameter .	3/4" (19mm)
Coring Pattern	3 1/2 x 5" (89 x 127mm)
Speed	Up to 24,000 sq. ft. / hr. $(2,230 \text{ M}^2 \text{ / hr.})$
Tines Eig	ht (8) 3/4" (19mm) heat treated tines on four (4) tine arms
	7.5 H.P. Briggs & Stratton Vanguard Model 138432, Type 0035, Trim E1 13.1 cu. in. (215 cc) w/recoil starter. ernor set at 3600 ± 100 rpm, no load
Drive	V–Belt / Roller chain, beveled gear differential
Weight	400 lbs. (183 Kg.)
Dimensions	Height 41" (1,041mm) Length 57" (1,448mm) Width 34" (864mm)
Tires	Front 2.80 / 2.50–4 Rear 4.10 / 3.50–4
2 2	TOLICH LID DAINT

2.3——— TOUCH UP PAINT

Ransomes Green

16 0z. (0.5 L) spray, order Part No. 838140 1 qt. (0.95 L) can, order Part No. 838141



To prevent possible injury to yourself or bystanders, use caution when cutting banding. Banding is under tension and can snap back when cut.

- 1. Cut the banding and remove the handle and the aerator from the shipping pallet.
- 2. Unhook the two side latches. Pivot the hood forward to remove it from the aerator.
- 3. Remove the two loose parts bags tied to the unit. These bags contain the hardware required for set-up and an extra set of tines.
- 4. Apply a solution of soap and water to the rubber isolators on the handle and, while holding the clutch and latch rods up in their approximate position, slide the handle into the handle mounts (See FIGURE 2).

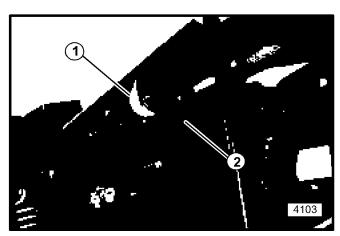


FIGURE 2

Handle Installation

- 1. Rubber Isolator
- 2. Handle Mount

The outside flange of the handle mount may be loosened if required to allow the handle to be inserted to the proper position.

- 5. Secure the handle with two (2) 3/8–16 x 2 1/2" screws with locknuts (from hardware bag).
- 6. Cut the plastic tie from the clutch lever on top of the handle. Connect the clutch lever rod to the linkage

bellcrank and secure it with the 5/16" washer and cotter pin from the hardware bag (See FIGURE 3).

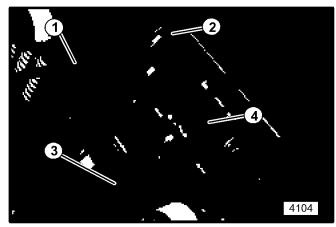


FIGURE 3

Clutch and Latch Rods (handle cover has been removed for photo)

- 1. Clutch Rod
- 2. Linkage Bellcrank
- 3. Latch Rod
- 4. Latch
- 7. Unhook the spring from the latch. Slide the hole in the end of the latch rod over the pin on the latch and secure with the 1/2" washer and cotter pin. Reconnect the spring to the latch (See FIGURE 3).

Cut the safety tie from the latch after the rod and spring have been attached.

 Push the latch lever (on the handle) to raise and lower the unit. Adjust the clevis at the bottom of the vertical adjustment rod if necessary so that the latch drops into the notch easily when the unit is lowered.

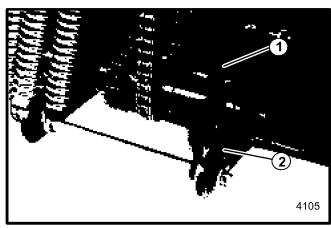


FIGURE 4

Latch Adjustment

- 1. Vertical Control Rod
- 2. Clevis

- Operate the clutch lever to check for positive belt engagement. If belt needs adjustment, refer to Drive Belt Adjustment, step 11 on page 10.
- 10. Set throttle control lever on the handle to second detent near idle position. Start the engine and set throttle lever on the engine at idle speed. Route the cable through the cable stop, throttle arm hole and insert the inner cable into the block clamp on the throttle arm of the engine (See FIGURE 5). Tighten set screw in block clamp.

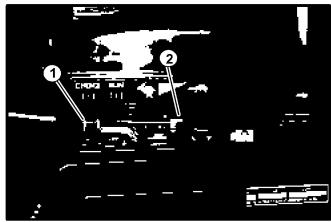


FIGURE 5
Throttle Cable Hook-Up
1. Cable Stop
2. Block Clamp

11. Move the throttle control lever to FAST while watching the throttle arm. The throttle arm should move to the fast position, engine speed should be 3700 RPM. If not, loosen the cable housing clamp and adjust the cable in or out as required. When the throttle handle is pulled fully toward the rear, the engine should stop.

4.1——— ENGINE CONTROLS

The engine is equipped with an choke control, oil sensor, fuel shut-off valve and engine shut-off switch (See FIG-URES 6, 7 & 8).



FIGURE 6
Choke Control

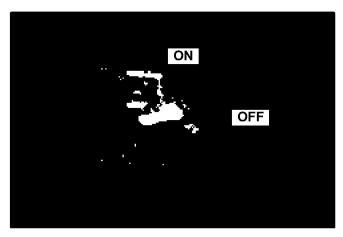


FIGURE 7
Fuel Shut-Off Valve



FIGURE 8
Engine Shut-Off Switch

Choke: Choke as required to start the engine. (Slide control – See FIGURE 6.)

Fuel Shut-Off Valve: Turn the valve lever to ON (horizontal position) to allow fuel to flow from the tank to the engine. (FIGURE 7).

Fuel Gauge: The engine is equipped with a fuel level indicator on the gas tank.

Engine Shut–Off Switch: This switch is located under the hood, on the right side of the engine toward the front of the unit. This switch needs to be in the 'ON' position to start the engine. (FIGURE 8).

4.2———— AERATOR CONTROLS

Dog Clutch Lever (See FIGURE 9) controls the drive mechanism. Push the lever down to engage the dog clutch, pull up to disengage. The aerator drive will not operate unless the dog clutch is engaged.

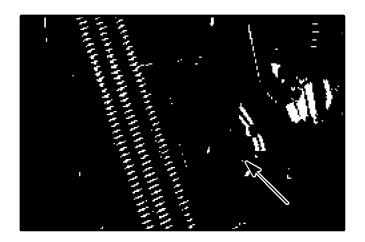


FIGURE 9

Dog Clutch Lever

Latch Lock Lever (See FIGURE 10) locks the aerator in the up or down position.

To lower the unit and engage the aerator, push the Latch Lock Lever and push down on the handlebar.

To raise the unit and disengage the aerator, push the Latch Lock Lever and pull up on the handlebar.

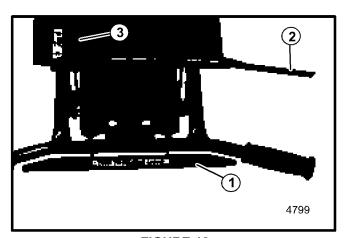


FIGURE 10

Handlebar Controls

- 1. Latch Lock Lever
- 2. Clutch Lever
- 3. Throttle Lever

Clutch Lever (See FIGURE 10) engages the unit drive.

Pull back on the Clutch Lever with the unit RAISED to transport the unit without operating the aeration mechasism.

Pull back on the Clutch Lever with the unit LOWERED to move the unit forward and begin aerating.

5.1———— PRE-OPERATION CHECK

Visually check the unit for loose, broken or missing parts and/or fasteners. Replace or tighten as necessary.

Make sure the tines are in usable condition. Replace any bent, broken or worn tines.

Lubricate all lubrication fittings before each days use or after every eight hours of operation (See SERVICE section).

Check engine crankcase oil level while engine is in a level position. Fill as necessary (See SERVICE section).

Fill fuel tank according to ENGINE MANUFACTURER'S specifications.

AWARNING

Gasoline is extremely flammable and highly explosive under certain conditions. Always stop the engine and do not smoke or allow open flames or sparks while refueling.

DO NOT start or run the engine inside where exhaust fumes can collect. Carbon monoxide present in the exhaust is an odorless and deadly gas.

DO NOT operate the unit without an approved cap on fuel tank.

5.2———— AERATING

For best performance and maximum tine penetration, the lawn should be thoroughly watered the day before aeration. Compacted soil conditions will cause the unit to bounce, resulting in possible damage to the tines and undue stress to the unit.



DO NOT operate the unit unless all shields are in place.

DO NOT make any adjustments or perform any maintenance while the engine is running.

Before operating, check the area to be aerated and remove any objects that may be a safety hazard or cause damage to the unit.

DO NOT place hands or feet beneath the unit at any time.

NOTE: Never cross hard objects or surfaces (sidewalks, driveways, stepping stones, etc.) with aerator in LOWERED position.

5.3———— OPERATION TIP

Walk through the area to be aerated and mark with flags immovable objects, such as sprinkler heads and water mains.

Be sure the unit is RAISED, and the fuel shut-off valve on the bottom of the fuel tank is open.

- 1. Set the throttle control lever to a "middle" position. Place engine switch in the 'ON' position. Pull recoil starter and choke if necessary to start engine.
- Slowly pull back on the clutch lever and adjust the throttle for a comfortable transport speed. Transport the unit to the work area.
- Upon reaching the work area, release the clutch lever. Lower the aerator, push the throttle lever all the way forward to FAST and pull the clutch lever back to start aerating.

Aerate across slopes or on steeper grades at a 45° angle up and down the slope.

The unit is designed to make turns while aerating. If the tines damage the turf while making turns, push down on the handlebars while turning to help eliminate the problem.

4. Release the clutch lever and raise the aerator when aerating is completed.



WARNING

When replacement parts are required, use genuine RYAN parts. Failure to do so may result in product malfunction and possible injury to to the operator and/or bystanders.

Any warning decal that becomes unreadable should be replaced immediately.

DO NOT operate the unit unless all shields are in place.

DO NOT make any adjustments or perform any maintenance while the engine is running.



After each day's aerating, remove and thoroughly clean the tines. Apply a light coating of oil to the tines to prevent rust. Replace bent, broken or worn tines and reinstall the tines on the unit.

After the engine has cooled, clean the unit with water.

Keep the belts free of oil and dirt.

6.2 LUBRICATION

Lubrication Fittings; The Lawnaire 28 has eight (8) lubrication fittings (See FIGURE 11 for locations).

Use a pressure lubrication gun with a standard lithium based lubricant to lubricate all eight (8) fittings after every eight hours of operation. Wipe each fitting before and after lubricating.

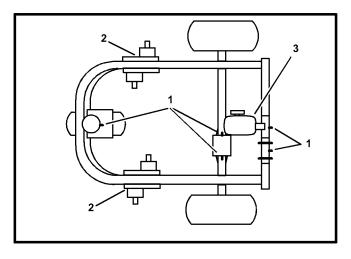


FIGURE 11

Lubrication Chart

- 1. Lubrication Fittings
 Front Wheel Pivot (1)
 Pivot Axle (5)
 Differential (2)
- 2. Reversing Gear Box
- 3. Transmission

Reversing Gear Boxes (See FIGURE 11 for location); lubrication filled gear boxes should require no additional lubrication, add lithium based gun lubricant if required.

Transmission (See FIGURE 11 for location); Remove plug, fill to bottom of plug opening with 80–90W gear lube.

6.3———— TRANSPORTING

Close the fuel shut-off valve before transporting.

Loading; When using ramps to load the unit for transporting, be sure all three wheels are supported by ramps.

Unloading; When using ramps to unload the unit, engage the dog clutch (lever down) to keep the unit from rolling down the ramp too quickly.

6.4———TIRE PRESSURE

NOTE: Improper inflation will shorten tire life considerably.

Check tire pressure before each days operation. Keep all three tires inflated to 14–16 PSI (97–110 kPa).



Use caution when inflating a tire, or bringing a low tire up to recommended pressure. Use a pressure gauge to check the pressure in a partially inflated tire before connecting an air hose. Due to the low air volume requirements of small tires, over-inflation may be reached in a matter of two or three seconds, which may cause the tire to explode.

6.5— BELT REMOVAL AND INSTALLATION

- 1. Remove the shield covering the aerator mechanism.
- 2. Remove the two screws securing the ends of the pulley shaft (See FIGURE 12).



FIGURE 12

Pulley Shaft
1. Pulley Shaft Screws
(each end of shaft)

Remove the hardware from the idler shaft pillow blocks (See FIGURE 13). Move the idler shaft back (toward the rear of the unit) to release the tension on the idler drive belt and aerator chains.

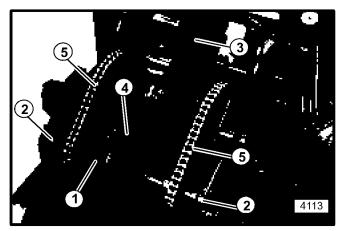


FIGURE 13

Aerator Drive

- 1. Idler Shaft
- 2. Idler Shaft Pillow Blocks
- 3. Drive Belt
- 4. Idler Drive Belt
- 5. Aerator Chains
- 4. Remove the LEFT aerator chain.
- 5. Remove both the Idler Drive Belt and the Drive Belt.
- 6. Put on new belts and reinstall the two screws securing the ends of the pulley shaft.
- Make sure the RIGHT aerator chain is properly meshed with the sprocket on the idler shaft and reinstall the pillow block on the RIGHT side of the idler shaft. DO NOT tighten the pillow block hardware.
- 8. Time the aerator by positioning the inner two crank arms level and to the back of the unit (the outer two crank arms will be level and to the front). See FIGURE 14.

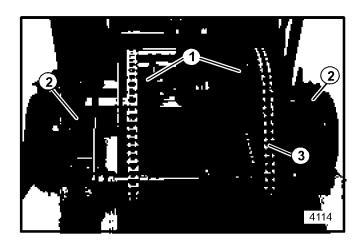


FIGURE 14

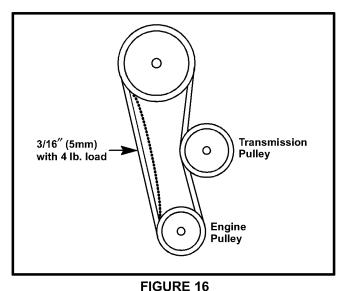
Aerator Timing

- 1. Inner Crank Arms (Back)
- 2. Outer Crank Arms (Front)
- 3. LEFT Aerator Chain
- Install the LEFT aerator chain and the pillow block at the LEFT side of the idler shaft (a pry bar may be necessary to align the holes in the pillow block flange and the frame).
- 10. Tighten the hardware on both pillow blocks.
- 11. **Drive Belt Adjustment**; Pull back on the clutch lever to engage the drive belt. Adjust the nut on the Drive Belt Adjustment Screw (See FIGURE 15) until there is a 3/16" (5mm) deflection by four pounds of force on the side of the drive belt opposite the transmission (See FIGURE 16).



FIGURE 15

Drive Belt Adjustment Screw



Drive Belt Adjustment

12. Reinstall shields before operating the unit.

6.6———— TRANSMISSION REMOVAL

- 1. Remove the shield covering the aerator mechanism.
- 2. Loosen primary drive chain adjustment screw (See FIGURE 17).

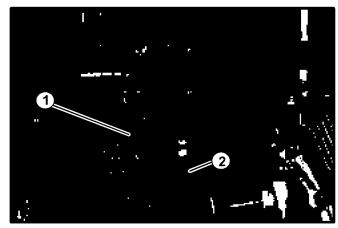


FIGURE 17

Primary Drive Chain

- 1. Primary Drive Chain
- 2. Primary Drive Chain Adjustment Screw
- 3. Open the connector link of the primary drive chain and remove the chain from the unit.
- Disconnect the drive belt adjustment screw from the bellcrank (Refer to FIGURE 15) and detach the tension spring from the top of the transmission (See FIGURE 18).



FIGURE 18

Transmission

- 1. Tension Spring
- 2. Transmission Mounting Screws
- 3. Clutch Mounting Bracket
- 5. Take out the two transmission mounting screws and remove the transmission with the clutch mounting bracket (See FIGURE 18).
- 6. Remove the clutch mounting bracket from the transmission.
- 7. Remove the screw securing the dog clutch sprocket to the output shaft and pull the sprocket from the shaft.

6.7——— TRANSMISSION SERVICE

- 1. With the transmission taken out of the unit, Remove the belt pulley and key from the input shaft.
- 2. Remove one of the drain plugs and drain the oil from the transmission case.
- Remove the hardware holding the two case halves together, and tap the tabs on the case with a soft hammer (lead, leather, plastic etc.) to break the seal and separate the case halves.
- Remove both the input and output shafts (with gears) from the case halves (See FIGURE 19). Note the position of the spacer at the end of the output shaft for reassembly.

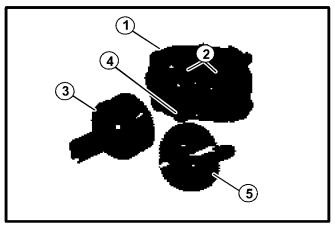


FIGURE 19

- 1. Case Half
- 2. Ball Bearings
- 3. Output Shaft w/gears
- 4. Spacer
- 5. Input Shaft w/gears
- Remove the ball bearings and oil seal from each case half. Install new ball bearings in both case halves but DO NOT install new oil seals at this time.

Input Shaft

6. Remove gears, key and spacer from the input shaft (See FIGURE 20).

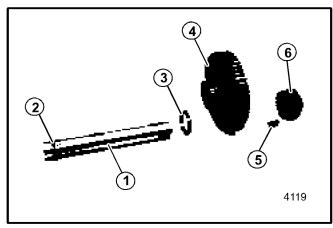


FIGURE 20

Input Shaft

- 1. Input Shaft
- 2. Snap Ring
- 3. Spacer
- 4. Large Double Gear
- 5. Key
- 6. Small Gear
- Check shaft for wear and replace if necessary. If replacing shaft, install existing snap ring on new shaft. Check for, and remove any burrs on key ways in the shaft.

- 8. Replace the press-in bushings in the large double gear (be sure the oil holes in the bushings align properly), or, replace the gear if necessary.
- Reinstall the spacer on the shaft next to the snap ring, then the large double gear with the smaller end next to the spacer, followed by the key and small gear with the flat end of the small gear facing the large gear (Refer to the order shown in FIGURE 20).

Output Shaft

10. 2. Remove both of the gears and key from the shaft (See FIGURE 21).

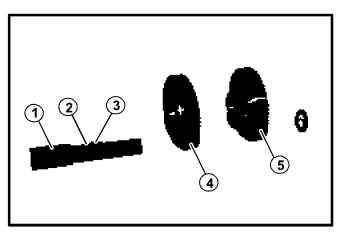


FIGURE 21

Output Shaft

- 1. Output Shaft
- 4. Single Gear
- 2. Snap Ring
- 5. Double Gear
- 3. Key
- 11. Check the shaft for wear and replace if necessary. If replacing shaft, install existing snap ring on new shaft. Check for, and remove any burrs on key ways in the shaft.
- Replace the press-in bushings in the double gear (be sure the oil holes in the bushings align properly), or, replace the gear if necessary.
- 13. Reinstall the key and single gear on the output shaft. The end of the gear with the higher step should face the snap ring (Refer to FIGURE 21).
- 14. Install the double gear on the shaft with the small end facing the single gear.
- 15. Install the spacer on the shaft next to the double gear. Be sure the spacer at the end of the output shaft stays in position while installing gears in case halves.

- 16. Install both shafts with gears into one of the case halves. Rotate one shaft to make sure the other turns and keys are in proper location.
- 17. Apply Loctite 515, or equivalent, to the mating edges of the case halves. Be sure the case alignment spacers are in place in the upper and lower middle holes and put the two halves of the case together.
- 18. Install the clutch bracket and hardware (with screw heads on the input shaft side). Torque the hardware to 16 ± 2 ft. lbs. (22 N·m).
- 19. Apply some 30W oil to the lips of the oil seals and install one on each side of the transmission.
- 20. Reinstall pulley and sprocket.
- 21. Position the transmission in its mounting location. Remove one of the filler plugs and fill the case to the bottom of the filler hole with 80–90W gear lube. Reinstall the filler plug.
- Mount the transmission back on the unit and reconnect the drive belt adjustment screw and tension spring.
- 23. Align the belt pulley by loosening the set screw and moving the pulley on its shaft until it aligns with the drive belt. Tighten the set screw.
- 24. Check the drive belt tension and adjust if necessary (See drive belt adjustment).
- 25. Reinstall the primary drive chain and chain adjustment screw. Adjust screw to obtain 1/8 1/4" (3 6mm) deflection in the chain at the center point of the chain's span between the two sprockets.
- **NOTE:** Excessive roller chain tension will shorten bear ing life.
- 26. Reinstall shields before operating the unit.

6.8—— REVERSING GEAR BOX REMOVAL

- 1. Remove the shield covering the aerator mechanism.
- Remove the return links connecting the tine arms to the vertical links by unscrewing the hardware and separating the two halves (See FIGURE 22). Note the position of the washers for reinstallation.

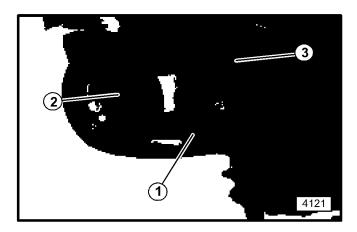


FIGURE 22 Return Link

- 1. Return Link
- 2. Vertical Link
- 3. Tine Arm
- 3. Remove the four (4) screws holding the reversing gear box to the mounting plate and remove the reversing gear box with the vertical links still attached.
- 4. Loosen the two (2) screws securing the vertical link to the reversing gear box shaft. Remove the vertical link by sliding it off of the shaft

Reinstallation

5. When work on the reversing gear box is complete, reinstall by reversing the preceding procedure.

When reassembled, the tine arms should be vertical side-to-side. If they are not, loosen the set screws in the crankshaft bearing lock collar (See FIGURE 23) and slide the bearing in or out on the shaft until the tine arm is vertical.



FIGURE 23

Crankshaft Bearing Lock Collar

6. Rotate the crankshaft by hand to make sure the tine arms do not bind.

6.9—— REVERSING GEAR BOX SERVICE

1. Remove the gear box from the unit.

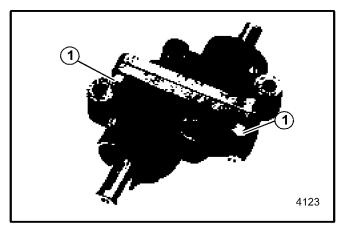


FIGURE 24

Reversing Gear Box 1. Hardware

- 2. Remove the hardware holding the two case halves together.
- 3. Remove the oil seals from each end of the gear box and separate the two halves.
- 4. Use a soft hammer (lead, plastic, leather, etc.) to remove the shaft from each case half.
- Separate all of the components (press the bearings off of the shaft and out of the case half if they need to be replaced). Clean the components and check for wear, replace parts as required (See FIGURE 25).

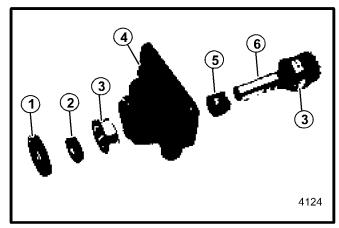


FIGURE 25

Case Half Components

- 1. Oil Seal
- 4. Case Half
- 2. Spacer (outer)
- 5. Spacer (inner)
- 3. Bearing
- 6. Gear Shaft

SERVICE 6

- 6. Press new bearings onto shafts if required, install inner spacers and insert shafts into case halves.
- Install outer bearing and spacer. Apply 30W oil to the lips of the oil seals and install one on each half of the gear case.
- Reinstall the vertical links on the gear box shafts. Be sure that the link is oriented so that the wear strip will face forward when the gear box is remounted (See FIGURE 26).

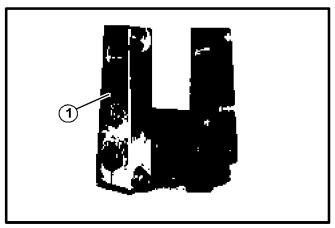


FIGURE 26

Vertical Link Installation (early style link shown) 1. Wear Strip

- 9. Insert two screws through one of the case halves and install a new gasket over the screws.
- Place the two halves on a flat surface with the gears facing each other and the flat (mounting) side down.
 Turn the vertical links so that they are both pointing

straight up (See FIGURE 27). Be sure the gear teeth mesh and put the two case halves together. Install all of the hardware but DO NOT tighten.

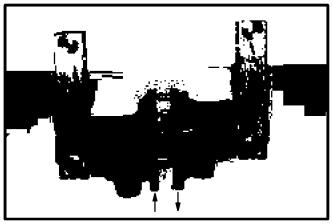


FIGURE 27

Gear Box Assembly

Slide the case halves against each other (See Arrows in FIGURE 27) to eliminate backlash (play between the shafts) and tighten the hardware. Torque hardware to 30 ft. lbs. (41 N·m).

NOTICE

- Shafts must rotate 180° from original position shown without binding.
- 12. Pump lithium based gun lubricant in one plug hole until it starts to come out of the other.
- 13. Apply thread sealant to the threads of the plugs and reinstall the plugs.
- 14. Reinstall gear box.



To prevent possible explosion or ignition of vaporized fuel, do not store power equipment with fuel in the tank or carburetor in enclosure with an open flame (furnace, water heater pilot light etc.).

Perform the following steps if the unit is to be stored for longer than thirty (30) days.

- 1. Drain the fuel from the tank and fuel lines.
- 2. Start the engine and run it until all of the fuel in carburetor bowl is used.
- While the engine is still warm, drain the oil from the crankcase and replace it with the proper weight of oil corresponding to the season the unit will next be used.

- 4. Remove the spark plug and squirt a small quantity of oil into the cylinder. Pull the starter a few times to distribute the oil in the cylinder.
- 5. Lubricate all lubrication fittings.

To put the unit back into operation after extended storage:

- Tighten any loose parts or hardware.
- Replace any cracked, bent, broken or worn tines.
- Fill the fuel tank.
- Check the engine oil level (with the engine in a level position).
- Start the engine and check for fuel leaks.
- Check clutch lever operation to make sure the unit stops when it is released.

TORQUE SPECIFICATIONS HEX HEAD CAP SCREWS

The torque values shown should be used as a general guideline when specific torque values are not given.

U.S. Standard Hardware

		Shank Size (Diameter in inches, fine or coarse thread)												
Grade		1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1 1/8		
SAE	ftlbs.	9	18	31	50	75	110	150	250	378	583	782		
grade 5 *	N·m	12	24	42	68	102	150	203	339	513	790	1060		
SAE grade	ftlbs.	13	28	46	75	115	165	225	370	591	893	1410		
8 **	N·m	18	38	62	108	156	224	305	502	801	1211	1912		
Flangelock Screw w/	ftlbs.		24	40										
Flangelock Nut	N∙m		33	54					·					



* Grade 5 marking – Minimum commercial quality (Lower quality not recommended).

^{**} Grade 8 marking –



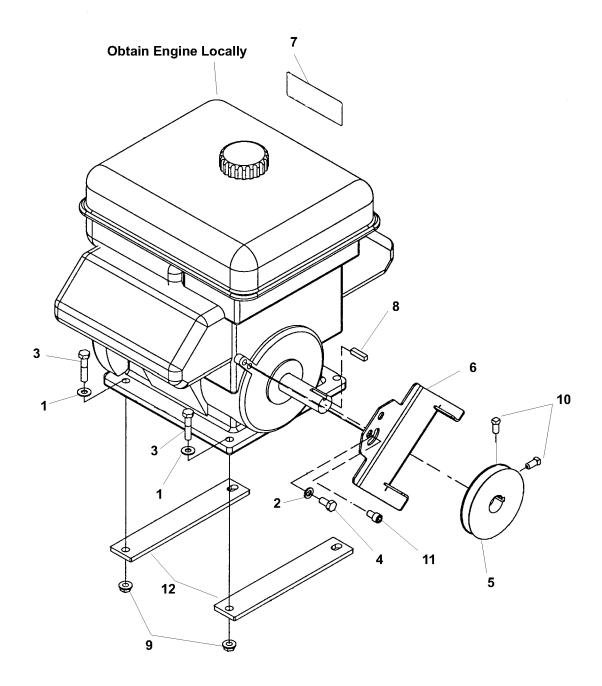
Metric Standard Hardware

		Shank Size (Diameter in millimeters, fine or coarse thread)													
Grade		M4	М5	М6	М7	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27
Grade	ftlbs.	1.5	3	5.2	8.2	13.5	24	43.5	70.5	108	142	195	276	353	530
8.8*	N·m	2	4	7	11	18	32	58	94	144	190	260	368	470	707
Grade	ftlbs.	2.2	4.5	7.5	12	18.8	35.2	62.2	100	147	202	275	390	498	747
10.9**	N·m	3	6	10	16	25	47	83	133	196	269	366	520	664	996
Grade	ftlbs.	2.7	5.2	8.2	15	21.8	43.5	75	119	176	242	330	471	596	904
12.9 ***	N·m	3.6	7	11	20	29	58	100	159	235	323	440	628	794	1205

^{*} Grade 8.8 marking -

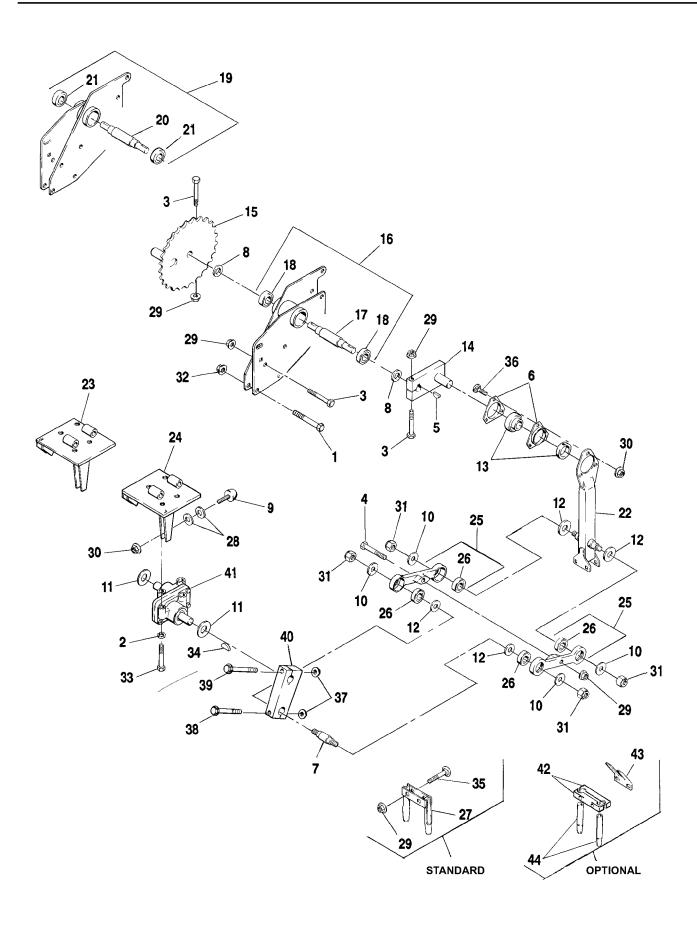


PARTS ILLUSTRATIONS



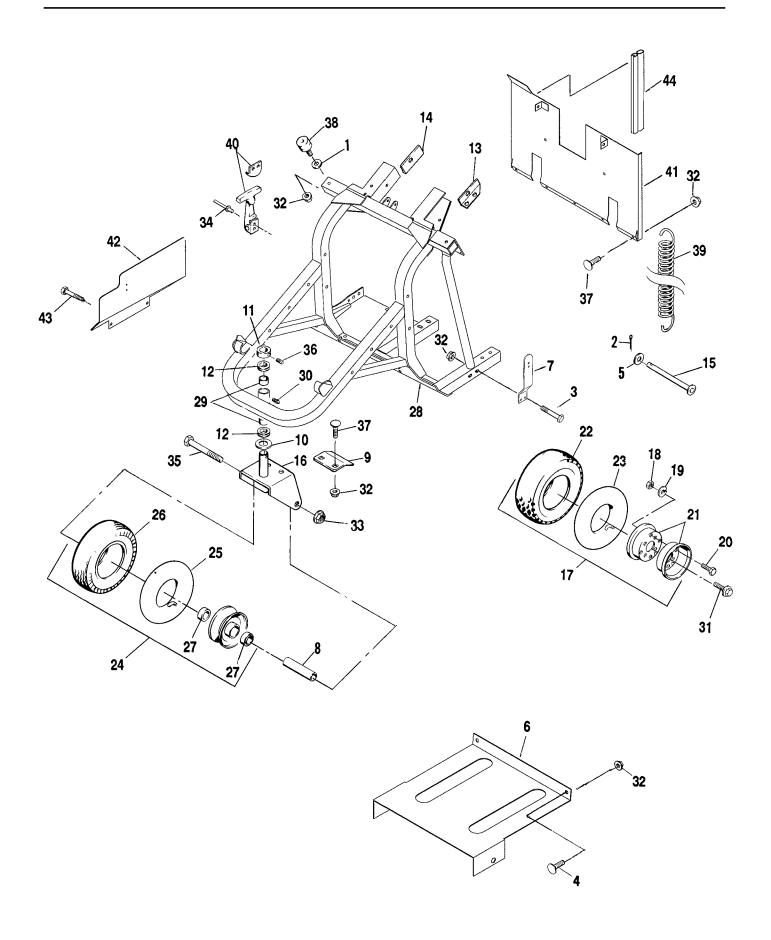
Ref.	Part	No.	d Notes
No.	No.	Description Req	
1 2 3 4 5 6 7 8 9 10 11 12	103867 306325 306423 306861 517100 524621 524759 548367 548911 800555 800960 844229	Washer, 5/16 4 Lockwasher, 5/16 1 Screw, 5/16-18 x 1 1/2 4 Screw, 5/16-24 x 5/8 1 Pulley, 4" dia. 1 Guide, belt 1 Decal, Notice oil backflow 1 Key, 1/4" x 1" 1 Nut, 5/16-18 4 Screw, set, 5/16-18 x 5/8 2 Screw, 5/16-24 x 1/2 1 Plate, spacer 2	

[•] INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY.



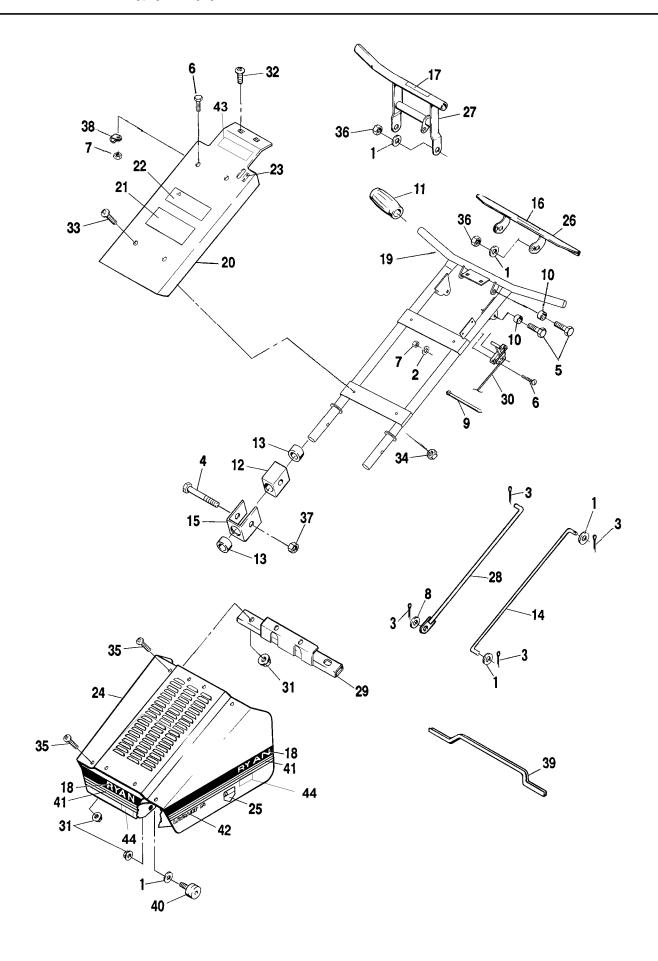
Ref.	Part	No.		
No.	No.	Description Red	a'd	Notes
1	131981	Screw, 1/2–13 x 2 1/2 4	.	
2	303269	Lockwasher, 7/16	.	
3	306836	Screw, 3/8–16 x 2 1/4 14	.	
4	306837	Screw, 3/8–16 x 3 1/4 4		
5	307662	Key, woodruff		
6	522723	Flange, bearing	.	
7	522724	Pin, vertical link		
8	522740	Spacer 4		
9	523126	Bumper, rubber 4		
10	523222	Washer, thrust 16		
11	523240	Washer, thrust		
12	523249	Washer, dust 16	;	
13	545786	Bearing w/collar 4		
14	545992	Crank Arm 2	:	
15	545993	Sprocket, crank		
16	547504	Housing, bearing (LEFT)		
17	522735	•Crankshaft		
18	523127	•Bearing, ball		
19	547505	Housing, bearing (RIGHT)		
20	522735	•Crankshaft		
21	523127	•Bearing, ball		
22	547509	Arm, tine		
23	547587	Mount, gearbox (RIGHT)		
24	547629	Mount, gearbox (LEFT) 1		
25	547655	Link, return	.	
26	832498	●Bearing, ball	:	
27	547709	Tine, aerating (side eject) 4	.	
28	548159	Washer, 5/16 8		
29	548804	Nut, flangelock 3/8–16	;	
30	548911	Nut, flangelock 5/16–18	:	
31	800198	Nut, conelock 1/2–20	,	
32	800379	Nut, flangelock 1/2–13 4		
33	319773	Screw, 7/16–14 x 2 1/2 Gr. 5 8		
34	800519	Key woodruff	.	
35	800530	Bolt, carriage 3/8–16 x 2 1/2 8		
36	800557	Bolt, carriage 5/16–18 x 3/4 12	:	
37	800698	Nut, flangelock 3/8–16	.	
38	800712	Screw, flangelock 3/8-16 x 2 4	.	
39	800713	Screw, flangelock 3/8–16 x 2 1/4 4	.	
40	869067	Link, vertical (two bolt design) 4	.	
41	889469	Gearbox, reversing		
42	522757	Holder, 3/4" tine		
43	522971	Deflector, core 4	.	
44	523326	Tine, 3/4" (19 mm)	.	
		<u> </u>		

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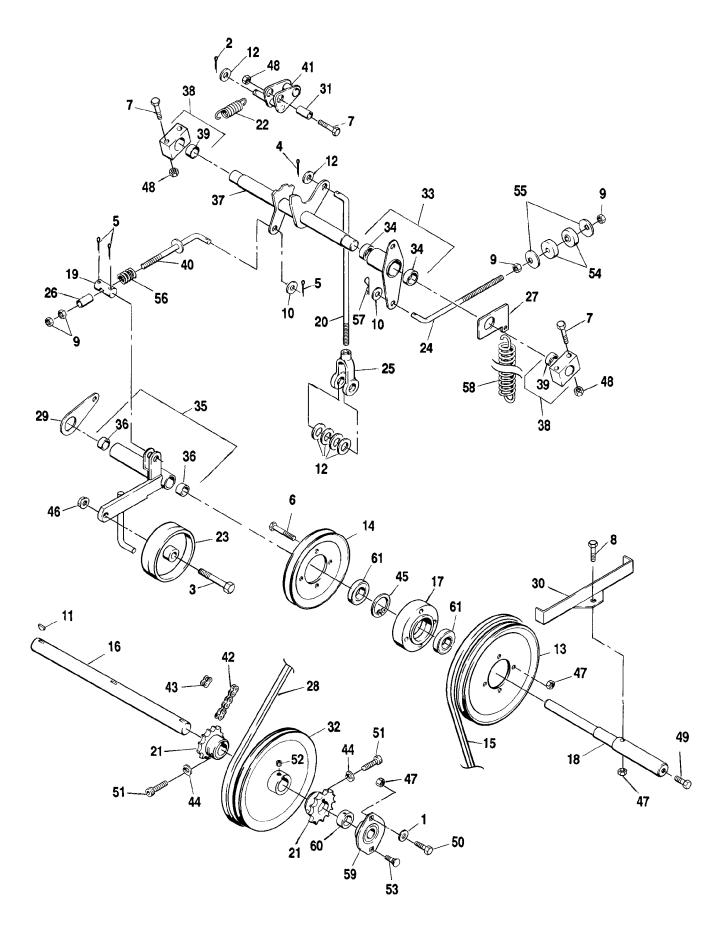
Ref.	Part	No.	
No.	No.	Description Reg'd	Notes
1	103867	Washer, 5/16	
2	306328	Pin, cotter 3/32 x 3/4	
3	306424	Screw, 5/16–18 x 2	
4	306450	Screw, 5/16–18 x 3/4	
5	308091	Washer, 1/2 1	
6	524431	Shield, dirt	
7	522967	Bracket, hood latch	
8	523053	Spacer 1	
0	523094	Scraper, front wheel	
10	523240		
	523240	Washer, thrust	
11		Collar 1	
12	523815	Seal, V-ring	
13	524001	Angle, handle mount LH	
14	524002	Angle, handle mount RH	
15	547499	Rod, spring	
16	547507	Yoke, front axle	
17	547623	Wheel, rear (complete)	
18	306320	●Nut 5/16–24 4	
19	306325	●Lockwasher, 5/16	
20	306861	•Screw, 5/16–24 x 5/8	
21	517332	•Wheel Half	
22	523264	◆Tire, 4.10 / 3.50–4 (2 ply)	
23	548546	●Tube, 4.10 / 3.50–4 1	
24	547625	Wheel, front (complete)	
25	523261	●Tube, 2.80 / 2.50–4 1	
26	523262	●Tire, 2.80 / 2.50–4 (4 ply)	
27	523263	●Bearing, ball	
28	540220	Frame, main 1	
29	523430	•Bushing, bronze	
30	807442	•Fitting, lubrication	
31	548604	Screw, flangelock 5/16–18 x 3/4 8	
32	548911	Nut, flangelock 5/16–18	
33	800379	Nut, flangelock 1/2–13	
34	800390	Rivet, pop	
35	800537	Screw, 1/2–13 x 4 1/4	
36	800554	Screw, set Sq. Hd. cap 1/4–20 x 5/8	
37	800557	Bolt, carriage 5/16–18 x 3/4	
38	829148	Isolation mount	
39	832525	Spring, extension	
40	888102	Latch, hood	
41	540217	Shield	
42	524432	Panel, side	
43	548013	Screw, tapping	
43	830918	Seal, push–on, 25'(7.6M) As Req.'d	
	000010	Oodi, publicoli, 20 (1.00)	

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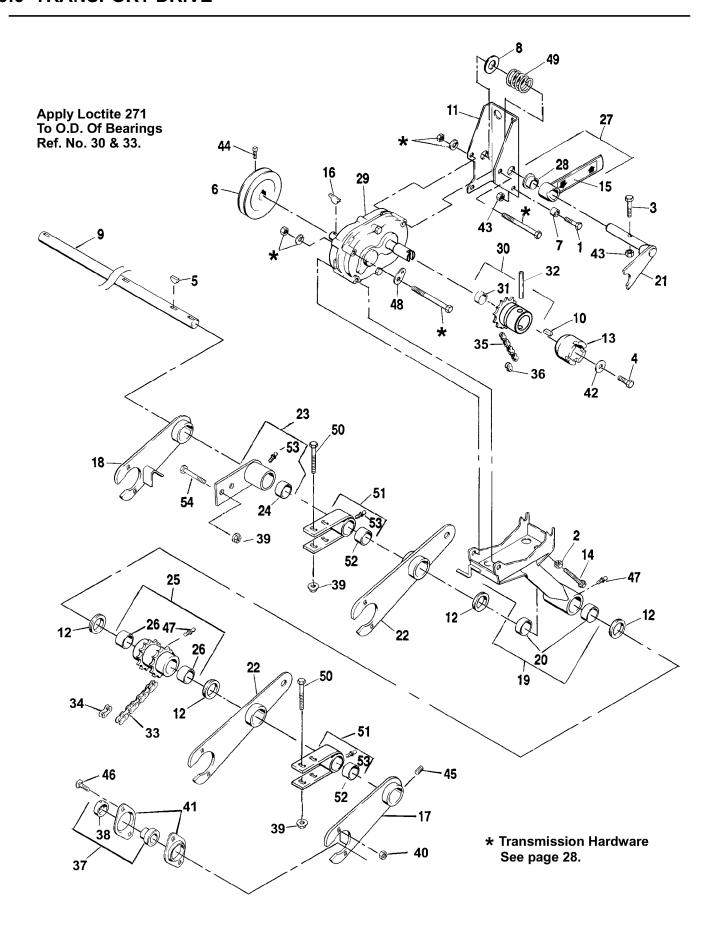
Ref.	Part	No.	
No.	No.	Description Reg'o	Notes
1	103867	Washer, 5/16	
2	120052	Lockwasher, #10	
3	306328	Pin, cotter 3/32 x 1	
4	301431	Screw, 3/8–16 x 2 1/2	
5	306450	Screw, 5/16–18 x 3/4 4	
6	306514	Screw, #10–24 x 1/2	
7	306531	Nut, #10–24	
8	308091	Washer, 1/2	
9	320107	Tie Strap	
10	515268	Bushing	
11	522727	Grip, handle	
12	522730	Cushion, rubber	
13	523158	Sleeve, handle mount	
14	524482	Rod, clutch	
15	523267	Isolator, handle	
	523207	I to the state of	
16 17		Decal, lift	
	523309	Decal, clutch	
18	524281 547502	Decal, RYAN (white)	
19	547503	Handlebar 1	
20	547520	Cover, handlebar	
21	523307	•Decal, operating1	
22	523308	•Decal, safety warning	
23	523310	Decal, throttle	
24	540222	Hood	
25	835892	•Decal, safety warning	
26	547567	Bar, lockout (latch lever)	
27	547583	Handle, clutch	
28	547620	Rod, lockout	
29	547621	Support, shield 1	
30	540395	Control, throttle 1	
31	548911	Nut, flangelock 5/16–18	
32	800019	Screw, PTH 1/4–20 x 1/2	
33	800024	Screw, PTH 1/4–20 x 1 1/2 4	
34	800059	Locknut, 1/4–20 6	
35	800177	Screw, PTH 5/16–18 x 3/4 8	
36	800290	Locknut, 5/16–18	
37	800292	Locknut, 3/8–16	
38	814924	Clamp 1	
39	821893	Trim, push-on (12) As Req'd	
40	829148	Mount, isolation	
41	838494	Decal, Red & White stripe 2.38" x 20 ft As Req'd	
42	838789	Decal, LAWNAIRE 28 (white) 2	
43	524798	Decal. caution	
44	844847	Decal, TEXTRON	

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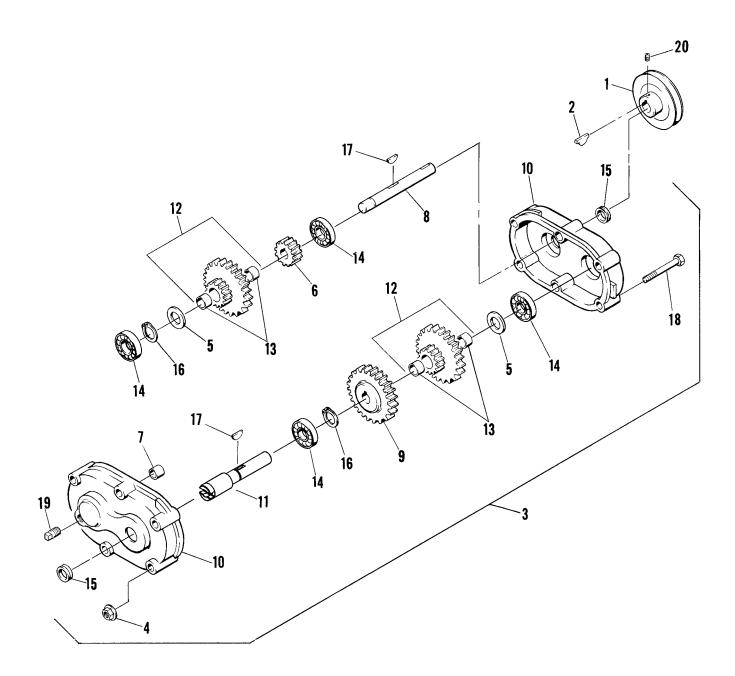
Ref.	Part	No.	
No.	No.	Description Req'd	Notes
1	103867	Washer, 5/16	
2	120219	Pin, cotter 3/32 x 1	
3	131794	Screw, 3/8–16 x 2	
4	304636	Pin, cotter 1/8 x 1 1/8	
5	306328	Pin, cotter 3/32 x 3/4	
6 7	306423	Screw, 5/16–18 x 1 3/4	
8	130167 306423	Screw, 5/16–18 x 2	
9	306562	Nut, 3/8–16	
10	306981	Washer 3/8	
11	307662	Key, woodruff #15	
12	308091	Washer, 1/2 6	
13	522717	Pullev. 8" (203mm)	
14	522720	Pulley, 6" (152mm)	
15	522729	V-Belt, (engine to rear jackshaft)	
16	522746	Jackshaft (front) 1	
17 18	522760 522771	Hub, pulley	
19	522771	Jackshaft (rear) 1 Pin, belt tightener 1	
20	522827	Rod, linkage	
21	522889	Sprocket, 15 tooth	
22	522943	Spring, extension	
23	522973	Pulley, idler 1	
24	523011	Rod, adjustment	
25	523154	Yoke 1	
26	523221	Spacer, idler linkage	
27	523226	Plate, spring mount	
28 29	523268 523280	V-Belt, (rear jackshaft to front jackshaft)	
30	523405	Bracket, spring latch	
31	523485	Bushing, latch	
32	545991	Pulley, front jackshaft	
33	547501	Bellcrank, linkage 1	
34	515376	•Bushing	
35	547516	Arm, idler 1	
36	523160	•Bushing	
37	547582	Shaft, pivot	
38	547608	Block, pivot	
39 40	523160 547619	•Bushing	
41	547739	Latch, lockout	
42	547877	Chain, #50 sealed (54 links w/connector) 2	
43	522123	•Link, connector	
44	548183	Lockwasher, 5/16	
45	548326	Lockring 1	
46	548804	Nut, flangelock 3/8–16	
47	548911	Nut, flangelock 5/16–18 8	
48	800290	Locknut, 5/16–18	
49 50	800385	Screw, 3/8–16 x 3/4	
50 51	800453 800513	Screw, 5/16–18 x 7/8 Gr. 8	
52	800556	Screw, set 3/8–16 x 3/8	
53	306450	Bolt, carriage 5/16–18 x 3/4	
54	810157	Bushing, rubber	
55	810758	Retainer, bushing	
56	814499	Spring, compression	
57	822529	Pin, hair	
58	830389	Spring	
59	832405	Bearing, ball	
60 61	832440 832499	Collar, locking	
01	002433	Dearing, Dail	

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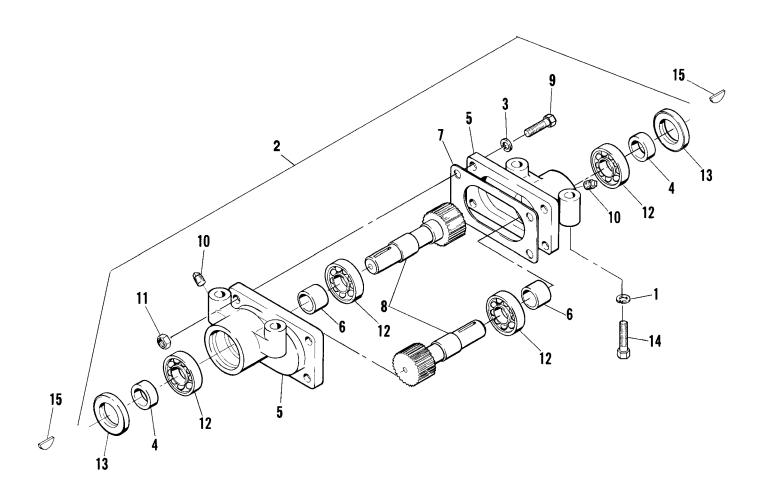
Ref.	Part	No.	Natas
No.	No.	Description Req'd	Notes
1	300646	Screw, 1/4–20 x 3/4 1	
2	306320	Nut, 5/16–24	
3	306810	Screw, 1/4–20 x 1 1/2 1	
4	306861	Screw, 5/16–24 x 5/8	
5	307662	Key, woodruff #15	
6	517137	Pulley, 4" (102mm)	
7	518438	Bushing 1	
8	522226	Washer, special	
9	522828	Shaft, pivot	
10	522881	Key, 3/16 x 3/16 x 1/2 1	
11	523153	Bracket, clutch	
12	523241	Seal, V-ring	
13	523250 523265	Hub, dog clutch	
14	523265	Screw, 5/16–24 x 2 1/2	
15	523311	Decal, dog clutch	
16	523941	Key, high-pro	
17	545995 545006	Arm, wheel (LEFT)	
18	545996 545007	Arm, wheel (RIGHT)	
19	545997 522484	Mount, transmission	
20	523484	•Bearing, bronze	
21	545998	Fork, dog clutch	
22	545999	Arm, differential	
23	540216	Clamp, pivot	
24	522722	•Bushing	
25	547545	Sprocket, double	
26	522722	•Bushing	
27	547635	Handle, dog clutch	
28	523260	•Bearing, 3/4" flange	
29	540402	Transmission, complete	
30	540287	Sprocket, dog clutch	
31	841332	•Bearing	
32	800902	•Pin, roll 5/16 x 1 1/2	
33	547878	Chain, sealed roller #40 (50 links w/connector) 1	
34 35	522122	•Link, connector	
	547879	Chain, sealed roller #40 (60 links w/connector) 1	
36	522122	•Link, connector	
37	548101 524857	Bearing Assembly	
38	521857	•Collar, locking	
39 40	548804 548044	Nut, flangelock 3/8–16 6	
40	548911 548062	Nut, 5/16–18	
	548962 603620	Housing, bearing	
42		Washer, dog clutch	
43	800059	Locknut, 1/4–20	
44 45	800555 800556	Screw, set 5/16–18 x 5/8	
45	800557		
46 47	807439	Bolt, carriage 5/16–18 x 3/4	
48	811677	Fitting, lubrication	
49	813011	Bracket, return spring	
50	306836	Spring, dog clutch 1 Screw, 3/8–16 x 2 1/4 4	
50	547544		
52	547544 522722	Clamp, pivot	
53	522722 548224	•Bushing	
53 54	306414	Screw, 3/8-16 x 1	
	300414	OCICVV, 0/0-10 X 1	

[•] INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY.



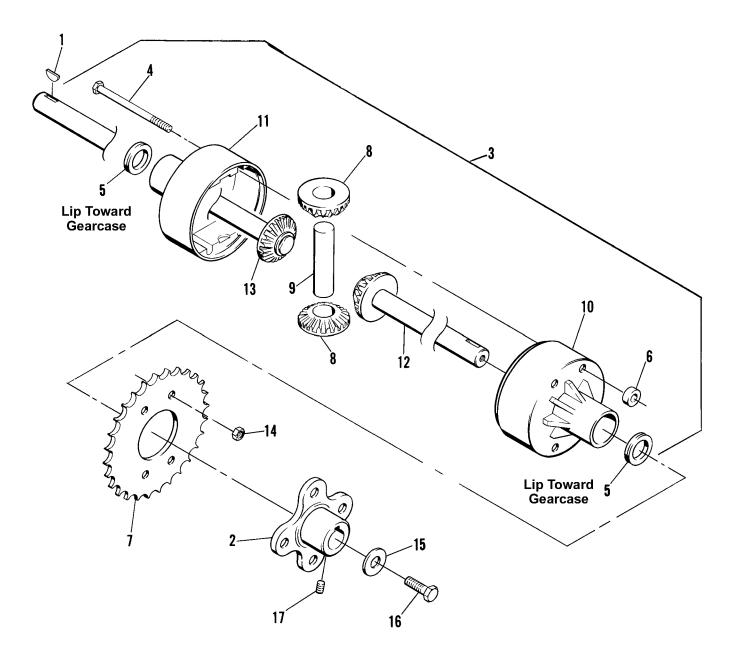
Ref. No.	Part No.		0.	Notes
NO.	NO.	Description R	eq'd	Notes
1	517137	Pulley, 4" (102mm)	1	
2	523941	Key, Hi-pro	1	
3	540402	Transmission (complete)	1	
4	548911	●Nut, 5/16–18 flangelock	6	
5	516700	•Spacer	2	
6	516724	●Gear, 20 tooth	1	
7	517226	●Bushing		
8	518826	●Shaft, input	1	
9	518827	●Gear, 56 tooth	1	
10	522638	•Gear Case Half	2	
11	524620	●Shaft, output	1	
12	546708	●Gear, double	2	
13	515511	Bushing	2	
14	548119	●Bearing, ball		
15	548274	●Seal, oil	2	
16	548324	•Lockring	2	
17	548369	•Key, woodruff 3/16 x 5/8	2	
18	548958	•Screw, 5/16–18 x 3 1/2	6	
19	800120	●Plug, pipe 3/8–18	2	
20	800555	Screw, set 5/16–18 x 5/8	2	

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Ref. No.	Part No.	Description	No. Req'd	Notes
1	303269	Lockwasher, 7/16		
2	889469	Gearbox, reversing (complete)		
3	120177		4	
4	522747	•Spacer	2	
5	522807	Gear Case Half	2	
6	522991	•Spacer	2	
7	522992	•Gasket	1	
8	523104	•Shaft, rocker		
9	548798	●Bolt, 3/8–24 x 1 1/4	4	
10	800227	●Plug, sq. hd		
11	800531	•Locknut, 3/8–24		
12	815093	Bearing, ball		
13	887272	•Seal, oil		
14	800444	Screw, 7/16–14 x 2 1/2 Gr. 8		
15	800519	Key, woodruff		

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Ref. No.	Part No.	No. Description Reg'd	Notes
No. 1 2 3 4 5 6 7 8 9 10 11 12	No. 306367 516944 547658 316909 523242 523258 523259 523512 523513 547748 547749 547750	Description Req'd Key, woodruff 2 Hub, axle 2 Differential (complete) 1 •Screw, 5/16–18 x 4 1/4 4 •Seal, V-ring 2 •Spacer, sprocket 4 •Sprocket 1 •Gear, transfer 2 •Cross Axle 1 •Housing (sprocket side) 1 •Housing (non-sprocket side) 1 •Axle w/gear (sprocket side) 1	Notes
13 14 15 16 17	547751 800290 603620 800385 800555	•Axle w/gear (non-sprocket side) 1 •Locknut, 5/16–18 4 Washer, special 1" O.D. 2 Screw, 3/8–16 x 3/4 2 Screw, set 5/16–18 x 5/16 4	

[•] INDENTED PART NAMES INDICATE THESE PARTS ARE INCLUDED IN PRECEDING ASSEMBLY.

TEXTRON TURF CARE AND SPECIALTY PRODUCTS WARRANTY

Textron Turf Care And Specialty Products warrants for one (1) year each new unit or serialized accessories except for the Envirojet high pressure injection system components which are warranted for one (1) year or 200 hours whichever occurs first, according to the following terms:

This warranty extends to the original retail purchaser only and commences on the date of original retail purchase. Accordingly this warranty is not transferable to any subsequent purchasers.

Any part of the unit or serialized accessory manufactured by Textron Turf Care And Specialty Products and found in the reasonable judgement of Textron Turf Care And Specialty Products to be defective in material or workmanship **will be repaired or replaced by** an authorized dealer without charge for parts and labor.

The unit or serialized accessory including any defective part must be returned to an authorized dealer within the warranty period. The expense of returning the unit or serialized accessory to an authorized dealer for warranty service and the expense of returning it back to the owner after repair or replacement will be paid for by the owner. Textron Turf Care And Specialty Products responsibility in respect to claims is limited to making the required repairs or replacements, and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any unit or serialized accessory.

Proof of purchase will be required by the authorized dealer to substantiate any warranty claim. All warranty work must be performed by an authorized dealer.

Textron Turf Care And Specialty Products makes no warranty with respect to engines, tires, batteries, regulators, starter—generators, electric motors, or other parts not of their manufacture as such parts are usually warranted separately by their respective manufacturers.

This warranty does not include service items subject to normal wear, such as filters, spark plugs, ignition points, brake and clutch linings, belts, light bulbs, fuses, bearings, electrical contacts, etc.

This warranty does not cover any unit or serialized accessory that has been subject to misuse, neglect, negligence, or accident, or that has been operated or maintained in any way contrary to the operating or maintenance instructions as specified in the Operator's Manual. The warranty does not apply to any unit or serialized accessory that has been altered or modified so as to adversely affect the units operation, performance or durability or that has been altered or modified so as to change its intended use. In addition, the warranty does not extend to repairs made necessary by normal wear, or by the use of parts or accessories which in the reasonable judgement of Textron Turf Care And Specialty Products are either incompatible with the unit or adversely affect its operation, performance or durability.

Textron Turf Care And Specialty Products reserves the right to change or improve the design of any unit or serialized accessory without assuming any obligation to modify any unit previously manufactured.

ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE ARE EXPRESSLY EXCLUDED. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. ANY ACTION FOR BREACH OF WARRANTY MUST BE COMMENCED NO LATER THAN ONE YEAR FROM THE DATE OF DELIVERY.

TEXTRON TURF CARE AND SPECIALTY PRODUCTS OBLIGATION UNDER THIS WARRANTY IS STRICTLY AND EXCLUSIVELY **LIMITED TO** THE **REPAIR OR REPLACEMENT** OF DEFECTIVE PARTS, AND TEXTRON TURF CARE AND SPECIALTY PRODUCTS OBLIGATION DOES NOT ASSUME OR AUTHORIZE ANYONE TO ASSUME FOR THEM ANY OTHER OBLIGATION.

TEXTRON TURF CARE AND SPECIALTY PRODUCTS ASSUMES NO RESPONSIBILITY FOR INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO, EXPENSE FOR GASOLINE, EXPENSE OF RETURNING THE UNIT TO AN AUTHORIZED DEALER AND EXPENSE OF RETURNING IT BACK TO THE OWNER. MECHANIC'S TRAVEL TIME, TELEPHONE OR TELEGRAM CHARGES, TRAILERING OR TOWING CHARGES, RENTAL OF A LIKE UNIT DURING THE TIME WARRANTY SERVICE IS BEING PERFORMED, TRAVEL, LODGING, LOSS OR DAMAGE TO PERSONAL PROPERTY, LOSS OF REVENUE, LOSS OF USE OF UNIT, LOSS OF TIME OR INCONVENIENCE.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Textron Turf Care and Specialty Products P.O. Box 82409 Lincoln, Nebraska 68501–9971

WARRANTY SERVICE

To make a claim under warranty, contact an authorized dealer immediately upon realizing a problem exists. We recommend having the warranty work performed by the dealer who originally sold you the unit; however, warranty work can be sought from any authorized dealer. Remember, your unit must be delivered to an authorized dealer within the warranty period, and all warranty work must be performed only by an authorized dealer. Proof of purchase will be required by the dealer to substantiate any warranty claim.

EXAMPLES OF ITEMS NOT COVERED UNDER WARRANTY

Provisions of the warranty will not apply to:

Normal service requirements arising during the warranty period, such as carburetor or ignition adjustment and cleaning or wear of a drive belt, brake, clutch linings or starter brushes.

Normal service work over and above the repair and replacement of defective parts.

Unit subject to misuse, neglect, negligence, or accident.

Units that have been altered or modified so as to adversely affect their operation, performance or durability or to change their intended use.

Repairs made necessary by the use of parts or accessories which are either incompatible with the unit or adversely affects the operation, performance or durability.

Units not operated or maintained in accordance with the instructions in the Operator's Manual.

Normal cleaning, adjusting or replacing of such items as filter, spark plugs, ignition points, light bulbs, fuses or starter drive.

Periodic checking or adding of lubricant to the unit or service check-up, tune-up or diagnosis.

Expense of delivering the unit to the dealer and expense of returning the unit back to the owner, mechanic's travel time, trailering or towing charges, or rental of a like unit during the time warranty repairs are being performed.

Engines, tires, batteries, regulators, starter–generators and electric motors manufactured by other than Textron Turf Care And Specialty Products are not covered under this warranty as such parts are usually warranted by their respective manufacturers.

This warranty applies only to the original retail purchaser. Second-owner or subsequently owned units are not covered under warranty.

OWNER'S OBLIGATION AND RESPONSIBILITY

Normal maintenance service and replacement of service items are the responsibility of the owner and as such are not considered defects in material or workmanship within the terms of the warranty. Individual operating habits and usage contribute to the need for maintenance service.

See your dealer for proper maintenance and care of your unit. Proper maintenance and care will assist in keeping your overall operating cost at a minimum.

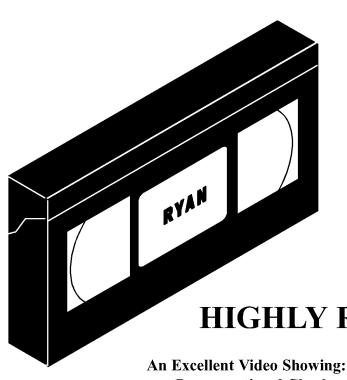
To validate a warranty claim, it is the owner's responsibility to maintain all components in proper adjustment and service the unit as specified in the Operator's Manual. It is the owner's responsibility to provide proper lubrication for all components and to provide correct recommended fuel for the unit. It is the owner's responsibility to maintain the battery liquid level and charge as specified, as well as maintaining the correct pressure in the tires of this unit.

INDEX

Page
S
Service
Belt Removal & Installation 9 Cleaning 8 Drive Belt Adjustment 10 Input Shaft 11 Lubrication 8 Output Shaft 12 Reversing Gear Box 13
Reversing Gear Box Removal
Tire Pressure 8 Transmission 11
Transmission Removal 10 Transporting 8 Set-Up 3 Specifications 2
Storage
T Torque Chart 16 Touch–Up Paint 2 W Warranty 36–37

PART NUMBER INDEX

Part No. Page No.	523053 23	524759 19	547750 35
306367 35	523094 23	524798 25	547751 35
307662 21, 27, 29	523104 33	540216 29	547877 27
515268 25	523126 21	540217 23	547878 29
515376 27	523127 21	540220 23	547879 29
515511 31	523153 29	540222 25	548101 29
516700 31	523154 27	540287 29	548119 31
516724	523158 25	540395 25	548224
516944 35	523160 27	540402 29, 31	548274
517100 19	523221 27	545786	548324
517137 29, 31	523226 27	545991 27	548326
517226 31	523241 29	545992 21	548367
517332 23	523242 35	545993 21	548369
518438 29	523250 29	545995 29	548546
518826	523258 35	545996 29	548962
518827 31	523259 35	545997 29	800120
521857 29	523260 29	545998 29	800227
522122 29	523261 23	545999 29	800519 21, 33
522123 27	523262 23	546708 31	800555
522638	523263 23	547499 23	800902
522717 27	523264 23	547501 27	807439 29
522720 27	523267 25	547503 25	807442 23
522722 29	523268 27	547504 21	810157 27
522723 21	523280 27	547505 21	810758 27
522724 21	523306 25	547507 23	811677 29
522727 25	523307 25	547509 21	813011 29
522729 27	523308 25	547516 27	814499 27
522730 25	523309 25	547520 25	814924 25
522735 21	523310 25	547544 29	815093
522740 21	523311 29	547545 29	821893 25
522746 27	523325 23	547567 25	829148 23, 25
522747	523326 21	547582 27	830389 27
522757 21	523405 7	547583 25	830918 23
522760 27	523430 23	547587 21	832405 27
522771 27	523484 29	547608 27	832440 27
522793 27	523485 27	547619 27	832498 21
522807 33	523512 35	547620 25	832499 27
522827 27	523513 35	547621 25	832525 23
522828 29	523815 23	547623 23	835892 25
522881 29	523941 29, 31	547625 23	838494 25
522889 27	524001 23	547629 21	838789 25
522943 27	524002 23	547635 29	841332 29
522967 23	524281 25	547655 21	844229 19
522971 21	524431 23	547658 35	844847 25
522973 27	524432 23	547709 21	869067 21
522991 33	524482 25	547739 27	887272 33
522992 33	524620 31	547748 35	888102 23
523011 27	524621 19	547749 35	889469 21, 33



LAWNAIRE 28 VIDEO

EASY TO FOLLOW OPERATION AND MAINTENANCE VIDEO TAPE

HIGHLY RECOMMENDED!

- **Pre-operational Checks**
- **Engine Start-up**
- Aeration
- **Loading and Unloading**
- **Daily and Periodic Maintenance**
- **Storage Procedures for the Lawnaire 28 Aerator**

VHS Format

14 Minute Running Time

Cost \$10.00

ORDER INFORMATION Ship to: Attn. Company Name:____ Street Address: City, State, Zip: Part No. Description Qty. Each Total E260020 LAWNAIRE 28 VIDEO 10.00 \$2.50 Shipping and Handling Per Tape 2.50 **Total Enclosed** Make checks payable to Textron Turf Care and Specialty Products **Return to: Textron Turf Care and Specialty Products** Attn: Nichole Deschler 1721 Packard Avenue Racine, WI 53403-2564

(Please allow 2 weeks for delivery)



🗥 WARNING 🗥



The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Advertissement



Advertencia

L'émission du moteur de ce matériel contient des prouits chimiques que l'Etat de Californie considère être cancérigènes, provoquer défauts congénitaux et d'autres dangers en matière de reproduction.

El estado de California hace saber que los gases de escape de este producto contienen productos químicos que producen cáncer, defectos de nacimiento y otros daños en el proceso de repeoducción humana.

