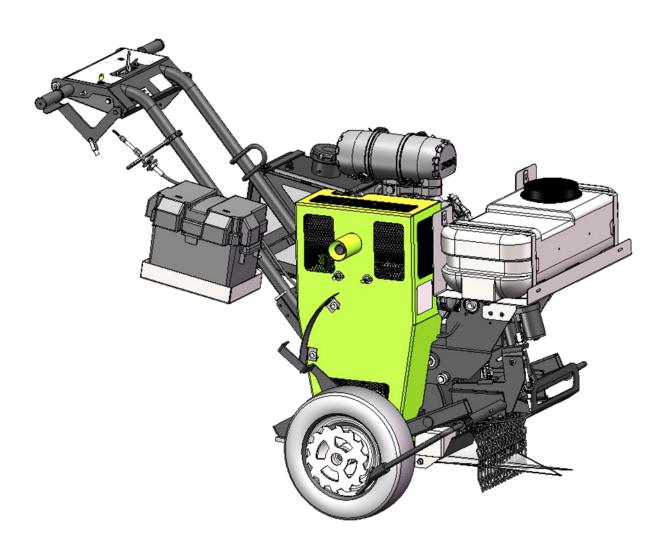


Pavement Crack Router Owner/Operators Manual



WARNING

Operating, servicing and maintaining this machine can expose you to chemicals including engine exhaust, which are known to the State of California to cause cancer and birth defects or other reproductive harm..

For more information, go to www.P65Warnings.ca.gov.

Signal Words in Manual

The signal words **DANGER**, **WARNING**, **CAUTION**, and **NOTE** are used to identify levels of hazard seriousness.



DANGER! Indicates a hazardous situation which, if not avoided, will result in death or serious injury



<u>WARNING!</u> Indicates a hazardous situation which, if not avoided, could result in death or serious injury



<u>CAUTION!</u> Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury



NOTICE: Is used to address practices not related to personal injury

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Shipping Papers and Information

A packet containing IMPORTANT INFORMATION has been enclosed with your R3. This packet contains:

- 1) Operation Instructions/Parts List
- 2) Warranty Information
- 3) Kohler Engine Documents

IMPORTANT: This manual contains the basic information required to operate, maintain and repair the CIMLINE R3 you have purchased. The use of this manual insures accurate adjustments, operation and proper lubrication of your equipment. Please keep it handy.

Any parts orders or service problems relating to CIMLINE equipment should be directed to the CIMLINE Parts Department at either (763) 557-1982 or (800) 328-3874. When ordering parts, please have the following information available.

Serial Number:	
Model Number:	R3
Engine Model (H.P.):	CH750
Engine Manufacturer:	Kohler
Belt Size:	Belt 4/3V/500 Pn 111647
Replacement Part Number(s):	

Personal Safety

OPERATOR MUST READ AND UNDERSTAND ENTIRE OPERATORS MANUAL BEFORE PROCEEDING. THIS PAGE ONLY PROVIDES AN OVERVIEW OF SAFETY INFORMATION



Cutting pavement can expose workers to crystalline silica dust. Workers must be trained so that they understand the hazards of silica dust and how to protect themselves. The R3 comes equipped with a with a water jet dust suppression system to limit exposer to dust. Always use the dust suppression system when cutting pavement.

The R3 can produce dust and flying debris. Operator and anyone working in close proximity to materials must always wear protective clothing.

Required clothing includes:



Long sleeve shirt with sleeves rolled down and cuffs buttoned.

· Long pants with no cuffs · Respirator

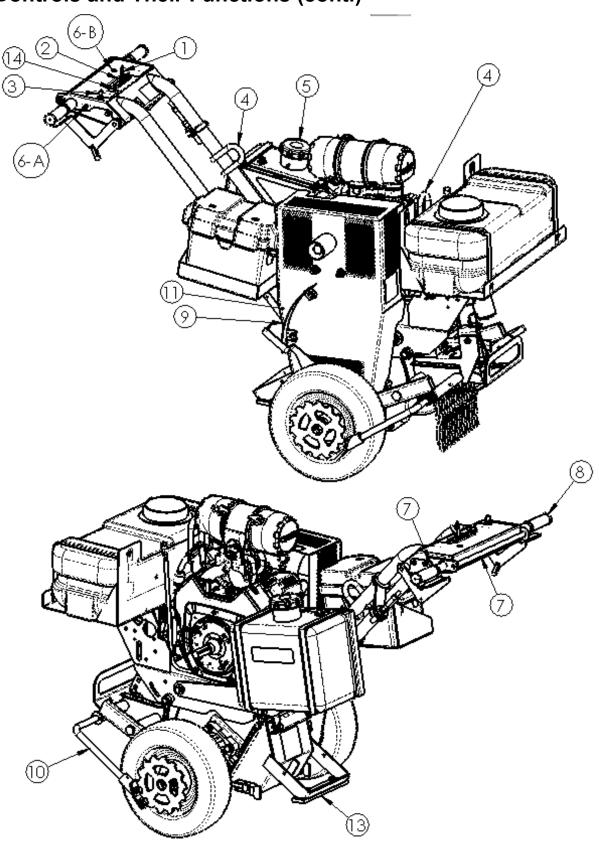
Safe Operation

- Never leave router unattended while the engine is running.
- The only operating position is behind the router with your hands on the handle.
- Do not use excessive force or side pressure during routing operations.
- Never stand on any part of the machine.
- Do not operate without safety cover on hose.
- Do not touch exhaust stacks or mufflers
- Verify brakes are engaging before towing (including brake-away switch)
- Remove objects from, and never stand in path of the router while starting or operating.
- Never allow another person to adjust or operate the controls while you are operating router.

Controls and Their Functions

- 1) **Choke knob** refer to starting instructions on pages 12 & 13.
- 2) **Throttle** refer to starting instructions on pages 12 & 13.
- 3) **Ignition switch -** refer to starting instructions on pages 12 & 13.
- 4) **Lifting brackets** Both lifting rings are needed for hoisting router. Be sure strap or chain used to hoist this machine has a minimum rating of 2000 pounds (1 ton).
- 5) **Fuel tank** use regular unleaded fuel, do not fill when engine is running.
- 6a) **Depth control switch** located opposite the engine kill switch on the handle, this switch raises and lowers the router via an actuator. Refer to page 9.
- 6b) **Depth Control Cut Potentiometer -** This keeps a predetermined depth on the actuator. Refer to page 9.
- 7) **Engine kill switch** the engine will turn over but not start with this switch in the "OFF" position.
- 8) **Handle** can be adjusted up or down to best suit the operator for maximum comfort. Behind these handles is the only place to operate this machine.
- 9) **Depth scale** this scale should be used for reference only. Many factors can change the accuracy of this scale, so it is always better to verify the depth of your cut with a hand held scale.
- 10) **Brake** use this to control machine if the cutters "grab" in hard cutting applications. It can be operated by releasing the fingertip control bar on the handlebar.
- 11) **Belt tension bolts -** used to apply belt tension. Refer to pages 14 & 15.
- 12) **Chip flap -** used to control flying debris. Inspect daily for wear.
- 13) **Skid plate** machine may be dragged on this plate to better control cut speeds.
- 14) Water Pump Switch switch to turn on pump for the water dust suppression

Controls and Their Functions (cont.)



Operating Sequence

The R3 router is operated by manually guiding the machine while walking backwards. Never force the machine through the crack while routing. The routing operation itself will move the machine. If the router starts to move too fast, push down on the handle and let the router ride on the skid plate. This will slow the machine down. Pushing harder will activate the brake for severe cutting applications.

NOTICE

This step by step procedure is only an outline. Refer to the page(s) indicated for complete instructions.

PROCEDURE:	PAGE	
1) Check fuel level, engine oil, air pressure in tires, drum bearings and air cleaner.	16	
2) Install router bits according to the instructions.	10-11	
3) Raise router bits above ground.	9	
4) Position router bits directly over joint to be routed.	9	
5) Start engine per engine operating instructions.	12-13	
6) Lower router bits according to instructions and begin routing.	9	
7) Guide router through the crack.	9	
WARNING Risk of Serious Injury to others from flying debris. Always cut away from other workers and traffic.		
	9	
8) At the end of joint, raise router bits.		
9) Shut off engine.	12-13	
10) Blow dust off machine and air filter.	16	

Depth Control Use and Adjustments

The router is raised and lowered by a 12 VDC ball screw actuator. No maintenance is required or recommended. The clutch mechanism is designed to ratchet when the unit is jammed at the end of the stroke. Avoiding this situation will greatly extend the life of the unit. The switch to raise or lower the router is located on the right side of the handle as shown in the picture.

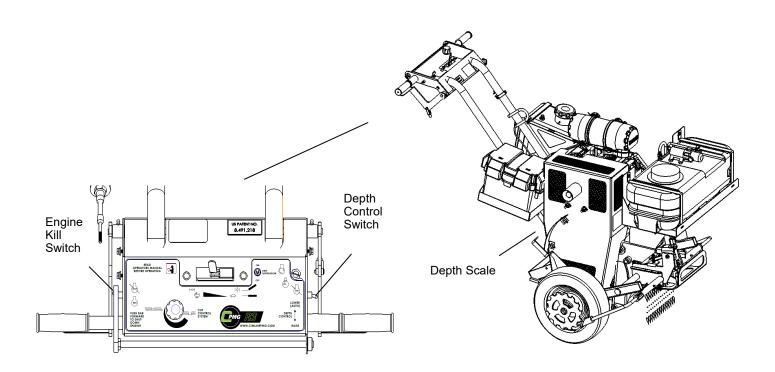
NOTICE

Before starting the engine to cut, be sure the router bits are above the ground, and positioned directly over the crack to be routed.

The power wire connected to the positive terminal of the battery is fused with a SFE 20 AMP automotive fuse, located with-in the battery box. **DO NOT EXCEED THIS RATING!**

The depth scale, located on the right hand side of the frame, can be adjusted to various depths. Due to cutter variance and wear, it is not recommended to use this scale as an accurate unit of measure. Instead lower the router into the crack the desired depth and run about a 12" pass, then turn the router off and measure the depth with a hand held ruler. Adjust depth scale accordingly to match desire depth.

The optional Cut-control system operates the depth by the potentiometer located on the control panel. With the potentiometer turned to the furthest clock wise position, push the depth control switch in the forward position. This will make the router rise up. Slowly turn the potentiometer counter-clockwise until the cutters are at the desired depth. The depth is now set. To return to same depth, place the depth control switch in the auto position. To raise out of the cut, pull the depth control switch toward the handle.



Router Bit Adjusting and Replacing

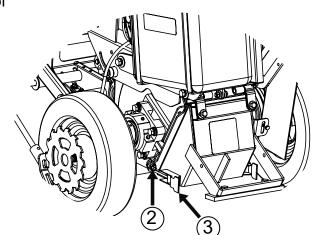


KEEP HANDS AWAY FROM ROUTER DRUM IF ENGINE IS RUNNING, ALWAYS SHUT ENGINE OFF AND ALLOW ROUTER TO COME TO A COMPLETE STOP.

To access router drum

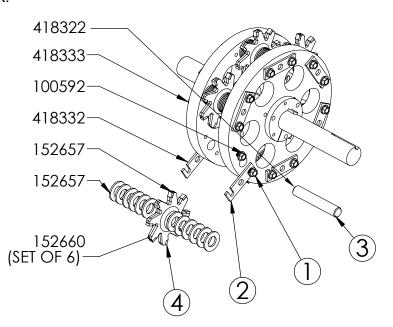
- 1) Raise drum off ground using depth control switch and tip router forward.
- 2) Remove the bolt from the left and right side of the drum guard
- 3) Release the yellow latches from bottom of drum guard
- 4) Lift the guard up to expose router drum

Note: Secure the guard in the open position to keep the guard from closing unintentionally during maintenance.



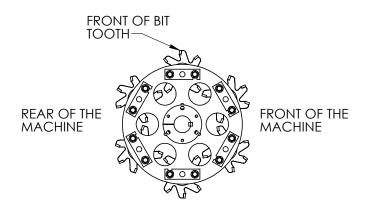
To remove, replace, or adjust router bits:

- 1) Loosen bolts on each side of router stack.
- 2) Rotate the retainer plate to gain access to router pin.
- 3) Tap out the router pin. This may be done with the pin driver provided.
- 4) Remove the router bits and washers.
- 5a) Replace with worn bits and hardware.
- 5b) Adjust location of bit by adjusting the spacers. (see next page)
- 6) Reassemble in reverse order.
- 7) Continue to next router stack and repeat.
- 8) Close and secure Drum Guard



Orientation of router bits:

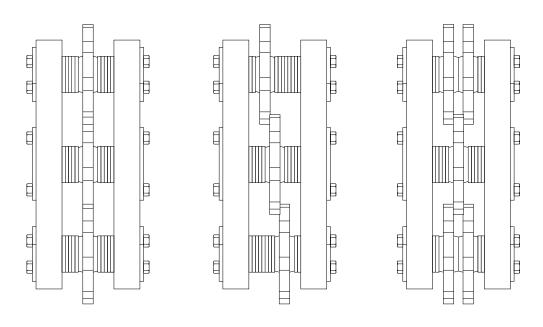
Mount router bits with cutting edge oriented to make contact with the ground first



Adjusting router cut width:

You can achieve different widths of cut by offsetting or stacking the router bits on the pins as shown in the diagram below.

NOTE: To prevent premature wearing of the router bits, it is important that you have enough spacers on the pins to make the bits fit snug, but still allow them to spin freely.



Starting the Engine



NEVER ATTEMPT TO START THE ENGINE WHILE THE ROUTER DRUM ARE IN CONTACT WITH GROUND. USE HEIGHT ADJUSTMENT CONTROL TO RAISE DRUM.

Engine Check List

- Check engine oil. Add oil if low.
- Check fuel level. Add fuel if low.
- Check cooling air intake areas and external surfaces of engine. Make sure they are clean and unobstructed.
- Check that the air cleaner components and all shrouds, equipment covers, and guards are in place and securely fastened.

Start up

- 1) Open fuel shut-off valve on fuel tank.
- 2) **Cold engine** Place the throttle control midway between the "slow" and "fast" positions. Place the choke control into the "on" position.

Warm engine (normal operating temperatures) - Place the throttle control midway between the "slow" and "fast" positions. Place the choke control into the "off" position.

3) Start the engine by activating the key switch. Release the switch as soon as the engine starts.



Do not crank the engine continuously for more than 10 seconds at a time. If the engine does not start, allow a 60 second cool-down period between starting attempts. Failure to follow these guidelines can burn out the starter motor.

4) For a cold engine - gradually return the choke control to the "off" position after the engine starts and warms up.

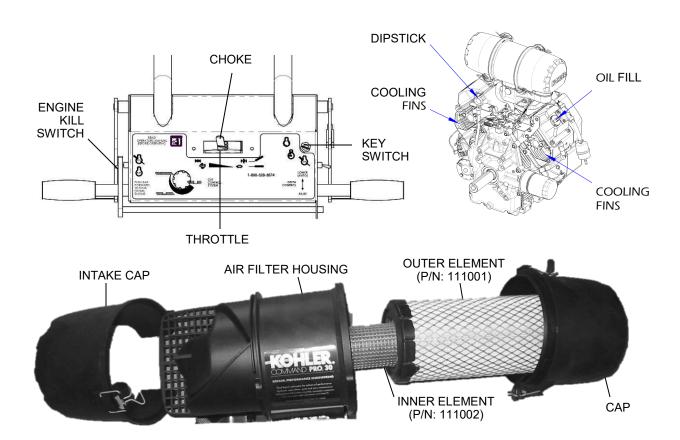
Starting the Engine

NOTE: Upon start up a metallic ticking may occur. This is caused by the hydraulic lifter leak down during storage. Run the engine for 5 minutes. The noise will normally cease in the first minute. If noise continues, run the engine at mid throttle for 20 minutes. If noise persists, take the engine to your local Kohler Service Outlet.

NOTE: If the engine develops sufficient speed to disengage the starter but does not keep running (a false start), the engine rotation must be allowed to come to a complete stop before attempting to restart the engine. If the starter is engaged while the fly wheel is rotating, the starter pinion and flywheel ring gear may clash, resulting in damage to the starter.

5) To stop engine, remove the load by raising the blade out of the cut. Move the throttle control to the "slow" or low idle position and run for 15 - 30 seconds. Move the throttle control or ignition switch to the "stop" or "off" position.

WARNING: Manufacturer sets engine RPM at 3600 to rotate the drum at 2032 RPM. Changing these settings could cause damage to the machine and possible injury or even death.



Maintenance



WARNING: Do not inspect when engine is running.

Engine: The operation and life of the engine depends on you and your operator. Do not start engine until the engine precheck is complete. The engine precheck consists of checking the oil, the fuel level, the air filter and greasing all grease points. The gasoline powered PCR-30 router is equipped with a Kohler 30 H.P. engine. Basic engine maintenance is shown in Table 1 on page 16. For more detailed information please refer to the Engine Operator Maintenance Manual and Warranty provided with your router.

NOTE: When breaking in a new router, run the engine for a minimum of 30 minutes with no load prior to actual use on the job.

Air cleaner: Due to the dusty conditions created by routing, it is essential to check the engine air cleaner element daily. Remove element and shake out the accumulated dust and dirt. Wipe out dirt from inside cover and from housing. Check engine manual for washing instructions. Cimline recommend stocking replacement filters.

Tires: For ease of operation, inflate tires to manufacturers recommendation of 60 PSI.

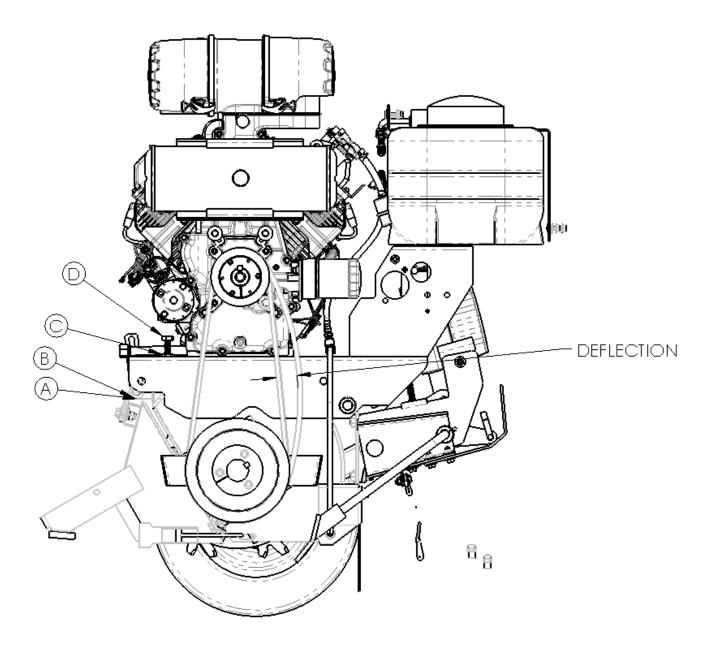
Drum Shaft and Wheel bearings: Bearings should be greased according to the maintenance schedule on page 16 of this manual.

Belt Tension Settings: Every 20 hours of operation, inspect belt tension. When tightening is required: (Refer to diagram on page 15).

- Remove beltguard.
- 2) Loosen securing bolts (A) and (B) and jamnuts (C).
- 3) Turn the belt tensioner bolt (D) clockwise until proper tension is achieved.
- 4) While beltguard is removed, check belt for wear, cracks, and other abnormalities. Replace if necessary.
- 5) Make sure the distance of the two tensioner bolts is within 1/8" of each other.
- 6) Secure jamnut and tighten securing bolts.
- 7) Replace beltguard and tighten bolts.

NOTE: BELT DEFLECTION FORMULA: 1/64" deflection per 1" measured from center of engine shaft to center of arbor shaft.

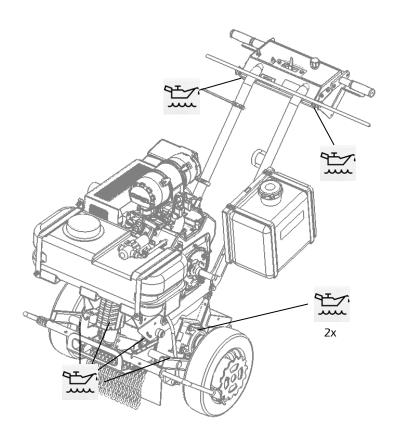
Maintenance



Maintenance Schedule

Maintenance Operation	Daily	50 Hours	100 Hours	200 Hours
Fill fuel tank	Х			
Check air pressure in tires	Х			
Check air cleaner	X			
Check air intake, clean if necessary	X			
Grease Drum Shaft Bearings	Х			
Grease brake bushings	Х			
Blow off engine	X			
Service air cleaner element		X		
Change oil			X	
Check spark plugs and breaker points			X	
Grease wheel bearings			X	
Check cooling systems and clean			X	
Change oil filter				X

Engine Oil: Use of high quality detergent oil of API (American Petroleum Institute) service class SF or SG. Select the viscosity based on the air temperature at the time of operation. For temperatures below 0° F., 5W-20 or 5W-30 oil is recommended. For temperatures above 0° F., 10W -30 or 10W-40 oil is recommended. Check your engine manual for other recommendations.



Drum Installation

The split drum system is used on your router. The drums (A) are attached to the drum shaft with standard Q.D. style tapered bushings (B). The bushings will not mar the shaft and can easily be removed. The dimensions listed should be maintained when installing a new drum. The 2-1/2" spacing is for use with the 5" long Cimline router pins.

NOTE: The pins must be inserted before tightening bushings to insure the two drums are in alignment. To simplify the assembly procedure, clamp two pieces of 2-1/2" tubing between the drums on opposite ends to maintain the proper spacing.

Tightening instructions when installing bushings:

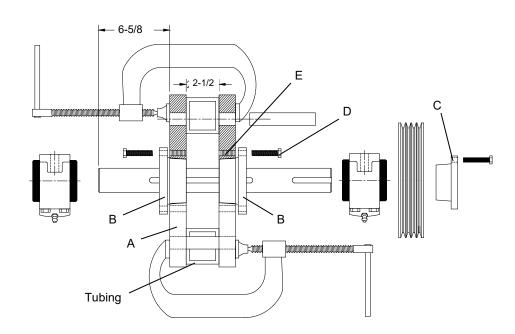
- 1) Assemble the Q.D. bushings (B) to the drum loosely. Be sure to install 3/8" key also.
- 2) Insert the (3) bolts (D) through the unthreaded bushing holes.
- 3) Align the bolts with the threaded holes (E) in the drum and screw them in three or four turns.
- 4) Tighten the (3) bolts sequentially until each unit is torqued to 360 in/lbs (30 ft/lbs).

NOTICE

A torque wrench must be used. Tightening the bolts to a torque higher than listed could lead to product failure.

NOTE: Bushing (C) used on the belt drive pulley should be torqued to 180 in/lbs (15 ft/lbs).

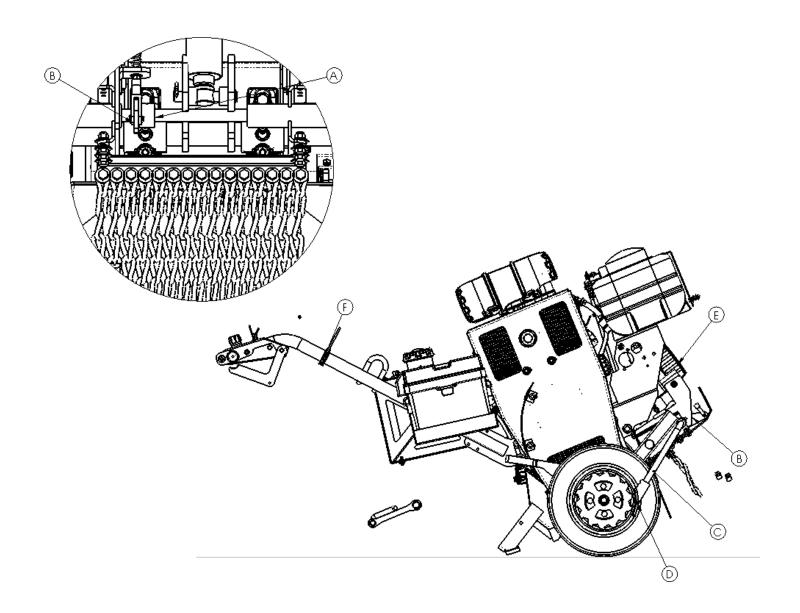
To remove bushing, loosen all bolts from the assembly. Install the bolts into the threaded holes of the bushing. Tighten the bolts sequentially until the bushing can be removed.



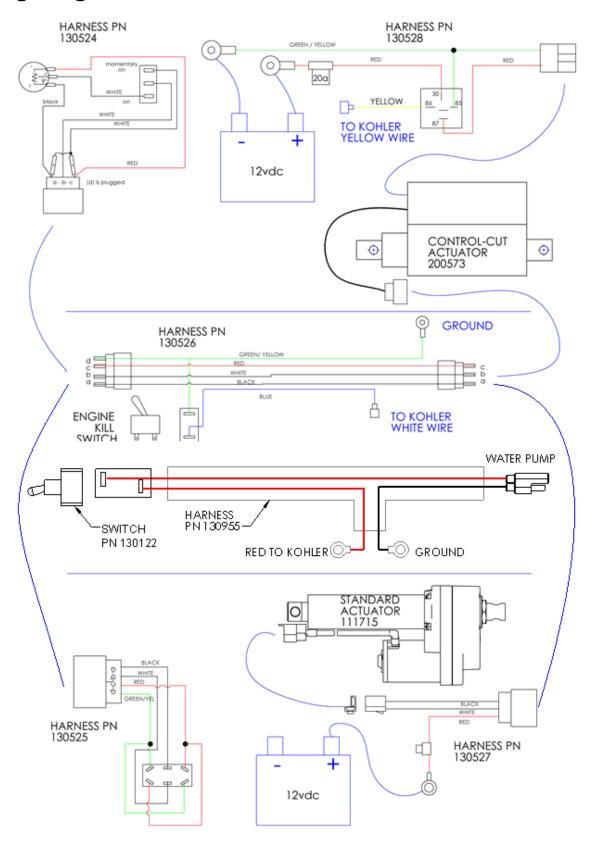
Brake Adjustment

To adjust the brake arms, raise the router using the actuator to the highest point and rest on the rear skid as shown. Loosen the dual set collar (A) and the spring tension ear (B) so that the brake arms (C) pivot independent of each other. By rotating the brake arm (C) up and rotating the wheel back, wedge the brake arm against brake disk (D). Do this for each side then tighten dual set collar (A) and spring tension ear (B). Make certain that both arms engage and disengage brake before operating.

To adjust travel of lever, loosen top cable ear (F) and slide up or down to increase or decrease the amount of lever travel.



Wiring Diagram



Water Dust Suppression

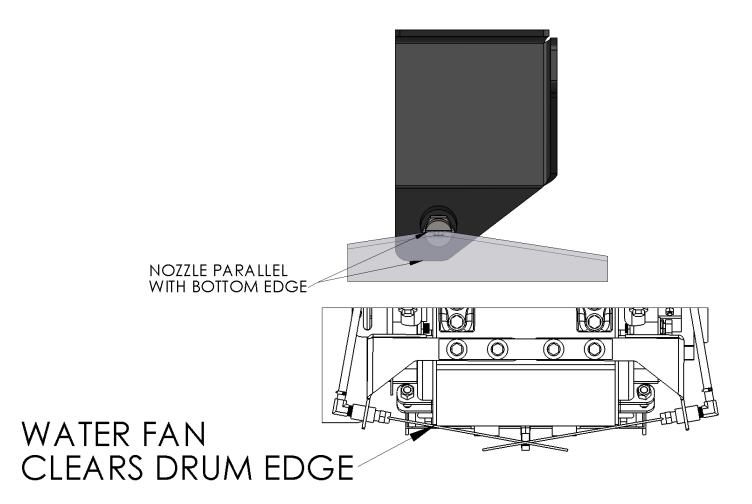
To reduce dust aeration, use the water dust suppression system. This system can run 25-45 minutes constant running before requiring refilling. This system includes

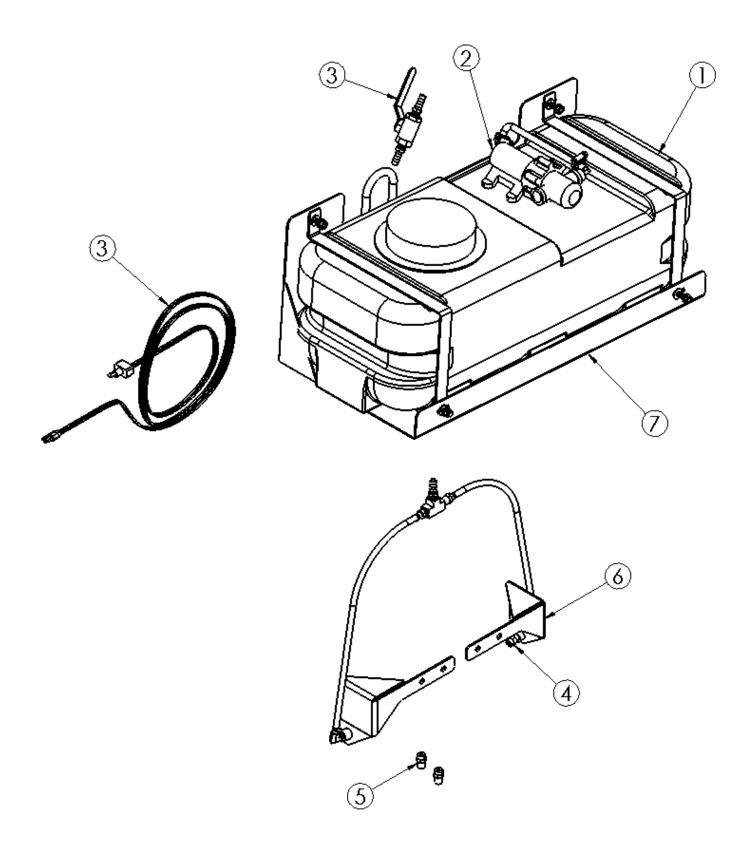
- 1. 10 gallon water tank (156183)
- 2. Water pump (156184)
- 3. Pump Switch (130955)
- 4. Nozzle 015 (121129)
- 5. Nozzle 020 (121130)
- 6. Nozzle mounts: Left (409681) Right (409682)
- 7. Shut off valve (120085)

The system comes with two sets of nozzles: 015 and 020. The standard is 015 and is for most cuts. For deeper and/or thickets cuts use 020. For maximum dust suppression, verify nozzles are orientated as shown below.

The systems is controlled by the Dust Suppression Switch on the handle bar. Before use, open shut off valve (7). During use this may be left open. After usage close off shut off valve to prevent any leaking or extra drainage from water tank.

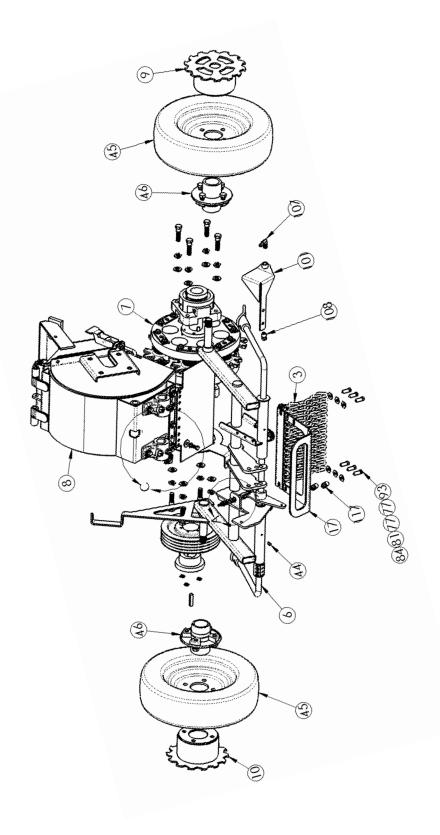
To clean out build up of dust inside the drum, leave water system on while bits are spinning and not cutting. Let this system run for 5 minutes to allow the drum and nozzles will be clean.

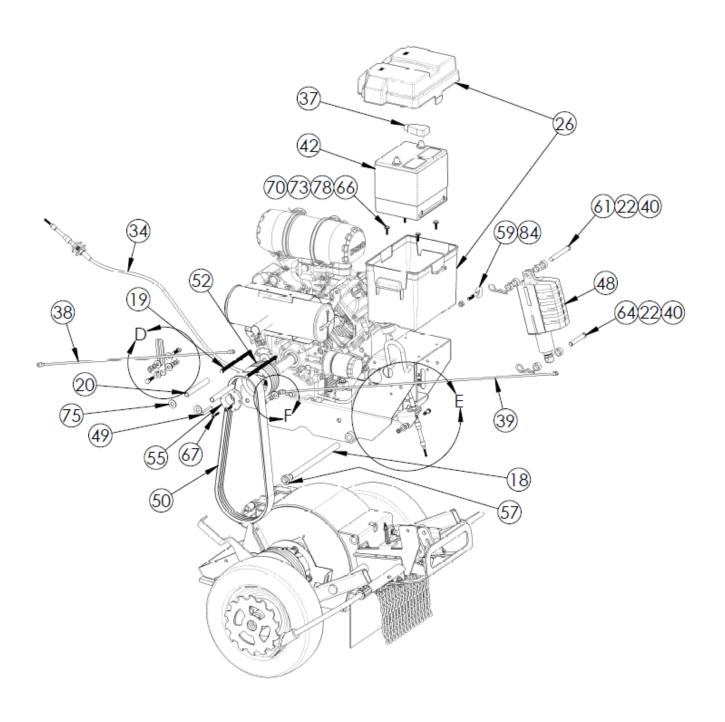


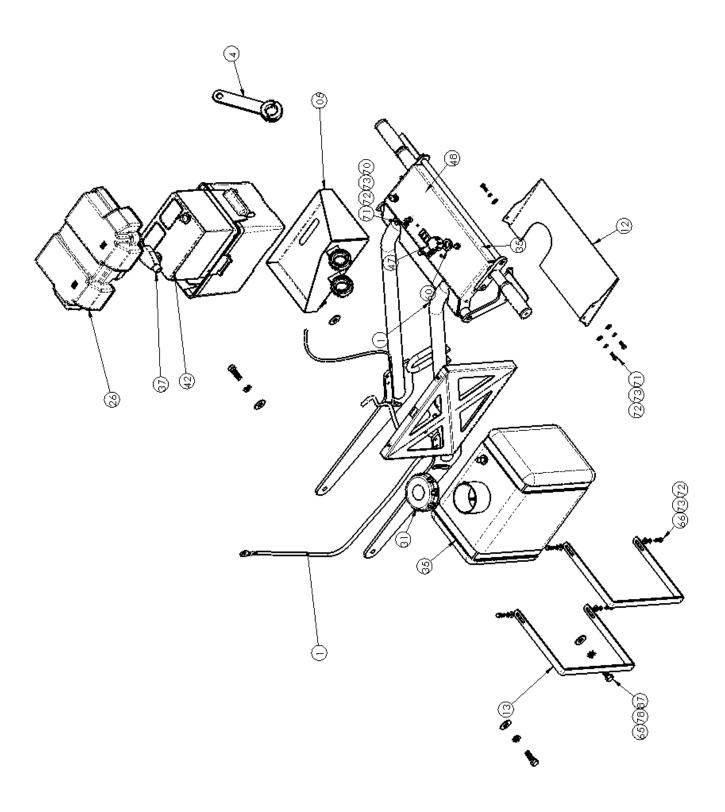


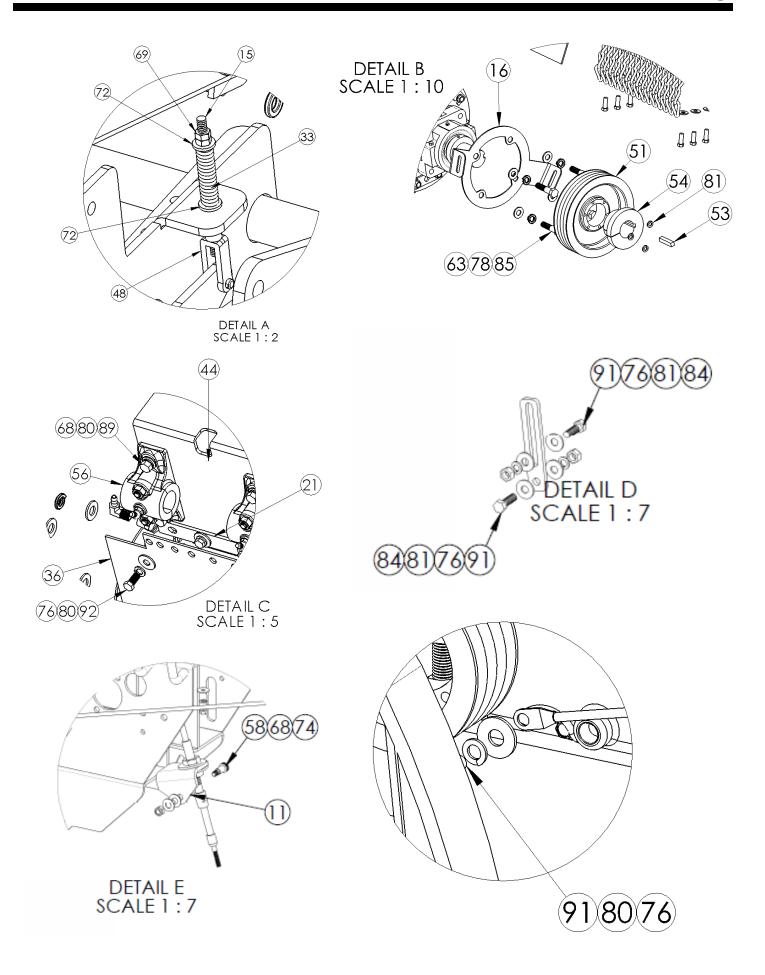
Parts Section

R3









R3 W/CUT CONTROL

#	PART #	DESCRIPTION
1	409318	HANDLE SUB-ASSY
2	409316	ENGINE SUBASSY
3	407590	CHAIN GUARD
4	407468	CABLE EAR
5	407446	BELT GUARD
6	407362	RAISE AND LOWER ASSY
7	407361	DRUM ASSY
8	407360	SHROUD WELD
9	407273Z	LH BRAKE HUB
10	407272Z	RH BRAKE HUB
11	428908	CABLE MNT
12	427317	REAR COVER - PCR30
13	427026	FUEL TANK STRAP
14	426652	GENERATOR ADJ BRKT
15	426646	ROD
16	426621	PLATE - BELT GUARD
17	426585	FRONT GUARD
18	426488	PIN
19	419567	STUD43 X 7.19
20	418835	PIPE
21	418377	FLAP RETAINER
22	418338	SPACER
23	418291	SKID BAR
24	418288	DEPTH SCALE
25	200573	CUT CONTROL ACTUATOR
26	200543	BATTERY BOX
27	161472	DECAL ROUTER PATENT
28	161381	DECAL SET PCR 30
29	161180	SN PLATE - CE
30	161179	DECAL - DB RATING
31	155433	CAP 3.5" RATCHETING 1 WAY VENT

^{*} Item 25 is 111715 for R3 Standard (301509)*

34	155066	CABLE-CONTROL	1
35	154917	THROTTLE AND CHOKE LEVER	1
36	152658	FLAP	1
37	152306	BATTERY INSULATOR	1
38	152216	CABLE- BATTERY - POS X 42	1
39	152007	CABLE- BATTERY - NEG X 29	1
40	150564	HAIRPIN COTTER-2.38 X .120	2
41	150225	HOSE CLAMP SIZE 4- NO.6204	2
42	150212	BATTERY 26/26R-50-WET	1
43	150099	ZERK GREASE .12 NPT X 45 DEG	2
44	150013	ZERK GREASE STR. 1/4-28UNF	3
45	140607	WHEEL	2
46	140606	HUB	2
47	130537	KNOB	1
48	130155	CLEVIS KIT	3
49	111714	KEY .38 X 2.25	1
50	111647	BELT 4/3VX500	1
51	110914	SHEAVE 4/3V/8.0	1
52	110781	SHEAVE 4/3V/4.5	1
53	110714	KEY .38 X 1.75 LG	1
54	110640	BUSHING SK 1.69	1
55	110636	BUSHING SDS 1.44	1
56	110611	SPLIT BEARING 1.25	2
57	110114	SET COLLAR 3/4	2
58	101139	SHOULDER BOLT	1
59	101138	BOLT-EYE	1
60	101043	WASHER - FELT .75	1
61	101020	CLEVIS PIN .50 X 4.50	1
62	100644	INSERT .25NC165	2
63	100526	WASHER-FLAT-SAE .50	8
64	100464	CLEVIS PIN50 X 3.5	1
65	100457	1/2"FLAT WASHER	4
66	100362	HHCS 1/4 X 1.00	10
67	100293	SHCS 1/4 X 1-1/4	3
68	100211	WASHER-FLAT-SAE .38	6

^{*} Items 47 & 60 are not used for R3 Standard (301509)*

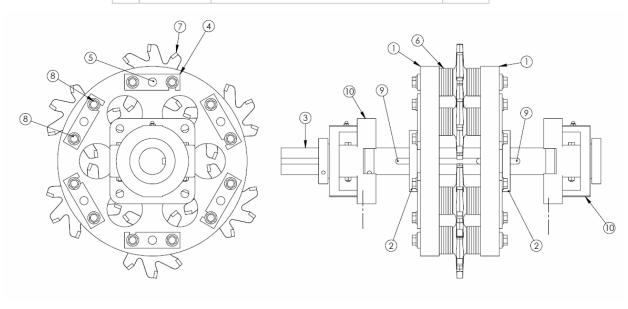
69	100207	.25 NUT	3
70	100206	NUT-HEX .25	4
71	100205	HHCS 1/4 X 3/4	7
72	100204	WASHER - FLAT SAE25	14
73	100203	WASHER-SPLITLOCK .25	13
74	100181	NUT-PLASTIC LOCK .31	1
75	100127	WASHER FLAT .44	4
76	100126	WASHER-FLAT .38	9
77	100125	WASHER-FLAT .31	14
78	100095	1/2" SPLITLOCK WASHER	14
79	100094	WASHER-SPLITLOCK .44	2
80	100093	WASHER-SPLIT LOCK .38	11
81	100092	WASHER-SPLITLOCK .31	17
82	100070	NUT- HEX .44	4
83	100069	NUT-HEX .38	4
84	100068	NUT-HEX .31	14
85	100035	HHCS .50 X 2.25	4
86	100034	HHCS 1/2 X 2	4
87	100032	HHCS .50 X 1.50	4
88	100030	HHCS .50 X .75	2
89	100018	HHCS .38 X 1.50	4
90	100017	HHCS .38 X 1.25	2
91	100016	HHCS .38 X 1.00	1
92	100015	BOLT, HEX 3/8-16 X 3/4	4
93	100006	HHCS .31 X 1.0	6
101	409681	LEFT NOZZLE MOUNT	1
102	409682	RIGHT NOZZLE MOUNT	1
103	409779	WATER TANK MOUNT	1
104	200645	WATER TANK	1
105	409683	BATTER TRAY	1
106	430634	TIE DOWN STRAP	2
107	120456	FITTING-BARB-BRASS-9025NPT25	2
108	121129	NOZZLE - 110 DEG015	2
109	430713	HOSE25 X 18	2
110	120666	FITTING-BARB-BRASS25NPT25	2
111	121128	TEE25 NPT	1

112	120434	FITTING-BARB-BRASS25NPT38	3
113	150225	HOSE CLAMP SIZE 4- NO.6204	4
114	120085	VALVE-BALL .25 NPT	1
115	100214	CARRIAGE BOLT 5/16 X 1	8
116	100124	WASHER-FLAT .25	4
117	121130	NOZZLE - 110 DEG020	2
*	418363	DRIVER- PIN - PCR-25	1
*	161706	MANUAL PCR30	1
*	155395	PALLET - ROUTER	1
*	154311	THROTTLE CABLE	2
*	152662	WRENCH .75 X .56	1
*	130960	WIRE HARNESS - SELF LVL ACT	1

* Wire Harness is 130959 for R3 Standard (301509)*

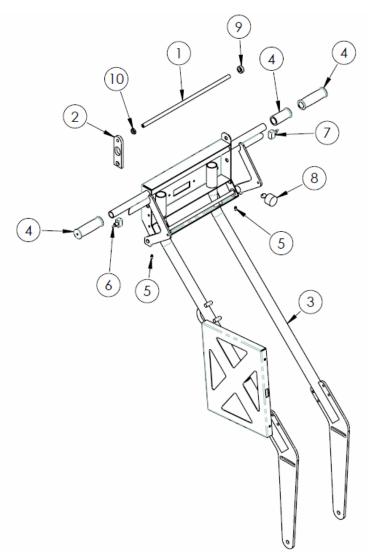
Drum Assembly

#	PART #	DESCRIPTION	QTY.
1	418333	DRUM	2
2	110637	BUSHING SF 1.687	2
3	426438	SHAFT-DRUM ASSY	1
4	418332	PLATE- RETAINER	12
5	418322S	PIN-ROUTER-HARDENED	6
6	152657	SPACER875 IN	72
7	152660	BIT-8 POINT CARBIDE	6
8	100592	SCREW-SERRATED .38 X 1.00	24
9	110715	KEY .38 X 2.75 LG	2



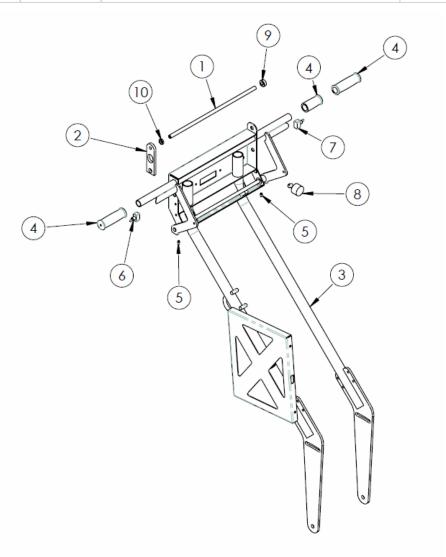
Handle Sub-Assembly (Standard)

#	PART#	DESCRIPTION	QTY.
1	426466	ROD	1
2	420119	ACTUATOR PLATE	1
3	407435	HANDLE BAR WELDMENT	1
4	152304	HANDLE GRIP	3
5	150013	ZERK GREASE STR. 1/4-28UNF	2
6	130526	WIRE HEARNESS-MAIN PCR	1
7	130525	WIRE HEARNESS-LEVEL SWITCH	1
8	111068	IGNITION SWITCH	1
9	110343	SET COLLAR50	1
10	100080	NUT-JAM .50	1



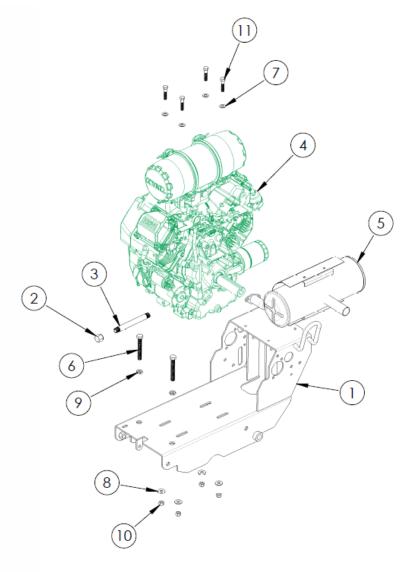
Handle Sub-Assembly (Cut Control)

PART#	DESCRIPTION	QTY.
426466	ROD	1
420119	ACTUATOR PLATE	1
407435	HANDLE BAR WELDMENT	1
152304	HANDLE GRIP	3
150013	ZERK GREASE STR. 1/4-28UNF	2
130526	WIRE HEARNESS-MAIN PCR	1
130524	WIRE HEARNESS-SELF DEPTH	1
111068	IGNITION SWITCH	1
110343	SET COLLAR50	1
100080	NUT-JAM .50	1
111217	WIRE HARNESS	1
	426466 420119 407435 152304 150013 130526 130524 111068 110343 100080	426466 ROD 420119 ACTUATOR PLATE 407435 HANDLE BAR WELDMENT 152304 HANDLE GRIP 150013 ZERK GREASE STR. 1/4-28UNF 130526 WIRE HEARNESS-MAIN PCR 130524 WIRE HEARNESS-SELF DEPTH 111068 IGNITION SWITCH 110343 SET COLLAR50 100080 NUT-JAM .50



Engine Sub-Assembly

#	PART #	DESCRIPTION	QTY.
1	407368	ENGINE BASE WELD-PCR	1
2	120639	PIPE CAP	1
3	120638	PIPE NIPPLE .38 X 6	1
4	111646	ENIGNE - KOHLER 30HP	1
5	110910	MUFFLER - KOHLER CH25	1
6	100250	HHCS .50 X 3.50 FULL THD GR5 ZP	2
7	100211	WASHER-FLAT-SAE .38	4
8	100126	WASHER-FLAT .38	4
9	100080	NUT-JAM .50	2
10	100069	NUT-HEX .38	4
11	100019	HHCS .38 X 1.75	4
*	150369	OIL-10W-30	.5 GL



NOTES



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