



## **Pavement Cracksaw Installation**

Installation/Parts Manual – 21322N  
Revision O





## Table of Contents

1.0 About This Manual .....	1-1
1.1 How to use this manual: .....	1-1
2.0 Safety Precautions.....	2-1
2.1 General Safety .....	2-1
2.2 Personal Safety .....	2-1
2.3 Equipment or Operational Safety for All Routers .....	2-2
2.4 California Proposition 65 .....	2-2
2.4.1 All Crafcro, Inc. Equipment .....	2-2
2.4.2 All Crafcro, Inc. Equipment using a gasoline engine .....	2-2
3.0 Illustrated Parts List .....	3-1
4.0 Cutter Head Removal .....	4-1
5.0 Pavement Cracksaw Attachment Installation .....	5-1

**List of Figures**

Figure 3-1 Router Saw-Cut Kit (P/N 31350 .....	3-1
Figure 4-1 Belt Guard, Belt Tensioner.....	4-2
Figure 4-2 Bearing Retaining Bolts.....	4-2
Figure 5-1 Reference Drawing, Pavement Cracksaw Attachment .....	5-1



# Model 30 Pavement Router Manual

## List of Tables

Table 4-1 Cutter Head Removal .....	4-1
Table 5-1 Pavement Cracksaw Attachment Installation .....	5-2
Table 5-2 Pavement Cracksaw Attachment Installation (continued).....	5-3

## Chapter 1 Introduction

### 1.0 About This Manual

This manual is supplied with each new Crafcro Router Saw-Cut Kit. The manual assists your machine operators/maintenance personnel in the proper installation of the Router Saw-Cut Kit, as well as removal of the cutter head supplied with the standard router.

### 1.1 How to use this manual:

This manual is formatted to start each new chapter on the right page. There may be a blank page on the left page if the previous chapter ends on the right page.

If you are viewing this in a digital format (PDF) the following features are available:

1. The Table of Contents, List of Tables, and List of Figures are all hyperlinks, when left mouse clicked on section, table, or figure you will be sent to that page.
2. The blue highlighted text throughout the manual is a hyperlink, when left mouse clicked you will be sent to that page, table, or figure.
3. The panel to the left in the PDF is a bookmarks panel, if you left mouse click on any section/heading in the bookmarks panel you will be sent to that page.



## Chapter 2 Safety

### 2.0 Safety Precautions

For more in-depth safety information, please see Safety Manual (PN 26221) which comes with the machine. Or contact your nearest authorized Crafcro Distributor at <https://crafcro.com/where-to-purchase/>.

### 2.1 General Safety

- Crafcro, Inc. assumes no liability for an accident or injury incurred through improper use of the machine.
- Read this manual thoroughly before operating the machine.
- Obey all CAUTION and WARNING signs posted on the machine.
- Make sure an operator fully knows how to operate the machine before using the machine.

### 2.2 Personal Safety

- Eye and ear protection devices along with a dust mask are required when operating the machine.
- Wear long pants, work gloves and heavy leather boots or shoes.
- When cleaning cracks and joints near moving traffic, always move in a direction away from traffic to protect the operator.
- Never allow fatigued operators to run the machine. Due to the nature of running this machine, the crew leader should rotate operators as they see fit according to their performance.
- Keep hands, feet, and clothing away from all moving parts.

## Chapter 2 Safety

### 2.3 Equipment or Operational Safety for All Routers

- Do not operate the machine in buildings or work areas that do not have sufficient airflow.
- Always keep a correctly maintained fire extinguisher near the machine and know how to use it.
- Tighten all bolts and screws every 100 hours of machine operation.
- Care should be taken when operating machine on grades. It is usually best to operate the machine going uphill, rather than downhill.
- To stop or slow machine, push down on handle and/or release the clutch handle.
- When cleaning cracks and joints near moving traffic, always move in a direction away from traffic to protect the operator.
- Tires should be inflated to 45 psi to allow machine to roll easily.
- Never operate the router without belt guard in place.
- Never transport the router with the engine running.
- Never exceed maximum recommended engine RPM.
- Never leave router unattended while engine is running.
- Never stand on any part of the machine.
- The only operating position is behind the pavement cutter with both hands on the handle.

### 2.4 California Proposition 65

The state of California currently maintains a list of chemicals that can cause cancer, birth defects or other reproductive harm. Your Crafco, Inc. equipment comes with the following warnings:

#### 2.4.1 All Crafco, Inc. Equipment

 **WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)  
26471N

#### 2.4.2 All Crafco, Inc. Equipment using a gasoline engine

 **WARNING:** Breathing engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system.
- Do not idle the engine except as necessary.

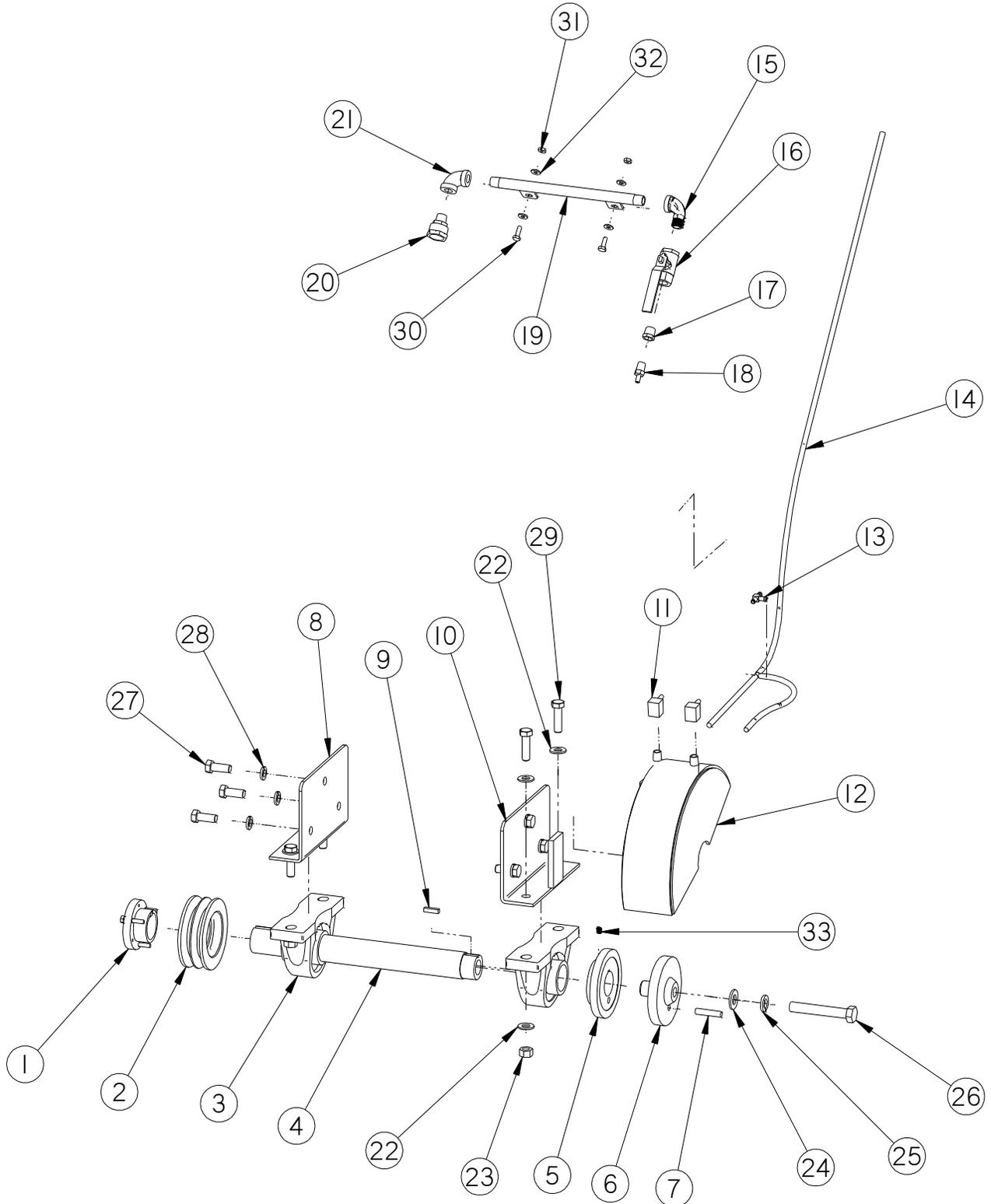
For more information go to [www.P65warnings.ca.gov/diesel](http://www.P65warnings.ca.gov/diesel).

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**Chapter 3 Parts List**

**3.0 Illustrated Parts List**

**Figure 3-1 Router Saw-Cut Kit (P/N 31350)**



## Chapter 3 Parts List

FIG.	ITEM	PART NO.	DESCRIPTION	QTY.
FIG. 1-0	1	31367	1-3/4 TAPERLOCK BUSHING	1
	2	32068	SHEAVE 2G5V X 4.65 O.D.	1
	3	31361	1-3/4 PILLOW BLOCK BEARING	2
	4	31360	MAIN SHAFT	1
	5	31364	INNER COLLAR	1
	6	31362	OUTER COLLAR	1
	7	31363	DRIVE PIN	1
	8	31351	SIDE MOUNTING ANGLE	1
	9	31368	KEY, 1/4 SQ. X 7/8 LG	1
	10	31352	SIDE MOUNTING ANGLE ASSY.	1
	11	29953	1/4 FEMALE FITTING 90°	2
	12	31355	BLADE GUARD ASSY	1
	13	29954	T-FITTING 3/8 PUSH ON	1
	14	29957	3/8 ID PLASTIC TUBING	1
	15	28237	3/8 ST ELBOW	1
	16	29202	3/8 BRONZE BALL VALVE	1
	17	28342	BUSHING, 3/8 X 1/4	1
	18	29956	STRAIGHT CONNECTOR	1
	19	31399	WATER PIPE ASSEMBLY	1
	20	29955	HOSE CONNECTOR	1
	21	28207	3/8 PIPE ELBOW	1
	22	28674	WASHER, SAE 1/2"	8
	23	28540	1/2-13 UPSET TYPE LOCK NUT	4
	24	28676	5/8 SAE FLAT WASHER	1
	25	28650	5/8 LOCK WASHER	1
	26	28820	5/8-11 X 4.0 L.H. THREAD HEX BOLT	1
	27	28761	1/2-13 X 1-1/2 HEX HEAD BOLT	6
	28	28649	1/2 LOCK WASHER	6
	29	28764	1/2-13 X 2 HEX HEAD BOLT	4
	30	28701	1/4-20 X 3/4 HEX HEAD BOLT	2
	31	28524	1/4-20 NYLON LOCK NUT	2
	32	28670	1/4 FLAT WASHER	4

## Chapter 4 Router Cutter Head Removal

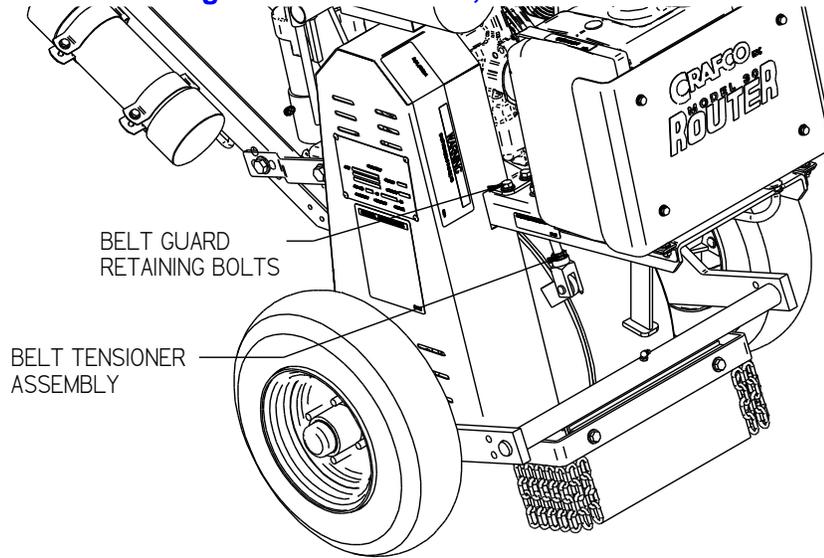
### 4.0 Cutter Head Removal

**Table 4-1 Cutter Head Removal**

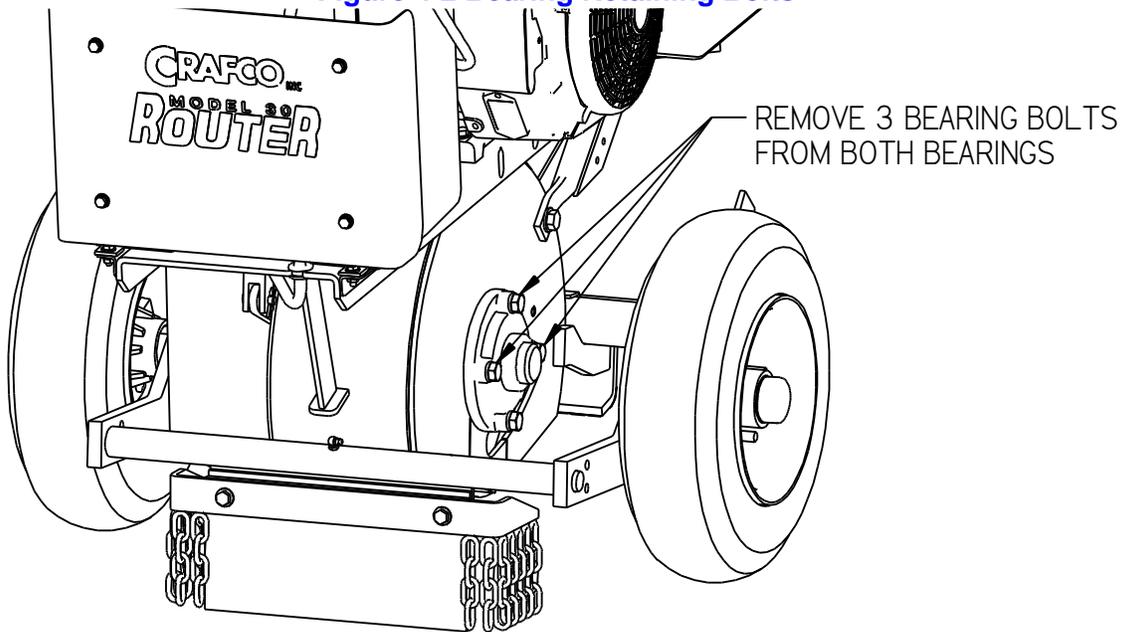
Step	Action
1	Turn the key to the on position, then use the up/down toggle switch to lower the cutter head until it is resting on the ground, then turn the key back to the off position.
2	Remove power from unit by disconnecting negative battery cable to prevent accidental startup.
<b>Warning</b>	
Precautions should be taken to prevent accidental startups of machine while working on the unit. Disconnect the battery and or fuel supply from machine.	
3	Remove 4 bolts holding the belt guard in place and set belt guard aside. Ref. <a href="#">Figure 4-1 Belt Guard, Belt Tensioner</a>
4	Back off belt tension by backing off adjusting nuts on belt adjuster located under the engine mounting channel, Ref. <a href="#">Figure 4-1 Belt Guard, Belt Tensioner</a> . Remove the belts and retain for later use.  <b>Note:</b> If belts are showing signs of wear, replace with a new set of belts.
5	Remove the top 3 bolts in each of the two main shaft bearings Ref. <a href="#">Figure 4-2 Bearing Retaining Bolts</a> . It is not necessary to remove the bottom bolt from the main shaft bearings, they can be left intact. It is also not necessary to remove or loosen the set screws holding the bearings to the main shaft, nor is it necessary to remove the belt sheave.  <b>Note:</b> to facilitate easier reinstallation of the cutterhead if desired, leaving the bearings and pulley in their original place will save time with realignment when reinstalling the cutter assembly.
6	Once the 6 main shaft bearing bolts have been completely removed, slowly lift up on the handle to raise the back of the router. Do not raise the cutter head assembly more than a 1/2" off of the ground without verifying that the cutter head assembly has broken free of the housing and will easily slide out. This will prevent the cutter head assembly from having a "long fall" to the ground, preventing damage to the cutters or the cutter head itself.
7	If the cutter head fails to immediately slide out of the housing lower the handle back down to the ground. Loosen the set screws on one shaft bearing only. Leaving one bearing in place will help with realignment if you were to choose to reinstall the cutter assembly at a later time. If necessary, lightly tap on the end of the main shaft to free the cutter head assembly from the housing.
8	Once the cutter head assembly has broken free of the housing, slowly lift the handle up until the cutter head assembly is clear of the housing and the router is resting on the front support strip. The cutter head can now be rolled out from underneath of the router and stored until needed.

## Chapter 4 Router Cutter Head Removal

**Figure 4-1 Belt Guard, Belt Tensioner**



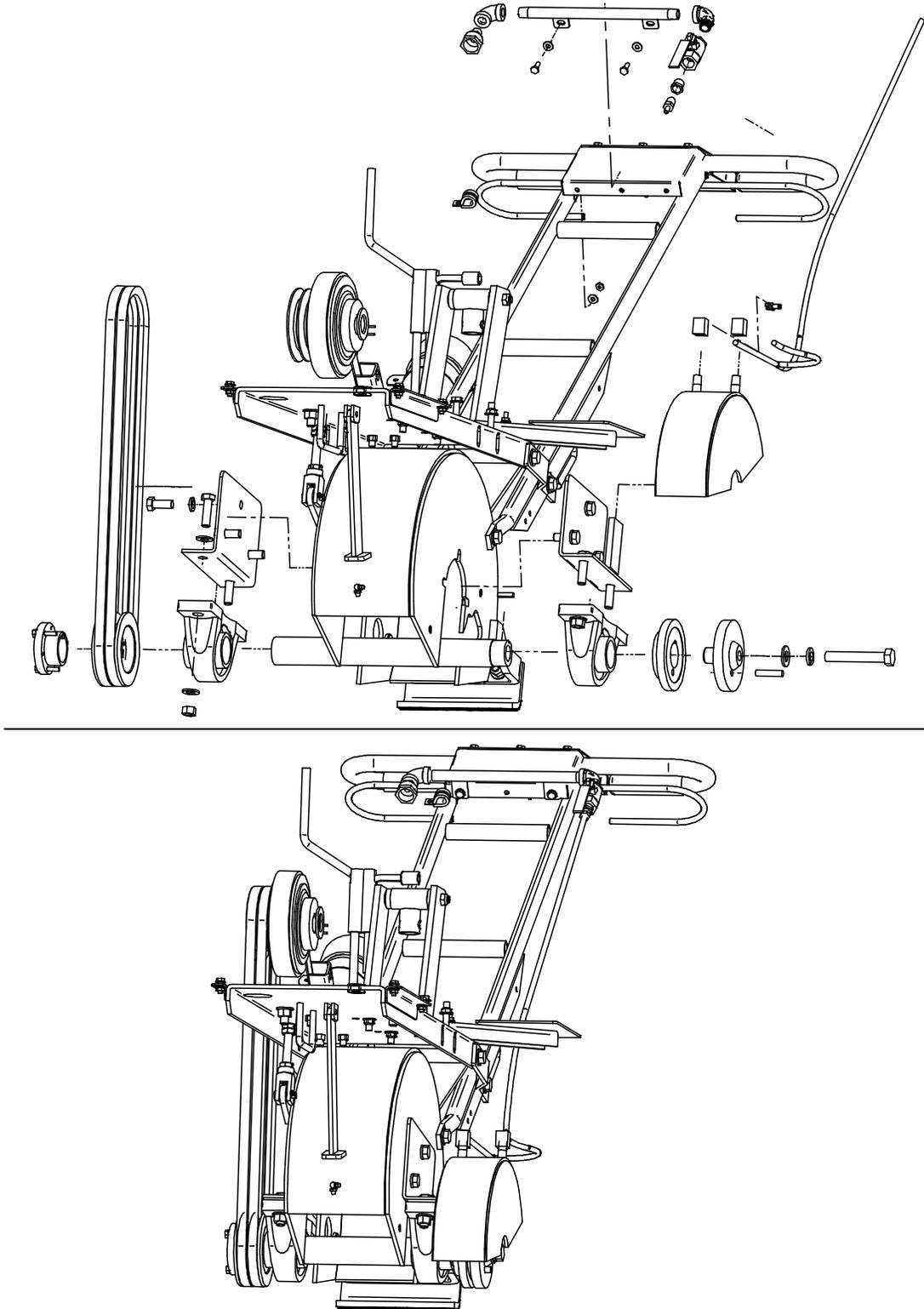
**Figure 4-2 Bearing Retaining Bolts**



## Chapter 5 Pavement Cracksaw Attachment Installation

### 5.0 Pavement Cracksaw Attachment Installation

Figure 5-1 Reference Drawing, Pavement Cracksaw Attachment



## Chapter 5 Pavement Cracksaw Attachment Installation

**Table 5-1 Pavement Cracksaw Attachment Installation**

Step	Action
1	Mount the two side mounting angles to the cutter housing using 1/2"-13 x 1-3/4" long bolts and 1/2" lock washers, hand tight only. Install the mounting angles where the main shaft bearings were located with the two-hole flange at the bottom of the router. The mounting angle with the saw blade guard mounting tab should be located on the side opposite of the belts.
2	Mount a 1-3/4" pillow block bearing to each one of the mounting angles with 1/2"-13 x 2" long bolts, 1/2" flat washers, and 1/2"-13 upset nuts, hand tight only.
3	Install the main shaft loosely through the two pillow block bearings. The side that has a shoulder for the blade mounting collars and a center bolt hole should go on the side opposite of the belts.
4	Tighten the 6 bolts for the bearing mounting angles and the 4 pillow block bearing bolts.
5	Install inner collar, drive pin, and outer collar onto main shaft using 1/4" x 7/8" long keyway, 5/8" SAE flat washer, 5/8" lock washer, and 5/8"-11 x 4" left hand thread bolt.
6	Install two 1/4" x 90° barbed fittings onto the blade guard. The barbs should point to the rear of the router when the guard is installed onto the router. Place the guard onto the router. It may be necessary to cut a notch out of the frame gusset and cut a couple of links out of the chain deflector to accommodate the blade guard.
7	Align the main shaft in the pillow block bearings so that the concrete blade will be centered in the blade guard (No blade is supplied with kit). Tighten the set screws on the bearings to hold the main shaft in place.
8	Install the tapered lock bushing and the belt sheave onto the main shaft using hardware that comes with the taper lock bushing. Align the belt sheave with the clutch assembly on the engine.
9	Install the belts and tighten to 1/4" deflection at 10 lbs. of pressure.
10	Install the water pipe assembly. Align the two tabs with two holes in the switch cover bracket on the handlebar. Attach with 1/4" x 3/4" bolt, 1/4" flat washer, and 1/4" nylon lock nut.
11	Install 3/8" pipe elbow and hose connector to water pipe assembly. Locate on the belt side of router; orientation should follow the line of the handle.

## Chapter 5 Pavement Cracksaw Attachment Installation

**Table 5-2 Pavement Cracksaw Attachment Installation (continued)**

Step	Action
12	Install 3/8" street elbow, 3/8" bronze ball valve, 3/8 x 1/4" reducing bushing, and straight hose connector on opposite side of water tube assembly. Orientation should follow line of handlebar, pointing towards the blade guard.
13	Cut 1 piece of 3/8" plastic tube approximately 8" long. Connect it to the barbed tee fitting and the inside barb on the blade guard. Cut another piece that will go between the barbed tee and the shutoff valve. Use the remainder of the tube to cut a piece that goes between the outside barb on the blade guard and the barb tee.
14	Inspect the machine; make sure there are no loose or missing parts. Reconnect the battery cable. Run the Router for a few minutes to insure proper operation.
15	Install the belt guard.







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