



SG350 STUMP GRINDER

Operation, Safety & Maintenance Instructions





INTRODUCTION

Dear Valued Customer,

Congratulations on your purchase of the precision engineered Red Roo Model SG-350.

Red Roo Stump Grinders have been designed to withstand difficult conditions. Designed with simplicity and safety in mind, this unit offers an excellent alternative for removing tree stumps.

The Red Roo Stump Grinder utilizes leading edge design technology and incorporates precision engineered componentry. These factors help ensure reliability.

You alone know the operational demands and special conditions affecting the equipment in your situation and therefore assume the responsibility for developing, carrying out and enforcing the safety concepts which apply to your own operation to effect the greatest safety for yourself and the people around you.

Thank you for purchasing this Red Roo product. Remember to operate the machine responsibly and safely.



Table of Contents

ABOUT THIS MANUAL	4
SAFETY FIRST	4
SAFETY PRECAUTIONS FOR SG-350 USERS	5
OPERATING INSTRUCTIONS	6
BEFORE USE	6
OPERATION	6
AFTER USE	6
TRANSPORTATION/TIE DOWN	7
PRE-GRINDING CHECK LIST	7
STARTING	7
GRINDING STUMPS	7
ADJUSTING HANDLE HEIGHT	8
STOPPING	8
SERVICE INFORMATION	8
BELT TENSION. BELT REPLACEMENT	8
REPLACING POCKETS & CUTTERS	9
TEETH SHARPENING	10
CARING FOR YOUR POWDERCOATED FINISH	10
TROUBLESHOOTING	11
DECALS	11
DRAWING 1 (MAIN BODY)	12
PARTS LIST (DRAWING 1)	13
DRAWING 2	14
PARTS LIST (DRAWING 2)	15
DRAWING 3	16
PARTS LIST (DRAWING 3)	17
DRAWING 4	18
PARTS LIST (DRAWING 4)	19
ELECTRIC START OPTION/LIFTING HOOK	20
CLUTCH ASSEMBLY	21
REMOTE AIR FILTRATION SYSTEM	21
WEB INFORMATION	22
WARRANTY POLICY	23
WARRANTY CARD (INSERT)	

RED ROO SALES & SERVICE COMPANY PTY. LTD.

41-43 Keysborough Avenue, Keysborough, Victoria, Australia 3173

Tel.: +61 (03) 9769 0455 Fax: +61 (03) 9769 0366

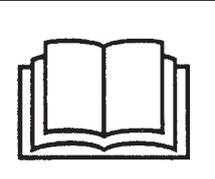
Outside Melbourne Metro: Tel.: 1300 133 767 Fax: 1300 133 757

redroo.com

ABOUT THIS MANUAL

The information contained in this manual has been prepared to assist you in the safe operation, the routine maintenance and general care of your Red Roo product. By following these guidelines, you may look forward to years of reliable service from your Red Roo. Information is categorised and denoted by the following symbols and phrases:

-  **SAFETY FIRST** Identifies general safety practices.
-  **DANGER!** An instruction which, if not followed, could result in serious or fatal injury.
-  **WARNING!** An instruction which, if not followed, could result in personal injury
-  **CAUTION!** An instruction which, if not followed, could damage machine components.

Before operating this Machine read and observe all Warnings, Cautions and Instructions on the Machine and in the Operators Manual. Although the reading of information contained in this manual does not eliminate the risk involved in operating this machine, your understanding of this information will promote the correct and safe use of your machine. Failure to follow Instructions and Safety Information could result in serious injury or death.

HAZARD SYMBOLS & MEANINGS

 Read	 Hearing Protection	 Eye Protection	 Wear Gloves	 Cut Hand
 Electrical Shock	 Moving Parts	 Hot Surfaces	 Remove Spark Plug Leads	 Toxic Fumes
 No Bystanders	 Don't Remove Guards	 Explosion	 Don't Refuel Hot Engine	 Rotating Cutter

SAFETY FIRST – Stay Alert, Do Not Get Hurt



Read this section before use!

A Stump Grinder is designed to eliminate tree stumps and therefore is potentially dangerous. Careless or improper use may cause serious or even fatal injury.

It is important that you read and understand the contents of this manual and that you allow only mature, adult individuals to operate your Stump Grinder. It is your responsibility to ensure that any individual who operates your Stump Grinder have read and understood this manual.

Never use the Stump Grinder for any other purpose than grinding stumps. The machine is designed for this purpose only. Any other use may cause serious or even fatal injury and/or damage to the machine.

SAFETY PRECAUTIONS FOR SG350-2 USERS

Outdoor Power Equipment Institute Recommendations



WARNING TO PURCHASERS OF INTERNAL COMBUSTION ENGINE EQUIPPED MACHINERY OR DEVICES:

The equipment which you have purchases does not have a spark arrester muffler. If this equipment is to be used on any forest and brush covered land or grass covered unimproved land, the law may require that a spark arrester muffler be installed and be in effective working order. The spark arrester must be attached to the exhaust system and comply with local authorities by-laws.



USE COMMON SENSE AND PLENTY OF IT

- 1)  **DO NOT** allow any person to operate the stump grinder without first reading and understanding safety precautions and operating instructions. **KNOW THE CONTROLS AND HOW TO STOP THE STUMP GRINDER QUICKLY IN AN EMERGENCY.**
- 2) **NEVER** allow children or untrained adults to operate the stump grinder.
- 3) **ALWAYS** wear protective clothing when operating the stump grinder. This includes, but is not limited to; safety glasses, loose fitting gloves, steel capped boots and hearing protection. **NEVER** wear loose fitting clothing or jewellery when operating the stump grinder. Keep all clothing away from moving parts. Items could become caught in the machine, resulting in injury.   
- 4) **ALWAYS** operate the stump grinder in a well lit area.
- 5)  **ALWAYS** operate stump grinder on level ground only. Inspect the immediate area before grinding. Remove any foreign objects in the grinding area eg bricks, rocks, wire and sticks. Locate and mark any sprinkler heads, water pipes, gas lines, electrical and telephone cables or any other hazard either below or above ground.
- 6)  **DO NOT** allow other persons near the stump grinder. It is up to the operator to keep bystanders and animals a minimum of 6 metres (18ft) away from the machine while in operation.
- 7) **NEVER** operate the stump grinder when fatigued. **ALWAYS BE ALERT!** If you get tired while operating the stump grinder, take a break. If you have any type of physical or mental condition that may be aggravated by strenuous work, check with your physician before you operate this equipment. **NEVER** operate the stump grinder under the influence of medication, alcohol or drugs.
- 8)  **ALWAYS KEEP YOUR HANDS, FEET AND BODY AWAY FROM THE CUTTING AREA WHILE ENGINE IS RUNNING.**
- 9)  **NEVER** operate the stump grinder without the safety guards in place and in working order. Keep the unit well maintained and in good working order
- 10) **DO NOT** leave the machine unattended while the engine is running.
- 11) **DO NOT** overspeed the engine or alter the governor settings. Excessive speed is dangerous and will shorten engine life.
- 12)  **NEVER** operate the stump grinder in an enclosed area. Engine exhaust contains carbon monoxide, an odourless and tasteless poison.
- 13)  **STOP** the engine and disconnect the spark plug lead(s) and allow engine to cool before inspecting or performing maintenance on the stump grinder.
- 14)  **REFUELLING**
 - * Shut off engine. **DO NOT REFUEL AN ENGINE WHILE OPERATING!**
 - * Allow engine to cool; minimum 5 minutes.
 - * **USE UNLEADED FUEL ONLY. Use clean, fresh unleaded fuel.**
 - * **DO NOT mix oil with unleaded fuel.**
 - * **DO NOT** over-fill fuel tank. Allow space for fuel expansion.
 - * **DO NOT** smoke.
 - * Allow no naked flame or hot material in refuelling area.
 - * Use only approved fuel containers and funnels. Remember, fuel is a potential hazard.



OPERATING INSTRUCTIONS

BEFORE USE

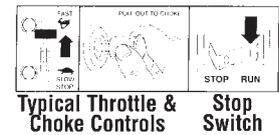
- 1)   Inspect the immediate area. Remove any foreign objects from the area.
- 2)   Identify and mark the location of sprinkler heads, gas pipes, telephone cables, etc.
- 3) Check the fuel and oil level of engine

OPERATION - View Demonstration Online at www.redroo.com

- 1) Remove the stump grinder from its carrying vehicle or trailer.  Use caution.
- 2) Familiarize yourself with the machine and its controls.
- 3) Manoeuvre the stump grinder to area near the stump to be removed.
- 4) IGNITION: Must be in "ON" position to start. "OFF" to stop.

- 5)  Open fuel shut-off valve.
Move choke control to **CHOKE** or **START** position.

Note: Choke must fully close. Move throttle control to RUN or FAST position. If engine is equipped with rocker style stop switch, push RUN or I (I = Ignition) before starting. Rewind Starter: Grasp rope handle and pull slowly until resistance is felt to prevent kickback. Then pull cord rapidly to overcome compression, and start engine. Repeat if necessary with choke off and throttle control in FAST position. Operate engine in FAST position.



NOTE: The control bar is designed as a safety feature. The engine will not start or operate without depressing the control bar. See Figure 1 (next page).

- 6) Push the stump grinder to the stump, position the grinding disc over the front edge of the stump.
- 7) Set the wheel brake on the right hand side of the stump grinder and adjust the handle position to achieve better leverage depending on the height of the stump.
- 8) Use the throttle to gradually bring the engine RPMs up to full **while lifting the grinding disc off the ground.**
- 9) Slowly lower the stump grinder until the grinding disc comes in contact with the stump. Move the stump grinder back and forth in a long, slow sweeping motion. Maintain the same elevation until a section has been removed, then lower the stump grinder to take out the next section.

NOTE: Constant build up of grinding debris may inhibit the stump grinder from performing effectively. To help assure safe, effective and efficient working results, keep the working area raked level and free of grinding debris.

NOTE: Make sure disc has stopped completely before clearing debris

- 10) When the front part of the stump has been removed, release the brake and push the stump grinder forward to a new edge.

NOTE: FOR BETTER PERFORMANCE AND TO AVOID EXCESSIVE CLUTCH WEAR, RUN THE ENGINE AT FULL THROTTLE DURING OPERATION.



WARNING! – KEEPS HANDS AND FEET CLEAR OF THE GRINDING DISC AND GRINDING ZONE AND OTHER MOVING PARTS WHILE ENGINE IS RUNNING.



WARNING! – IN CASE OF DIFFICULTY, RELEASE THE OPERATOR PRESENCE CONTROL BAR. THIS ACTION WILL SHUT DOWN THE ENGINE.

- 11) After stump has been removed use the throttle to gradually bring down the engine RPMs. **Make sure the grinding disc has come to a complete stop before moving the stump grinder.**
- 12) **Stop Engine:** Do not move choke control to CHOKE position to stop engine. Backfire or engine damage may occur. Move throttle control to SLOW position, then push rocker switch to 0 (STOP), or turn key to OFF, if equipped.



Typical Stop Switches

AFTER USE

- 1)   Turn fuel tap to "OFF" position.
- 2)   Allow machine to cool down. Wash mud and dirt off of the stump grinder. Ensure no water enters the carburettor.
- 3) Remove any weeds, wire, rope, etc. that may have wrapped around the disc grinding shaft assembly.
- 4) **CHECK FOR LOOSE BOLTS ON THE GRINDING DISC.**

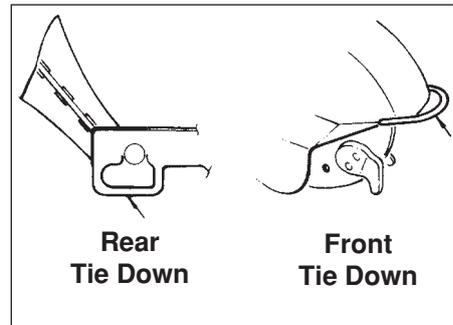
TRANSPORTATION / TIE DOWN

It is the responsibility of the owner and/or operator to be aware of and abide by all applicable national, state and local regulations regarding transport of equipment and trailers (i.e. lights, tags, registration, etc.).

The Stump Grinder may be transported by utility truck, pick-up truck, or similar vehicle, or may be transported in a suitable roadworthy trailer.

The Stump Grinder has been designed with three tie down points. Two at the rear of the machine and one at the front.

NOTE: DO NOT USE THE LIFTING HOOK AS A TIE DOWN POINT.



PRE-GRINDING CHECK LIST

The following procedures should be performed before each use of the Stump Grinder.

Check the unit for any loose parts. Tighten nuts and bolts and make sure all safety guards and devices are securely in place.

Check the cutters for dulling. It is important to keep cutters sharpened by grinding or replacing them. Dull cutters will cause excessive engine wear and poor performance. See the Maintenance Instructions Pg. 9 for details.

Check the oil and fuel level in the engine. Follow the Engine Operators Handbook if fluids need to be added or changed.

Check the air filter. The air filter should be cleaned of dirt regularly. This Stump Grinder is equipped with a heavy duty remote air filtration system (Pg. 11).

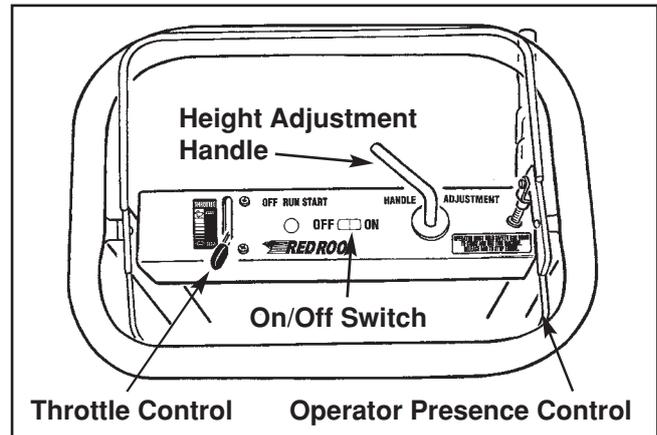
Check the tension of the engine belts. The cutter wheel belts should have a deflection at the centre of 12mm (1/2") but not more than 19mm (3/4").

STARTING

Figure 1

- 1) **IGNITION:** Must be in "ON" position to start. "OFF" to stop.
- 2)  Open fuel shut-off valve. Move choke control to **CHOKE** or **START** position.

Note: Choke must fully close. Move throttle control to RUN or FAST position. If engine is equipped with rocker style stop switch, push RUN or I (I = Ignition) before starting. Rewind Starter: Grasp rope handle and pull slowly until resistance is felt to prevent kickback. Then pull cord rapidly to overcome compression, and start engine. Repeat if necessary with choke off and throttle control in FAST position.



Operate engine in FAST position. **NOTE: The Operator Presence Control Bar is designed as a safety feature. The engine will not start or operate without depressing the Operator Presence Control Bar.**

- 3) **Remember the Operator Presence Control is there for your safety. This device must be activated to start the machine. Make sure to hold down the Operator Presence Control before attempting to start and operate the stumpgrinder.**

GRINDING STUMPS

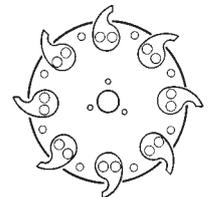
- 1) Push the stump grinder to the stump, position the grinding disc over the front edge of the stump.
- 2) Set the wheel brake on the right hand side of the stump grinder and adjust the handle position to achieve better leverage depending on the height of the stump.
- 3) Use the throttle to gradually bring the engine RPM s up to full **while lifting the grinding disc off the ground.**
- 4) Slowly lower the stump grinder until the grinding disc comes in contact with the stump. Move the stump grinder back and forth (right to left) in a long, slow sweeping motion. Maintain the same elevation until a section has been removed, then lower the stump grinder to take out the next section.

NOTE: Constant build up of grinding debris may inhibit the stump grinder from performing effectively. To help assure safe, effective and efficient working results, keep the working area raked level and free of grinding debris.

NOTE: Make sure disc has stopped completely before clearing debris

- 5) When the front part of the stump has been removed, release the brake and push the stump grinder forward to a new edge.

NOTE: FOR BETTER PERFORMANCE AND TO AVOID EXCESSIVE CLUTCH WEAR, RUN THE ENGINE AT FULL THROTTLE DURING OPERATION.





WARNING! – KEEPS HANDS AND FEET CLEAR OF THE GRINDING DISC AND GRINDING ZONE AND OTHER MOVING PARTS WHILE ENGINE IS RUNNING.



WARNING! – IN CASE OF DIFFICULTY, RELEASE THE OPERATOR PRESENCE CONTROL BAR. THIS ACTION WILL SHUT DOWN THE ENGINE.

- 6) After stump has been removed use the throttle to gradually bring down the engine RPM s. **Make sure the grinding disc has come to a complete stop before moving the stump grinder.**



CAUTION: Do not lower cutter directly onto top of the stump.

The stump grinder should be operated in a sweeping motion from side to side with the cutter being lowered slightly between sweeps until the part of the stump being ground is completely removed. Excessive force created by rapidly lowering cutter onto stump top will result in abnormal strain on cutter shaft and may lead to premature failure.

ADJUSTING HANDLE HEIGHT

The handle can be raised or lowered to provide different leverages to better handle different stump heights.

STOPPING

1. **Stop Engine:** Do not move choke control to CHOKE position to stop engine. Backfire or engine damage may occur. Move throttle control to SLOW position, then push rocker switch to 0 (STOP), or turn key to OFF, if equipped.

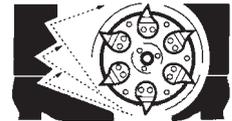


CAUTION: MAKE SURE TO ALLOW THE GRINDING DISC TO STOP SPINNING BEFORE LOWERING THE FRONT OF THE STUMP GRINDER TO THE GROUND.

SERVICE INFORMATION



DANGER: Before attempting any maintenance: shut off engine, wait for all moving parts to stop. Rotating cutter wheel may cause serious injury or death. Material thrown by cutter wheel may cause serious injury. Stay away from cutter wheel and work area until the engine and cutter wheel have stopped.



ENGINE

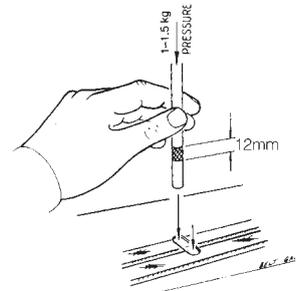
Follow the instructions in the Engine Operators Manual for all maintenance of the engine such as checking the oil, cleaning air filters, etc.

FUEL

Use standard unleaded petrol/gasoline in the Stump Grinder engine

BELT TENSION/BELT REPLACEMENT

Check the condition and tension of the drive belts before each operation. When properly tensioned, the belts should give a 12mm (1/2") deflection at the center span under fifteen lbs. of pressure (approx.)



Loosen the four engine mounting bolts. You will have to get underneath the Stump Grinder to do this. Alternately tighten (or loosen) the engine adjustment bolt and check the belt tension. When the correct tension is achieved, tighten the engine mounting bolts.

If the belts are excessively worn or can no longer be properly tensioned, they must be replaced. It is extremely important to replace belts in matched sets to insure uniform power transfer between engine and cutter wheel.

Remove the belt guard. Loosen the engine mount bolts and back the engine adjustment bolt almost all of the way out. Slide the engine towards the grinding disc until the belts can be removed. Install the new belts then follow tensioning procedures.

GRINDING DISC BEARINGS

Lack of grease is the number one cause of premature bearing failure.

Grease the cutter wheel bearings every day before operating this machine or as required. DO NOT OVERGREASE.

BRAKE TENSIONING

The handbrake tension can be adjusted by turning the knob on the handbrake handle. this should only be carried out by the service personnel at the hire/rental depot or by the owner of the stump grinder. The tension should be such that it will not let the wheel rotate when the machine is pushed on a hard surface (eg. concrete, asphalt or bitumen floor).

REPLACING STUMPGRINDING TEETH

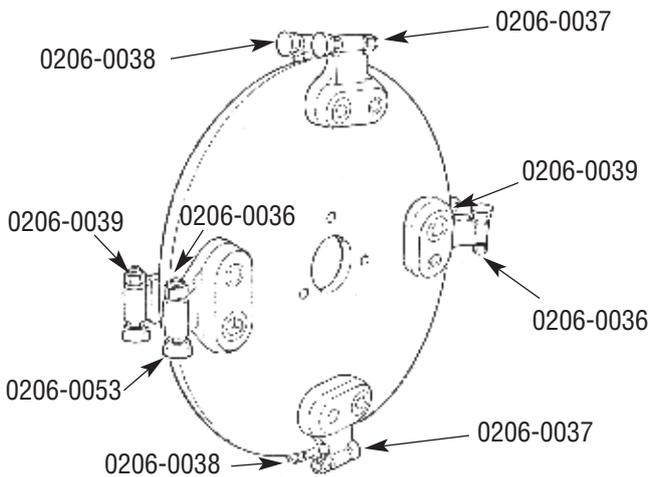


BEFORE YOU REPLACE ANY CUTTERS YOU MUST TURN THE ENGINE OFF AND WAIT FOR ALL MOVING PARTS TO STOP.

MAKE SURE ALL OF THE CUTTERS ARE SHARP AND WELL MAINTAINED AT ALL TIMES.



NOTE: DO NOT OPERATE THE STUMP GRINDER IF ANY OF THE CUTTERS ARE MISSING. THIS WILL CAUSE THE GRINDING DISC TO BE OUT OF BALANCE. DO NOT OPERATE THE STUMP GRINDER IF ANY OF THE CUTTERS ARE DAMAGED.



REPLACEMENT POCKETS & CUTTERS

Item No.	Part No.	Description
1	0206-0036	Tooth Pocket LH (Bent Counterbore) x 2
2	0206-0037	Tooth Pocket Straight (Counterbore) x 2
3	0206-0038	Tooth Pocket RH (Bent Threaded) x 2
4	0206-0039	Tooth Pocket Straight (Threaded) x 2
5	1901-0044	SHC Screw x 8
6	0206-0053	Tooth x 8

The direction of the cutting tooth is determined by which way the tip of the tooth points. The left side of the cutting wheel relates to the left side of the machine. The right side of the cutting wheel relates to the right side of the machine.

This is determined by standing in front of the machine.

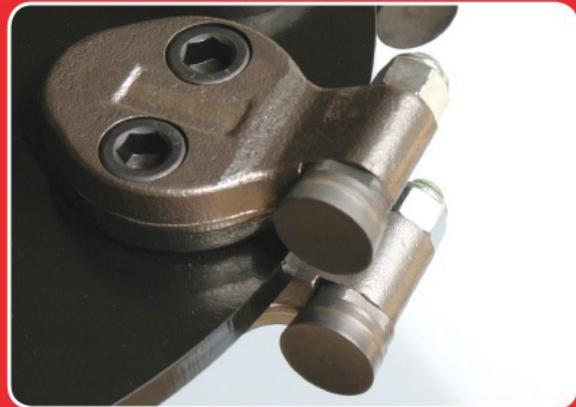


Right Hand Side

Left Hand Side



RED TOOTH™



RED ROO™
Commercial Environmental Equipment

TEETH SHARPENING



Cutting teeth may be sharpened by grinding. Initial sharpening should be performed using a silicon carbide (green) wheel. The best results will be achieved by finish grinding using a diamond grinding wheel.

Go to www.redroo.com and please view **REDTOOTH** Sharpening video.

NOTE: Using a silicon carbide grinding wheel to grind the tooth body will result in very rapid breakdown of the silicon carbide wheel.



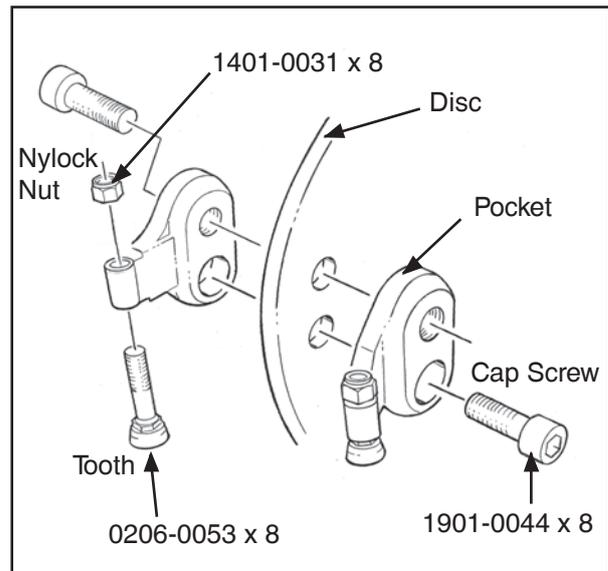
WARNING: Eye protection and a particle mask must be used when sharpening the teeth.

The Red Tooth is manufactured from a steel fastener base incorporated with tungsten carbide tip. This tip is silver soldered onto the top. The Red Tooth can be rotated 120 degrees in order to allow three working edges.

Look for **REDTOOTH** Sharpening Video online at www.redroo.com

ATTENTION:

The sharpening of tungsten carbide cutting teeth requires a special process and a degree of machine tool sharpening skills. If you are unsure of your ability to safely sharpen these cutting teeth correctly, contact a machinist or a qualified saw sharpening specialist. This will ensure your cutting teeth are returned to their proper edge profile and avoid injury.



TIGHTENING NUTS & BOLTS

Torque each 3/8 nyloc nut part number (1401-0031) to 25 ft/lbs.
Torque each 5/8 cap screw part number (1901-0044) to 180 ft/lbs.

CARING FOR POWDERCOATED FINISH

The effects of ultra violet light, pollution, dirt, grim, and salt deposits can all accumulate on the powder coated surface of your machine over time. To extend the effective life of the powder coated surface a very simple regular maintenance program should be implemented for the removal of any debris or residues.

As a general rule the machine should be cleaned after every use.

- 1) Remove any loose deposits with a wet sponge.
- 2) Use a soft brush (non abrasive) or cloth, and a mid household detergent solution to remove any dirt, or grime.
- 3) Pressure wash or rinse when finished.

Detergents that recommend the use of gloves when handling should be avoided as this is a good indication that the detergent is too harsh and therefore unsuitable for cleaning your powder coating. Although some strong solvents are recommended for removing grease, or other stubborn residues these may be harmful to the extended life of the powder coated surface. If paint splashes, or other residue need to be removed then use Methylated Spirits, Turpentine, or White Spirits.



You alone know the operational demands and special conditions affecting the equipment in your situation and therefore assume the responsibility for developing, carrying out, and enforcing the safety concepts which apply to your own operation to effect the greatest safety for yourself and the people around you.

TROUBLESHOOTING

To use these procedures, first locate the problem description that best describes the trouble that you have encountered. Check the possible causes one at a time. Correct any problems that are found and operate the Stump Grinder again to verify that you have eliminated the problem(s). Do not attempt any major repairs without contacting RED ROO first.

PROBLEM	CAUSE	SOLUTION
Engine cuts off or will not start	1. Fuel Low 2. Battery Low (Electric Start Version Only) 3. Fuse blown (Electric Start Version Only)	1. Add unleaded petrol/gasoline 2. Recharge or replace battery 3. Replace fuse
Cutter wheel does not turn	1. Belts are broken	1. Replace belts
Cutter wheel does not cut efficiently	1. Belts improperly tensioned or belt broken 2. Cutters dull	1. Re-tension belt(s) or replace belt 2. Grind or replace cutters
High bearing temperature	1. Not enough grease 2. Too much grease 3. Worn bearings	1. Add grease 2. Continue to operate Stumper but in the future reduce frequency of greasings 3. Replace bearings

DECALS



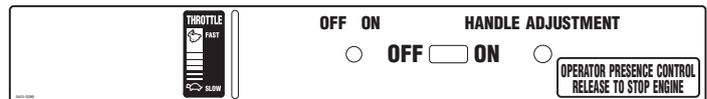
0401-0001



0401-0034 (Large) 0401-0036 (Small)



0401-0087



0401-0089



0401-0088



0401-0065



0401-0081



0401-0078



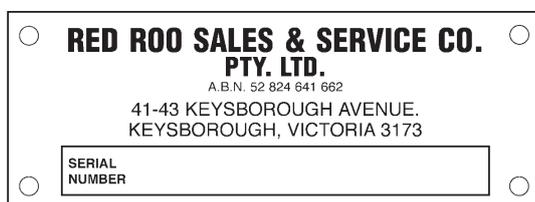
0401-0070



0401-0052



0401-0080

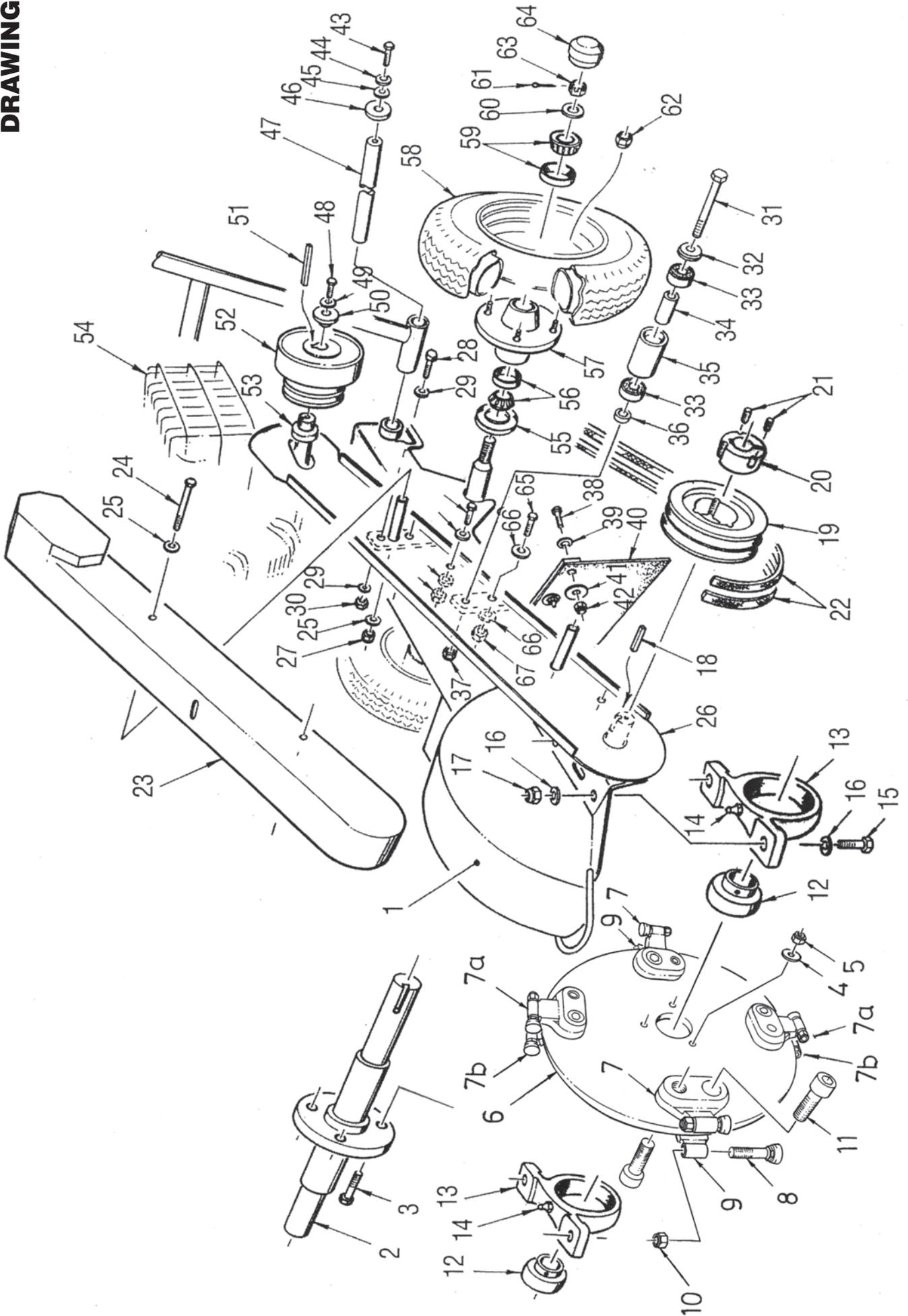


0401-0049



0401-0050

DRAWING 1

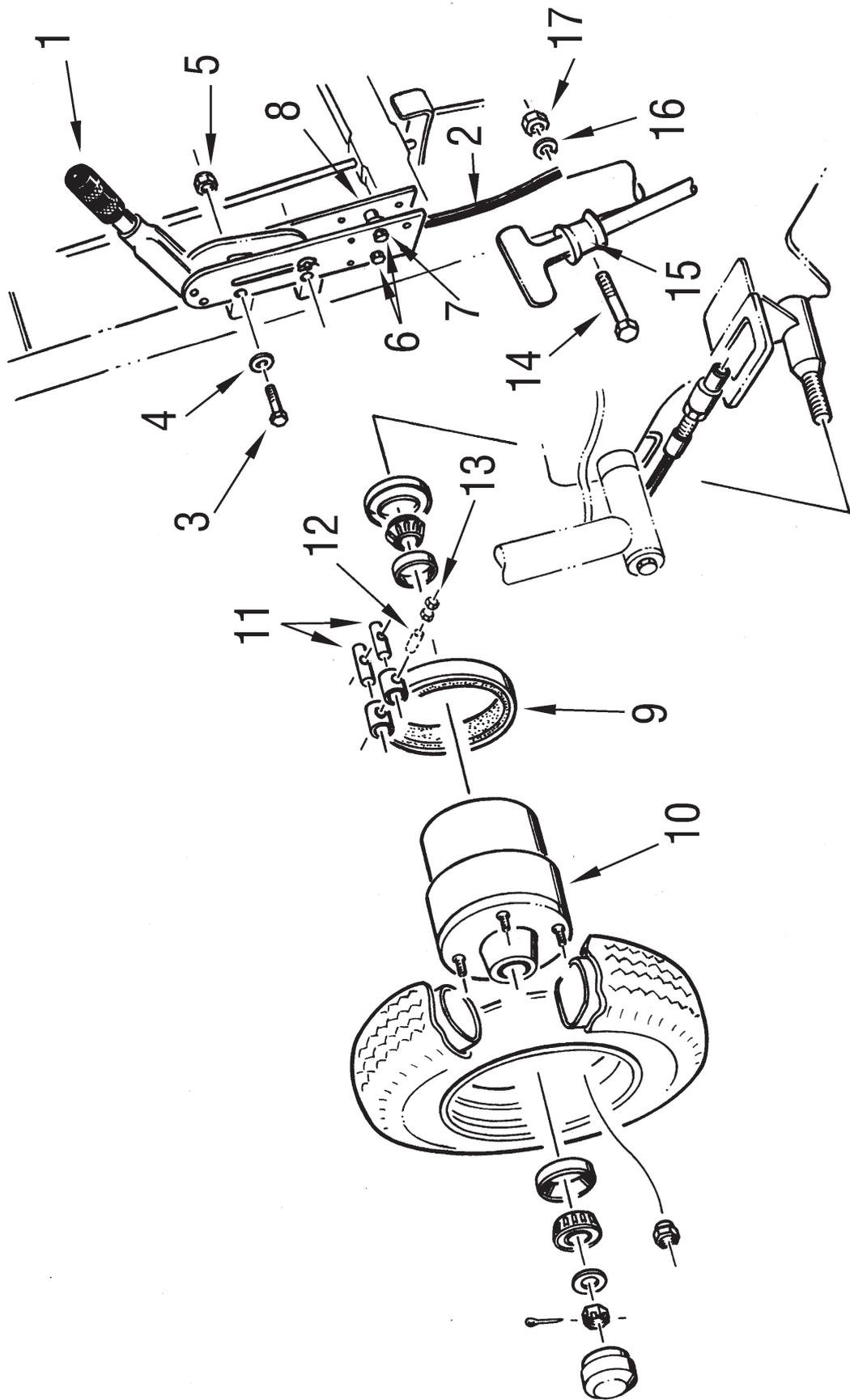


PARTS LIST FOR SG-350 DRAWING 1

Item No.	Part No.	Description	Quantity
1	0605-0030	Frame	1
2	1904-0020	Shaft, Rotor	1
3	0209-1040	Bolt	3
4	2301-0507	Washer	3
5	1401-0511	Nut	5
6	0403-0008	Disc	1
7	0206-0036	Tooth Pocket LH (Bent Counterbore)	2
7a	0206-0037	Tooth Pocket Straight (Counterbore)	2
7b	0206-0038	Tooth Pocket RH (Bent Threaded)	2
8	0206-0053	Tooth	2
9	0206-0039	Tooth Pocket (Straight Threaded)	2
10	1401-0031	Nut	2
11	1901-0044	Bolt	8
12	0204-0018	Bearing	2
13	0806-0023	Housing	2
14	0603-0004	Fitting, Grease Zerk	2
15	0209-1650	Bolt	4
16	2301-0508	Washer	8
17	1401-0516	Nut	4
18	1102-0025	Key	1
19	1608-0027	Pulley	1
20	0215-0019	Bushing	1
21	1901-0606	Screws, Grub	2
22	0205-0014	Belts	2
23	0704-0031	Belt Guard	1
24	0209-1080	Bolt	2
25	2301-0507	Washer	4
26	1605-0024	Belt Guard Mounting/Plate	1
27	1401-0513	Nut	2
28	0209-0032	Bolt	2
29	2301-0034	Washer	4
30	1401-0504	Nut	2
31	0209-1210	Bolt	1
32	2301-0501	Washer	1
33	0204-0020	Bearings	2
34	1913-0050	Spacer	1
35	1608-0029	Pulley, Idler	1
36	1913-0051	Spacer	1
37	1401-0513	Nut	1
38	0209-0007	Bolt	9
39	2301-0505	Washer	9
40	1918-0012	Deflector, Chip Front	1
41	2301-0504	Washer, Mudguard	9
42	1401-0508	Nut	9
43	0209-1020	Bolt	2
44	2301-0509	Washer	2
45	2301-0507	Washer	2
46	1913-0075	Spacer	2
47	1604-0092	Pin	1
48	1901-0032	Screw, Cap	1
49	2301-0509	Washer, Lock	1
50	1913-0076	Spacer	1
51	1102-0026	Key, Engine Shaft	1
52	0310-0008	Clutch (Refer to Page 18)	1
53	1913-0052	Spacer, Clutch	2
54	0503-0010	Engine	1
55	1902-0007	Seal – Hub	2
56	0204-0014	Bearing Assembly, Rear	2
57	0806-0013	Hub – Wheel	2
58	2305-0010	Wheel Assy	2
59	0204-0034	Bearing Assembly, Front	2
60	2301-0043	Washer	2
61	1604-0019	Pin – Cotter	2
62	1401-0055	Nut, Wheel Lug	8
63	1401-0010	Nut – Castle Axle	2
64	1906-0001	Shield	2
*	1918-0013	Deflector, Side Chip (see Page 14 Dwg 3)	1
*	1918-0014	Deflector, Rear Chip (see Page 14 Dwg 3)	1
*	0802-0005	Hook, Lifting (See General View on Page 17)	1
65	0209-0820	Bolt	2
66	2301-0505	Washer	4
67	1401-0508	Nut	2

* Not Shown

DRAWING 2

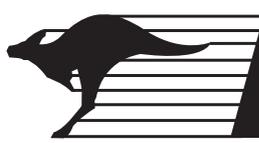


PARTS LIST FOR SG-350 DRAWING 2

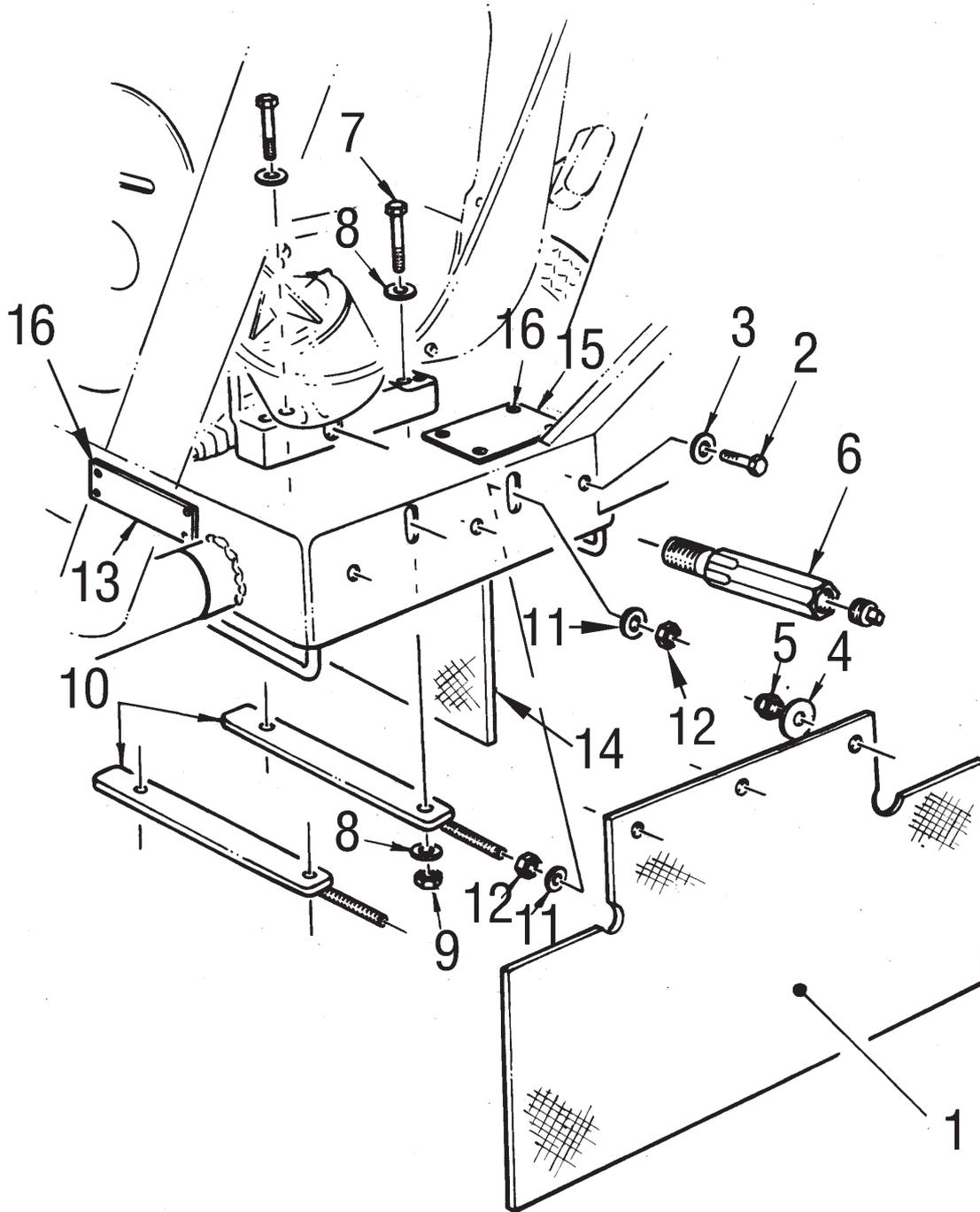
Item No.	Part No.	Description	Quantity
1	0217-0001	Brake, Hand	1
2	0301-0014	Cable, Hand Brake	1
3	0209-1040	Bolt	2
4	2301-0507	Washer	4
5	1401-0003	Nut	2
6	0209-0840	Bolt	2
7	2301-0505	Washer	4
8	1401-0508	Nut	2
9	0201-0002	Brake, Band Assy	1
10	0217-0002	Brake, Drum Assy	1
11	1604-0035	Pin, Cable	2
12	1913-0077	Spacer	1
13	1401-0008	Nut	2
14	0209-0670	Bolt	1
15	0705-0008	Guide (Rope Start)	1
16	2301-0034	Washer	1
17	1401-0503	Nut	1
18	0214-0106	Bracket	1

safety
IS EVERYBODY'S BUSINESS
...now

You alone know the operational demands and special conditions affecting the equipment in your situation and therefore assume the responsibility for developing, carrying out, and enforcing the safety concepts which apply to your own operation to effect the greatest safety for yourself and the people around you.

 **RED ROO**TM
Commercial Environmental Equipment

DRAWING 3



PARTS LIST FOR SG-350 DRAWING 3

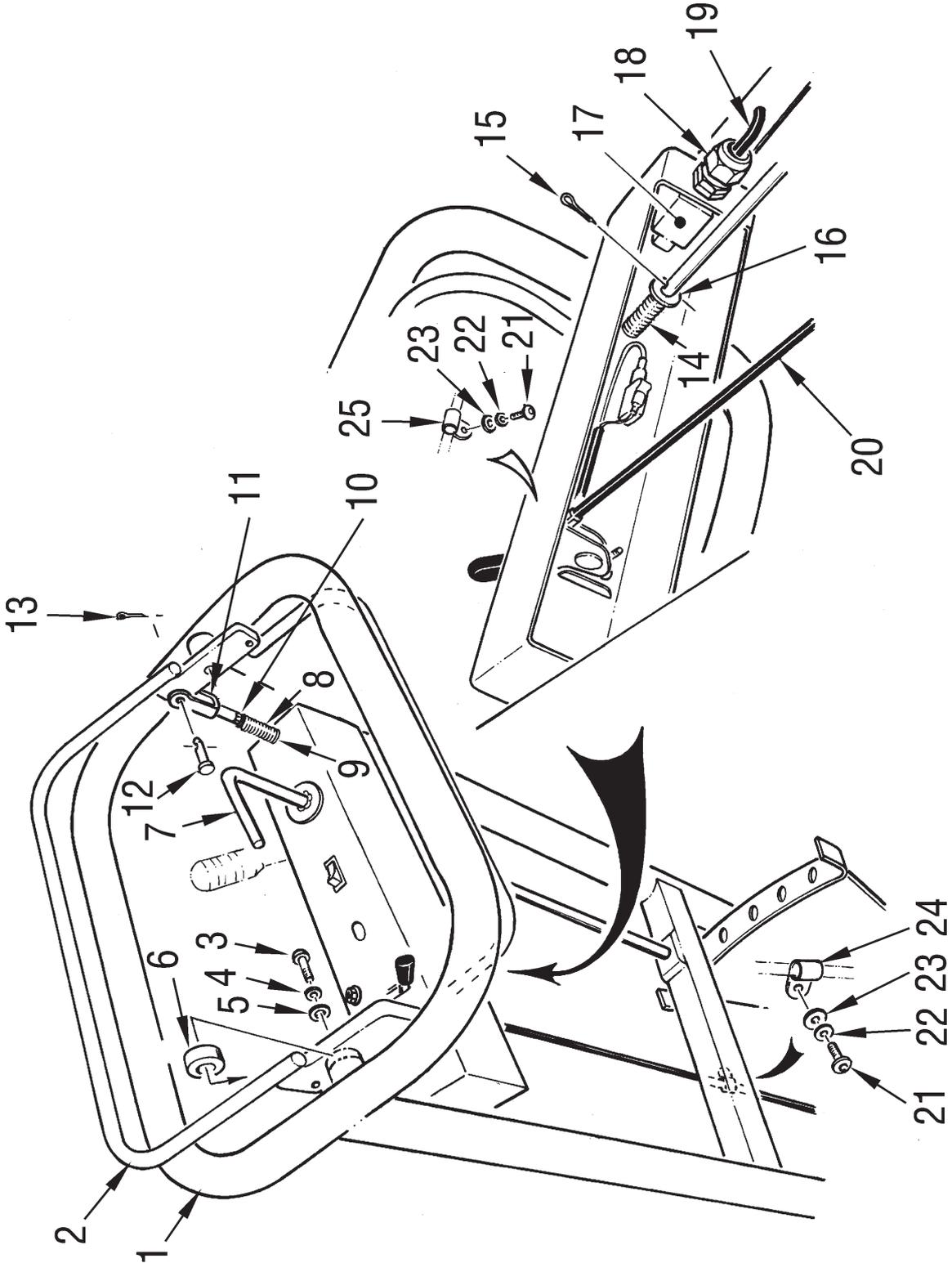
Item No.	Part No.	Description	Quantity
1	1918-0014	Deflector, Rear Chip	1
2	0209-0007	Bolt	8
3	2301-0505	Washer	8
4	2301-0504	Washer	8
5	1401-0508	Nut	8
6	0101-0004	Drain, Oil	1
7	0209-0850	Bolt	4
8	2301-0505	Washer	8
9	1401-0507	Nut	4
10	0214-0091	Bracket, Tensioner	2
11	2301-0507	Washer	4
12	1401-0510	Nut	4
13	0401-0049	Plate, Serial Number	1
14	1918-0013	Deflector, Side Chip	1
15	1401-0050	Warning Label	1
16	1812-0001	Rivet	8

safety
 IS EVERYBODY'S BUSINESS
 ...now

You alone know the operational demands and special conditions affecting the equipment in your situation and therefore assume the responsibility for developing, carrying out, and enforcing the safety concepts which apply to your own operation to effect the greatest safety for yourself and the people around you.



DRAWING 4



PARTS LIST FOR SG-350 DRAWING 4

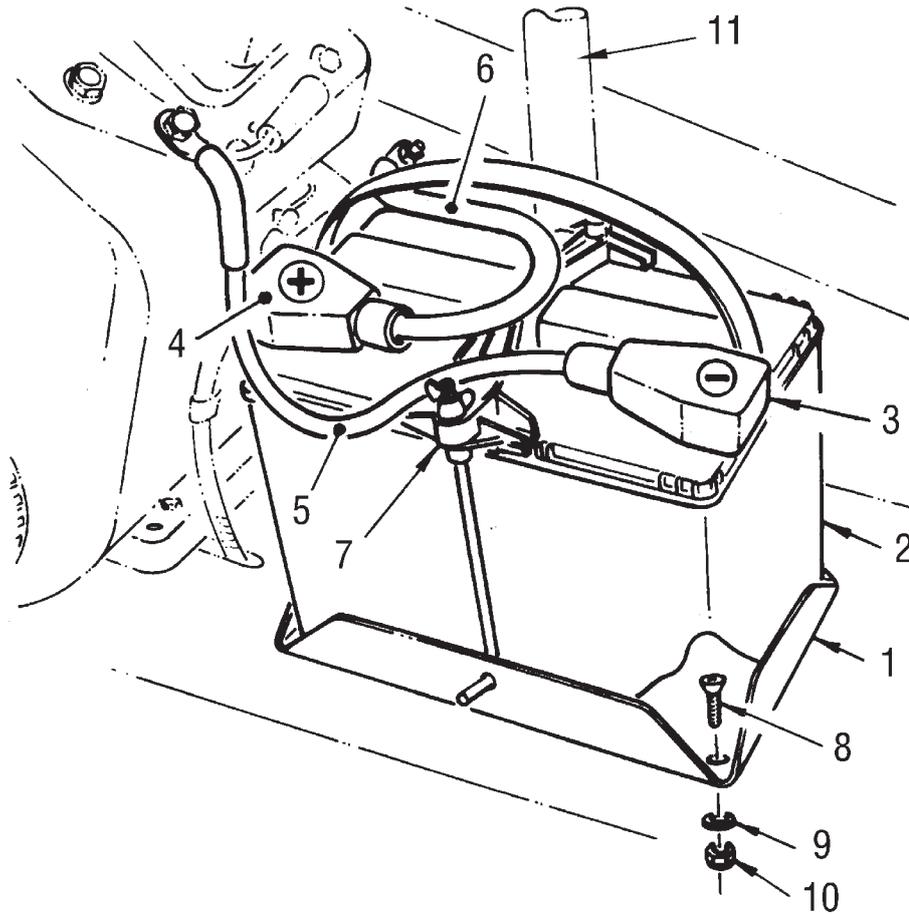
Item No.	Part No.	Description	Quantity
1	0801-0013	Handle	1
2	0801-0015	Handle, Operator Presence Control	1
3	1901-0616	Screw	2
4	2301-0506	Washer	2
5	2301-0034	Washer, Flat	2
6	0215-0030	Bushing	2
7	1201-0016	Level, Height Adj	1
8	1808-0029	Rod	1
9	1916-0017	Spring	1
10	1401-0008	Nut	1
11	2501-0007	Yoke	1
12	1604-0036	Pin, Yoke	1
13	1604-0037	Pin, Cotter	1
14	1916-0018	Spring, Handle	1
15	1604-0026	Pin, Cotter	1
16	2301-0501	Washer	1
17	1923-0016	Switch, Operator Presence	1
18	1401-0005	Nut, Gland	1
19	1301-0015	Cable, Operator Presence Control	1
20	0301-0016	Cable, Throttle	1
21	0209-0033	Bolt	2
22	2301-0506	Washer, Lock	2
23	2301-0034	Washer, Flat	2
24	0307-0017	Cable, Saddle	3
25	0307-0016	Cable, Saddle	1

safety
IS EVERYBODY'S BUSINESS
...now

You alone know the operational demands and special conditions affecting the equipment in your situation and therefore assume the responsibility for developing, carrying out, and enforcing the safety concepts which apply to your own operation to effect the greatest safety for yourself and the people around you.


RED ROOTM
Commercial Environmental Equipment

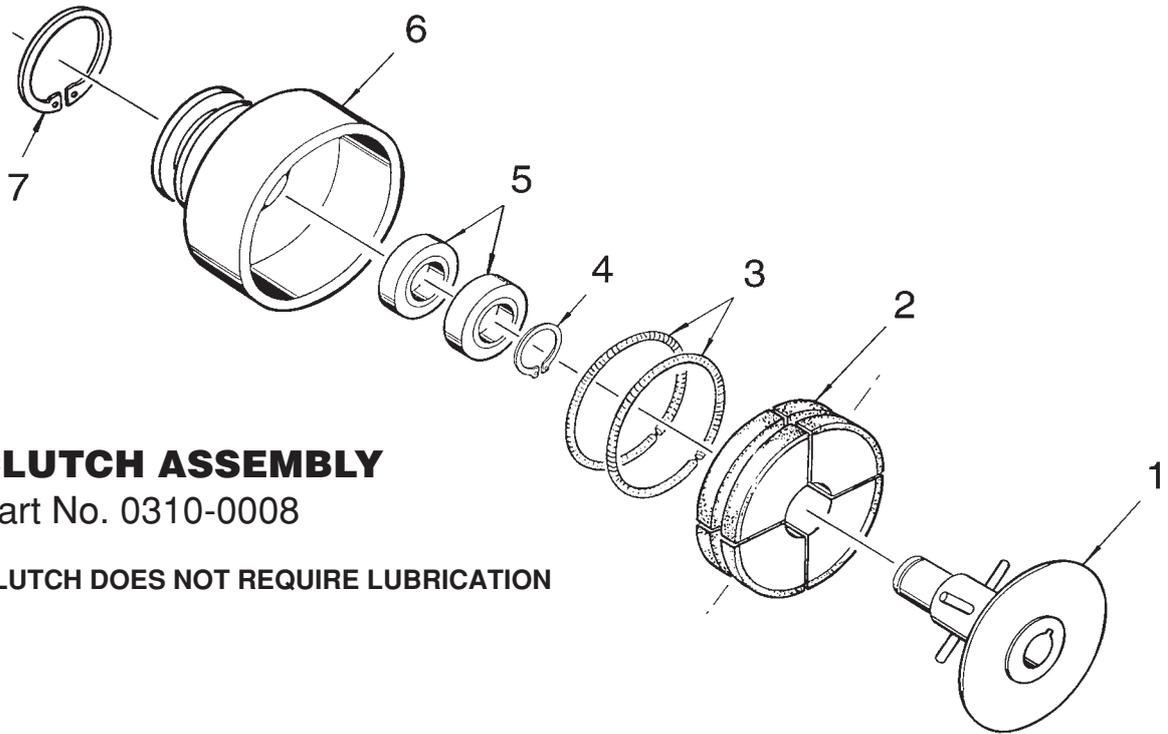
Electric Start Option



PARTS LIST FOR ELECTRIC START OPTION & LIFTING HOOK

Item No.	Part No.	Description	Quantity
1	0214-0096	Bracket	1
2	0203-0004	Battery	2
3	0303-0017	Cap (Battery Negative)	1
4	0303-0018	Cap (Battery Positive)	1
5	0303-0017	Cable (Negative)	1
6	0303-0017	Cable (Positive)	1
7	0214-0063	Bracket, Battery Clamp Kit	1
8	1901-0020	Screw	4
9	2301-0034	Washer	4
10	1401-0504	Nut	4
11	0802-0025	Hook, Lifting	1
*	0209-1025	Bolt	2
*	2301-0507	Washer	4
*	1401-0511	Nut	2

* Parts Not Shown



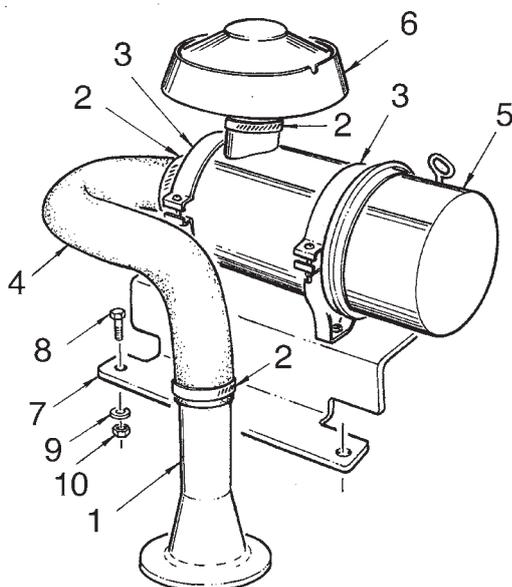
CLUTCH ASSEMBLY

Part No. 0310-0008

CLUTCH DOES NOT REQUIRE LUBRICATION

PARTS LIST FOR CLUTCH ASSEMBLY

Item No.	Part No.	Description	Quantity
1	0304-0003	Centre	1
2	1909-0003	Shoes, Clutch	1
3	1916-0014	Spring	2
4	1806-0004	Ring, Snap, External	1
5	0204-0013	Bearing	2
6	0406-0004	Drum	1
7	1806-0005	Ring, Snap, Internal	1



REMOTE AIR FILTRATION SYSTEM

Item No.	Part No.	Description	Quantity
1	1306-0004	Manifold, Engine	1
2	0307-0015	Clamp, Hose	3
3	0201-0001	Bands, Mounting	2
4	0812-0041	Hose	1
5	0610-0010	Filter, Assembly	1
6	0610-0030	Filter, Rain Hood	1
7	0214-0075	Bracket	1
*	0701-0011	Gasket, Air Cleaner	1
*	0610-0017	Replacement Filter	1
8	0209-0820	Bolt	4
9	2301-0505	Washer	4
10	1401-0509	Nut, Conelock	4

*Not Shown

Hop to **redroo.com**



1300 133 767

[Home](#) [Products](#) [Parts & Accessories](#) [Videos](#) [Red Roo Rents](#) [Red Roo Media](#) [Support](#) [Our Company](#) [Contact Us](#)

[home](#) / [products](#)

PRODUCTS

Red Roo provide extensive range of Commercial Environmental Equipment to Hire and Rental Industry, Arborist, Local Government Council



[Chippers, Shredders & Mulchers](#)



[Commercial Wood Chippers](#)



[Stump Grinders - Up to 27hp](#)



[Stump Grinders - Up to 250hp](#)



[Log Splitters](#)



[Post Hole Diggers](#)



[Rotary Hoes](#)



[Trenchers](#)



[Trailers](#)



[Turf Cutters](#)



[Aerator](#)



[Rigging Gear](#)

and explore our **PRODUCTS**



Superseding Warranty
Red Roo Group of Companies
Warranty Policy
effective February 15, 2001

Replaces all undated previous Warranties and all Warranties dated prior to February 15, 2001.

"For a time period shown below from date of purchase, pending owner registration, Red Roo Sales & Service Company, P/L, herein referred to as "MANUFACTURER", will, at its option, repair or replace for the original purchasers of new Red Roo equipment, free of charge, any part, or parts of the unit (excluding Power Unit, warranty coverage provided by respective engine manufacturer), found upon inspection and testing by a Factory Authorised Agent, or by the Factory at Keysborough, Victoria, to be defective in material or workmanship or both under normal operating conditions; this is the exclusive remedy. All transportation charges on parts submitted to the MANUFACTURER for replacement under this Warranty are the responsibility of the purchaser.

This Warranty shall not apply to any product that has been altered, modified, or operated in a manner not approved or recommended by the MANUFACTURER. Warranty will be null and void in the following circumstances: (1) repairs or attempted repairs have been performed by persons other than agents authorised by the MANUFACTURER; (2) repairs are required because of normal wear; (3) the unit has been subject to abuse or involved in an accident; (4) misuse is evident, such as that caused by an application that unit is not intended to perform.

The MANUFACTURER reserves the right to modify, alter, or otherwise improve any product or part.

The purchaser is responsible for the performance of regular maintenance services as specified in the operator manual applicable to the unit. Untimely and/or improper care and replacement of normal maintenance items (eg.: filters, belts, drive chains, blades, knives, lubricants) may void Warranty. Use of non genuine Red Roo parts may void Warranty.

THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO 14 DAYS FROM PURCHASE, AND TO THE EXTENT PERMITTED BY LAW ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. LIABILITY FOR CONSEQUENTIAL DAMAGES UNDER ANY AND ALL WARRANTIES ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW. RED ROO GROUP OF COMPANIES DOES NOT AUTHORISE ANY PERSON OR ENTITY TO CREATE FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS OR SERVICES. Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion of limitation of incidental or consequential damages, so the above limitation exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state."

Red Roo Sales & Service Company, P/L
James A. Kerr III
Managing Director

Warranty Period

All Equipment	Consumer Use* 365 Days	Commercial Use* 90 Days
---------------	---------------------------	----------------------------

* For the purposes of this warranty policy, "consumer use" shall mean personal residential household use by the original retail consumer. "Commercial use" shall mean all other uses, including use for commercial, income producing or hire purposes. Once a unit has experienced commercial use, it shall thereafter be considered as a commercial use unit for purposes of this warranty policy.

Proper registration of your Red Roo equipment is required to obtain warranty service. It is the responsibility of the original purchaser to register equipment within 10 days of purchase.

USE ONLY GENUINE RED ROO PARTS

safety

IS EVERYBODY'S BUSINESS

...now

You alone know the operational demands and special conditions affecting the equipment in your situation and therefore assume the responsibility for developing, carrying out, and enforcing the safety concepts which apply to your own operation to effect the greatest safety for yourself and the people around you.

 **RED ROO**™
Commercial Environmental Equipment