

DOSKO

Stump & Root Grinder

Model Number

- 337 11HP Honda
- 337 12HP Kohler



OWNERS MANUAL

WITH SAFETY INSTRUCTIONS AND PARTS LISTING



DOSKO
20195 S. DIAMOND LAKE ROAD SUITE 100
ROGERS, MN 55374
800-822-0295

The following information is important to you! Immediately fill in the requested information from your invoice and unit name plate. You will need this information when ordering parts or corresponding with the factory.

Notice: Serial number of unit is stamped into the main frame near the engine.

Model No. _____ Serial No. _____

Engine _____ Size _____ Engine No. _____

Date purchased and from whom _____



Before operation unit, read and understand this entire manual. If you have any questions, contact your Dosko dealer.



Failure to follow safety procedures could cause serious personal injury or loss of limbs.

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Upon receiving your new unit, it is always exciting to “get going” and see its performance!

The “Operator”, however, is the key to everything!

Every operator should read this owner’s manual to be sure of safety instructions and proper operating procedures. If the owner of this unit is different than the operator, reading this manual will not protect the operator! Make sure the operator reads this manual! As with any mechanical equipment, this equipment is very safe if used with care and precaution - or very dangerous if used carelessly!

Performance is also equal to the operator’s knowledge of how to use the equipment!

Be a Good Operator!

Be a Safe Operator!

Think Safety!

Delivery by Truck

Depending on your unit and model, it may have been shipped on a wooden skid, cardboard container, or other appropriate method. If there appears to be any shipping damage, it should be called to the attention of the truck driver and acknowledged by him. If not, stop and call the truck lines immediately for inspection and verification.

Note: Shipping Damage Claims Are Not Covered By Warranty!

Some assembly may be required! If so, instructions are included as a separate flyer. Read these assembly instructions carefully! After assembly is completed, Do Not Start Unit until reading "Pre-Operating Check List" section (pages 9-10).

Delivery by Dealer

Your unit should have been delivered completely assembled and ready to run! Do Not take anything for granted! Read the "Pre-operating Check List" (pages 9-10), and verify that the unit has been properly "prepped" before initial use.

Factory Pick-up or Delivery

In these cases, your unit has been completely assembled, tested and pre-run. It should be ready for immediate usage.



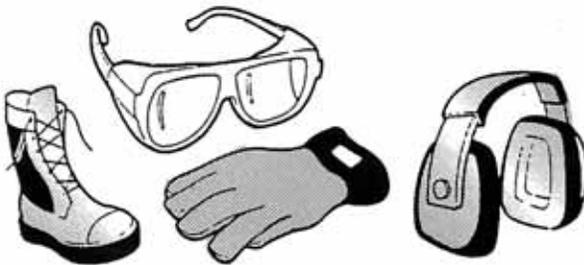
Before operating unit, read and understand all operating instructions and safety information in this manual!! Failure to follow safety procedures could cause serious personal injury or loss of limbs!



Read and Understand this Manual!



Understand and follow all of the Stickers!
(See page 8)



Always Wear Safety Gear!

Eye and face protection, ear and hearing protection, heavy-duty work gloves sturdy, non-slip footwear heavy-duty, tight fitting clothing.



Never allow pets or children within 25 feet of working area!



**NO SMOKING OR OPEN FLAME
NEAR THE UNIT!**

CAUTION

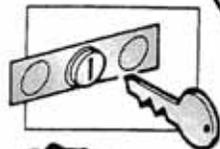
Failure to follow safety procedures could cause serious personal injury or loss of limbs!



Be Prepared for Emergencies!



Replace Worn or Unreadable Stickers!



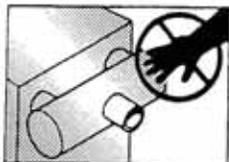
Always Remove Key When Not in Operation!



Never Use in Foul Weather!



Contact with Rotating Teeth Will Cause Serious Personal Injury!



Never Touch Engine or Muffler While in Use!



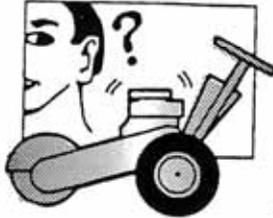
Before doing any service or maintenance, shut off the engine, allow engine to cool, remove the key, and both spark plug wires!



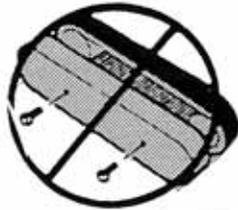
**Never Operate Unit in an Enclosed Area!
The Exhaust Fumes Are Deadly Poisonous!**

CAUTION

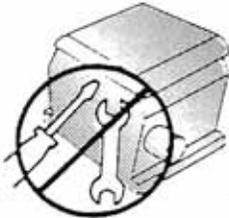
Failure to follow safety procedures could cause serious personal injury or loss of limbs!



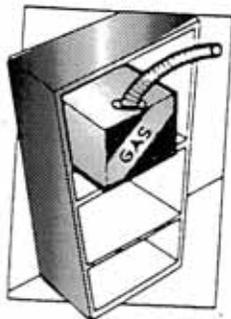
Shut Off the Engine Immediately If the Unit Develops Any Unusual Noises or Vibrations!



Never Operate Without Guards and Covers in Place!



Never Tamper With the Governor Setting on the Engine!



Always Store Gasoline Away From Children!



Refer to Engine Manufacturer's Manual For Additional Safety Instructions!



Questions? Call Your Authorized Dosko Dealer!

If Any of These Stickers Become Unreadable, Replace Immediately!

DOSKO

PN 16183

stump grinder

PN 16249

CAUTION

CUTTER
WHEEL

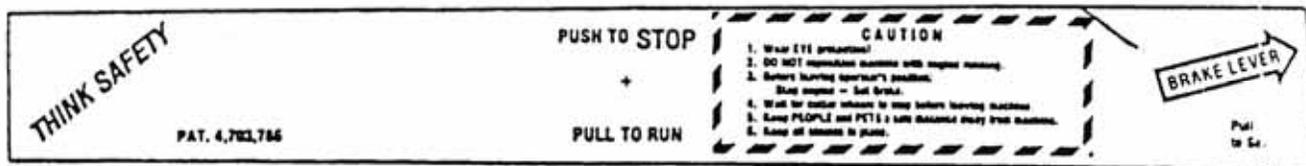
PN 16221



PN 16248



PN 16355

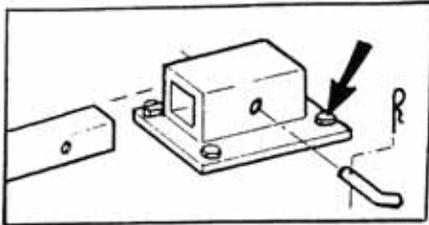


PN 16147

Sticker Kit, Complete: PN 16317-SP

In addition to common safety practices, there are certain legal road requirements for various states. It is the responsibility of the owner or user to be aware of these laws, and to abide by them. For example, there may be certain lighting or licensing requirements.

ON TOWABLE MODELS:

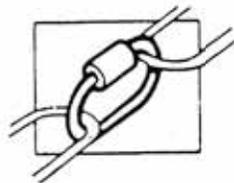


1. **Be sure the tow hitch socket is bolted tightly!**

2. **Position tow bar into socket, then insert lock pin with safety clip.**



3. **Join grinder to vehicle using 2" ball.**



4. **Fasten safety chain using coupling links.**

CAUTION

Be sure that you have read and understand this Entire manual before proceeding!!

The following sections are of utmost importance before using your unit:

“Receiving your unit”

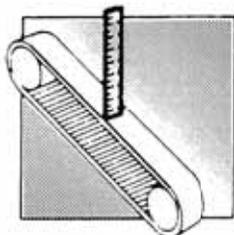
“Message to operator”

“Safety instructions”

“Operating procedures”



Check oil in engine (see engine manufacturer's manual).



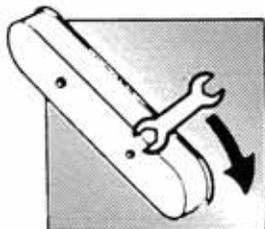
Check belt tension (3/16" or 11.0 to 14.0 pounds tension between pulleys) (see page 18).



Grease the (2) cutter shaft bearings.

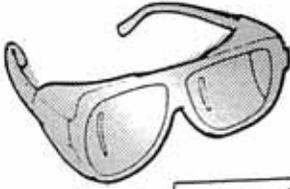


Check that all bolts are tight, and that all the guards are in place.

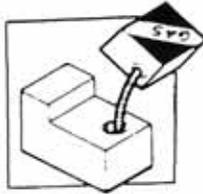


Check that operator presence stop switch is working.

Make sure that the exhaust deflector cap is in place, covering the mufflers exhaust port at all times.



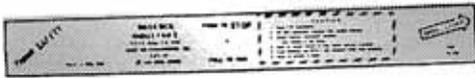
Be sure that all safety gear is used by the operator.



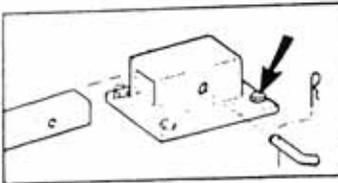
Add gasoline to the gas tank, observing safety rules. (Located in Engine Manual)



Check cutting teeth for tightness (see pages 20-22).



Check that all controls on the instrument panel are tightened securely.

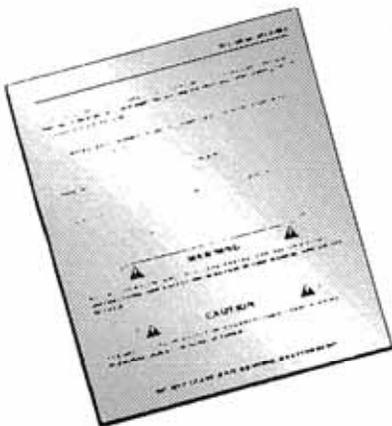


If grinder has tow package, be sure the Hitch Socket that is bolted to frame has washers and lock nuts, and that they are tightened. Use only Heat Treated bolts (Grade #5) such as are furnished with the stump grinder.



Check and adjust brake as follows:

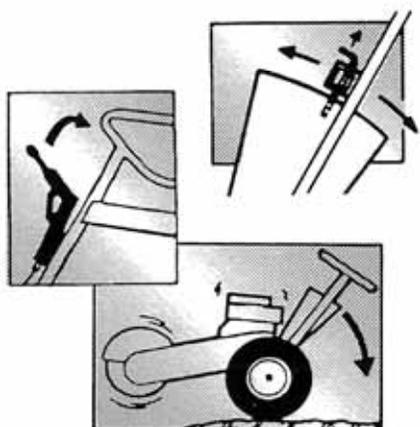
Lock brake, push down on handle bar so that the cutter wheel is off the ground. Push or pull machine - if the brake is loose, the wheel will rotate. Tighten knob on Brake lever so that the wheel will not rotate under pressure.



Please complete "For your records" (pg 1)! This will be helpful for future correspondence when ordering parts or requesting information. This will also ensure your warranty.

CAUTION

Be sure that you have read and understand this entire manual before proceeding!!



Before Starting Engine

Adjust handle bar to a comfortable position and repin.

Be sure brake is locked.

Push handle down so the cutter wheel is off the ground.

Starting Engine

Engage Operator Presence Stop Switch Lever.

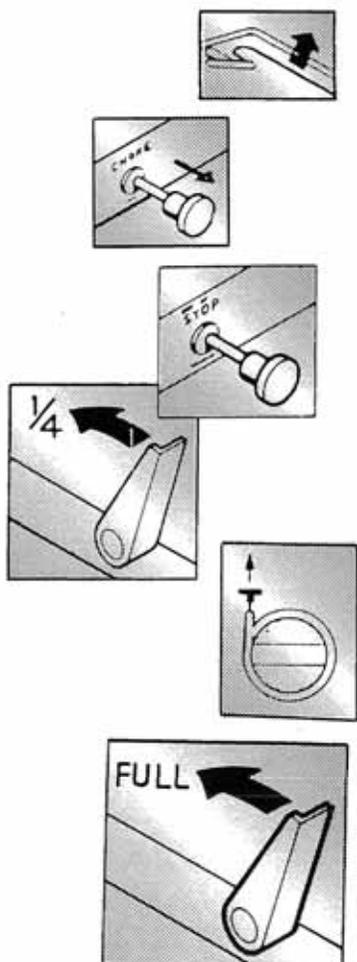
Pull choke if engine is cold (located on engine).

Be sure "on-off" (push-pull) switch is in "on" position (located on Control Panel).

Open throttle to 1/4 open (located on engine).

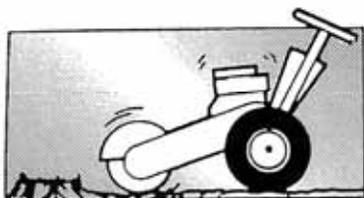
Pull recoil starter to start engine.

Push choke in, turning throttle slowly, to full open position.



CAUTION

Be Sure To Follow All Safety Instructions!



Grinding Stump

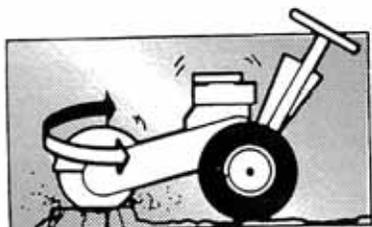
Place cutter wheel directly in front of stump.



Using lever on handle, lock the one wheel brake (for tighter brake adjustment, turn knob on top of brake lever).



Start engine, then adjust throttle to full open.



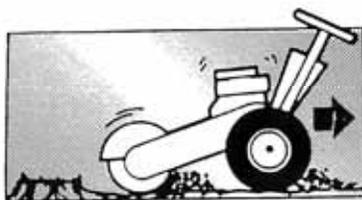
Move handle back and forth (left and right), allowing the cutter head to grind the stump with each pass.

Continue to grind to desired depth.

Helpful Hints



When grinding over 10 inches above or below ground, adjust handle bar for better control and comfort.



On larger stumps, chips may begin to build up under wheels. Release brake and pull machine towards you so that the "chip pile" is directly under cutting wheel. Drop cutter wheel down on "chip pile"; all material will be discharged from machine area, automatically.

! CAUTION

Be Sure To Follow All Safety Instructions!

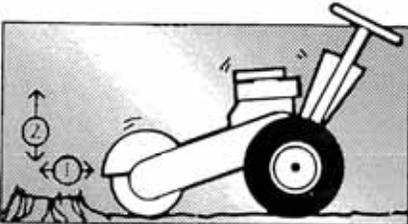


Helpful Hints (Cont'd)

Be sure brake is adjusted so that locked wheel will not creep while grinding.



On larger stumps, DO NOT allow stump grinder wheels to drop into hole - fill with chips or change position!



Cut complete stump flush with ground, then go back and cut to desired depth.

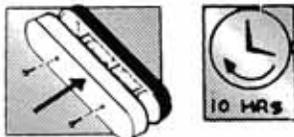
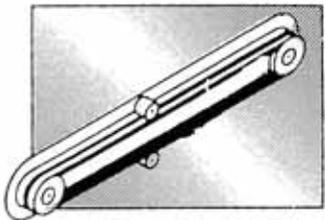
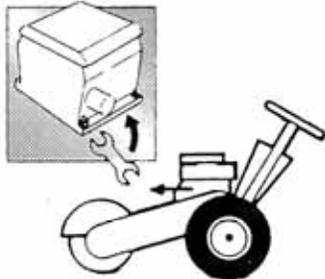
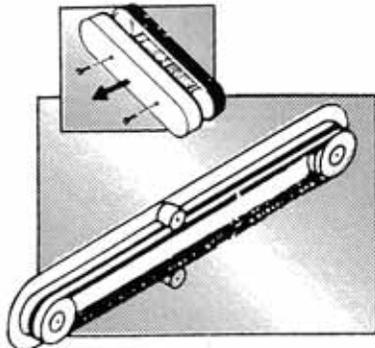
After grinding:

- Allow engine to cool.
- Wash off grinder.
- Inspect grinder.
- Load for transport or towing.

CAUTION

Before attempting any adjustments, be sure that the engine is shut off, and the spark plug wire is removed, and the engine is cool to the touch!

Belt Tension Adjustment



Note: Belt tension and alignment are inter-related. Do not adjust one without checking the other.

1. Remove belt guard.
2. Loosen (4) engine base bolts.
3. With long socket extension drive, move engine forward with rear adjusting bolt.
4. When belt tension is proper, 11 to 14 ft/lbs. of tension, retighten all loosened bolts.
5. Reassemble belt guard.

NOTE: New belts require a "break-in" period of approximately 10 hours - readjustment may be needed at this time.

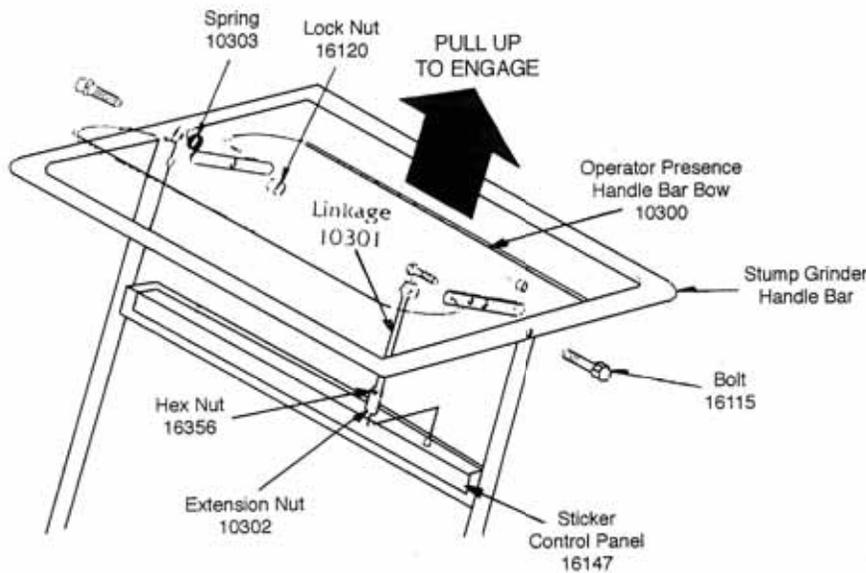
NOTE: Use only factory recommended belts! Contact your authorized Dosko dealer.

CAUTION

NEVER ATTEMPT TO ALTER, MODIFY OR OVERRIDE THIS SWITCH!!

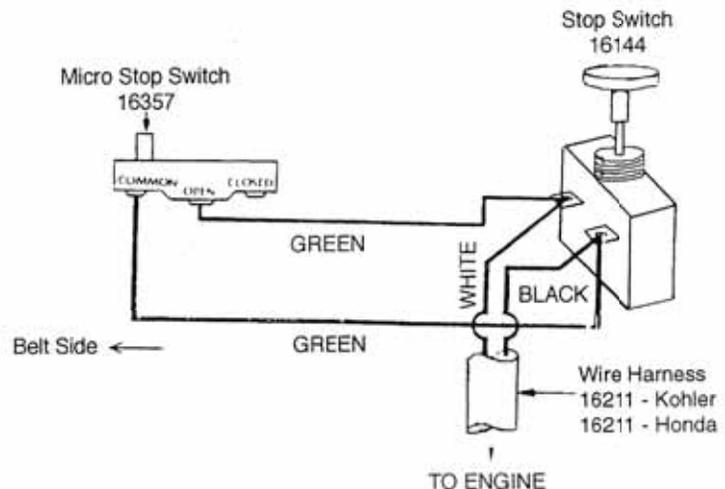
Stop Switch Adjustment

1. Loosen Hex Nut.
2. Turn Extension Nut to either raise (tighten) or lower (loosen) the point of interaction with Stop Switch.
3. Tighten Hex Nut.
4. Verify operability of Switch before operating machine by engaging the Operator Presence Stop Switch handle bar. You should hear a “click”, signifying that the Switch is working.



Complete Kit,
Operator Presence
Stop Switch Assy
163358

Need to Re-order?
Call your authorized
Dosko dealer, or
(909) 885-0988



CAUTION

Before attempting any maintenance, be sure that the engine is shut off, the key, the positive battery cable, and both spark plugs are removed, and the engine is cool to the touch!

USE ONLY AUTHENTIC DOSKO REPLACEMENT PARTS!

Item What to check or action req'd	 Daily	 Each Use	 10 hours	 20 hours	 40 hours	2x/year		
 Bearings, Shaft Grease				X				
 Bearings, Wheel Grease						X		
 Belt Tension Tension					X			
 Bolts Tightness			X					
 Engine See Manual								
 Gasoline Amount		X						
 Safety Switches Operation		X						
 Stickers Readable	X							
 Tires, Flaps Condition	X							
 Wires/Cables Condition		X						
 Cutter Teeth Sharpness		X						
 Towing Package Condition		X						

CAUTION

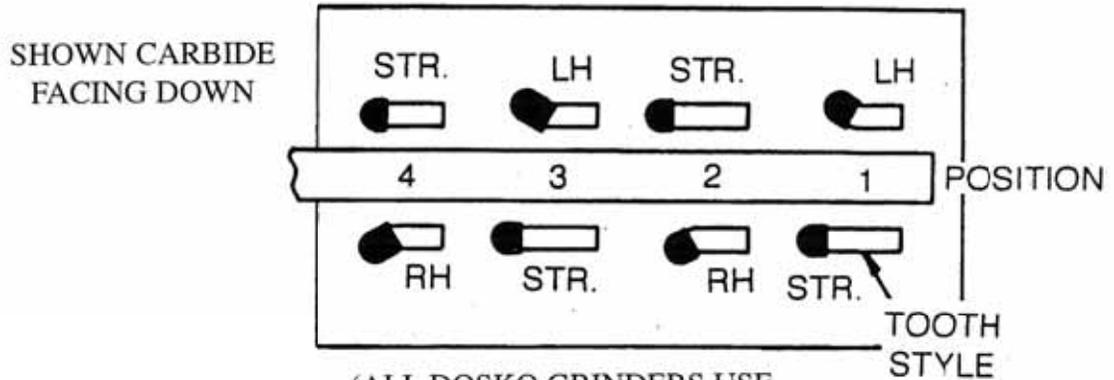
Be sure to follow all safety instructions!



Teeth should be positioned in pockets and tightened to 100 to 110 ft/lbs. torque.

Teeth should be set using a Tooth Gauge so that all teeth will be projecting the same amount.

Teeth should be alternated so that you have the following pattern:



(ALL DOSKO GRINDERS USE THIS STYLE OF SETUP)

CAUTION: Cutter will be out of balance and should never be run with a tooth missing or a badly worn tooth!

Dosko stump grinders are equipped with reversible pockets. When reversing pockets, position them in the same exact location - this will ensure the cutter wheel will remain in balance.

Teeth should be kept sharp at all times! Remember, if teeth are too badly worn, they become more difficult to sharpen.

Use only pockets and teeth recommended by DOSKO

CAUTION

Be sure to follow all safety instructions!

Dosko cutting teeth are tipped with heavy duty carbide. The advantages of such a cutting edge is much the same as with carbide retains its sharpness longer, cuts faster and smoother, and can withstand heat better. Through carbide is tremendously hard, it is also reasonably brittle. Sharpen the teeth before excessive wear or if a chip is noticed. Less material will have to be removed and the teeth will last longer with more frequent sharpenings.



A properly sharpened carbide edge undergoes very little pressure in cutting. A thin, sharp edge slices its way through the material, minimizing resistance.



A rounder dull edge creates high cutting pressures, because it must force its way through the material.

Grinding Equipment

Existing grinding equipment plus a special grinding wheel is all that is needed to grind the teeth.

Items needed:

- Any type bench or pedestal grinder.
- Coarse grinding wheel.
- “Green Wheel” for carbide grinding (P/N 16233 may be ordered from Dorskocil).

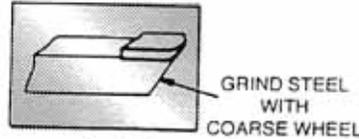
General Grinding Hints

1. Teeth are ground freehand since precision is not important. Any variance between teeth will not be noticed and a tooth that is ground shorter in length can be adjusted when mounting.
2. If possible, set the grinder up with a coarse wheel on one side, and the “Green Wheel” on the other side.
3. Using the “Green Wheel”, grind the end of the carbide until the edge is once again sharp. Avoid grinding on the top of the carbide, which would reduce its thickness and weaken it, making it more susceptible to cracking and chipping.

CAUTION

Be sure to follow all safety instructions!

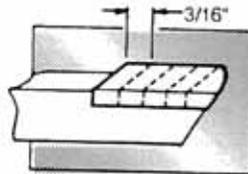
4. As the end of the carbide is ground away, you will have to grind a relief on the square steel shank. The steel must be ground with the regular coarse grinding wheel and not the "Green Wheel".



5. Although the angle is not critical, always grind the tooth so that there is a relief under the carbide edge.

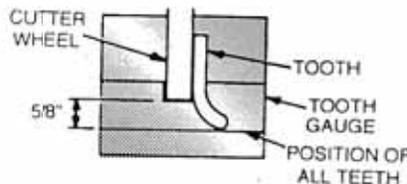


6. The tooth may continue to be ground until the carbide has approximately 3/16" remaining.



Installation of Teeth

1. When installing teeth on the Dosko Cutting Wheel, be sure that all teeth are extended an equal length beyond the wheel. A tooth gauge has been provided with the grinder for this purpose (P/N 10137-A)



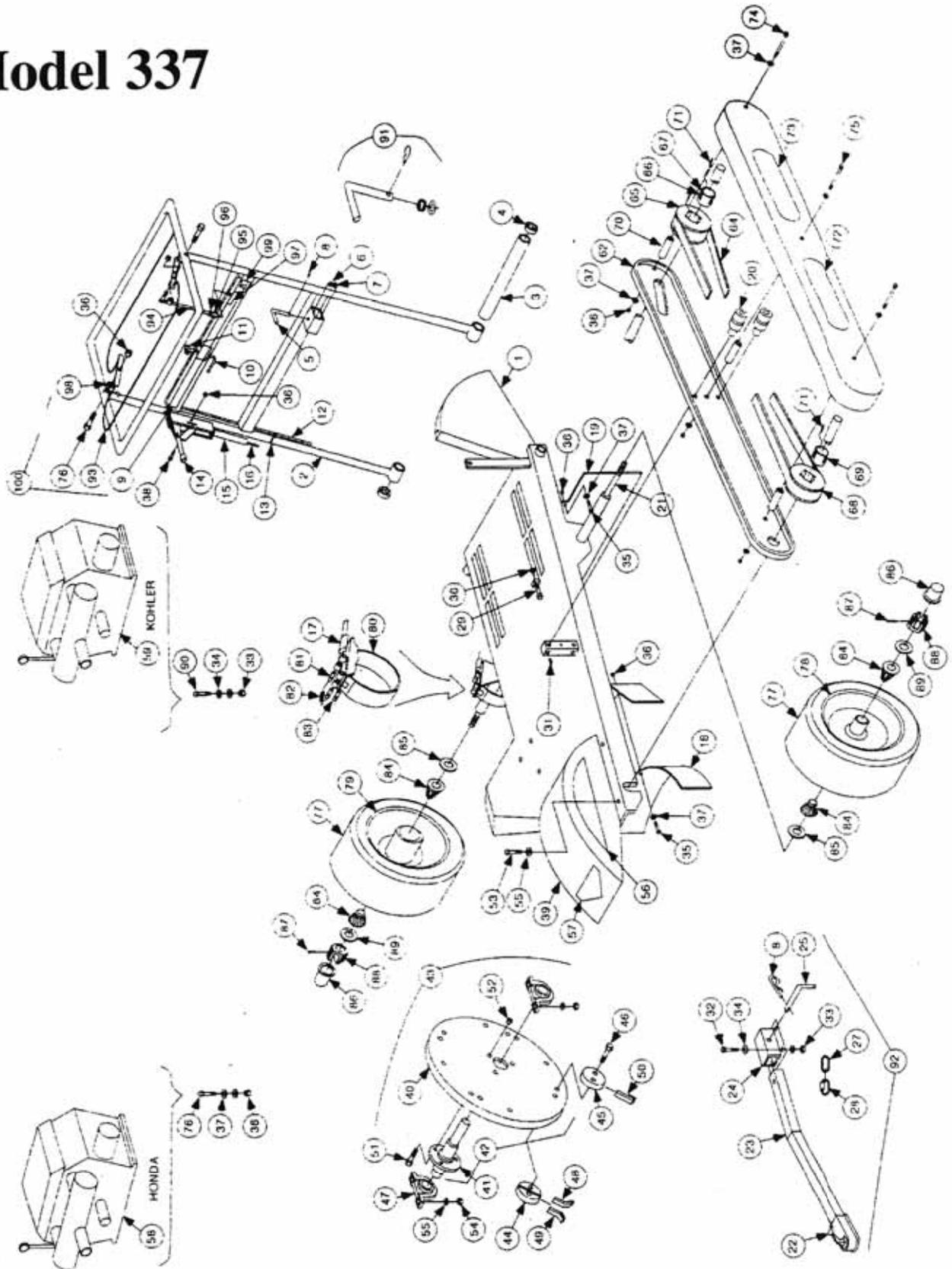
2. After teeth are located in position, lock by tightening the (2) bolts in each tooth pocket.



Use Part Number When Ordering Parts:

P/N 16173Straight Tooth	P/N 16172Countersunk Pocket	P/N 16235.....Teeth Set
P/N 16174RH Tooth	P/N 16171.....Threaded Pocket	P/N 16289Green Wheel
P/N 16175LH Teeth	P/N 16132Socket Head Bolt	P/N 10137-A.....Tooth Gauge

Model 337



Item No.	Quantity	Part Number	Description
1	1	10160	Frame - Model 337
2	1	24080	Handle bar
3	1	24081	Connector bar
4	2	24116	Lock collar (including set screws)
5	1	24138	Bent pull pin, 5/8
6	1	24139	Spring 5/8
7	1	24140	Wash 5/8 USS
8	2	16167	Clip 3/16
9	1	16147	Sticker - Control Panel
10	1	16144	On-Off switch
11	1	16144-A	Knob
12	1	16211-H	Wire harness, 2 wire (Honda)
12	1	16211-K	Wire harness, 2 wire (Kohler)
13	6	16315	Cable tie
14	1	16148	Brake lever
15	1	16150	Outer brake housing, 44"
16	1	16149	Inner brake housing, 55"
17	1	10094	Brake bracket assembly
18	1	10098	Chute flap
19	1	10096	End flap
20	2	16133	Idler bearing
21	1	10037	Axle
22	1	16179	Coupler, 2" diameter
23	1	10161	Tow bar - bolt on
24	1	16146	Tow socket, bolt-on
25	1	16226	Pull pin 5/8"
27	1	16177	Safety chain 48"
28	2	16178	Chain connector
30	1	16122	3/8-16 hex nut
31	2	16130	5/16-18 set screw
32	4	16200	3/8-16 x 1 1/4 bolt
33	8	16193	3/8-16 lock nut
34	16	16129	Washer 3/8 USS

Item No.	Quantity	Part Number	Description
35	11	16158	5/16-18 x 1 bolt
36	25	16120	5/16-18 lock nut
37	25	16126	Washer 5/16 USS
38	1	16112	5/16-18 x 1 1/2 bolt
39	1	10158	Cutter box
40	1	10130-A	Cutter wheel 14" diameter
41	1	10185	Cutter shaft, 1 3/16 (including studs)
42	1	10285	Shaft and cutter wheel
43	1	10151	Cutter wheel assembly (pockets, bolts, teeth and bearings)
44	4	16172	Pocket, countersunk
45	4	16171	Pocket, threaded
46	8	16132	5/8-18 x 1 3/4 pocket bolt, socket HD
47	2	16135	Bearing, pillow block 1 3/16
48	2	16174	Teeth, right hand
49	2	16175	Teeth, left hand
50	4	16173	Teeth, straight
	8	16235	Complete set of 8 teeth
51	3	16131	Wheel stud 7/16-20
52	3	16125	7/16-20 Lock nut
53	4	16116	1/2-13 x 2 bolt
54	4	16121	1/2-13 lock nut
55	8	16140	Washer 1/2 SAE
56	2	16221	Sticker: Caution: Cutter Wheel
57	1	16248	Sticker: Danger: Keep hands and...
58	1	16154-H	Engine - Honda 11HP
59	1	16154-K	Engine - Kohler 12HP
62	1	10051	Inner belt guard
63	1	10053	Outer belt guard
64	1	16142	Belt, 3 GR 3VX 750 power band
65	1	16138	Pulley, engine 3 GR 3" diameter
66	1	16139	Bushing 1210-1 (including screws) for Honda
67	1	16134	Bushing 1210-1 1/8" (including screws) for Kohler
68	1	16136	Pulley, cutter shaft, 3 GR 4.75" diameter
69	1	16137	Bushing 1610 1 13/16 (including screws)

Item No.	Quantity	Part Number	Description
70	3	10054	Space, belt guard
71	2	10059	Keyway 1/4 x 1/4 x 1 1/2
72	1	16183	Sticker: Dosko
73	1	16249	Sticker: Stump Grinder
74	2	16114	5/16-18 x 4 bolt
75	1	16123	5/16-18 x 4 1/2 bolt
76	4	16115	5/16-18 x 1 3/4 bolt
77	2	16168	Tire
78	1	16169	Wheel, plain
79	1	10104	Wheel and brake drum assembly
80	1	16155	Brake band
81	2	10079	Pin, floating
82	1	16157	Spring
83	2	16159	Cable camp (including set screw)
84	4	16162	Bearing
85	2	16161	Dust seal
86	2	16165	Dust cap
87	2	16160	Cotter pin
88	2	16164	Nut, slotted, 3/4-14, threaded
89	2	16163	Washer 3/4 SAE
90	4	16119	3/8-16 x 1 3/4 bolt
91	1	24117	Spring and pin assembly (5/8 pull pin, 5/8 spring, 3/16 clip)
92	1	16166	Tow package, complete
93	1	10300	Operator presence handle bar bow
94	1	10301	Linkage
95	1	10302	Extension nut
96	1	16356	5/16 hex nut
97	1	16357	Micro switch
98	1	10303	Spring
99	1	16355	Sticker: Made in the USA
100	1	16358	Kit, operator presence stop switch kit
	1	16317	Sticker kit, complete
	1	10173-A	Tooth gauge (not shown)
	1	16289	Green wheel 1/2" wide x 6" dia.
	1	16351	Wrench 1/2 allen
	1	16350	Touch up paint
	1	16352-H	Owner's manual model 337 - Honda
	1	16352-K	Owner's manual model 337 - Kohler

LIMITED WARRANTY POLICY

Doskocil Industries, Inc. warrants each Dosko Stump Grinder to be free from defect in factory materials and workmanship for a period of 90 days subsequent to the first retail purchase.

Doskocil Industries, Inc. warrants only the frame and handlebars for a period of two (2) years from the original date of purchase.

DOSKOCIL INDUSTRIES SHALL NOT BE LIABLE FOR ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS ON ITS PRODUCTS AFTER THE 90 DAY PERIOD SUBSEQUENT TO THE FIRST RETAIL PURCHASE.

DOSKOCIL INDUSTRIES' WARRANTY ON ANY OF ITS PRODUCTS SHALL BE VOID IF THE PRODUCT HAS BEEN MODIFIED BY THE ADDITION OF PARTS, OR THE DELETION OF PARTS. TO THE EXTENT PERMITTED BY FEDERAL, STATE OR LOCAL LAWS, DOSKOCIL INDUSTRIES SHALL BE UNDER NO LIABILITY WHATSOEVER IN RESPECT TO ANY LOSS, DAMAGE, INJURY, OR EXPENSE ARISING FROM ANY DEFECTS IN ANY OF DOSKOCIL INDUSTRIES PRODUCTS.

The warranty period, as explained in the Warranty Policy, is for 90 days from the original date of sale. The fact that our product is repaired, or parts are replaced during the original 90 day period, does not extend the expiration date of the original warranty due to any loss of time resulting from failures. This warranty shall not apply to any Doskocil Industries' vehicle or product which has been modified, repaired, or altered in such a manner as to affect its stability, performance or operation, nor which has been subjected to misuse, abuse, negligence, or accident.

Your authorized Dosko dealer will repair or replace, free of charge, any parts that are found to be defective within the warranty period.

In order to register for the warranty on your new Dosko Stump Grinder, the dealer should fill out and return to Doskocil Industries the enclosed warranty registration cards within ten (10) days after your purchase of your new Dosko Stump Grinder.

“No Warranty On Purchased Component Parts”

Purchased component parts (example: tires, battery, engine, belts, spark plugs, etc.) are not warranted by Doskocil Industries. Many of these component parts are warranted by their respective manufacturers.

Description of Limited Warranty of Engine Manufacturers

The engine in your Stump Grinder is covered by a Manufacturer's warranty, and all problems and defects in the engine should be referred to your authorized engine repair station.
