



DHS9-5 HYDRAULIC POST HOLE DIGGER

Operation, Safety & Maintenance Instructions



Online Demonstration Available at: www.redroo.com/products/rotaryhoe



INTRODUCTION

Congratulations! You have purchased a Red Roo Hydraulic Post Hole Digger. Properly maintained, it will give you years of reliable use. Operation is safe and easy if the operational instructions in this manual are adhered to.

Red Roo Hydraulic Post Hole Diggers have been designed to withstand very difficult conditions. The power of the hydraulic drive motor combined with the design of the earth auger makes digging holes much easier.

The Red Roo Hydraulic Post Hole Digger utilizes leading edge design technology and incorporates precision engineered componentry. This helps ensure ease of operation, maintenance and 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. Please remember to operate the machine responsibly and safely.



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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

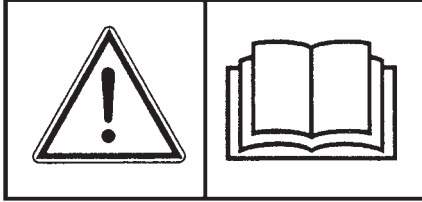
Outside Melbourne Metro: Tel.: 1300 133 767 Fax: 1300 133 757

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	 High Pressure Fluid	 Explosion	 Don't Refuel Hot Engine	 Check Before Digging

SAFETY FIRST – Stay Alert, Do Not Get Hurt



Read this section before use!

The DHS Hydraulic Post Hole Digger is designed to dig holes in soil 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 Hydraulic Post Hole Digger. It is your responsibility to ensure that any individual who operates your Hydraulic Post Hole Digger have read and understood this manual.

Never use the Hydraulic Post Hole Digger for any other purpose than digging holes. 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 DHS 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 hydraulic post hole digger without first reading and understanding the safety precautions and operating instructions. **KNOW THE CONTROLS AND HOW TO STOP THE HYDRAULIC POST HOLE DIGGER QUICKLY IN AN EMERGENCY. RELEASE CONTROL LEVER TO STOP AUGER.**
- 2) **NEVER** allow children or untrained adults to operate the hydraulic post hole digger.
- 3) **ALWAYS** wear protective clothing when operating the hydraulic post hole digger. This includes, but is not limited to: safety glasses, hard hat, loose fitting gloves, steel capped boots and hearing protection. **NEVER** wear loose fitting clothing or jewellery when operating the hydraulic post hole digger. Keep all clothing away from moving parts. Items could become caught in the machine, resulting in injury.   
- 4) **ALWAYS** use hydraulic post hole digger in a well lit area.
- 5) **ALWAYS** make certain the hydraulic couplings are properly connected prior to starting the engine.
- 6)  **NEVER** operate hydraulic post hole digger on a slope that exceeds 15°. Digging holes on an incline is dangerous and not recommended.
- 7)    Police the area before digging. Remove any foreign objects in the digging 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.
- 8)  **DO NOT** allow other persons near the hydraulic post hole digger. It is up to the operator to keep bystanders and animals a minimum of 6 metres (18ft) away from the machine while in operation.
- 9) **NEVER** operate the hydraulic post hole digger when fatigued. **ALWAYS BE ALERT!** If you get tired while operating the hydraulic post hole digger, 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 hydraulic post hole digger under the influence of medication, alcohol or drugs.
- 10)  **ALWAYS KEEP YOUR HANDS, FEET AND BODY AWAY FROM THE AUGER WHILE THE MACHINE IS IN USE.**
- 11) **DO NOT** leave the machine unattended while the engine is running.
- 12) **DO NOT** overspeed the engine or alter the governor settings. Excessive speed is dangerous and will shorten engine life.
- 13)  **WARNING:** Keep away from exhaust muffler during or soon after operation.
- 14)  **NEVER** operate the hydraulic post hole digger in an enclosed area. Engine exhaust contains carbon monoxide, an odourless and tasteless poison.
- 15)  **WARNING:** Hydraulic oil is under extreme pressure and can get under skin and burn or poison. Do not operate unit with leaking or faulty hose connections or worn, cut hydraulic lines.
- 16)  **STOP** the engine and disconnect the spark plug lead(s) and allow engine to cool before inspecting or performing maintenance on the hydraulic post hole digger.
- 17)  **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 near equipment.
 - * Allow no naked flame or hot material in refuelling area.
 - * Use only approved fuel containers and funnels. Remember, fuel is a potential hazard.
 - * Refer to engine owners manual for full details.

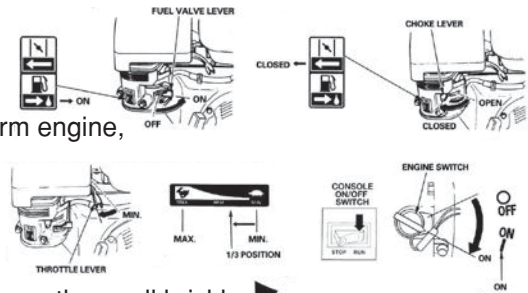
OPERATING INSTRUCTIONS

The Red Roo post hole digger has been designed to be a safe and efficient single person post hole digger. The operating instructions should be followed to ensure maximum safety and performance.

1.  Familiarize yourself with the machine and its controls.
2. The hydraulic post hole digger is designed to dig vertical and selected offset holes.
3. Make sure the fasteners are properly secured, hydraulic hoses properly connected, digger frame is completely assembled and forward & reverse control lever operates freely prior to use
DO NOT ATTEMPT TO START OR RUN ENGINE WITHOUT HYDRAULIC COUPLINGS CONNECTED. DO NOT DISCONNECT HYDRAULIC CONNECT QUICK COUPLINGS WHILE THE ENGINE IS RUNNING.
4. Auger Installation a) Remove shaft locking pin b) Insert Auger c) Replace shaft locking 'D' pin.


5. STARTING THE ENGINE:

- a. Move the fuel valve lever to ON position.
- b. To start a cold engine, move the choke lever or choke rod (applicable types) to the CLOSED position. To restart a warm engine, leave the choke lever or choke rod in the OPEN position.
- c. Move the throttle lever away from the MIN position, about 1/3 of the way toward the MAX position.
- d. Turning the engine switch to the ON position.



RECOIL STARTER

Pull the starter grip lightly until you feel resistance, then pull briskly. Return the starter grip gently.

6. **GETTING STARTED:** Push machine to the location of the first hole. Start engine and allow to reach operating temperature. Standing at the rear of the machine at the control handle. To begin digging a hole, pull the right hand side of the control lever. This will cause the auger to turn in a clockwise direction. Apply downward pressure to begin digging the hole. If dirt remains in the hole use an up and down motion to clear excess dirt. Release the control lever to stop auger. To reverse the auger rotation (counter-clockwise), pull the left hand side of the control lever.
7. The amount of force exerted will depend on the hardness and type of ground conditions.
8. Remember, the DHS is a single person operation, designed for earth drilling. There may be holes that will be extremely difficult, if not impossible, to drill.
9. If ground is too hard to drill or the auger is jamming on ground conditions or foreign objects (eg. wire, tree roots, etc.), the pressure relief will function, stalling the auger rotation. Clear auger and start again. The operator presence control will ensure quick stop if hand is removed from control lever.
NEVER TIE OR JAM LEVER INTO THE ON POSITION (FORWARD OR REVERSE). REVERSE (COUNTER CLOCKWISE) MAY BE REQUIRED TO UNSCREW JAMMED AUGERS.
10. Do not attempt to drill auger to full depth in one operation. Continually clearing the hole in an up and down motion will facilitate a much easier drilling operation. It may be necessary to clear cutters and auger flighting from time to time to ensure quicker and easier cutting.
11. Remember, as in drilling a hole in steel, one needs a sharp drill. Auger, teeth and pilot MUST be in good condition if the auger is to work correctly. See wear parts section for more information.
12.  Auger motor head assembly may be tilted as per incline when drilling on slopes.
DO NOT change the digger position during drilling.
DO NOT operate on a slope that exceeds 15°
13. **DO NOT** over reach. Ensure proper footing and balance when working with this machine.



WARNING! – KEEP HANDS AND FEET CLEAR OF ALL MOVING PARTS AT ALL TIMES!



WARNING! – KEEP HANDS AND FEET CLEAR OF EXHAUST MUFFLER DURING OR SOON AFTER OPERATION.

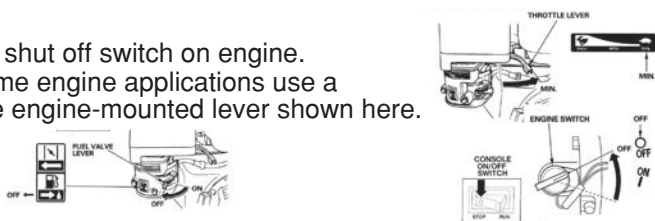
14.  **WARNING! – IN CASE OF DIFFICULTY, RELEASE THE CONTROL LEVER TO STOP THE AUGER. ALL DIGGING ACTION STOPS.** Press the engine "STOP" button located on the engine. (See illustration)

15.  **DO NOT OPERATE CLOSE TO EDGES OR EXCAVATIONS ETC. CHECK FOR ELECTRICAL AND GAS LINES BEFORE DIGGING**



16. STOPPING THE ENGINE:

Shut off switch on console should be used, not shut off switch on engine.

- a. Move the throttle lever to the MIN position. Some engine applications use a remote-mounted throttle control rather than the engine-mounted lever shown here.
- b. Turn the engine switch to the OFF position.
- c. Turn the fuel valve lever to the OFF position.



AFTER USE

- 1)  With the engine off, turn fuel tap to "OFF" position.
- 2)  Allow machine to cool down. Wash mud and dirt off of the hydraulic post hole digger. Ensure no water enters the carburettor.
- 3) Remove any objects that may have wrapped around the auger.

LUBRICATION & OIL CHANGE

1. Oil change intervals may be modified depending on actual operating conditions. Refer to Engine Manual.
2. Oil should be changed when warm. This will prevent the build up of sludge deposits. Flush interior or unit with fluid recommended by oil companies.
3. Check oil level at least once per month. If more than 10% of total oil capacity has to be added, check for oil leaks.
4. Use only the prescribed engine oil when refilling. Refer to Engine Manual.
5. **DO NOT** mix oils of different viscosity, not even those of the same brand.
6. **NEVER** mix mineral & synthetic oils.
7. Cleanliness is necessary when changing oil.
8. Hydraulic System capacity is 7.5L/1.6 gal. Use Castrol Hyspin 68 or equivalent quality hydraulic oil. Hydraulic fluid is to be checked visually by the sight glass on the hydraulic tank.

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 as 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.

AUGER MAINTENANCE

The auger teeth and pilot must be checked regularly and replaced with new wear parts. Failure to do so may damage the base plate and flighting (see diagram section). This will result in costly repairs to your auger.

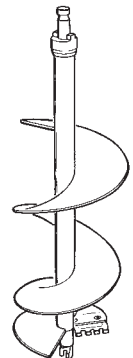
Ensure bolts are tight after replacing cutters. Retension after use if required.

Contact your Red Roo representative for replacement parts.

The DHS single person posthole digger is capable of operating a range of augers up to a maximum diameter of 350mm (14").

Red Roo AT-Series augers are available in 100mm (4"), 150mm (6"), 200mm (8"), 250mm (10"), 300mm (12") and 350mm (14") diameters. Tungsten carbide cutters and pilots are standard.

Extensions are available 500mm (20") and 1 metre (40") lengths.



AT Series Auger



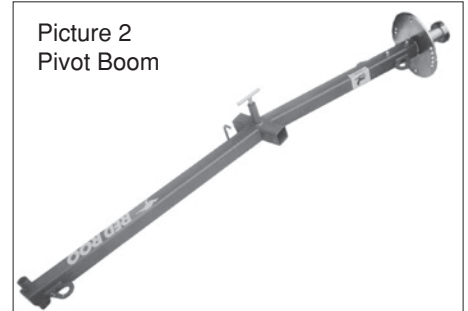
DHS9-5 ASSEMBLY

1. Check to ensure that all parts have been supplied. This includes power pack, main boom, t/bar axle, two wheels and handle assembly.
2. Check that all pre-assembled parts, bolts, hydraulic fittings, etc are tight and correctly installed.
3. Remove handle (as packed) (See Picture 6)
4. Remove t/bar axle and wheels (as packed) (See Picture 4).
5. Remove pivot boom (Picture 2), attach pivot boom to power pack (Picture 1) to achieve Picture 3.
6. Attach wheels to t/bar axle using locking pins. Attach t/bar axle to pivot boom using the spring loaded handle (See Picture 4 and 5).
7. Attach handle to pivot boom for final assembly (See Picture 7).
8. Connect hydraulic couplings from the power pack (Picture 1a) to the handle assembly (Picture 6a).
9. Check that the engine has oil and is filled with fuel. For engine operation and correct fuel and oil see engine manual supplied by engine manufacturer.
10. Check that the hydraulic oil tank is filled to the correct level. site glass is located externally on the hydraulic tank.
11. **DO NOT ATTEMPT TO START OR RUN ENGINE WITHOUT HYDRAULIC COUPLINGS CONNECTED.**
12. **DO NOT DISCONNECT HYDRAULIC CONNECT QUICK COUPLINGS WHILE THE ENGINE IS RUNNING.**
13. Do not subject hydraulic motor to severe load for the first hour of operation to ensure maximum life.
14. Ensure that, when you pull the hydraulic control lever on handle towards you, the auger turns in a clockwise or right hand rotation so as the teeth bite into the ground.
15. Ensure retaining clips, collars and pins are in place on both the boom and engine cradle. This will prevent unintentional disconnection of the unit.



Picture 1 – Power Pack

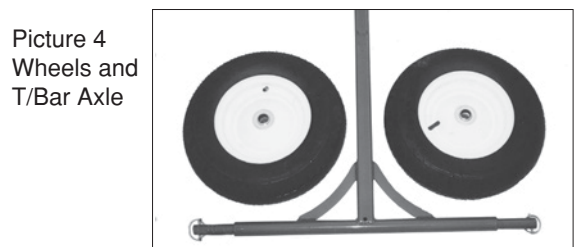
Picture 1a– Hydraulic Flat Face No Leak Coupling



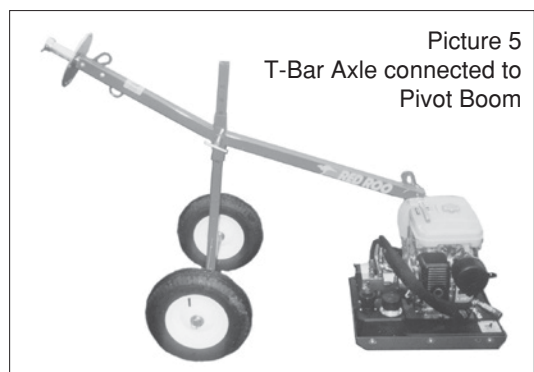
Picture 2
Pivot Boom



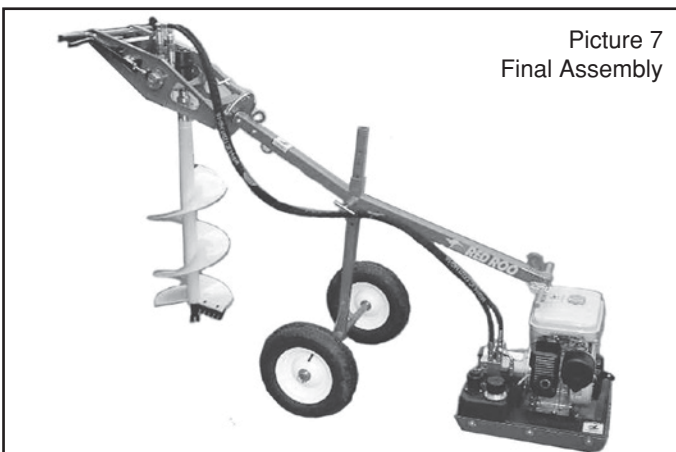
Picture 3
Pivot Boom connected to Power Pack



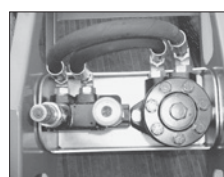
Picture 4
Wheels and T/Bar Axle



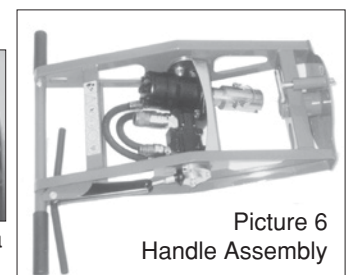
Picture 5
T-Bar Axle connected to Pivot Boom



Picture 7
Final Assembly

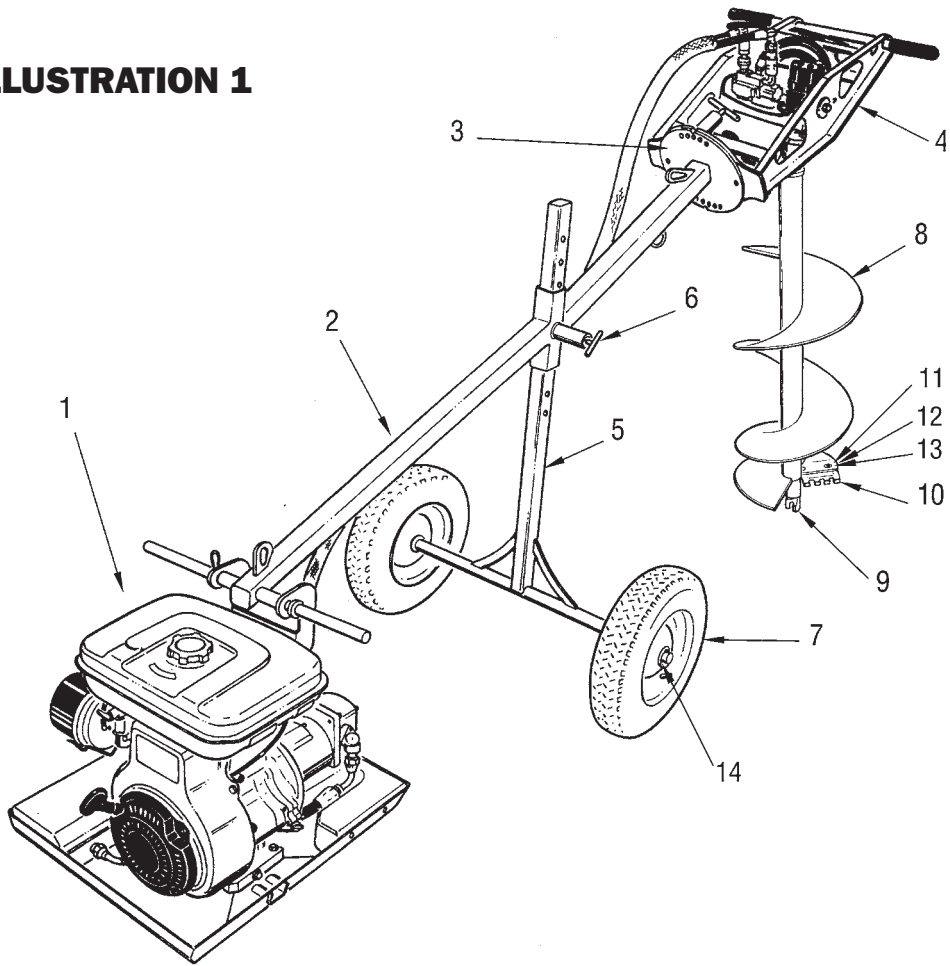


Picture 6a

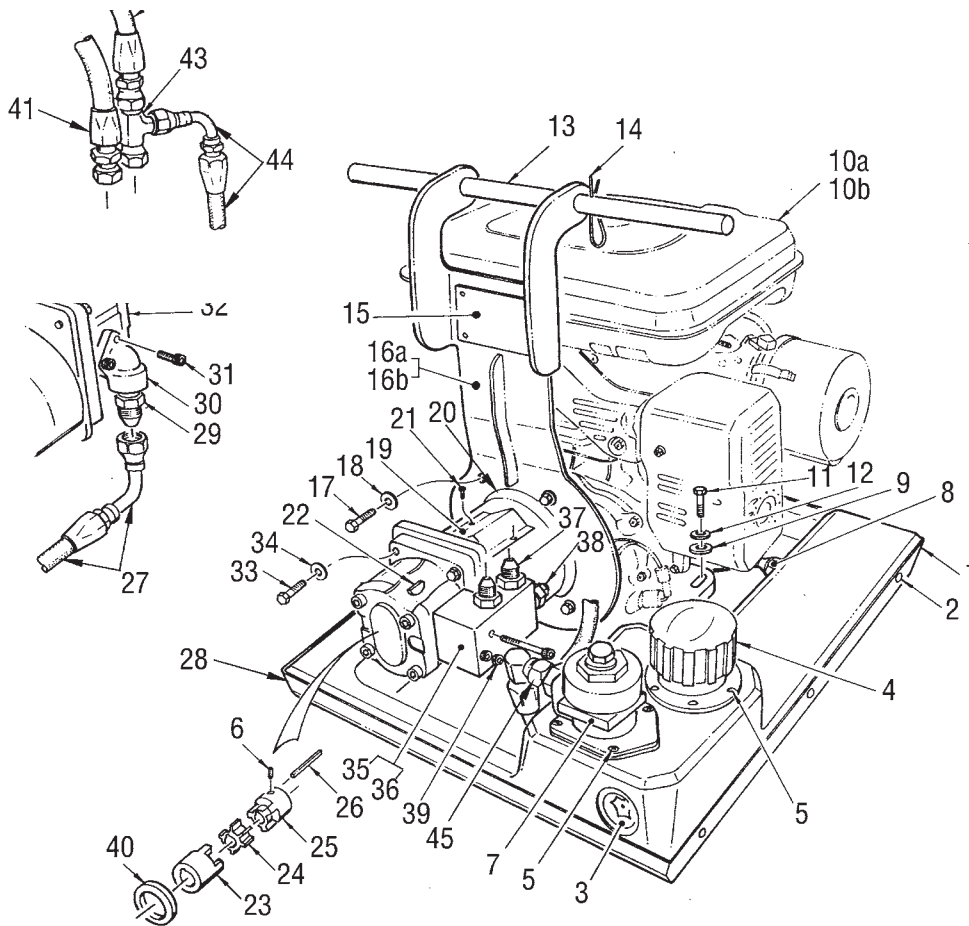


Picture 6
Handle Assembly

DHS9-5 ILLUSTRATION 1

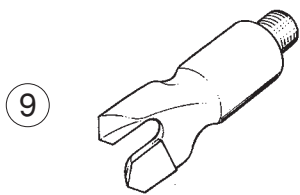


DHS9-5 ILLUSTRATION 2

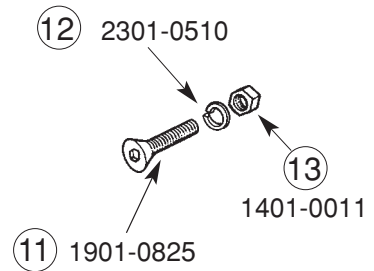
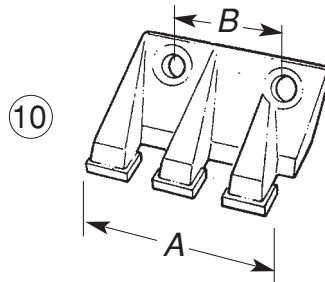


PARTS LIST FOR DHS9-5 ILLUSTRATION 1

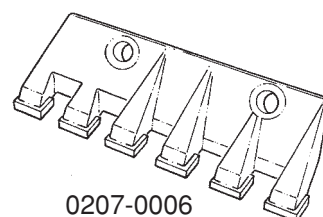
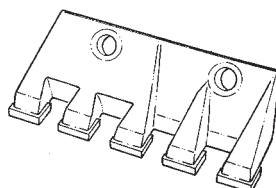
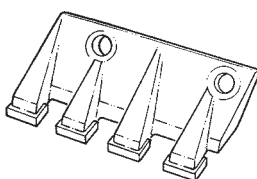
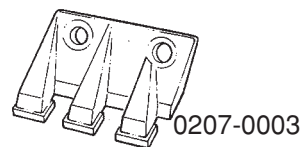
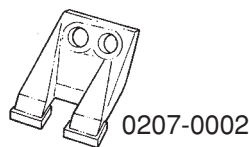
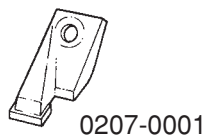
Item No.	Part No.	Description	Quantity
1	0503-0003	Engine	1
2	0605-0029	Boom, Frame	1
3	0806-0024	Stem, Boom	1
4	0605-0028	Handle, Main Assembly	1
5	0605-0021	Axle, T-Bar	1
6	1208-0004	Pin, Assembly	2
7	2305-0014	Wheel Assembly	2
8	AT-04	Auger 4" (100 mm)	
	AT-06	Auger 6" (150mm)	
	AT-08	Auger 8" (200mm)	
	AT-10	Auger 10" (250mm)	
	AT-12	Auger 12" (300mm)	
	AT-14	Auger 14" (350mm)	
9	0207-0007	Pilot, Tungsten	1
10	0207-0001	Blade, Tungsten 4"	
	0207-0002	5.0" Cutter	
	0207-0003	8.0" Cutter	
	0207-0004	10.0" Cutter	
	0207-0005	12.0" Cutter	
	0207-0006	14.0" Cutter	
11	1901-0825	Screw	2
12	2301-0510	Washer	2
13	1401-0011	Nut	2
14	1604-0012	Pin, Lynch	2



0207-0007 Pilot



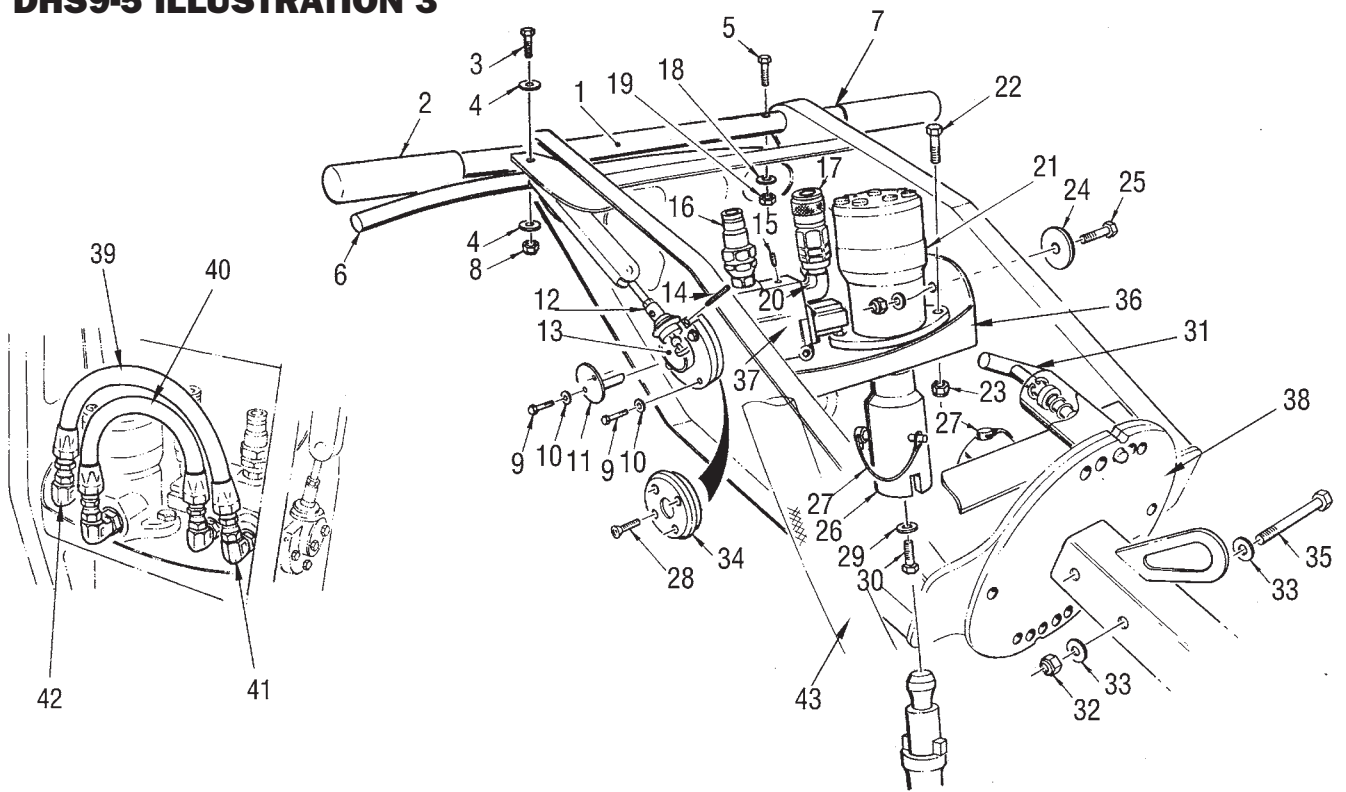
Part No.	Description	A	B	No of Tips
0207-0001	4.0" Cutter	28mm		1
0207-0002	6.0" Cutter	47mm	15.5mm	2
0207-0003	8.0" Cutter	81mm	48mm	3
0207-0004	10.0" Cutter	109mm	66mm	4
0207-0005	12.0" Cutter	135mm	66mm	5
0207-0006	14.0" Cutter	164mm	82mm	6



PARTS LIST FOR DHS9-5 ILLUSTRATION 2

Item No.	Part No.	Description	Quantity
1	0605-0031	Frame, Engine	1
2	1901-0616	Screw	5
3	0706-0007	Sight Glass	1
4	0303-0023	Cap, Hydraulic	1
5	1901-0037	Screw	10
6	1901-0021	Screw, Grub	1
7	0610-0034	Filter	1
8	0603-0005	Fitting	1
9	2301-0022	Washer	2
10a	0503-0003	Engine, Robin	1
10b	0503-0013	Engine, Honda	1
11	0209-0328	Bolt	4
12	2301-0006	Washer	4
13	1604-0039	Pin, Handle	1
14	1604-0040	R Clip	1
15	0401-0049	Serial Number Plate	1
16a	0802-0010	Lifting Hook, Robin	1
16b	0802-0011	Lifting Hook, Honda	1
17	0209-0320	Bolt	4
18	2301-0006	Washer	4
19	0704-0033	Cover	2
20	0806-0021	Bell Housing	1
21	0209-0031	Bolt	4
22	1102-0032	Key, Woodruff	1
23	0316-0006	Coupling, Pump	1
24	0702-0001	Spider	1
25	0316-0001	Coupling, Engine	1
26	1102-0002	Key	1
27	0812-0054	Hose	1
28	0603-0029	Plug	1
29	0603-0013	Fitting	1
30	0101-0006	Port Adapter	1
31	1901-0625	Screw, Cap Hex	3
32	1609-0002	Pump, Hydraulic	1
33	0209-0120	Bolt	4
34	2301-0004	Washer	4
35	1806-0012	'O' Ring	1
36	1306-0007	Manifold	1
37	0603-0016	Fitting	2
38	2201-0009	Valve, Relief	1
39	1901-0019	Screw, Cap Hex	3
40	1913-0048	Locator	1
41	0812-0043	Hose	1
42	0812-0044	Hose	1
43	0603-0019	Fitting, Tee	1
44	0812-0055	Hose	1
45	0603-0014	Fitting	1

DHS9-5 ILLUSTRATION 3



TROUBLESHOOTING

A. AUGER DOES NOT ROTATE OR ROTATING SLOWLY

1. Quick coupler not engaged properly – *Check quick couplers*
2. Quick coupler faulty – *Replace faulty coupler*
3. Hydraulic motor failure – *Call Red Roo service*
4. Change oil filter.

B. OIL LEAKAGE FROM INSIDE

1. Hoses or fittings leaking – *Tighten or replace*
2. 'O' ring failure – *Call Red Roo service*

C. OIL LEAKING FROM OUTPUT SHAFT

1. Oil Shaft Seal failure – *Call Red Roo Service*

D. DOES NOT DIG

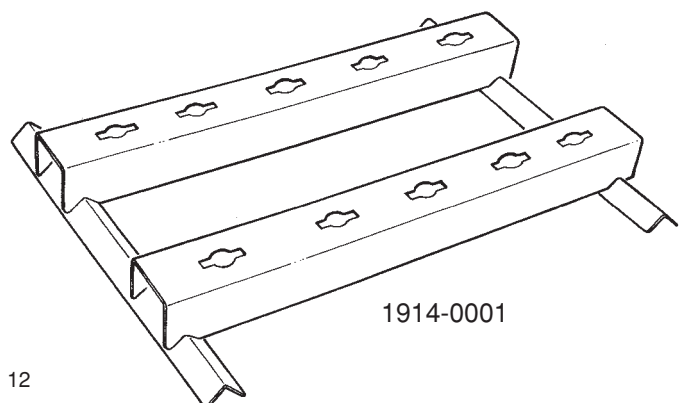
1. Worn teeth or pilot – *Replace*
2. Hole size too large for machine – *Replace with a machine able to do the job*
3. Ground too hard – *See manual*
4. Relief valve set too low – *Test and reset if necessary*
5. Hydraulic system overheated – *Turn off and wait*

E. AUGER BENT

1. Abuse – *Replace auger.*

AUGER STAND

The Red Roo auger Stand accommodates a complete range of augers from 4" (100mm) to 14" (350mm), and two extensions. The stand is numbered to easily identify the correct size of the auger



1914-0001

PARTS LIST FOR DHS9-5 ILLUSTRATION 3

Item No.	Part No.	Description	Quantity
1	0605-0028	Handle	1
2	0703-0002	Grip	2
3	0209-0127	Bolt	1
4	2301-0018	Washer	2
5	0209-0052	Bolt	1
6	0801-0011	Handle, F-H-R	1
7	0801-0014	Handle, Removable	1
8	1401-0023	Nut	1
9	0209-0032	Bolt	5
10	2301-0506	Washer	5
11	0314-0016	Cover	1
12	1201-0050	Shaft	1
13	0214-0094	Bracket	1
14	1604-0041	Pin, Dowel	1
15	1901-0808	Screw, Grub	1
16	0316-0010	Coupler, QC Male	1
17	0316-0011	Coupler, QC Female	1
18	2301-0003	Washer	1
19	1401-0008	Nut	1
20	0603-0025	Elbow	1
21	1305-0002	Motor	1
22	0209-0519	Bolt	2
23	1401-0053	Nut	3
24	2007-0002	Trunnion/Bushing	1
25	0209-0515	Bolt	1
26	0806-0007	Hub	1
27	1604-0014	Shaft Locking Pin	2
28	1901-0020	Screw	4
29	2301-0004	Washer	1
30	0209-0820	Bolt	1
31	1208-0004	Pin Assembly	1
32	1401-0034	Nut	2
33	2301-0024	Washer	4
34	2007-0003	Trunnion Shoe	1
35	0209-0329	Bolt	2
36	0308-0002	Cradle, Hydraulic Motor	1
37	2201-0008	Directional Control Valve	1
38	0806-0024	Hub, Radial Location	1
39	0812-0057	Hose	1
40	0812-0056	Hose	1
41	0603-0009	Elbow	2
42	0603-0026	Elbow	2
43	0704-0045	Hose Sleeve	1

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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
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* 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.

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...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.

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Commercial Environmental Equipment