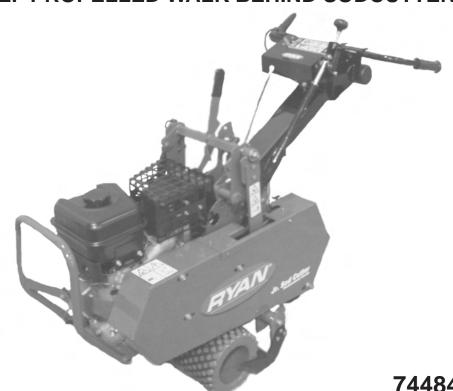


SELF PROPELLED WALK BEHIND SODCUTTER



744844G

JR SODCUTTER 6HP B&S 12"

744845G

JR SODCUTTER 6HP B&S 18"

744944C

JR SODCUTTER 5.5HP HONDA 12"

744945C

JR SODCUTTER 5.5HP HONDA 18"

5

SCHILLER

GROUNDS CARE

MAN 4164645
Rev. A 01-2010
Original Language Instructions

OPERATOR'S MANUAL 4164644

ARTS MANUA

CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

A WARNING

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

CALIFORNIA Proposition 65 Warning

Battery posts, terminals, wiring insulation, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

WASH HANDS AFTER HANDLING.

IMPORTANT MESSAGE

Thank you for purchasing this Schiller Grounds Care, Inc. product. You have purchased a world class product, one of the best designed and built anywhere.

This machine comes with aN Operation and Parts Manual. The useful life and good service you receive from this machine depends to a large extent on how well you read and understand this manual. Treat your machine properly, lubricate and adjust it as instructed, and it will give you many years of reliable service.

Your safe use of this Schiller Grounds Care, Inc. product is one of our prime design objectives. Many safety features are built in, but we also rely on your good sense and care to achieve accident-free operation. For best protection, study the manual thoroughly. Learn the proper operation of all controls. Observe all safety precautions. Follow all instructions and warnings completely. Do not remove or defeat any safety features. Make sure those who operate this machine are as well informed and careful in its use as you are.

See a Schiller Grounds Care, Inc. dealer for any service or parts needed. Schiller Grounds Care, Inc. service ensures that you continue to receive the best results possible from Schiller Grounds Care, Inc. products. You can trust Schiller Grounds Care, Inc. replacement parts because they are manufactured with the same high precision and quality as the original parts.

Schiller Grounds Care, Inc. designs and builds its equipment to serve many years in a safe and productive manner. For longest life, use this machine only as directed in the manual, keep it in good repair and follow safety warnings and instructions. You'll always be glad you did.

Schiller Grounds Care, Inc.
One Bob Cat Lane
Johnson Creek, WI 53038-0469

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01/2010 **1**

NOTICE !!!

Unauthorized modifications may present **extreme** safety hazards to operators and bystanders and could also result in product damage.

Schiller Grounds Care, Inc. strongly warns against, rejects and disclaims any modifications, add-on accessories or product alterations that are not designed, developed, tested and approved by Schiller Grounds Care, Inc. Engineering Department. Any Schiller Grounds Care, Inc. product that is altered, modified or changed in any manner not specifically authorized after original manufacture—including the addition of "after-market" accessories or component parts not specifically approved by Schiller Grounds Care, Inc. will result in the Schiller Grounds Care, Inc. Warranty being voided.

Any and all liability for personal injury and/or property damage caused by any unauthorized modifications, add-on accessories or products not approved by Schiller Grounds Care, Inc. will be considered the responsibility of the individual(s) or company designing and/or making such changes. Schiller Grounds Care, Inc. will vigorously pursue full indemnification and costs from any party responsible for such unauthorized post-manufacture modifications and/or accessories should personal injury and/or property damage result.





This symbol means:

ATTENTION! BECOME ALERT!

Your safety and the safety of others is involved.

Signal word definitions:

The signal words below are used to identify levels of hazard seriousness. These words appear in this manual and on the safety labels attached to Schiller Grounds Care, Inc. machines. For your safety and the safety of others, read and follow the information given with these signal words and/or the symbol shown above.

ADANGER

DANGER indicates a hazardous situation which, if not avoided, **WILL** result in death or serious injury.

AWARNING

WARNING indicates a hazardous situation which, if not avoided, **COULD** result in death or serious injury.

ACAUTION

CAUTION indicates a hazardous situation which, if not avoided, **COULD** result in minor or moderate injury. It may also be used to alert against unsafe practices or property damage.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **MAY** result in property damage.

MODEL NUMBER: This number appears on sales literature, technical manuals and price lists.

SERIAL NUMBER: This number appears only on your mower. It contains the model number followed consecutively by the serial number. Use this number when ordering parts or seeking warranty information.

MAINTENANCE SAFETY

In general

- Maintain machine according to manufacturer's schedule and instructions for maximum safety and best results.
- Park machine on level ground.
- Never allow untrained personnel to service machine
- Guards should only be removed by qualified maintenance technician for manintenance/service. Replace when work is complete.
- Adjust or repair only after the engine has been stopped and the blade has stopped moving.
- Disconnect spark plug wire(s) before doing any maintenance.
- Replace parts if worn, damaged or faulty.
 For best results, always replace with parts recommended by the manufacturer.
- Do not dismantle the machine without releasing or restraining forces which may cause parts to move suddenly.
- Provide adequate support, e.g. jack stands for lifted machine or parts if working beneath.
- Do not put hands or feet near or under rotating parts.
- Clean up spilled oil or fuel thoroughly.
- Replace faulty mufflers.
- To reduce fire hazards, keep the engine, muffler, and fuel storage area free of grass, leaves, debris buildup or grease.

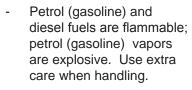
Blades

The sod cutter blade is sharp and can cut. Use extra caution when handling. Remove obstructions with care. Wrap the blade or wear gloves.



- Only replace blade. Never straighten or weld.
- Keep other persons away from blades.

Fuel





- Store only in containers specifically designed for fuel.
- When refueling or checking fuel level:
 - Stop the engine and allow to cool;
 - Do not smoke:
 - Refuel outdoors only;
 - Use a funnel:
 - Do not overfill:
 - If fuel is spilled, do not attempt to start the engine until the spill is cleaned up and vapors have cleared.
 - Replace caps on fuel containers and tanks securely.

Sparks from static electricity can start fires or cause explosions. Flowing fuel can generate static electricity. To prevent static electricity sparks:

- Keep fuel containers electrically grounded. Do not fill containers in a vehicle or on a truck or trailer bed with a plastic liner. Fill containers on the ground away from the vehicle.
- When practical, remove petrol (gas) powered equipment from the truck or trailer and refuel it on the ground. If equipment must be refueled on the truck or trailer, refuel from a portable container rather than a dispenser nozzle.
- Keep the dispenser nozzle in contact with the rim of the fuel tank or container opening until fueling is complete. Do not use a nozzle lock-open device.

SET-UP

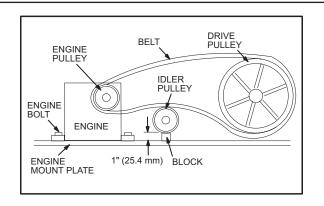
- To prevent injury, wear appropriate eye protection and stand clear when cutting banding. Banding is under tension and may snap back when cut.
- 1. Remove crate top, sides and plastic covering unit. Remove the banding attaching the Jr. Sodcutter to the pallet.
- 2. Roll the Jr. Sodcutter off the pallet. The unit can also be driven off the pallet, but first read the Safety, Controls, and Operation sections of this manual, then check the oil and add gas.
- 3. Dispose of pallet, crate, plastic and banding in a responsible manner.

DRIVE BELT ADJUSTMENT

Keep belt free of oil and dirt, and adjusted to proper tension at all times.

Belt tension is adjusted by loosening four (4) engine mounting bolts and shifting engine on the base.

Belt tension is correct when the distance between the roll pin and sleeve on the master clutch rod is 1" to 1 1/4" (25-30mm) when the master clutch is engaged.



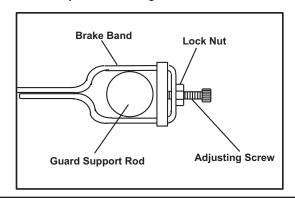
BRAKE BAND ADJUSTMENT

When adjusted properly:

- With the Master Clutch Control Lever engaged, the brake band is not braking the large drive pulley.
- When the Master Clutch Control Lever is disengaged, there will be some brakig occuring on the large drive pulley.
- When the Master Clutch Control Lever is disengaged, and pulled back firmly, the brake will fully stop the large drive pulley.
- 1. For less braking, loosen the locknut, unscrew the adjusting screw, then retighten the locknut.
- 2. For more braking, loosen the locknut, turn the adjusting screw in, then retighten the locknut.

Start the machine, and check for proper operation.

Readjust if necessary. IF the engine kills when engaging the Master clutch Control Lever, the brake may be set too tight.



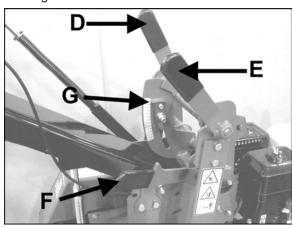
ADJUSTING DEPTH OF CUT

3/4" (20mm) is a good general starting depth of cut. Depth of cut can be varied from there depending on conditions and what you are trying to accomplish.

- Make an initial depth setting. Park the machine on a hard surface. Loosen depth control locking lever E and lower depth control lever D until the blade rests on the surface.
- 2. Loosen the depth gauge lock E and set top of depth gauge G to the 3/4" (20mm) mark on the label. Tighten the depth gauge lock knob to secure the depth gauge setting.
- Use your left hand to tip the machine forward while lowering the depth control lever D until the depth control crossbar hits the Depth Stop G. Tighten the locking lever E to lock in the depth setting, make a trial run in turf. Check the depth of cut.

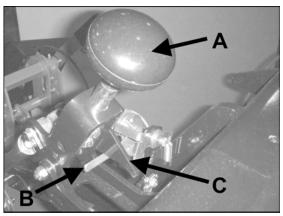
4. Re-adjust the depth gauge G and depth control lever D if necessary.

NOTE: Numbers on depth gauge do not necessarily represent thickness of sod being cut. The numbers are useful as a reference for making changes.



ADJUSTING OPERATOR PRESENCE CONTROL

- 1. To adjust operator presence cable, pull clutch control handle **A** rearward as far as possible.
- 2. Press operator presence handle (right handlebar) down as far as possible.
- Adjust cable until the pivot arm C contacts the arm extending from the operator presence switch B.
- 4. Tighten cable clamp to secure cable. Check for proper operation.

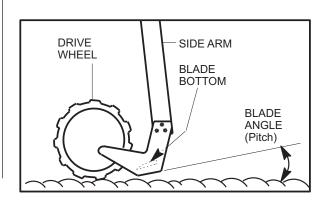


Cover removed for clarity

BLADE ANGLE (PITCH)

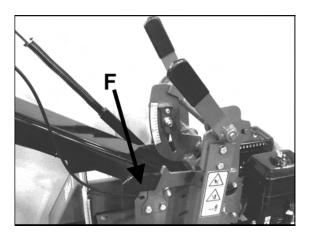
Under normal operating conditions, blade angle is minimal (blade bottom is flat). In extremely hard soil or when cutting with a dull blade, the blade may want to ride out of the ground. It may then help to adjust blade angle forward (see Adjusting Blade Angle below). A short trial run will indicate which is the best blade angle.

NOTE: Extreme blade angles put extra stress on the side arms. To reduce stress on the machine, operate with the flattest blade angle that gives satisfactory results.



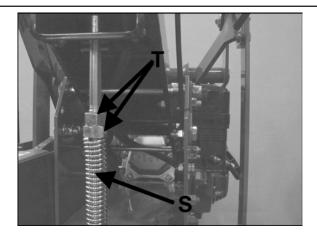
ADJUSTING BLADE ANGLE (PITCH)

- Loosen blade angle control locking lever F and move H-frame forward or backward until blade is at desired angle (pitch).
- 2. Tighten blade angle control locking lever F.



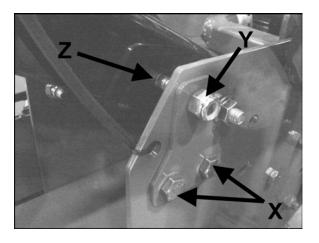
HANDLE SUPPORT SPRING

This spring $\bf S$ helps support the handle. If the four (4) isolator handle mounts are sagging or distorted, the two locking adjustment nuts $\bf T$ can be tighted downward to increase the spring force and raise the handle.



HANDLE STOP BOLTS

These two bolts \mathbf{Y} limit the amount of handle movement. This prevents damage to the handle isolators, and provides positive control of the machine when extra effort is required to lift or turn. The rear stop bolt position is adjustable.. Loosen the two bolts \mathbf{X} on the bolt centering plates on each side and tighten with the stop bolts centered in the two handle holes \mathbf{Z} .



AWARNING

When replacement parts are required, use genuine **Schiller Grounds Care, Inc.** parts or parts with equivalent characteristics, including type, strength and material. Failure to do so may result in product malfunction and possible injury to the operator and/or bystanders.

Carbon monoxide present in the exhaust is an odorless and deadly gas. Never start or run the engine inside where exhaust fumes can collect. Provide enough fresh air to keep fumes from getting too strong.

Replace any warning decal that becomes illegible immediately.



DAILY MAINTENANCE

Operator Presence System

For the engine to run, the Operator Presence Lever must be held when the Master Clutch Control is engaged.

To Check:

- 1. Start the engine and run at 1/2 throttle with the master clutch disengaged.
- 2. Engage the master clutch holding the Operator Presence Lever. Release the operator presence lever and the engine should stop.

Repair the machine before using if the Operator Presence System does not kill the engine.

Blades:

Check for damage. Replace any broken, cracked or otherwise damaged blades. Do not weld or straighten blades. Replace or sharpen dull blades. See sharpening instructions.

Hardware:

Tighten any nuts and bolts that are found loose. Replace any broken or missing cotter pins. Repair any other problems before operating.

Engine:

See engine manual for oil change intervals and oil specifications. See engine manual for air cleaner service intervals and service procedure.

Lubrication:

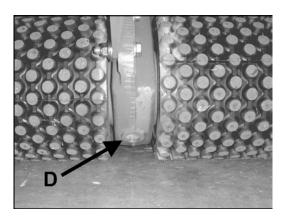
The gear case is initially filled with 3 1/2 pints (1.7 L) of EP 140 Gear Lube. Do not add to this amount unless oil is changed or lost through leakage. Gear case drain plug **D**.

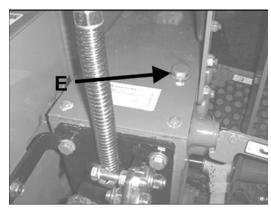
On all pressurized lubrication fittings use a good grade of Lithium Based lubricant.

The Jr. Sodcutter has 6 lubrication fittings. Lubricate pitman arms (1 each side) and side arms (1 each side) after every 4 hours of use.

Lubricate side arm pivots (1 each side - top of unit) after every 8 hours of use.

Check gear case lubricant level using dipstick **E** located on top of gear case. Check lube with dipstick sitting on threads, do not screw in.

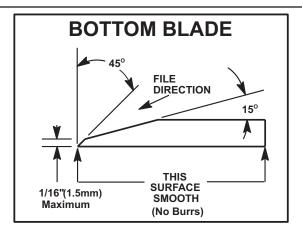


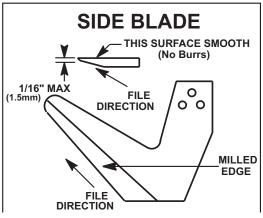


BLADE SHARPENING

Wear the appropriate personal protective equipment when sharpening blades.

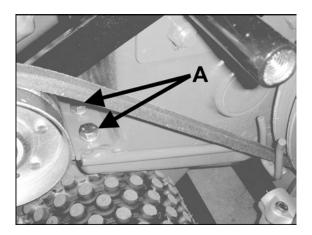
- 1. Hand file bottom blade at 45° angle until no flat remains.
- 2. To keep cutting edge less than 1/16" (1.5mm) on 45° angle, grind milled surface back at 15° to less than 1/16"(1.5mm).
- 3. Hand file side blades at 45° until no flat remains.
- To keep cutting edge less than 1/16"(1.5mm) on 45° angle, grind milled surface back at 15° to less than 1/16"(1.5mm).

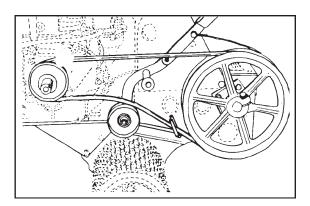




DRIVE BELT REPLACEMENT

- 1. Remove shield on left side of unit.
- 2. Remove nut securing brake band to clutch control rod.
- 3. Remove cotter pin on outside of guard support rod and move brake band over to nut on rod.
- 4. Loosen two bolts **A** securing belt guide to provide clearance when removing belt.
- 5. Remove belt from engine pulley. To do this, loosen upper and lower belt guards, or remove the engine pulley.
- 6. Install new belt in reverse procedure. Route the belt as shown.
- 7. Adjust belt and brake band. See Adjustment Section.





DRIVE CHAIN REMOVAL

- 1. Raise unit, place on adequate supports and remove belt guard.
- 2. Remove four (4) screws securing gear case cover.
- 3. Remove throttle cable from engine and lay behind cam case.
- 4. Remove dipstick from cover.
- 5. Remove screw, flat washer, nut and bushing from right lower side of "H" frame.
- 6. Using a screwdriver, lift gear case cover to break sealant bond and remove cover.

- Drain oil out of front cavity on case, and turn drive wheels until master link is on top of sprocket.
- Connect new chain to old with master link.
 Rotate drive wheels until new chain is pulled around. Remove old chain and connect new chain with a new master link.
- Complete installation by reversing procedure Clean mating surfaces on case and cover. Apply 3M Scotch Grip 847 or an equivalent adhesive to case cover before installation.

DRIVE WHEEL CHAIN SPROCKET SHAFT

- 1. Follow steps 1 thru 7 in drive chain removal section.
- 2. Remove master link and remove chain from top sprocket.
- 3. Remove both drive wheels and axle keys.
- 4. Remove seal in case and snap ring retaining bearing in case.

- 5. Install axle nut on end of shaft, opposite the side of snap ring previously removed.
- 6. Using a soft hammer (lead, brass, etc.), drive shaft out of case. Sprocket can now be removed by lifting up on chain.
- 7. Top sprocket and chain should be checked for wear and replaced if necessary.
- 8. Reassemble in reverse procedure using new seals and gaskets.

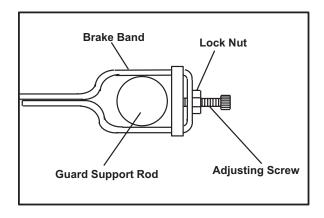
BRAKE BAND REPLACEMENT AND ADJUSTMENT

- 1. Remove belt guard.
- 2. Remove old brake band. Retain all hardware.
- 3. Install new brake band with the large loop and hardware at the lower mounting point (on guard support rod).
- 4. Loosen the lock nut and the adjustment screw on the new brake band. Engage the Clutch Control lever and tighten the adjustment screw until the brake band is pulled snug against the belt. (See Brake Band Adjustment, pg. 5) Tighten the lock nut on brake adjustment screw. Make a test run. Stop engine and re-adjust brake band if necessary.
- 5. Re-install belt guard using original hardware.

NOTE: Make sure that cotter pin does not interfere with drive belt.

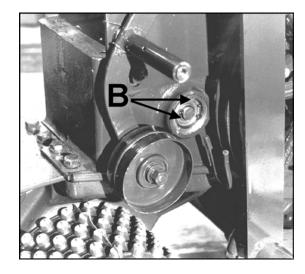
Routine brake band adjustment is necessary as the band and belt wear.

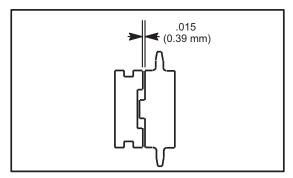
If brake band is not correctly attached to clutch control link, idler arm will rotate backward away from belt and no drive will occur.



UPPER DRIVE SPROCKET & SHAFT

- Follow steps 1 thru 6 in drive chain removal section.
- 2. Remove master link from chain. Chain does not need to be removed from lower sprocket.
- 3. Remove drive shifter assembly from gear case.
- 4. Remove blade and side arms from pivot brackets for easier access.
- 5. Remove plugs on both ends of shaft.
- 6. Remove snap rings **B** from left bearing.
- 7. Using a punch and soft hammer (lead, leather, etc.), drive shaft out left side of unit and remove large gear.
- 8. Using a bearing puller or slide hammer, remove bearing. Shaft is now removable through cam case cover opening.
- 9. Dog clutch half is removable from gear by removing snap ring.
- 10. Assemble in reverse procedure.
- 11. After installing blade shifter assembly, adjust dog clutch to provide .015" (0.39 mm) clearance between clutch faces, as shown.
- 12. Apply 3M Scotch Grip adhesive or an equivalent to gear case cover before installation.





BLADE DRIVE CHAIN REPLACEMENT

NOTE: To prevent small components from falling down into oil cavities and causing damage to unit, cover opening with clean rags, cardboard, etc.

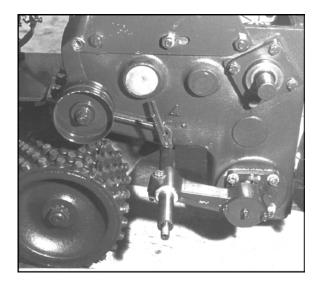
- 1. Follow steps 1 thru 6 in drive chain removal section.
- 2. Remove bottom screw on bearing cage to drain

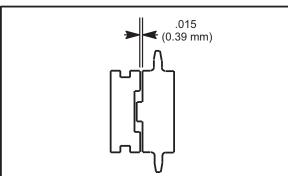
oil from rear cavity.

- 3. Rotate pulley shaft until master link is to front of top sprocket. Remove master link.
- 4. Rotate blade drive shaft until chain is free.
- 5. Install new chain in reverse procedure. Use 3M Scotch Grip 847 or an equivalent adhesive on case cover and bearing retainer screw.

PULLEY SHAFT

- 1. Follow steps 1 thru 4 in belt replacement section and steps 2 thru 6 in drive chain removal section.
- Remove blade from unit and remove left side arm
- 3. Remove blade shifter assembly.
- 4. Turn pulley until master link is on top of sprocket. Remove chain from top sprocket.
- 5. Remove belt pulley and key.
- 6. Remove four (4) bearing cage screws and pull gears out left side of unit. Dog clutch and double sprocket will slide off as shaft is removed.
- 7. To remove gear and bearing, remove snap ring, slide gear off shaft and remove key. Remove bearing snap ring and remove bearing.
- 8. Assemble in reverse procedure. After blade shifter assembly is installed, adjust dog clutch to provide .015" (0.39 mm) clearance between clutch faces, as shown.
- 9. Apply 3M Scotch Grip 847 adhesive or equivalent to gear case cover before installation.



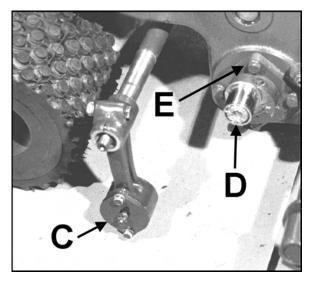


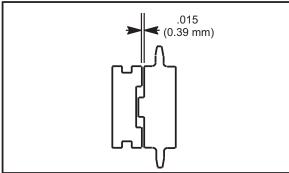
BLADE SPROCKET SHAFT

- 1. Follow steps 1 thru 6 in pulley shaft section.
- 2. Loosen clamp screw on left pitman arm **C** and remove from shaft.
- Loosen clamp screw in eccentric assembly **D** and remove.
- 4. Remove two (2) top screws securing the other side arm assembly. Side arm, shaft and pitman arm, are now removable by pulling side arm out.
- 5. Remove eccentric and both bearing cages **E**. Put a pan under rear portion of case to catch oil from case cavity.
- 6. Push shaft to left of case, lift right end of shaft out of case with bearings and sprocket intact.
- 7. To remove sprocket, press bearing from shaft, and slide sprocket off.
- 8. Assemble in reverse procedure. After blade shifter assembly is installed, adjust dog clutch to provide .015" (0.39 mm) clearance between clutch faces, as shown.

NOTE: End play on shaft must not exceed .005 (.127 mm) clearance and should rotate freely when bearing cages are tightened. Shim as required to obtain correct clearance.

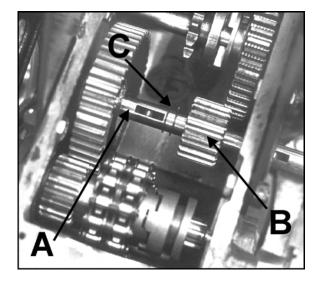
9. Apply 3M Scotch Grip 847 adhesive or equivalent to gear case cover before installation.





IDLER GEAR SHAFT

- 1. Remove belt guards.
- Follow steps 2 thru 6 in drive chain removal section.
- 3. Remove plug from right side of unit.
- Remove snap ring C from groove by small gear
 B to left end of shaft A.
- 5. Move small gear **B** to left side (from operators position) of case.
- 6. Move shaft **A** out right side of case until large gear clears shaft for removal.
- 7. Remove key from shaft and slide snap rings **C** off end of shaft.
- 8. Small gear **B** will slide off as shaft is removed from gear case.



 Assemble in reverse procedure. Apply 3M Scotch Grip 847 adhesive or equivalent to gear case cover before installation.

STORAGE INSTRUCTIONS

AWARNING

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

Daily Storage

- 1. Check engine oil level and air filter element daily.
- 2. Check oil level in gear case.
- 3. Close fuel valve at bottom of fuel tank.
- 4. Clean cutting blade (grass, dirt, etc.).

EXTENDED STORAGE

Before the equipment is put into storage for any period exceeding 30 days:

- 1. Drain all fuel from fuel tank and lines (use a hose or fuel line, routed from fuel tank shut-off to proper container).
- 2. Start engine and run until all fuel is used from the carburetor float bowl.
- While engine is warm, drain the crankcase oil and refill with the proper weight of oil corresponding to the season when the equipment will next be used.
- 4. Remove the spark plug and squirt a small quantity of engine oil into the cylinder. Turn the engine over a few times to distribute the oil.
- 5. Lubricate all lubrication fittings.
- 6. Clean and oil cutting blade to prevent rust.

To put equipment into operation after an extended storage:

- 1. Fill fuel tank with clean fresh fuel.
- 2. Check crankcase oil level, and start engine.
- 3. Check fuel system for fuel leaks.

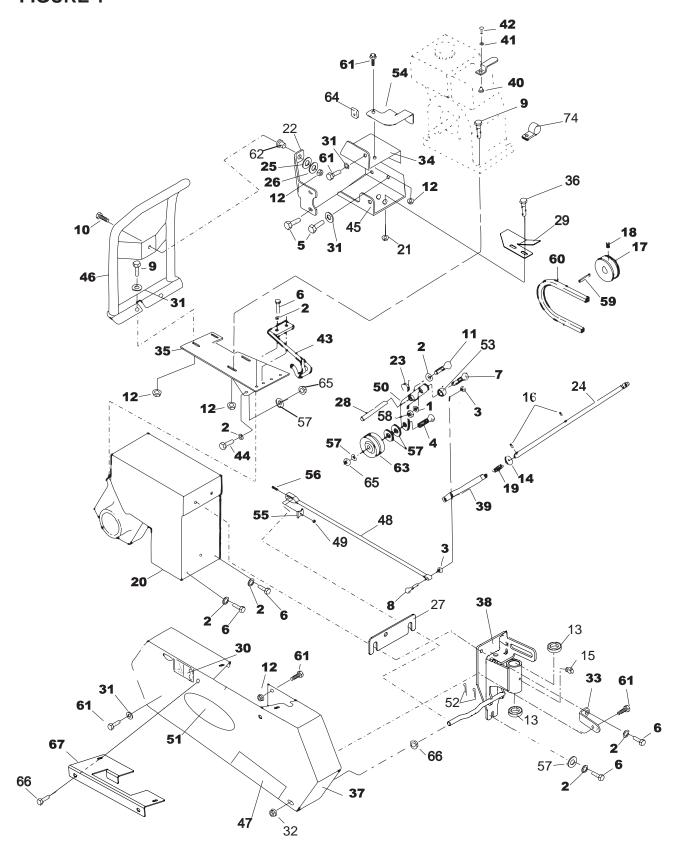
POSSIBLE PROBLEM	PROBABLE CAUSE	REMEDY
Blade will not stay in	A. Bottom of blade is rounded off.	A. Sharpen or replace blade. See page 15.
ground.	B. Blade angle is not properly set.	B. Adjust blade angle. See page13.
Root hair pinning on side or bottom of blade.	A. Some types of turf and soil make this a problem.	A. Keep the blade extra sharp and ground back at a low angle.
	A. Wrong type of belt construction.	A. Use only the special Ryan factory belt.
Belt jumps off.	B. Too much slack when belt tightener is disengaged.	B. Slide engine forward and readjust control rod.
Locking levers not	A. Thread wear on locking nut.	A. Replace locking nut.
tight when pulled to limit of travel. B. Locking nut not properly adjusted.		B. Tighten locking nut on opposite end of tie rod.
Belt grabs in pulleys	A. Belt is old and frayed, or is not the type sent out with the unit.	A.Replace with factory construction belt, designed for belt tightener clutches.
and unit creeps when clutch is not engaged.	B. Rust or paint in pulley grooves.	B. Clean and polish pulleys.
	C. Engine set too far forward.	C. Move engine back.
Idler does not engage belt when clutch lever is moved forward.	A. Brake band is not attached to clutch link or is broken.	A. Reattach upper end of brake band to clutch link or replace brake band.

Ī	Models: 744844GJr. Sodcutter - 12 in.(30.5cm) 744845GJr. Sodcutter - 18 in.(45.7cm)	Dime
l	Engine	Widt
l	Model4 cycle 6.5H.P.(4.8KW) B&S Vangaurd,	Leng
l	Model 12H332, Type 0115,	Heig
l	Trim B8, 12.5 cu. in. (205 cc)	Whe
l		VVIIC
l		\A/ - 1 -
l	Governor	Weig
l	Clutch spring loaded belt tightener type	744
l		744
l	Reduction	
l	Engine to blade	TOU
l	Engine to drive wheels 55.8:1	
l	Engine to anve whoole	
	Models: 744944CJr. Sodcutter - 12 in.(30.5cm)	
l	744945CJr. Sodcutter - 18 in.(45.7cm)	
l	Engine	
l	Model 4 cycle 5.5 H.P. Honda	
l	Model GX160-K1QX2, GX160 OHV	
l	·	
l	9.9 cu. in. (163 cc)	
l	Starter Recoil	
l	Governor	
l	Clutch spring loaded belt tightener type	
l	1 0 71	
l	Reduction	
l	Engine to blade	
l	· ·	
l	Engine to drive wheels 55.8:1	
l		
l	Wheels:	
l	Drive	
l	tread vulcanized to hub	
l	Rear8 x 1.75 (203 X 45mm) semi-pneumatic	
l	tires	
l	with pre-packed ball bearings	
l	1 1	
l	Drive:	
l	Engine to gear case" "A" section belt	
l	Gear case to drive shaft	
l	and blade driveroller chain	
l		
l	Gear case:	
l	Lubrication EP140 Gear lube	
l		
l	Capacity	
l		
	Cutting width:	
l	744844G & 744944C11 3/4" (298 mm)	
	744845G & 744945C18" (457 mm)	
	Cutting depth: up to 1.5" (38mm)	
	Blade pitch:	
	Hand lever adjustment variable 0° to 9°	
	riana lovor adjustinont	
	Plade speed:	
	Blade speed:	
	1225 oscillations/min @ 3600 engine RPM	

Dimensions: Width Length Height Wheelbase	24" (600 mm) 49" (1244 mm) 33" (838 mm) 19" (483 mm)
Weight: 744844G & 744944C744845G & 744945C	333 lbs. (151 Kg) 377 lbs. (171 Kg)
TOUCH -UP PAINT:	

16OZ. (0.5L) Spray can, order P/N 65334

PARTS SECTION



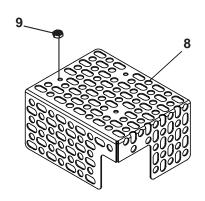
DRIVE ASSEMBLY AND SIDE COVER

JR SOD CUTTER

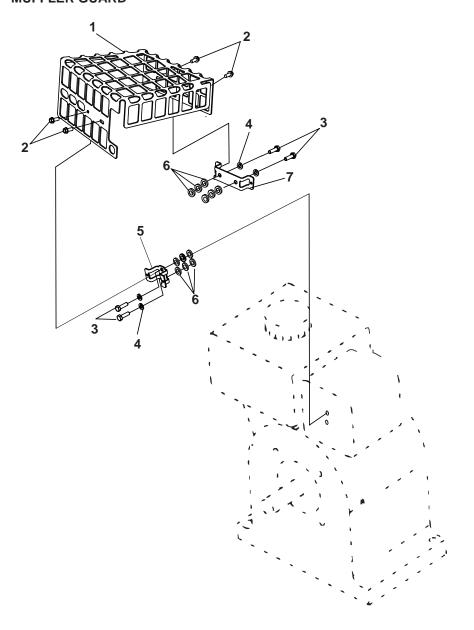
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	64163-95	WSHR344X.688X.065	1	49	64025-14	NUT-HEX #10-32	1
2	64006-03	LOCKWSHR-HELICAL 3/8	15	50	4164571.7	WLDMT-IDLER ARM	1
3	64001-13	NUT-HEX JAM 1/4-20	2	51	4163976	LABEL-RYAN	1
4	64123-67	BLT-HEX 3/8-16X2	1	52	64168-2	HAIRPIN	2
5	64139-01	BLT-WLF 5/16-24X3/4	4	53	819337	BUSHING	1
6	64123-50	BOLT-HEX 3/8-16X1	14	54	524610.7	BRACKET,BELT GUIDE	1
7	64123-68	BOLT-HEX 5/16-18X1	5	55	524574	NUT, BRAKE BAND	1
8	64123-269	BLT-HEX 1/4-20X1-1/8	1	56	64044-22	SCREW-SET #10-32X1	1
9	64139-23	BLT-WLF 5/16-18 X 1-3/4	4			66, 49 & 48 ARE AVAILABLE	
10	64139-10	BLT-WLF 5/16-18X1-1/4	1		,	AND KIT 540274)	
11	64123-15	BOLT-3/8-16X3/4 HEX	1			,	
12	64141-6	NUT, 5/16-18	4	57	64163-31	WSHR 25/64X1X12	6
13	4129801	BEARING-FLANGE	2	58	64141-9	NUT-WLF 5/16-18 EL	1
14	64163-67	WASHER516X1X12GA	2	59	64164-11	KEY-3/16X3/16X1-1/4 SQ END	•
15	85010N	ZERK-GREASE	1	60	524582	BELT, V A SECT. 66" LONG	1
16	64176-11	PIN-COILED SPRING 3/16		61	64139-06	BLT-WLH 5/16-18X5/8	6
17	517137	PULLEY,4" DIA "A" SIZE	1	62	2702464	BUSHING, ISOLATION	1
18	64044-18	SCREW-SET 5/16-18 x 5/1	-	63	548942	PULLEY, PLAIN IDLER 3.25	5" 1
19	518535	SPRING	1	64	800889	NUT,.31-18 SPD J W/NUT	2
20	520671.7	GEARCASE	1	65	64268-03	NUT-FL NYLON LOCK 3/8-	
21	64141-2	NUT-WLF 1/4-20	2	66	64152-56	SCREW-HS S-TAP #12X1/2	
22	524773.2	BRACE, GUARD	1	67	4163857.2	COVER-EXTENSION	. 4
			1	68*			1
23	520785	SPRING	1	69*	524775	FILTER, AIR CLEANER	ı ₹ 1
24	4164474	ROD-CONTROL	•		524776	FILTER, AIR PRE-CLEANER	
25	838496	WASHER, 25 1.00.125 FLA		70*	540385	KIT,SPARK ARRESTOR	1
26	64163-29	WASHER-21/64 X 1 X 11G/			,	1 USED ON BRIGGS &	
27	4164506.7	SPACER-CASTER ASM	1		STRATION	ENGINES ONLY)	
28	521087	SHAFT	1	74*	E04777	FILTED AID W/DDE CLAID	4
29	4164546.7	GUIDE-BELT, JR	1	71*	524777	FILTER, AIR W/PRE-CLNR	1
30	4163592	DECAL, WARNING HANDS		72*	540374	SPARK ARESTOR W/SCRV	
31	64163-55	WASHER .328X.75X14 GA		73*	4163971	SPARK PLUG-EU	1
32	64141-13	NUT WLF 1/2-13	2		,	3 USED ON HONDA ENGINE	:5
33	520773.7	BRACKET PELT CHARD TO	1		ONLY)		
34	4163910.7	BRACKET, BELT GUARD, TO		7.4	40000 4	CARLE CLIR INCLILATER	0
35	524473.2	PLATE, ENGINE MOUNT	1	74	48228A	CABLE CLIP-INSULATED	3
36		BLT-WLF 1/4-20X1/2	2				
37	4163914		1		4.81	OT !! ! !!OTD ATED	
38		S-WLDMT, REAR WHL SPI 15 INCLUDED)	₹I1		* N	OT ILLUSTRATED	
39	4164477.7	WLDMT-CLEVIS	1				
40	831888	SWIVEL	1				
41	831889	WASHER,SWIVEL	1				
42	831890	SCRW,SWIVEL THROTTLE					
(ITEN	1S 40-42 USE	D ON HONDA ENGINES ON	ILY)				
43	545380.2	GUIDE AY, BELT	1				
44	64123-87	BOLT-HEX 3/8-16X1-3/4	2				
45	4164580.7	BRKT-BELT GUARD,BTTM					
46	540244.2	GUARD AY, FRONT	1				
47	4133034	LABEL-JR SOD CUTTER	1				
48	524573	BAND, BRAKE	1	I			
-		•					

FIGURE 2

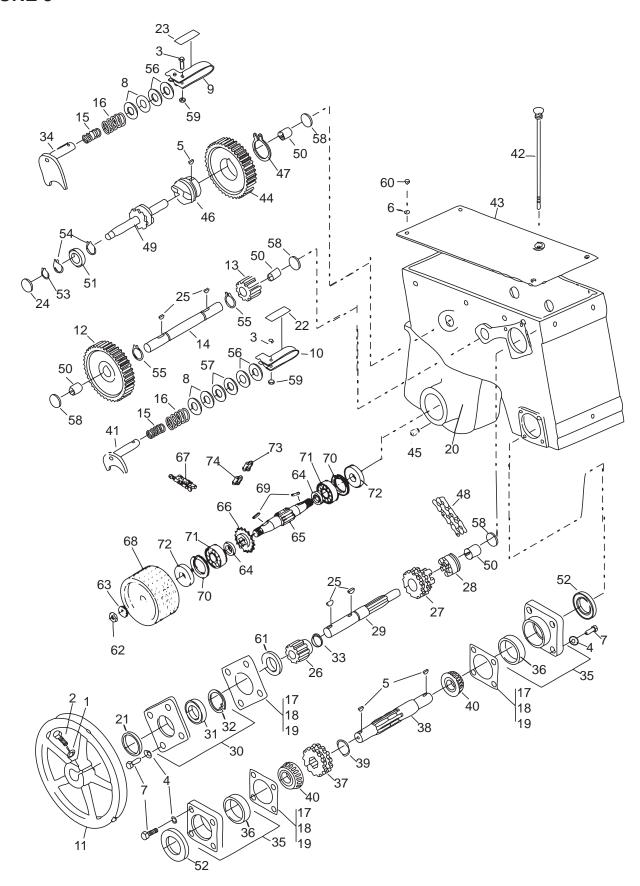
HONDA MUFFLER GUARD



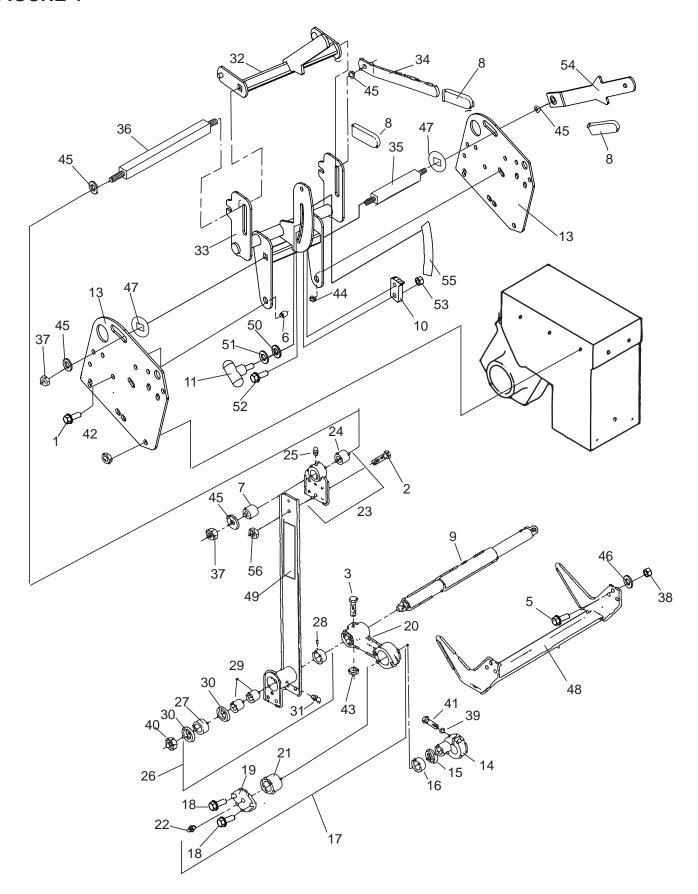
BRIGGS & STRATTION MUFFLER GUARD



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4160486.7 (USED O	GUARD-MUFFLER B&S N B&S MODELS ONLY)	1				
2 3 4 5	4160484.7	SCREW-HS STAP #12X1/2 BLT-METRIC M6-1.00X20 LOCKWSHR-1/4 HELICAL BRKT-MUFFLER GRD VEF N B&S MODELS ONLY)	4				
6 7	4160485.7	WSHR .321/.328X.608X11GA BRKT-MUFFLER GRD HOI N B&S MODELS ONLY)	12 RZ 1				
8	4163902.7 (USED ON	GUARD-MUFFLER HONDA HONDA MODELS ONLY)	A 1				
`	4163904	NUT-HEX M58 EDGE LOC KIT-MUFFLER, HONDA HE HONDA PARTS NEEDE					



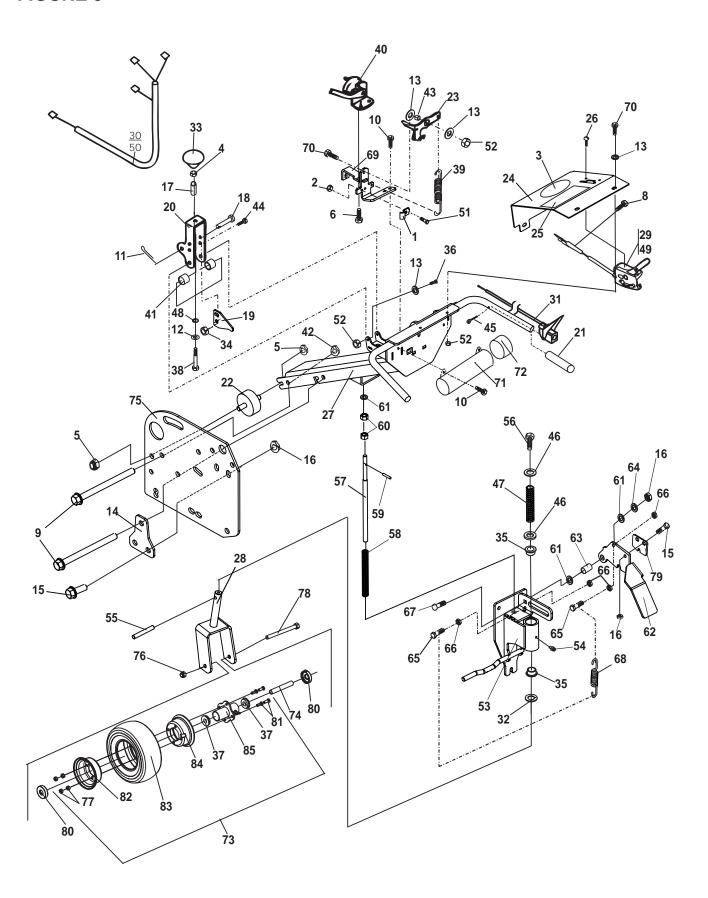
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	64006-03	WSHR, 3/8 HELICAL LOCK	< 1	43	546037.7	COVER AY, GEAR CASE	1
2	64123-67	BLT-HEX 3/8-16X2	1	44	519404	GEAR,DRIVE	1
3	64123-80	BLT-HEX 1/4-20X1-1/4	2		(INCLUDES	ITEMS 45-47)	
4	64006-02	LCKWSHER-HELICAL 5/16	12				
5	64164-19	KEY WOODRUFF.19X.75 #	9 3	45	548775	PLUG.25-18NPTF HS	1
6	64006-01	LOCKWASHER-1/4 HELICA	۹L 4	46	516222	HUB	1
7	64123-68	BOLT-HEX 5/16-18X1	12	47	548329	RING,EXT LOCK 1.61ID.06	T 1
8	515891	SHIM,.64 1.25.010 YS	4	48	546937	CHAIN, #50 DOUBLE	1
9	515896.7	HANDLE-WHEEL SHIFTER	1	49	547427	SPROCKET & SHAFT AY	1
10	515897.7	HANDLE-BLADE SHIFTER	1	50	548080	BRG.NDL.75 1.00.75	4
11	515901.7	PULLEY	1	51	548096	BRG,BALL.59 1.38.43 "SS"	1
12	516145	GEAR	1	52	548272	SEAL,OIL 1.00 SHAFT	2
13	516150	GEAR	1	53	548321	RING,EXT RET.56ID.037	1
14	516156	SHAFT	1	54	548323	RING, INTRNL RETAINING	
15	516194	SPRING	2	55	548324	RING,EXT RET.691ID	2
16	516196	SPRING	2	56	548477	WASHER	4
17	520238	SHIM .005 (.13MM)	A/R	57	548478	WSHR,.641 1.188.04 YS FL	
18	520239	SHIM .010 (.25MM)	A/R	58	548482	PLUG, EXPANSION 1.25 YS	
19	520240	SHIM .020 (.51MM)	A/R	59	548597	LOCKNUT, UNI-TORQUE	2
20	520671.7	GEARCASE	1	60	548726	SCRW,.25-20.75 YS RS	4
21	521941	SPACER,1.00 1.12.66	1	61	4139759	SPACER-GEAR	1
22	524485	DECAL, BLADE SHIFTER	1	62	307665	NUT .75-16 YS HX JAM	2
23	524486	DECAL, WHEEL SHIFTER	1	63	309799	LWSHR .75 ZS SHKPRF	2
24	548931	PLUG, EXPANSION 1.75 YS		64	520722	SPACER	2
25	64164-28	KEY-#808 WOODRUFF	4	65	520723	SHAFT	2
26	4139758	GEAR	1	66	545626	SPROCKET AY	1
27	516162	SPROCKET, CLUTCH	1	67	547398	CHAIN AY #50 RLR	1
28	516172	CLUTCH	1	68	547408.7	WHEEL AY 12IN	2
29	516173	SHAFT	1			44844G & 744944C ONLY)	_
30	544215	CAGE ASSY, BEARING	1		547424.7	WHEEL AY 18IN	
00		ITEMS 31, 32)	•			44845G & 744945C ONLY)	
	(IIIOLOBLO	11 2 11 6 2 1 , 6 2)		69	64164-10	KEY 1/4X1-1/4 SQ	2
31	548131	BRG,BALL 1.00 2.00.50 "D/	Δ" 1	70	548952	RING INTERNAL RETAINING	
32	548326	RING,INT RET 2.210D.06	1	71	548953	BRG-BALL 1.38 2.83.67	2
33	548327	RING-LOCK	1	72	548954	SEAL-OIL 1.38 SHAFT	2
34	544217.7	SHIFTER AY	1	73	548480	LINK-HALF	A/R
35	545050	CAGE AY,BEARING	1	74	4117675	LINK-#50 CONNECTOR	A/R
33	(INCLUDES	· · · · · · · · · · · · · · · · · · ·		'4	4117075	LINK-#30 CONNECTOR	/VIX
	(IINCLUDES	11 EW 30)					
36	814474	CUP,TPRD RLR BRG	1				
37	516160	SPROCKET	1				
38	521253	SHAFT-ECCENTRIC	1				
			1				
39 40	548336	LOCK RING (KC)	•				
40	814473	CONE, TPRD RLR BRG 1.0					
41	545710	SHAFT AY	1				
42	546033.7	DIPSTICK AY	1				



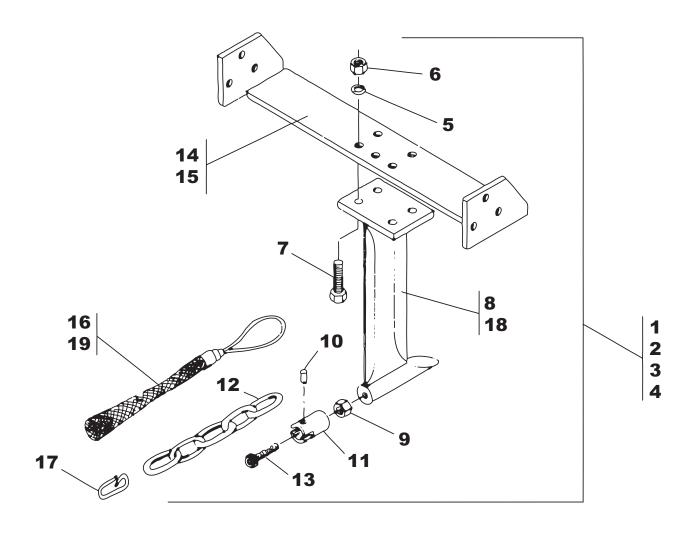
SIDE ARMS, PITMAN ARMS AND HANDLES

JR SOD CUTTER

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	64123-50	BOLT-HEX 3/8-16X1	2	27	521436	BALL BEARING	1
2	64123-107	BOLT-HEX 5/16-18X7/8	4	28	521438	GREASE SEAL	1
3	64123-61	BLT-HEX 5/16-18X1-3/4	2	29	548138	BRG,NDL.88 1.12 1.00	2
4	328018	SCRW,.44-14 1.12 YS HX	6	30	548340	LOCK RING (KC)	2
5	515011	SCRW, 31-24 1.00 ZS HX	6	31	35027N	FTG, GREASE 90Dg.	1
6	515729	BUSHING	2	32	4164541.2	WLDMT-LEVER	1
7	516067	BUSH,STL.515X.874X1.015	5 2	33	4164682	S-H-FRAME W/DECAL	1
8	4135868	COVER,HANDLE	3		(INCLUDES I	ITEM 55)	
9	521435.7	SHAFT, LOWER	1				
10	4164446	PLATE-ADJUSTMENT STO	P 1	34	545449.2	HANDLE AY	1
11	4114727	KNOB-SPEED CONTROL	1	35	524549	ROD,TIE LOWER	1
12	4164484	LABEL-CUT DEPTH, JR SC)D	36	524550	ROD,TIE UPPER	1
1				37	64151-7	LOCKNUT, 1/2-13 HEX	2
13	4164384.2	BRACKET, PIVOT	2	38	64025-03	NUT-HEX 5/16-24	6
14	4164681	S-ECCENTRIC ASSY	2	39	64006-16	LOCKWSHR-5/16 HI-COLLAR	2
	(INCLUDES	ITEMS 15 & 16)		40	64151-27	NUT-HEX 1/2-20 EDGE LOCK	2
				41	800513	SCRW-SCKT 5/16-18-1-1/4	2
15	521424	RING	1	42	548056	NUT, 44-14 YS HX UNITORO	Q 6
16	548814	RACE, INNER	1	43	64268-02	NUT-FL NYLN LCK 5/16-18	2
17	545437	ARM AY	2	44	64268-03	NUT-FL NYLN LCK 3/8-16	5
	(INCLUDES	ITEMS 18-22)		45	64163-99	WSHR510X1.31X.179	6
				46	64006-02	LOCKWSHR-HELICAL 5/16	6
18	64197-025	BLT-TDFM 1/4-20X5/8	2	47	4113281	WASHER, SPCL .531 SQ	2
19	521425.2	PLATE - COVER	1	48	4132717.7	BLADE-SOD CUTTER, 18"	1
20	521427	ARM, PITMAN	1	49	4163589	LABEL-CHF VERT	2
21	521428	BRG,NDL 1.25 1.62 1.06	1	50	2308066	WASHER-FIBER	1
22	85010-03	FITTING (KC)	1	51	64163-31	WSHR-15-64X1X12GA	1
23	545443.2	BRACKET AY	2	52	64018-7	BLT-CRG 3/8-16X1/1/4	1
	(INCLUDES	ITEMS 24, 25		53	64268-03	NUT-FL NYLON 3/8-16	1
				54	4164570.2	WLDMT-HANDLE	1
24	521429	BRONZE BEARING	1	55	4164484	LABEL-CUT DEPTH	1
25	85010N	ZERK-GREASE	1	56	64141-9	BLT-WLF 5/16-18 CL	4
26	4163915 (INCLUDES	ARM AY, SIDE ITEMS 27-31, 49)	2				



ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QΤΥ
1	111898	CLAMP,CABLE	1	46	64163-84	WSHR-1.015 X 1.75 X.125	2
2	64025-15	NUT-HEX #10-24 KEPS	1	47	4164551	SPRING-COMP,1.06X1.28X1	
3	4161125	LABEL-RYAN	1	48	64163-61	WSHR .81X.406X16GA	1
4	64025-04	NUT-WLF 3/8-16	1	49	4163186-01	CONTROL, THROTTLE 38.5	1
5	64141-4	LCKWSHER-HELICAL 5/16	8		(USED ON B	& S MODELS ONLY)	
6	64197-015	BLT-TDFM 10-32X1/2 TORX					
7	64262-006	BLT-FLG HD 5/16-18 X 3/4	4	50	4163183	HARNESS-JR SOD B&S	1
8	64197-023	BLT-TDFM 10-32 X 3/4	1		(USED ON B	& S MODELS ONLY)	
(USE	D FOR BRIGG	GS THROTTLE CABLE CLAN	IP)				
				51	64152-46	SCREW-SLT HH 10-24X1/2	1
9	64123-266	BLT-HEX 3/8-16X7	2	52	64229-01	NUT-NYLON 1/4-20	7
10	64197-025	BLT-TDFM 1/4-20X5/8	4	53	4164782	S-WLDMT,REAR WHLASSY	1
11	64140-1	COTTER PIN-1/8X1	1		(INCLUDES I	TEMS 35 & 54)	
12	64006-03	WSHR, 3/8 HELICAL LOCK	1				
13	64163-03	WSHR256IDX62ODX18GA	. 8	54	85010N	ZERK-1/4-28 SEKF THRD	1
14	4164473.2	PLATE-BOLT CENTERING	2	55	4164454	ROD-CASTER LIMITER	1
15	64123-50	BLT-HEX 3/8-16X1	6	56	64123-15	BLT-HEX 3/8-16X3/4	1
16	64268-03	NUT-FL NYLON LOCK 3/8-16	3 7	57	4164456	HANDLE-ROD SUPPORT	1
17	516544	BUSHING (PLATING)	1	58	4164606	SPRING-COMP, .75x11.75	1
18	64188-64	PIN-CLEVIS 3/8 X 1.75	1	59	64176-11	ROLL PIN-3/16 X 1	1
19	4164519.7	FLAT-SWITCH ACTIVATION	1	60	64025-19	NUT-HEX 1/2-13	2
20	522585.7	HANDLE,CONTROL	1	61	64163-67	WSHR516X1X12GA	3
21	522727	GRIP,HANDLE	2	62	4164779.7	BRKT-LOCKING, STRAIGHT	1
22	4164514	ISOLATOR-3/4X2 W/2 STUDS	4	63	518438	BUSHING-STL .39X.5X.359	1
23	524472	ARM, PIVOT (PLATING)	1	64	64163-31	WSHR-25/64X1X1/2	1
24	4164684	S-CONTROL PANEL EU	1	65	64123-07	BLT-HEX 1/4-20X1-1/2	2
25	4163587	LABEL-CONTROL PANEL	1	66	64025-01	NUT-HEX 1/4-20	4
26	64152-18	SCR 8-32 X 3/8 S-TAP	2	67	64018-7	BLT-CRG 3/8-16X1-1/4	1
27	4164418.7	WLDMT-HANDLE, JRSOD	1	68	4164627	SPRING-EXTENSION	1
28	4164579.7	WLDMT-YOKE	1	69	4164475.7	BRKT-MOUNTING	1
29	540326	CONTROL ASSY, THROTTLI	E 1	70	64123-89	BLT-HEX 1/4-20X3/4	5
	(USED ON H	IONDA MODELS ONLY)		71	4129802	TUBE-DOCUMENT	1
	`	,		72	38061A	CAP-VINYL	1
30	540229	WIRE AY	1	73	2722681	ASY-9"WHEEL	1
	(USED ON H	IONDA MODELS ONLY)			(INCLUDES I	TEMS 37,77, 81-85)	
31	540232	CONTROL AY, KILL SWITCH	1 1	74	2022230-04	SPANNER	1
32	64163-07	WSHR 1-1/32X1-3/4X1/4	1	75	4164384.2	BRACKET, PIVOT	2
33	548171	KNOB	1	76	64229-05	LOCKNUT-NYLON 1/2-13	1
34	64141-6	NUT, 5/16-18	2	77	64141-1	NUT-WLF 5/16-24	4
35	4129801	BSHNG-FLNGD SINTRD IR	N 2	78	64123-166	BLT-HEX 1/2-13 X 5-1/2	1
36	64189-20	BLT-HEX SOC 1/4-20X5/8	2	79	4164780.7	BRACKET-ADJUSTER	1
37	2722682	BEARING-9IN WHEEL	2	80	2722591	SPACER-3/4 BEARING	2
38	64123-270	BLT-HEX 3/8-24X2-1/4	1	81	64123-01	BLT-HEX 5/16-24X3/4	4
39	805421	SPRING, EXTENSION	1	82	2720645	S-WHL HALF, VALVE SD	1
40	806800	SWITCH,STOP LIGHT	1	83	38504	S-TIRE 9X3.5-4 SMOOTH	1
41	524577	BUSHING, .328X.63X.41	2	84	2720644	S-WHEEL HALF	1
42	64151-18	NUT-CENTER LOCK 3/8-16		85	2722680	HUB-9" WHEEL W/BRGS	1
43	814585	BUSHING	1				
44	64139-06	BOLT-WLH 5/16-18X5/8	2				
			1				
45	800896	SCRW-SET 1/4-20X3/8	1				



ITEN	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	`	MOLE BLADE KIT- 3/4" 44844G & 744944C) ITEMS 14 & 16-17)	1				
2		MOLE BLADE KIT- 3/4" 44845G & 744945C) ITEMS 13 & 15-17)	1				
3	,	MOLE BLADE KIT- 1-1/4" 44844G & 744944C) ITEMS 7, 9-14 & 17-19)	1				
4		MOLE BLADE KIT- 1-1/4" 44845G & 744945C) ITEMS 5-7, 9-13, 15, & 17-19	1				
5 6 7 8	64006-03 64025-04 64123-21 544689 (INCLUDES	WSHR, 3/8 HELICAL LOC NUT-3/8-24 HEX BLT-HEX 3/8-24X1-1/4 BLADE AY, MOLE 3/4" ITEMS 9-13)	K 4 4 4 1				
9 10 11 12 13 14	800513 546089	NUT-HEX 5/16-18 PIN,SPIROL.250.750 PS SWIVEL CHAIN AY SCREW-SCKT 5/16-18-1-1 BRACKET,12"-MOLE BLAD 44844G & 744944C)					
15	546092 (USED ON 7	BRACKET,18"-MOLE BLAD 44845G & 744945C)	DE 1				
16	548613 (USED ON 5	KELLEM GRIP 44670 & 544725)	1				
17 18	808222 544692 (INCLUDES	LINK,CHAIN CONN BLADE AY, MOLE 1-1/4" ITEMS 9-13)	1 1				
19	548616 (USED ON K	KELLEM GRIP (ITS 544673 & 544728)	1				

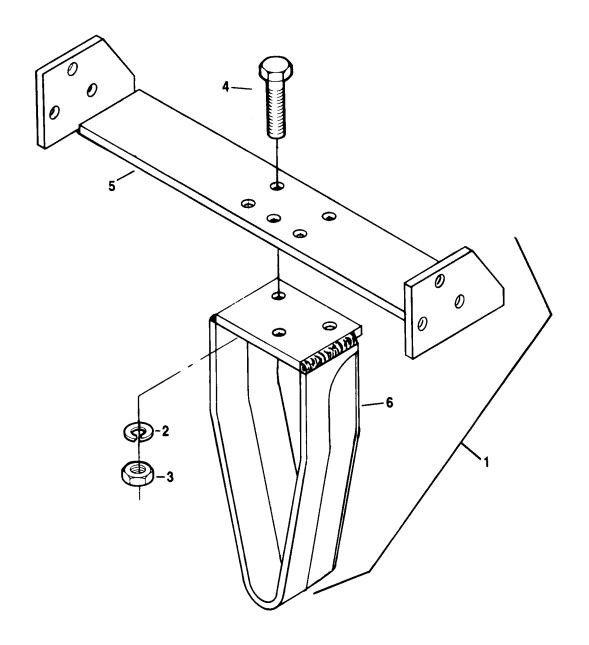


FIGURE 7

ITE	M PART NO	. DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	546199 (INCLUDES * MODEL 744	BLADE KIT SITEMS 2-6) 844G, ONLY	1				
2 3 4 5 6	64006-03 64025-04 64123-21 546089 546198	WSHR, 3/8 HELICAL LC NUT-3/8-24 HEX BLT-HEX 3/8-24X1-1/4 BRACKET,12"-MOLE BL BLADE AY,TRENCHING	3				

*NOTE: The trenching blade set includes parts for installation on earlier model sodcutters. Discard any parts not required for installation on model 744844C and newer.

