

744844F

JR SODCUTTER 6HP B&S 12"

744845F

JR SODCUTTER 6HP B&S 18"

744944B

JR SODCUTTER 5.5HP HONDA 12"

744945B

JR SODCUTTER 5.5HP HONDA 18"

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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04-2009

JR SODCUTTER

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.

A DANGER

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.

JR SODCUTTER

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.
- Adjust or repair only after the engine has been stopped and the blade has stopped moving.
- 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.

MAINTENANCE AND ADJUSTMENTS

- Disconnect spark plug wire(s) before doing any maintenance.
- Particular care must be taken when adjusting the carburetor while the engine is running. Keep hands and feet clear. Shut off blades.
- When working underneath lifted parts or machines, make sure adequate support is provided.
- Do not dismantle the machine without releasing or restraining forces which can cause parts to move suddenly.
- Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
- Replace worn or damaged parts for safety.

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.

A WARNING

Fuel

 Gasoline and diesel fuels are flammable; gasoline vapors are explosive. Use extra care when handling.



- 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.

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

- Keep 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 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.
- Replace caps on fuel cans and tanks securely.

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SET-UP

- To prevent injury, wear eye protection and stand clear whe 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.

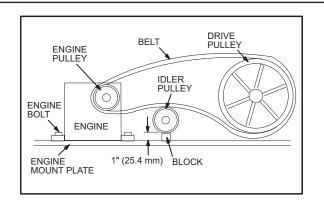
JR SODCUTTER '

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.



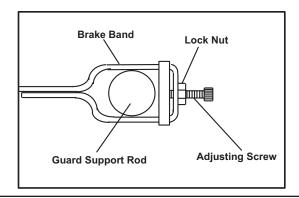
BRAKE BAND ADJUSTMENT

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.



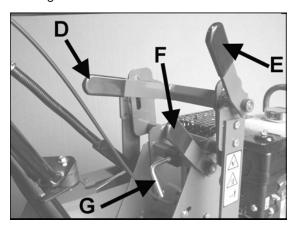
ADJUSTING DEPTH OF CUT

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 power depth control lever D until the blade rests on the surface.
- 2. Loosen the depth gauge lock F and set top of depth gauge G 3/4" (20mm) below the top of the depth crossbar. Tighten the depth gauge lock 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 hit 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.

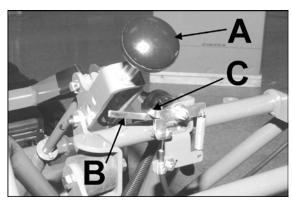
4. Re-adjust the depth gauge G and depth control lever D if necessary.

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.
- 3. 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.

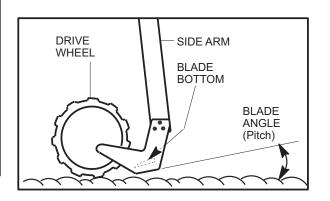


Cover removed for clarity

BLADE ANGLE (PITCH)

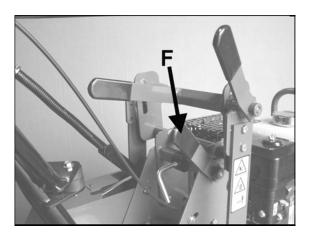
Under normal operating conditions, blade angle is minimal (blade bottom is flat). In extremely hard soil or when cutting with a dull blade, the blade may want to ride out of the ground. It may then help to adjust blade angle forward (see Adjusting Blade Angle below). A short trial run will indicate which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



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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.
- 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:

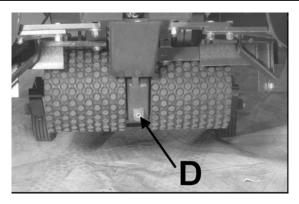
The gear case is initially filled with 3 1/2 pints (1.7 L) of EP 140 Gear Lube. Do not add to this amount unless oil is changed or lost through leakage. Gear case drain plug **D**.

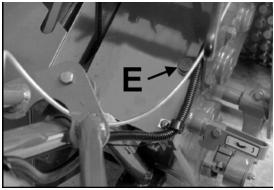
On all pressurized lubrication fittings use a good grade of Lithium Based lubricant.

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.

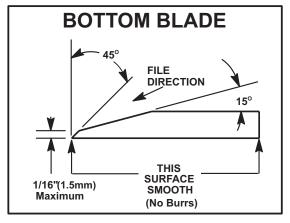
Check gear case lubricant level using dipstick **E** located on top of gear case. Check lube with dipstick sitting on threads, do not screw in.

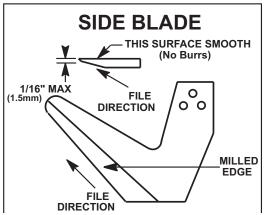




BLADE SHARPENING

- 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.
- 4. 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).

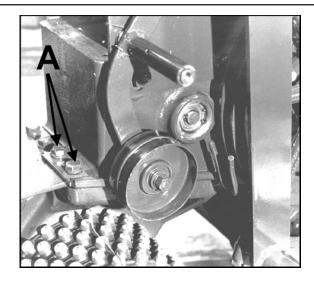


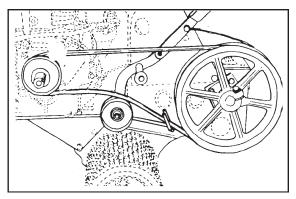


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DRIVE BELT REPLACEMENT

- 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. Install new belt in reverse procedure. Route the belt as shown.
- 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.

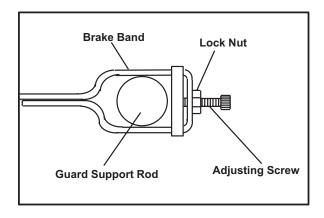
BRAKE BAND REPLACEMENT AND ADJUSTMENT

- 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.

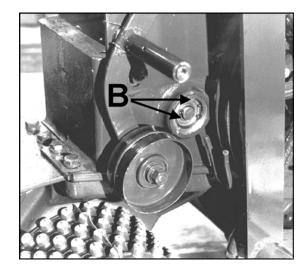
If brake band is not correctly attached to clutch control link, idler arm will rotate backward away from belt and no drive will occur.

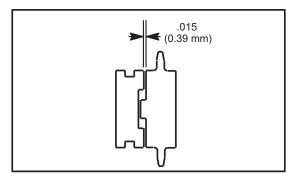


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UPPER DRIVE SPROCKET & SHAFT

- 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.

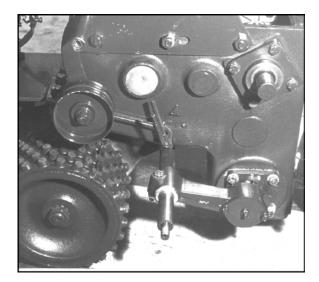
- 1. Follow steps 1 thru 6 in drive chain removal section.
- 2. Remove bottom screw on bearing cage to drain

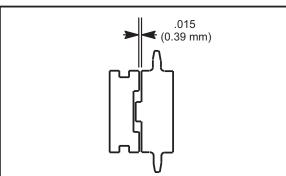
oil from rear cavity.

- 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.





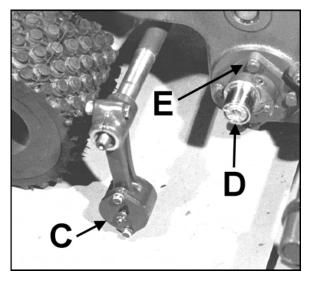
Jr. Sodcutter

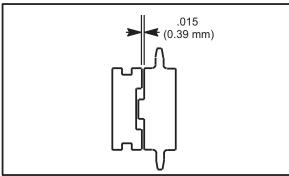
BLADE SPROCKET SHAFT

- 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.

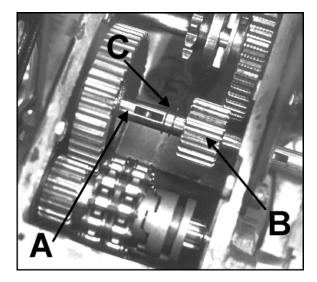
9. Apply 3M Scotch Grip 847 adhesive or equivalent to gear case cover before installation.





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.

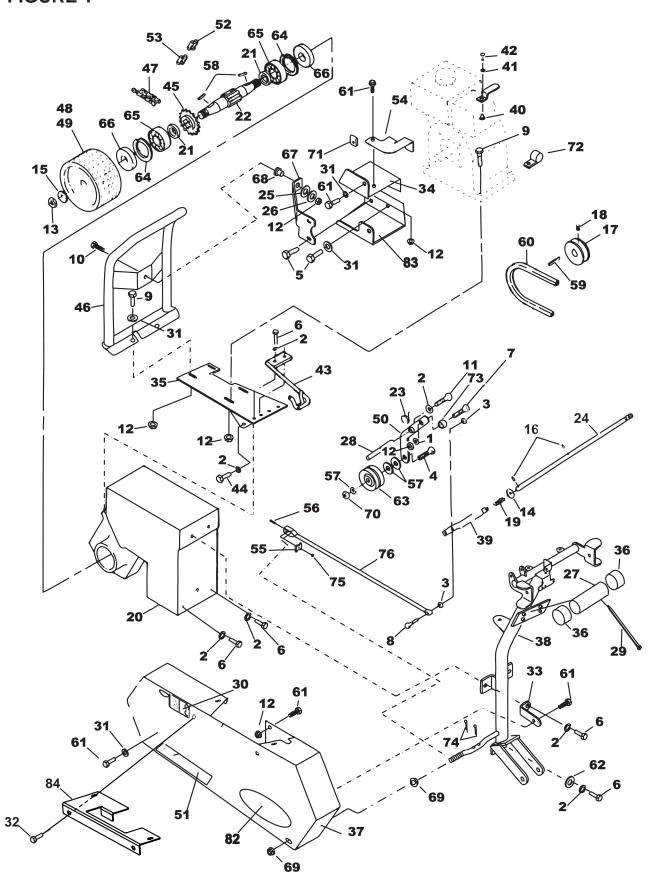
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POSSIBLE PROBLEM	PROBABLE CAUSE	REMEDY
Blade will not stay in	A. Bottom of blade is rounded off.	A. Sharpen or replace blade. See page 15.
ground.	B. Blade angle is not properly set.	B. Adjust blade angle. See page13.
Root hair pinning on side or bottom 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.

Jr. Sodcutter

Models: 744844FJr. Sodcutter - 12 in.(30.5cm)	
744845FJr. Sodcutter - 18 in.(45.7cm)	Dimensions:
Engine	Width
Model4 cycle 6.5H.P.(4.8KW) B&S Vangaurd,	Length
Model 12H332, Type 0115,	Height 33" (838 mm)
Trim B8, 12.5 cu. in. (205 cc)	Wheelbase 19" (483 mm)
StarterRecoil	
Governor	Weight:
Clutch spring loaded belt tightener type	744844F & 744944B
	744845F & 744945B
Reduction	(),
Engine to blade	TOUCH -UP PAINT:
Engine to drive wheels55.8:1	16OZ. (0.5L) Spray can, order P/N 65334
Models: 744944BJr. Sodcutter - 12 in.(30.5cm)	STANDARDS:
744945BJr. Sodcutter - 18 in.(45.7cm)	
Engine	NOISE:
	NOISE:
Model	
,	Noise in the Enviornment Directive 2000/14/EC
9.9 cu. in. (163 cc)	Guaranteed Sould Power Level 107dB(A)
StarterRecoil	Assessment ProcedureAnnex V
Governor	
Clutch spring loaded belt tightener type	Machinery Directive 98/37/EC
	Ear Operator (Sound Presure) 90.0dB(A)
Reduction	
Engine to blade	VIBRATION:
Engine to drive wheels 55.8:1	
	The machine was tested for hand/arm vibration. The
Wheels:	operator was in the normal operating position with
Drive	both hands on the handgrips. The engine was run-
tread vulcanized to hub	ning at maximum speed and the cutting mechanism
Rear8 x 1.75 (203 X 45mm) semi-pneumatic	was operating with the machine stationary.
tires	Measurement per ISO5349-1-2001.
with pre-packed ball bearings	
Drive:	744844F, 744944B
Engine to gear case" "A" section belt	Hand /Arm Acceleration: 40.3m/s ²
Gear case to drive shaft	Max of right left vector sum of X, Y, and Z values
and blade driveroller chain	I wax of right left vector sum of X, 1, and 2 values
and blade drive	744845F, 744945B
Gear case:	Hand /Arm Acceleration: 32.4m/s ²
Lubrication EP140 Gear lube	
	Max of right left vector sum of X, Y, and Z values
Capacity	
Ocation of a state of	
Cutting width:	Machinery Directive 98/37/EC
744844F & 744944B	By Direct compliance
744845F & 744945B	
Blade pitch:	
Hand lever adjustment variable 0° to 9°	
Blade speed:	
1225 oscillations/min @ 3600 engine RPM	
•	

PARTS SECTION



DRIVE ASSEMBLY AND SIDE COVER

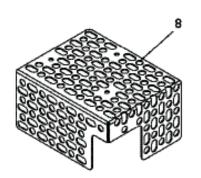
JR SOD CUTTER

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	103867	WSHR,.31.69.06 YS FLT	1		(USED ON 54	44845E & 544945A)	
2	64006-05	LOCKWSHR-HELICAL 1/2	15				
3	F1002	NUT, JAM 1/4-20 UNC ZP	2	50	547428.7	IDLER ARM AY	1
4	64123-67	BLT-HEX 3/8-16X2	1	51	4163976	LABEL-RYAN	1
5	64139-01	BLT-WLF 5/16-24X3/4	4	52	548480	HALF LINK	A/R
6	64123-50	BOLT-HEX 3/8-16X1	14	53	4117675	•	A/R
7	64123-68	BOLT-HEX 5/16-18X1	5	54	524610.7	BRACKET,BELT GUIDE	1
8	306418	SCRW,.25-20 1.125 YS HX	1	55	524574	NUT, BRAKE BAND	1
9	64139-23	BLT-WLF 5/16-18 X 1-3/4	4	56	888008	SCRW,#10-32 1.00 BS NE	1
10	548902	SCRW,.31-18 1.00 YS HSF	1		,	6, 75 & 76 ARE AVAILABLE	
11	64123-15	BOLT-3/8-16X3/4 HEX	1		IN BRAKE BA	AND KIT 540274)	
12	64141-6	NUT, 5/16-18	4				_
13	307665	NUT,.75-16 YS HX JAM	2	57	306981	WSHR,.41 .81 .06 YS FLAT	
14	64163-67	WASHER516X1X12GA	2	58	64164-10	1/4X1/4X1-1/4 MACH KEY	2
15	309799	LWSHR,.75 ZS SHKPRF EX		59	64164-11	KEY-3/16X3/16X1-1/4 SQ END	
16	316938	PIN,SPIROL.188 1.000 PS	2	60	524582	BELT,V A SECT. 66" LONG	1
17	517137	PULLEY,4" DIA "A" SIZE	1	61	64139-06	BLT-WLH 5/16-18X5/8	6
18	64044-18	SCREW-SET 5/16-18 x 5/16		62	548164	WSHR,.41.81.07 YS FLT	1
19	518535.7	SPRING	1	63	548942	PULLEY, PLAIN IDLER 3.25	
20	520671.7	GEARCASE	1	64	548952	RING, INTRNL RETAINING	2
21	520722	SPACER	2	65	548953	BRG,BALL 1.38 2.83.67	2
22	520723	SHAFT	1	66	548954	SEAL,OIL 1.38 SHAFT	2
23	520785	SPRING	1	67	524773.2	BRACE, GUARD	1
24	521062.7	ROD	1	68	2702464	BUSHING, ISOLATION	1
25	838496	WASHER,.25 1.00.125 FLAT		69	64141-13	NUT WLF 1/2-13	2
26	64163-29	WASHER-21/64 X 1 X 11GA		70	800698	NUT,38-16 HX FLG CRWN	5
27	38541	TUBE, DOCUMENT 2.75OD		71	800889	NUT, 31-18 SPD J W/NUT	2
28	521087	SHAFT TIE-CABLE 14 1\2	1 2	72	48228A	CABLE CLIP-INSULATED	3 1
29 30	65286-5A 4163592	DECAL, WARNING HANDS	1	73 74	819337 306956	BUSHING COTTER PIN	2
31	64163-55	WASHER .328X.75X14 GA	5	75	64025-14	NUT-HEX #10-32	1
32	64152-56	SCREW-HS S-TAP #12X1/2	_	76	524573.7	BAND, BRAKE	1
33	520773.7	BRACKET	1	77*	524575.7	FILTER, AIR CLEANER	1
34	4163910.7	BRACKET, BELT GUARD, TO	•	77 78*	524775	FILTER, AIR CLEANER FILTER, AIR PRE-CLEANER	-
35	524473.2	PLATE, ENGINE MOUNT	1	79*	540385	KIT,SPARK ARRESTOR	1
36	38061A	CAP, VINYL	2	13		9 USED ON BRIGGS &	'
37	4163914	S-GUARD ASSY	1			ENGINES ONLY)	
38		HANDLEBAR AY, MOUNT	1		0110/11/011	ENGINES ONET)	
	545247.7	CLEVIS AY	1	80*	524777	FILTER,AIR W/PRE-CLNR	1
	831888	SWIVEL	1	81*	540374		
		WASHER,SWIVEL	1			1 USED ON HONDA ENGIN	
42	831890	SCRW,SWIVEL THROTTLE	-		ONLY)		
		D ON HONDA ENGINES ON			0.12.7		
(_ ,	82	4133034	LABEL-JR SOD CUTTER	1
43	545380.2	GUIDE AY, BELT	1	83	4163911.7	BRKT-BELT GUARD,BTTM	
44	64123-87	BOLT-HEX 3/8-16X1-3/4	2	84	4163857	COVER-EXTENSION	1
45	545626	SPROCKET AY	1				•
46	540244.2	GUARD AY, FRONT	1				
47	547398	CHAIN AY,#50 RLR	1		* N(OT ILLUSTRATED	
48		WHEEL AY 12"	2				
-		44844E & 544944A)					
49		WHEELAY 18"	2				

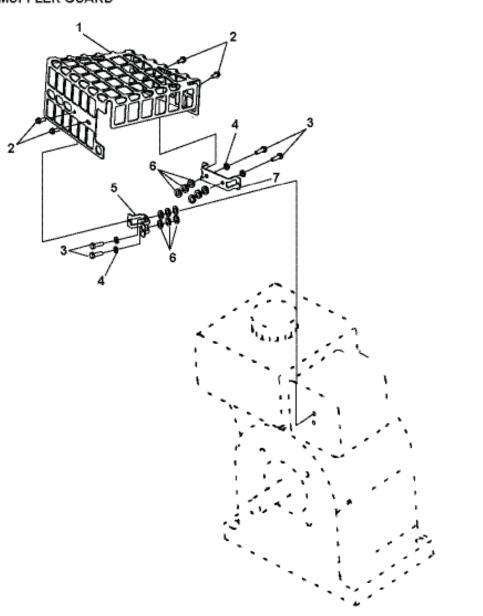
JR SOD CUTTER

FIGURE 2

HONDA MUFFLER GUARD

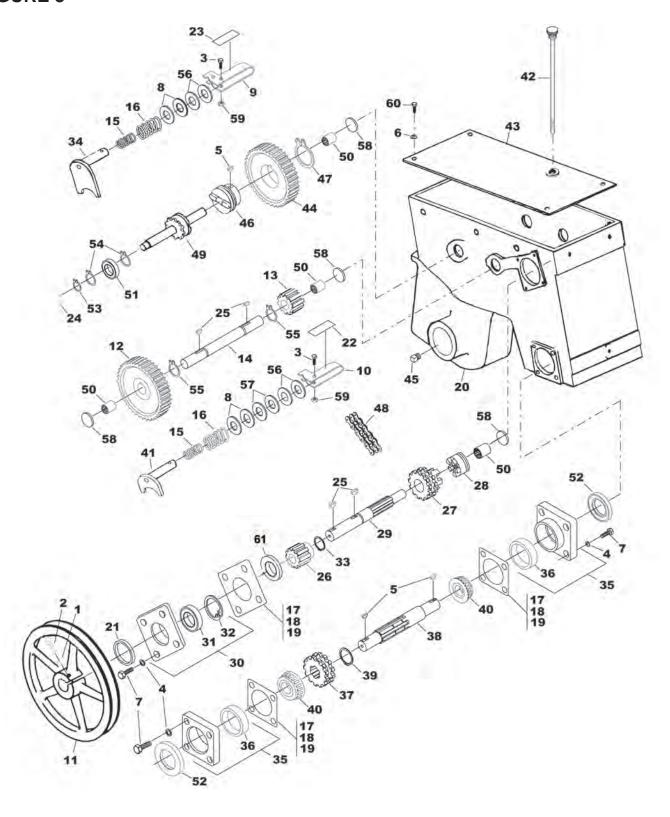


BRIGGS & STRATTION MUFFLER GUARD



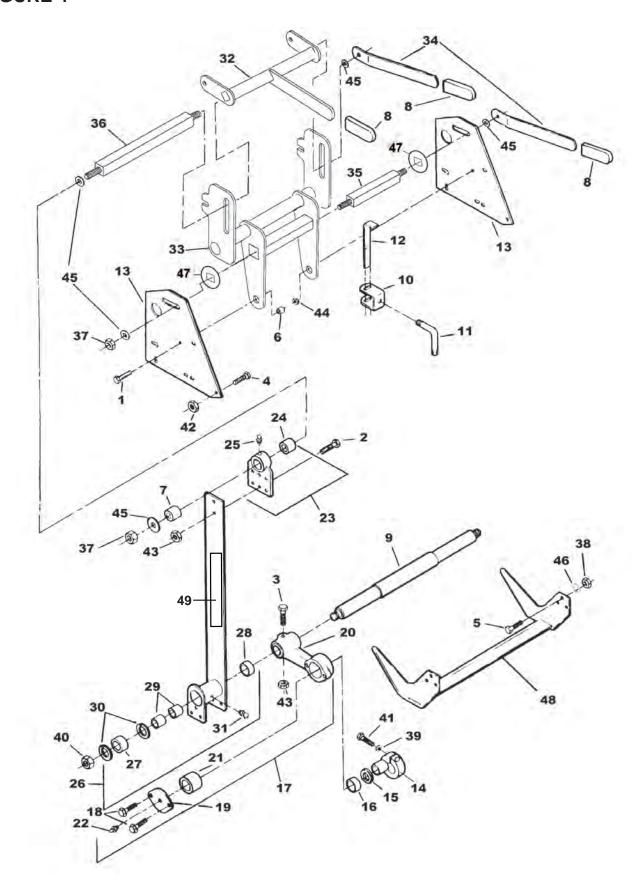
IR SOD CUTTER

01	. 555	CUTTER				FI	GURE 2
ITEN	/ PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	4160486.7 (USED C	GUARD-MUFFLER B&S ON B&S MODELS ONLY)	1				
2 3 4 5	64006-01 4160484.7	SCREW-HS STAP #12X1/2 BLT-METRIC M6-1.00X20 LOCKWSHR-1/4 HELICAL BRKT-MUFFLER GRD VEI DN B&S MODELS ONLY)	4 4				
6 7	64163-02 4160485.7 (USED C	WSHR .321/.328X.608X11GA BRKT-MUFFLER GRD HO ON B&S MODELS ONLY)	12 RZ 1				
8		GUARD-MUFFLER HOND, I HONDA MODELS ONLY)	A 1				



JR SOD CUTTER

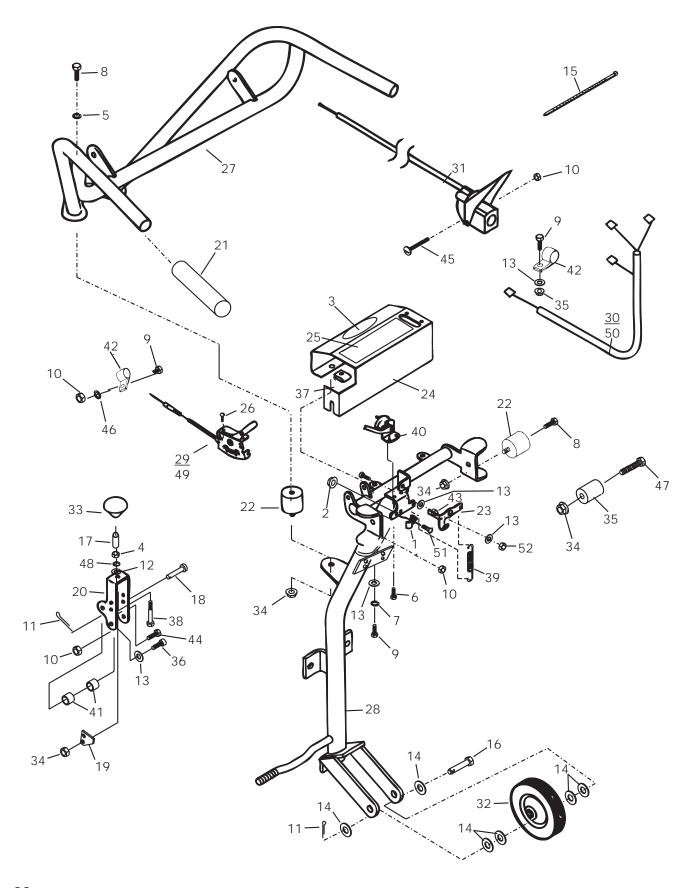
ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	64006-03	WSHR, 3/8 HELICAL LOCK	(1	43	546037.7	COVER AY, GEAR CASE	1
2	64123-67	BLT-HEX 3/8-16X2	1	44	519404	GEAR, DRIVE	1
3	64123-80	BLT-HEX 1/4-20X1-1/4	2		(INCLUDES I	TEMS 45-47)	
4	64006-02	LCKWSHER-HELICAL 5/16	12		•	,	
5	64164-19	KEY WOODRUFF.19X.75 #		45	548775	PLUG.25-18NPTF HS	1
6	64006-01	LOCKWASHER-1/4 HELICA	\L 4	46	516222	HUB	1
7	64123-68	BOLT-HEX 5/16-18X1	12	47	548329	RING,EXT LOCK 1.61ID.067	Г 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	2
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	Г 5
18	520239	SHIM .010 (.25MM)	A/R	58	548482	PLUG, EXPANSION 1.25 YS	4
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				
23	524486	DECAL, WHEEL SHIFTER	1				
24	548931	PLUG, EXPANSION 1.75 YS	3 1				
25	64164-28	KEY-#808 WOODRUFF	4				
26	4139758	GEAR	1				
27	516162	SPROCKET, CLUTCH	1				
28	516172	CLUTCH	1				
29	516173	SHAFT	1				
30	544215	CAGE ASSY,BEARING	1				
	(INCLUDES	ITEMS 31, 32)					
31	548131	BRG,BALL 1.00 2.00.50 "DA	\" 1				
32	548326	RING,INT RET 2.21OD.06	1				
33	548327	RING-LOCK	1				
34	544217.7	SHIFTER AY	1				
35	545050	CAGE AY,BEARING	1				
	(INCLUDES	ITEM 36)					
36	814474	CUP,TPRD RLR BRG	1				
37	516160	SPROCKET	1				
38	521253	SHAFT-ECCENTRIC	1				
39	548336	LOCK RING (KC)	1				
40	814473	CONE, TPRD RLR BRG 1.0	0 2				
41	545710	SHAFT AY	1				
42	546033.7	DIPSTICK AY	1				



SIDE ARMS, PITMAN ARMS AND HANDLES

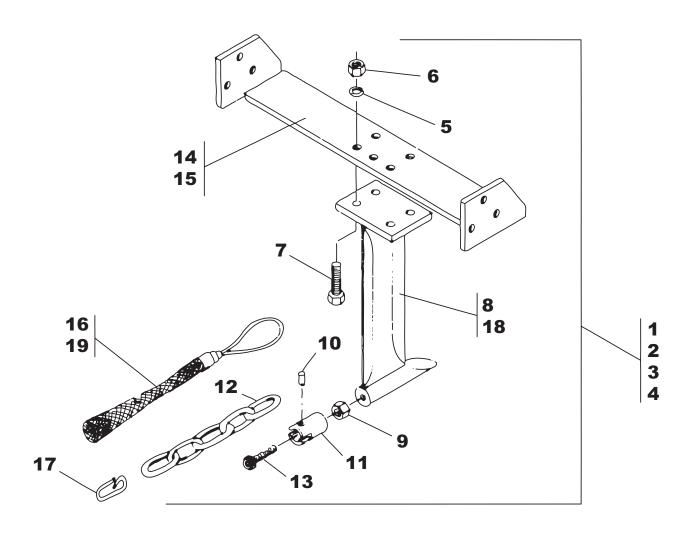
JR SOD CUTTER

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1 2 3 4 5 6 7 8 9 10 11 12 13 14	64123-50 64123-68 64123-61 328018 515011 515729 516067 4135868 521435.7 521469.7 521470 521471 521472.2 545436 (INCLUDES	BOLT-HEX 3/8-16X1 BOLT-HEX 5/16-18X1 BLT-HEX 5/16-18X1-3/4 SCRW,.44-14 1.12 YS HX SCRW,.31-24 1.00 ZS HX BUSHING BUSH,STL.515X.874X1.015 COVER,HANDLE SHAFT, LOWER CLAMP, SADDLE HANDLE,LOCKING GAGE,DEPTH (PLATING) BRACKET, PIVOT ECCENTRIC AY ITEMS 15 & 16)	2 4 2 6 6 2 3 1 1 1 2 2	39 40 41 42 43 44 45 46 47 48 49	548183 800198 800513 548056 64268-02 64268-03 830287 64006-02 4113281 4132717.7 4163589	LWSHR,.31.09 HI-COLLAR NUT,.5-20 YS HX CRNLCK SCRW-SCKT 5/16-18-1-1/4 NUT,.44-14 YS HX UNITORO NUT-FL NYLN LCK 5/16-18 NUT-FL NYLN LCK 3/8-16 WSHR,FLAT LOCKWSHR-HELICAL 5/16 WASHER, SPCL .531 SQ BLADE-SOD CUTTER, 18" LABEL-CHF VERT	6 5 6
15 16 17	521424 548814 545437 (INCLUDES	RING RACE, INNER ARM AY ITEMS 18-22)	1 1 2				
18 19 20 21 22 23	112050 521425.2 521427.2 521428 85010-03 545443.2 (INCLUDES	TSCRW,.25-20.62 YS HW PLATE - COVER ARM, PITMAN BRG,NDL 1.25 1.62 1.06 FITTING (KC) BRACKET AY ITEMS 24, 25	2 1 1 1 1 2				
24 25 26	521429 548224 4163915 (INCLUDES	BRONZE BEARING FITTING,GREASE 1/4 SPC ARM AY, SIDE ITEMS 27-31, 49)	1 L 1 2				
27 28 29 30 31 32 33 34 35 36 37 38	521436 521438 548138 548340 831405 540209.2 540210.2 545449.2 524549.2 524550.2 64151-7 64025-03	BALL BEARING GREASE SEAL BRG,NDL.88 1.12 1.00 LOCK RING (KC) FTG, GREASE 90D.25-28 LEVER AY FRAME AY, H HANDLE AY ROD,TIE LOWER ROD,TIE UPPER LOCKNUT, 1/2-13 HEX NUT-HEX 5/16-24	1 1 2 2 1 1 1 2 1 1 2 6				



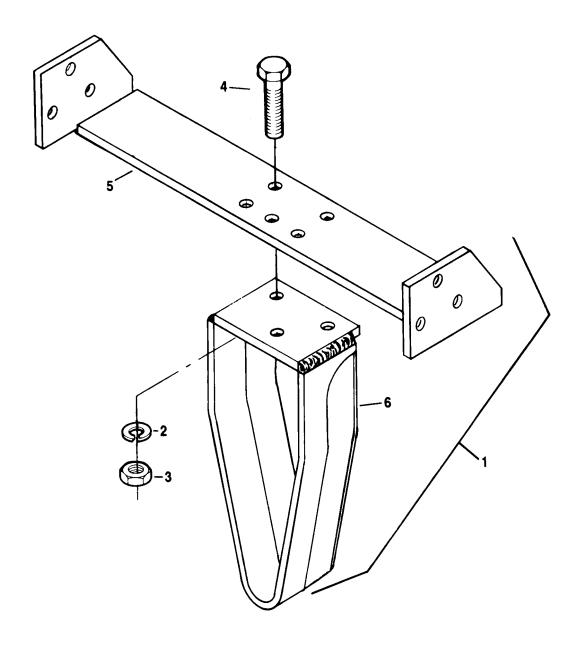
JR SOD CUTTER

ITEM	PART NO.	DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	111898	CLAMP,CABLE	1	42	48228A	CABLE CLIP-INSULATED	4
2	64025-15	NUT-HEX #10-24 KEPS	1	43	814585	BUSHING	1
3	4161125	LABEL-RYAN	1	44	64139-06	BOLT-WLH 5/16-18X5/8	2
4	64025-04	NUT-3/8-24 HEX	1	4.5	000000	TCCDW 400 24 75	4
5	64006-02	LCKWSHER-HELICAL 5/16		45	800896	TSCRW,.190-24.75 WASHER .328X.75X14 GA	1 1
6 7	64197-015 64006-01	BLT-TDFM 10-32X1/2 TOR: LCKWSHER-1/4 HELICAL	2	46 47	64163-55 306464	SCRW,.31-18 2.50 YS HX	3
8	548901	SCRW,.31-18.50 YS HSF G		47		USED TO ATTACH ITEM 35	
9	64123-89	BOLT-HEX 1/4-20X3/4	8		(OF HONAL-	USED TO ATTACTITEM 35)
10	64151-17	LOCKNUT, HEX	4	48	64163-61	WSHR .81X.406X16GA	1
11	64140-1	COTTER PIN-1/8X1	3	49	4163186	CONTROL, THROTTLE 43.	-
12	64006-03	WSHR, 3/8 HELICAL LOCI		13		& S MODELS ONLY)	.5 1
13	64163-03	WSHR256IDX62ODX18G			(OOLD ON D	A O MODELO ONLI)	
14	64163-67	WASHER516X1X12GA	7 6	50	4163183	HARNESS-JR SOD B&S	1
15	65286-4A	TIE,CABLE 11-5/8 BLACK	3			& S MODELS ONLY)	•
16	515726	SHAFT	1		(0022 0.12	G G 1110 D L L L 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
17	516544	BUSHING (PLATING)	1	51	64152-46	SCREW-SLT HH 10-24X1/2	2 1
18	516634	PIN,CLEVIS.38 1.75 YS	1	52	64229-01	NUT-NYLON 1/4-20	3
19	4135035.7	FLAT-SWITCH ACTIVATION	N 1				
20	522585.7	HANDLE,CONTROL	1				
21	522727	GRIP,HANDLE	2				
22	829148	MOUNT, ISOLATION	3				
23	524472	ARM, PIVOT (PLATING)	1				
24	4163916	S-CONTROL PANEL	1				
25	4163587	LABEL-CONTROL PANEL	1				
26	64152-18	SCR 8-32 X 3/8 S-TAP	2				
27	540211.7	HANDLEBAR AY	1				
28	540212.7	HANDLEBAR AY, MOUNT	_ 1				
29	540326	CONTROL ASSY,THROTTI	_E 1				
	(USED ON H	ONDA MODELS ONLY)					
30	540229	WIRE AY	1				
	(USED ON H	ONDA MODELS ONLY)					
31	540232	CONTROL AY, KILL SWITC	H 1				
32	4124195	WHEEL AY, 8X1.25 SOLID	1				
33	548171	KNOB	1				
34	64141-6	NUT, 5/16-18	5				
35	524551	SPACER	3				
	`	MAY BE USED IN PLACE ()F				
	ΙΤ	EM 22 WITH ITEM 47)					
36	800492	CAPSCREW,HEX (KC)	1				
37	800495	NUT, 25-20 BS SPD "Ú"	2				
38	800883	SCRW,.38-24 2.25 YS HX	1				
39	805421	SPRING, EXTENSION	1				
40	806800	SWITCH,STOP LIGHT	1				
41	524577	BUSHING, .328X.63X.41	2				



JR SOD CUTTER

ITEM	_		QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	(USED ON 7	MOLE BLADE KIT- 3/4" 44844F & 744944B) TEMS 14 & 16-17)	-1-				
2	`	MOLE BLADE KIT- 3/4" 44845F & 744945B) ITEMS 13 & 15-17)	1				
3	`	MOLE BLADE KIT- 1-1/4" 44844F & 744944B) ITEMS 7, 9-14 & 17-19)	1				
4	`	MOLE BLADE KIT- 1-1/4" 44845F & 744945B) ITEMS 5-7, 9-13, 15, & 17-19	1				
5 6 7		WSHR, 3/8 HELICAL LOCK NUT-3/8-24 HEX BLT-HEX 3/8-24X1-1/4	4 4				
8	544689 (INCLUDES	BLADE AY, MOLE 3/4"	1				
9 10 11	64025-02 316943 515691	NUT-HEX 5/16-18 PIN,SPIROL.250.750 PS SWIVEL	1 1 1				
12 13	547052 800513	CHAIN AY SCREW-SCKT 5/16-18-1-1/	1 4 1				
14	546089	BRACKET,12"-MOLE BLAD 44844F & 744944B)					
15	546092 (USED ON 7	BRACKET,18"-MOLE BLAD 44845F & 744945B)	E 1				
16	548613 (USED ON 5	KELLEM GRIP 44670 & 544725)	1				
17 18	808222 544692	LINK,CHAIN CONN BLADE AY, MOLE 1-1/4"	1 1				
10	(INCLUDES		1				
19	548616	KELLEM GRIP ITS 544673 & 544728)	1				
	(OOLD ON K	110 077010 & 074120)					



JR SOD CUTTER

FIGURE 7

ITE	M PART I	NO. DESCRIPTION	QTY	ITEM	PART NO.	DESCRIPTION	QTY
1	•	BLADE KIT ES ITEMS 2-6) '44844F, ONLY	1				
2	64006-03	WSHR, 3/8 HELICAL	LOCK 3				
3	64025-04	NUT-3/8-24 HEX	3				
4	64123-21	BLT-HEX 3/8-24X1-1/	4 3				
5	546089	BRACKET,12"-MOLE	BLADE 1				
6	546198	BLADE AY,TRENCHI	NG 1				

*NOTE: The trenching blade set includes parts for installation on earlier model sodcutters. Discard any parts not required for installation on model 544844B and newer.