DIAMOND
PRODUCTS
CONCRETE SAW
PARTS LIST &
OPERATING MANUAL
MODEL CC1700
CRACK CHASING SAWS

April 2012

Part Number: 1801722

Proposition 65
State of California

Warning !

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

Notification of Spark Arrester Requirement for State of California

It is a violation of Section 4442 or 4443 to use or operate the engine on any forest-covered, brush-covered, or grass-covered land unless the engine is equipped with a spark arrester, as defined in Section 4442, maintained in effective working order or the engine is constructed, equipped, and maintained for the prevention of fire pursuant to Section 4443.

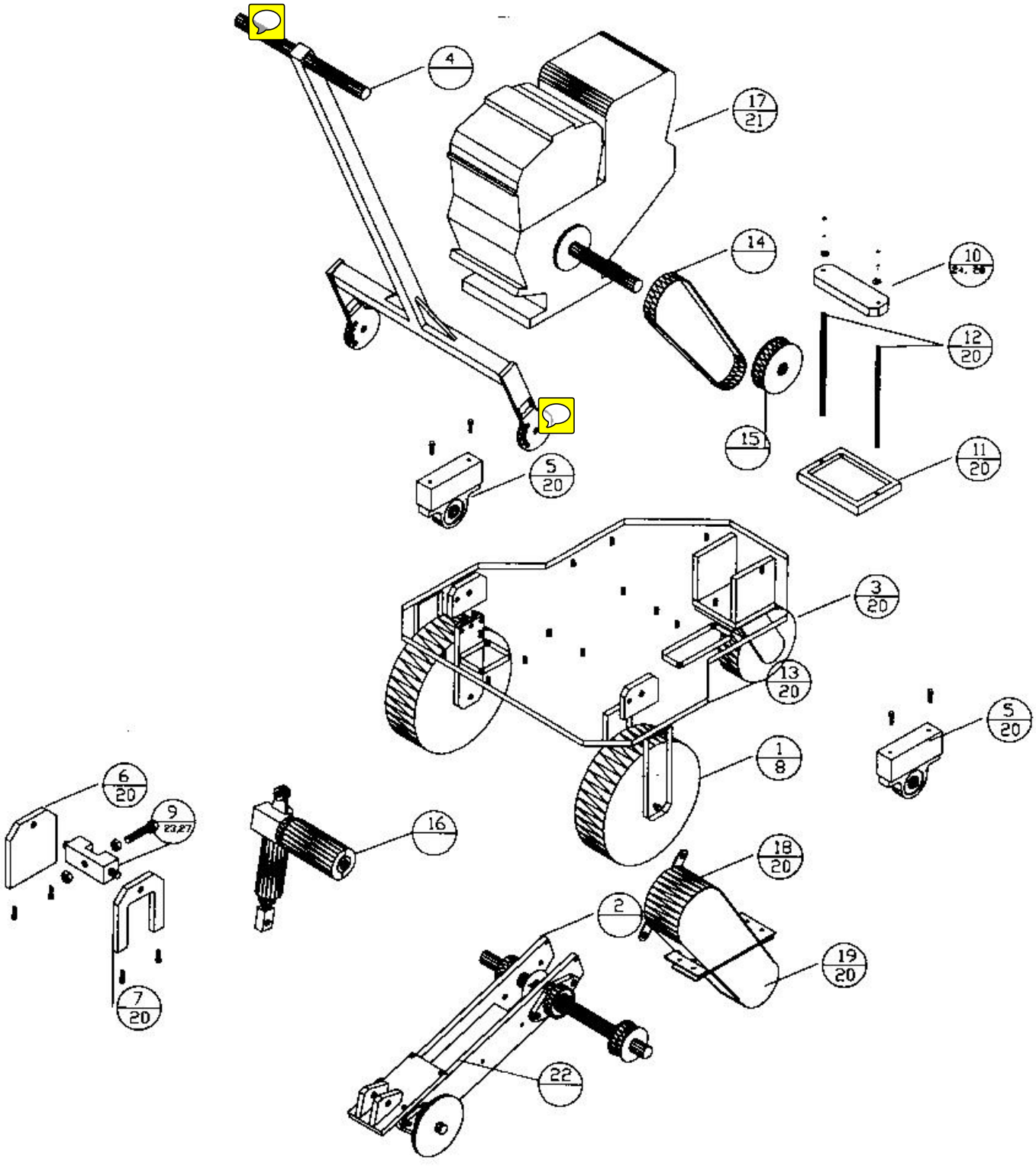
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Quick Reference Service Filters/ Belts

DP Part No.	Description	Manufacturer's Part No.
2706504	Air Filter for 13.5-HP Robin	Robin 267-32603-07
2501211	Pre Cleaner for 22.0-HP Robin	P821575
2501212	Safety Filter for 22.0-HP Robin	P822858
2706506	Oil Filter for 22.0-HP Robin	Robin 248-65801-00
2706507	Spark Plug for 13.5-HP Robin	NGK BPR4EY
2706508	Spark Plug for 22.0-HP Robin	NGK BPR6ES
2500034	Engine Belt for 13.5-HP Robin	Gates 3VX315
2501098	Engine Belt for 22.0-HP Robin	Gates BX28

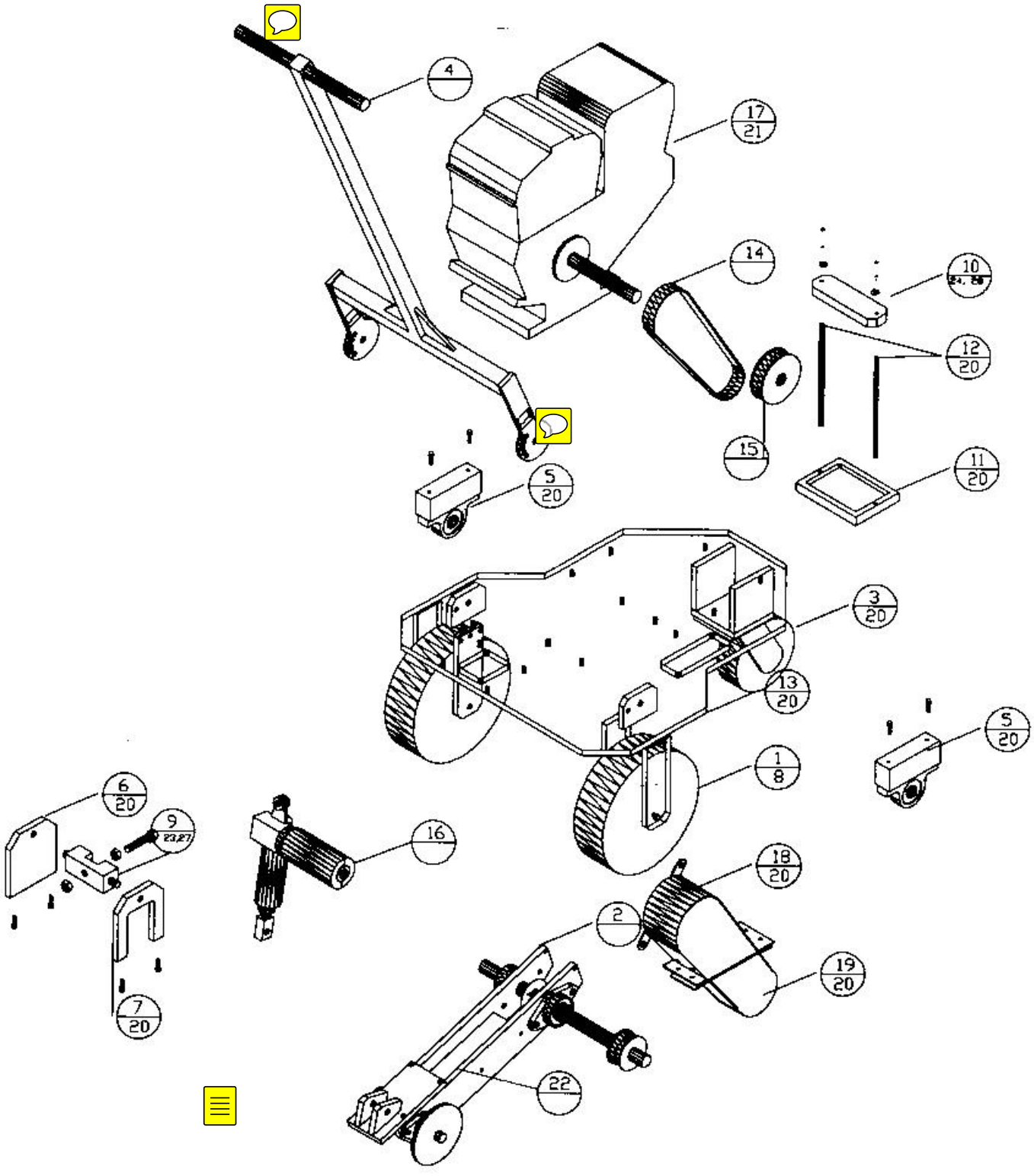
5802266 – CC1714R Crack Chasing Saw



5802266
CC1714R Parts List

Diagram Number	Part Number	Quantity Required	Description
1	6043616	2	Front Wheel Assembly
2	6043617	2	Carraige Assembly
3	6043618	1	Rear Wheel Asembly
4	6043619	1	Handle Assembly
5	6043620	1	Carraige Pivot Assembly
6	6043621	1	Outboard Lifting Bracket
7	6043622	1	Inboard Lifting Bracket
8	6043623	2	Front Wheel Axle
9	6043624	1	Lifting Motor Swivel Bracket
10	6043625	1	Battery Tray, Lower
11	6043626	1	Battery Tray, Upper
12	6043627	2	Battery Hold Down
13	6043628	1	Base Plate Assembly
14	2500034	3	Belt, Engine
15	6043630	1	Engine Pulley and Bushing
16	6043631	1	Actuator
17	2600671	1	Engine: Robin 12HP
18	6043632	1	Belt Guard, Upper
19	6043633	1	Belt Guard, Lower
20	2902978	xx	1/4-20 x 3/4 UNC SHCS
21	2900233	4	5/16-10 x 1-1/2 SHCS
21	6043634	1	Blade Guard
22	6043635	1	Belt, Blade Shaft
23	2900810	1	1/2-13 x 2-1/2 Hex Head Cap Screw
24	2900026	2	1/2-13 Nut
25	2900010	2	1/4-20 Nut
27	2900127	1	1/2" Flat Washer
28	2900126	2	1/4" Flat Washer

5802267 – CC1722R Crack Chasing Saw



5802267
CC1722R Parts List

Diagram Number	Part Number	Quantity Required	Description
1	6043616	2	Front Wheel Assembly
2	6043637	2	Carraige Assembly
3	6043618	1	Rear Wheel Asembly
4	6043638	1	Handle Assembly
5	6043620	1	Carraige Pivot Assembly
6	6043621	1	Outboard Lifting Bracket
7	6043622	1	Inboard Lifting Bracket
8	6043623	2	Front Wheel Axle
9	6043624	1	Lifting Motor Swivel Bracket
10	6043625	1	Battery Tray, Lower
11	6043626	1	Battery Tray, Upper
12	6043627	2	Battery Hold Down
13	6043628	1	Base Plate Assembly
14	2500034	3	Belt, Engine
15	6043640	1	Engine Pulley and Bushing
16	6043631	1	Actuator
17	2600672	1	Engine: 22HP Robin
18	6043641	1	Belt Guard, Upper
19	6043642	1	Belt Guard, Lower
20	2902978	xx	1/4-20 x 3/4 UNC SHCS
21	2900233	4	5/16-18 x 1-1/2 SHCS
21	6043643	1	Blade Guard
22	6043644	1	Belt, Blade Shaft
23	2900810	1	1/2-13 x 2-1/2 Hex Head Cap Screw
24	2900026	2	1/2-13 Nut
25	2900010	2	1/4-20 Nut
27	2900127	1	1/2" Flat Washer
28	2900126	2	1/4" Flat Washer

Operation of the CC1700 Crack Saw does not require an experienced operator but simply a person who is familiar with concrete and asphalt crack repair.

Refer to the helpful hints contained in this manual with regard to Operator Safety, Saw Safety, Work Area Safety and Blade Safety.

OPERATING INSTRUCTIONS

Make sure the blade is not touching the surface of the ground before starting the engine.

Start the engine by turning the fuel valve by the carburetor on the side of the engine to "On".

Move the engine throttle lever 1/3 of the way to the open position.

Close the engine choke lever.

Closed choke position enriches the fuel mixture for starting a cold engine. The "Open" choke position provides the correct fuel mixture for operation after the engine starts or for restarting a warm engine.

Start the engine by turning the key to the start position and releasing when the engine comes to life. After the engine starts, slowly close the Choke lever and allow the engine to warm for a few minutes.

Open the engine throttle lever to the full position for maximum engine speed which has been set at the factory at 3,600 rpm.

Lower the blade into the cut using the switch located on the top of the handle. When the blade is at the correct depth start pulling the Crack Saw towards you widening the crack as needed. The depth indicator will show the approximate depth of cut but as the blade wears you will need to readjust the depth.

When the crack chasing is completed, raise the blade out of the cut to the full park position using the switch on the top of the handle.

Move the engine throttle lever to the full closed position and turn the engine switch to the "Off" position.

ALWAYS MAKE SURE THAT THE PATH WITHIN THE DUCTWORK WHICH CARRIES THE DUST AND GRINDINGS AWAY FROM THE SAW CUT BEING GENERATED ARE THOROUGHLY CLEANED SO AS TO NOT IMPEDE THE PASSAGE OF THE GRINDINGS BEING GENERATED.

Blade Installation

Remove the two screws holding the blade guard to lower assembly. Install correct blade and replace blade guard by tightening the two mounting screws securely. Check to make sure the blade does not rub any part of the guard. Adjust if necessary before starting the unit.

MAINTENANCE

Keep your CC1700 Crack Saw in good condition and you can expect years of life from it. You should schedule maintenance as follows:

Check all bolts, nuts, guards, and air filter daily.

Thoroughly clean the engine, the outside of unit and inside of blade guard daily.

Replace the engine air cleaner every 25 hours.

Replace the engine oil every 50 hours.

Check the blade drive belt, battery, and blade shaft bearings every three weeks.

Grease blade shaft bearings and any parts that contact each other daily.
Refer to the Engine Owners Manual for all additional maintenance requirements.

SOME ADDITIONAL TIPS FOR MAXIMIZING THE VALUE OF YOUR CC1700 CRACK SAW

1.) *ALWAYS* use steady pressure on the unit. Allow the diamond blade to do the work. Trying to cut faster than the blade wants to cut will only un-necessary wear.

2.) *GENTLY* lower the blade into the crack when starting. NEVER allow the blade to just drop onto the crack.

3.) *ALWAYS* use Diamond Products blades for best results. Our experience allows us to recommend the best blade for every job!

SAFETY WARNINGS

WARNING: Failure to comply with the following could result in serious bodily injury or even death

PERSONAL SAFETY

- Read and understand instructions before operating saw.
- Know how to stop the saw quickly in case of emergency.
- Wear boots with non-slip soles to provide proper footing.
- Always wear safety approved hearing, eye, hand and respiratory protection.
- Keep all parts of your body away from blade and other moving parts.
- Use caution when loading and unloading saw. Always turn off engine.
- Stay alert. Use common sense. Do not operate the saw when tired or after consumption of any substance that would impair physical function or rational judgment.
-

SAW SAFETY

- All safety guards must be in place before starting the engine.
- Do not alter the saw. Any alteration or modification may result in a dangerous condition.
- Do not leave saw unattended while the engine is running.
- Only operate the saw from behind the machine with both hands on the handle.
- Do not use damaged blades, guards or personal equipment. Do not disable safety equipment switches.
- Do not operate equipment if there is a fuel leak.
- Use extreme caution when maneuvering saw on ramps or loading from trucks or trailers.
- Use only Diamond Products replacements parts
- Remove the ignition cable from spark plug before performing saw maintenance or changing blades to prevent accidental engine starting.
- Remove all tools from the saw before starting.
- When the saw is not in use or when being transported, remove the blade. Properly secure the saw to prevent uncontrolled movement.

BLADE SAFETY

- Examine cutting blades before each use. Do not use any blade that has cracks, nicks, or flaws. The arbor hole should be undamaged. Use only dry cut Diamond Products Blades made for cutting green concrete.
- Diamond Products Blades are designed to only cut uncured concrete. Cutting any other material may result in blade failure or a dangerous condition.
- Inspect blade flanges for damage, excessive wear and cleanliness before mounting the blade. The blade should fit snugly on a clean undamaged arbor shaft.
- Never operate the saw without the FlatTrac assembly securely in place and in working order. A damaged blade must be replaced to protect the operator.
- Make sure the blade or the FlatTrac wheels do not make contact with the ground or any other surface when maneuvering the saw.
- Avoid contacting the blade while it is rotating.
- Never run the saw with a mounted blade without the blade guard securely attached.
- Use only Diamond Products Blades.

WORK AREA SAFETY

- Keep visitors, children, animals and Soff-Cut™ saws out of the area.
- Observe all safety regulations for the safe handling of fuel. Gasoline is extremely flammable and its vapors can explode if ignited. Do not refuel in poorly ventilated areas. Shut off engine and allow to cool before refueling. Wipe the saw dry if fuel is spilled on it. Do not smoke while refueling.
- Do not operate the saw while smoking or near an open flame.
- Do not operate the saw in areas of combustible material or fumes. Sparks may occur from the saw that could cause a fire or explosion.
- Operate only in well ventilated areas. Engine exhaust contains carbon monoxide which can cause loss of conscious and possible death.
- The muffler and engine become very hot during operation. Keep all body parts and foreign material away from the engine while running.
- Do not expose to rain. Keep work area well lit and clean.

Model Number – CC1700

Materials Cut – Cured concrete and asphalt.

Blade Type – 6” diameter 0.25” to 0.75” thick with patented Z Arbor.

Blade Rotation – Counter clockwise.

Blade Shaft Speed – 5400 rpm

Cutting Depth –1½” (38 mm) regardless

Dimensions – Handle Up Most Position – 43” x 24” x 50”

Handle Down Most Position – 62” x 24” x 29”

Engine – 13.5 HP (9.9 KW) Subaru Robin Model EH-41, air cooled, 4 cycle, single slant cylinder, overhead valve gasoline engine.

Recommended Engine Speed -3600 RPM

Fuel – Unleaded gasoline only with 87 octane rating or higher

Fuel Capacity – 1.85 Gallons (7 liters)

Oil – SAE 10W-30 viscosity detergent automotive type with API service class of SE or higher grade

Oil Capacity – 1.27 Quarts (1.2 liters)

Starting System	Manual recoil starter/Electric Start with automatic mechanical compression release and zero kick back
Air Filter	Cyclonic type
Oil System	Oil alert with automatic shutdown sensor
Muffler	Low Noise, exhaust deflector, spark arrestor
Emissions	Complies with EPA Phase 2 and CARB Tier II USA regulations
Cooling	Air Cooled with internal and external cooling fins
Cylinder	Aluminum with cast iron liner
Controls	Engine mounted manual throttle, choke and fuel shut off levers, mounted Key on/off/start switch

Blade Raise/Lower System – Electric actuated with switch on handle bar

Handle – Three position adjustable.

Weight – ~270 Pounds

Warning

Engine exhaust from this product may contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

TROUBLESHOOTING

ENGINE WILL NOT START

- Check if there is fuel in the tank and it is the correct fuel. Make sure there is no water in the fuel.
- Check if the fuel valve is turned to the “On” Position
- Check the kill switch is in the “On” Position
- Check that the spark plug wire is connected to the spark plug.
- Engine is flooded. Adjust the choke per the engine owner’s manual.
- Check that the choke is in the “on’ position for cold starts. Adjust the choke per the engine owner’s manual.
- Oil is too low. Engine is equipped with an oil alert system that will not let the engine start unless the engine oil level is within the correct range
- Check that the air filter is not dirty or plugged.
- Check that the blade shaft rotates freely and no concrete has built up in the blade guard.

ENGINE RUNS ROUGH, BACK FIRES OR CAN NOT REACH FULL SPEED

- Check if there is fuel in the tank and it is the correct fuel. Make sure there is no water in the fuel.
- Check for the correct oil level. Engine alert system may function intermittently if oil level is not within the correct range.
- Check that the air filter is not dirty or plugged.
- Check that the spark plug is properly gapped.
- Check that the throttle lever is properly set.

NOTES

NOTES & RECORDS

DATE	NOTE	BY

EQUIPMENT AND PARTS WARRANTY

Diamond Products warrants all equipment manufactured by it against defects in workmanship or materials for a period of one (1) year from the date of shipment to Customer.

The responsibility of Diamond Products under this Warranty is limited to replacement or repair of defective parts at Diamond Products' Elyria, Ohio factory, or at a point designated by it, of such parts as shall appear to us upon inspection at such parts, to have been defective in material or workmanship, with expense for transportation and labor borne by Customer.

In no event shall Diamond Products be liable for consequential or incidental damages arising out of the failure of any Product to operate properly.

Integral units such as engines, electric motors, batteries, transmissions, etc., are excluded from this Warranty and are subject to the prime manufacturer's warranty.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND ALL SUCH OTHER WARRANTIES ARE HEREBY DISCLAIMED.

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