STREETVAC

SLURRY VACUUM SYSTEM HEAD

OPERATION AND INSTALLATION MANUAL

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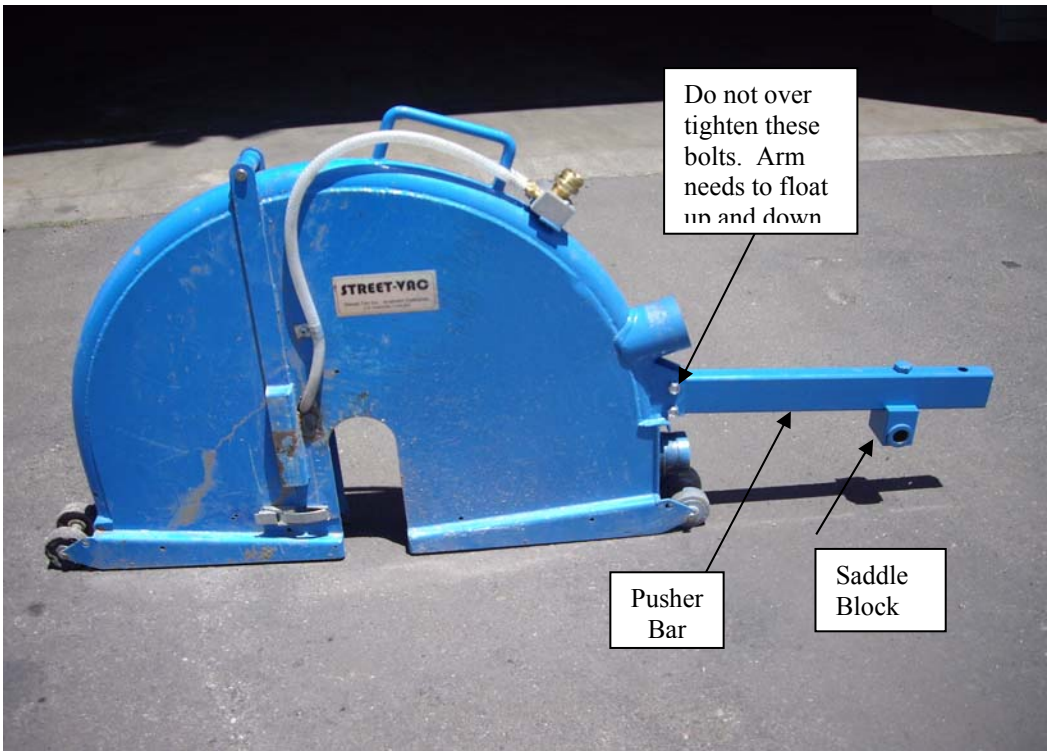
1.0 VACUUM HEAD

The Vacuum head operates as both a saw blade guard and containment apparatus for the slurry overspray. The primary slurry pickup point is at the rear end of the head. Secondary pickup occurs at both the front end of the head and along the sides of the head. The head is driven along the cut by the saw. Rollers mounted at the front and rear of the head permit friction free advancement as well as prevent wear to the bottom of the guard.

All parts are designed to last for many years and there should not be any need to replace parts unless they are inadvertently damaged. The head is hinged in a similar manner to standard saw blade guards. However, it is necessary to latch the two head halves together to prevent wear to the bottom side of the head.

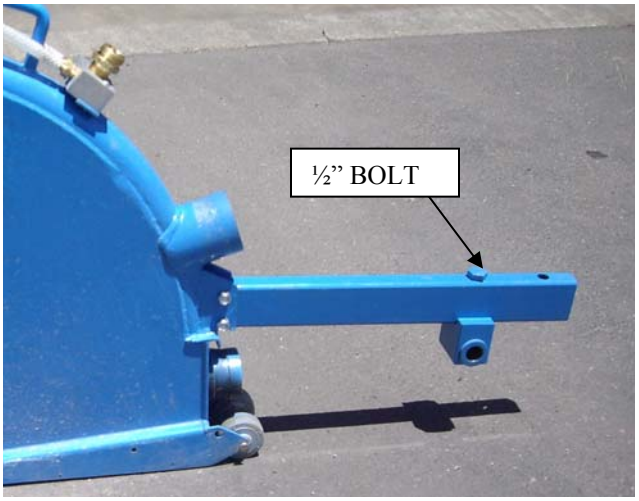
2.0 ASSEMBLY OF THE VACUUM HEAD:

The vacuum head may be shipped in separate pieces. If this is the case, assembly will be necessary. First locate the rectangular pusher bar and install it on the back of the head as shown in the picture below using the two bolts with self-locking nuts provided. Do not over tighten these bolts as the arm needs to move up and down within the bolt whole play. Next, connect the two halves together using the pin and cotter key provided and latch the heads together.



3.0 MOUNTING THE HEAD ON THE SAW:

Remove ½" bolt shown in the picture on the right from the saddle block attached to the Vacuum Head. Install this block on the pivot pin located at the rear drive wheel of the saw. See section 5.0 for pivot pin installation instructions.



Position the Vacuum Head over the saw blade until the head engages the front guide as shown in the guide installation picture in Section 5.5

The pusher bar comes equipped with several holes so it can be used for various manufacture's models of flat saws. Select the appropriate hole to reinstall the ½" bolt. When removing the Vacuum head unscrew the ½" bolt and leave the saddle block on the pivot pin.

Connect the water supply hose to the Vacuum Head and the vacuum hose to the back of the Vacuum Head to complete the installation. The tailpiece is designed to accept a standard 2 inch vacuum hose cuff which is 2-1/4 inches in diameter. Other size hose ends will require an adapter available from vacuum accessory suppliers.

Note: CoreCut saws require a special pusher bar that has a pivot pin built into bar in place of the saddle block. This pin screws into an existing threaded hole in the saw frame.

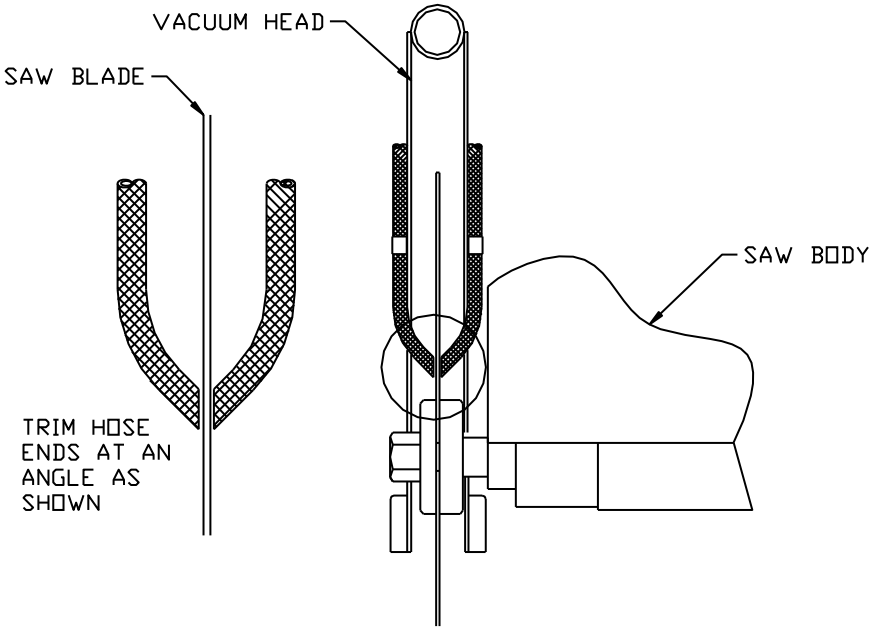
4.0 OPERATION AND MAINTENANCE:

Important requirement: Operation of the Vacuum Head requires that the bottom of the head be in contact with the ground to function successfully. If the cut depth is such that the head will not ride on the surface, use a smaller diameter blade. The head permits a depth of cut adjustment range of approximately 4 inches for the 20 inch head and increases to 4-3/4 inches for the 26 inch head and 5-1/2 inches for the 30 inch head.

The head will operate on any vacuum system which has a minimum flow of 200 CFM through the vacuum head. A flow rate of 250 CFM or more is ideal for optimum performance. Hose length is critical to the vacuum system employed. Most blower type systems such as Tornado and Rigid Vacuums or other barrel mounted blowers should not be run with more than 10 feet of 2 inch inside diameter hose. Positive displacement vacuum pumps and regenerative type blowers can be used with much longer hose lengths. The hose should be of sufficient diameter to maintain the flow rates required and

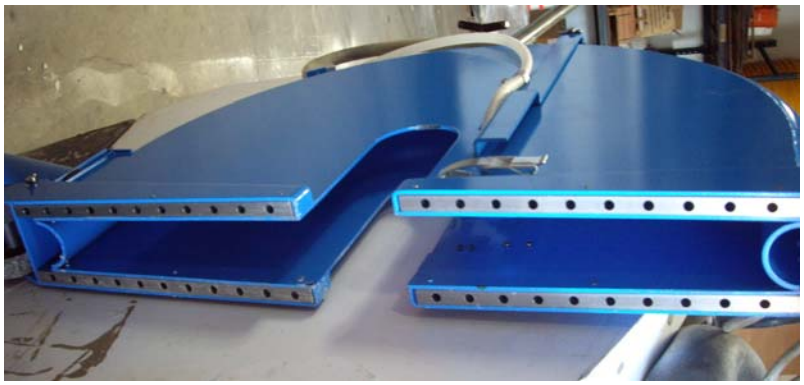
in no cases less than 2 inches in inside diameter. If unsure about your system's capabilities, contact the factory.

The head itself requires very little maintenance. However critical to the saw's performance is the maintenance of the cooling water supply to the saw blade. If the cooling water lines are running water onto the ground instead of onto the blade, the blade will overheat and slurry will escape from the sides of the head. The diagram below shows the proper positioning of the cooling water lines.



Maintenance of the head consists of maintaining free vacuum passages throughout the head. The side passages are the most likely to become plugged. A good practice is to wash out the head at the end of the day by vacuuming clear water for about a minute.

In the event that the head is not washed out and slurry dries out over several weeks, it may be necessary to clean any plugged passages. The holes shown in the picture below on the bottom sides of the head are the most likely points of becoming plugged. If side vacuum performance deteriorates, these holes are most likely plugged.



Keep the hinged head latched to prevent wearing the bottom of the head on the pavement as the head slides along the cut. Should the head be damaged, repair the damage to prevent the saw blade or saw blade flanges from rubbing on the inner surfaces of the head. Replacement parts are available from the factory.

5.0 INSTALLATION OF THE MOUNTING HARDWARE:

The vacuum head is attached to the saw using a pivot pin mounted on the rear side of the saw. In order for the head to remain level on the ground the pivot pin needs to be as close to the drive wheel axle centerline as possible. For short wheelbase saws the pivot pin is mounted in line with the drive wheel axle. On longer wheelbase saws the pivot pin is mounted in from of the drive wheel. The Vacuum head is guided by a front guide pin as the saw is raised up and down. (See section 5.5)

There are 3 types of pivot pin installations depending on the model of the saw.

1. Drive wheel axle extensions
2. Pivot pins mounted over the drive wheel
3. Pivot pins mounted in front of the drive wheel

Pivot Pin part numbers and installation sections of this manual are listed below for various saw models. All pivot pins come with a cotter key for securing the saddle block to the pin.

Saw Manufacture	Series/model no.	Pivot Pin P/N	Manual Section
Husqvarna (Meco)	FS 4400, FS 4800, FS 6100	100525	5.1
Husqvarna (Target)	FS 4800	100655	5.3
Husqvarna (Target)	FS 6600	100568	5.4
Meco	M-35, M-40, M-60	100525	5.1
Morley	M44, M48, M62	100655	5.2
MK	4000	100655	5.3
MK	6000	100568	5.4
Multiquip	4030, 7060	100568	5.4

5.1 HUSQVARNA 4400, 4600 & 6100
MECO M-35, M40, M-60

Installation of the axle extension, part no. 100525, consists of permanently bolting this part to the saw.

Remove the three cap bolts from the tapered rear drive wheel hub and bolt the axle extension to the hub with the longer bolts provided with the extension as show in the pictures below.

100525 axle extension bolted to drive wheel

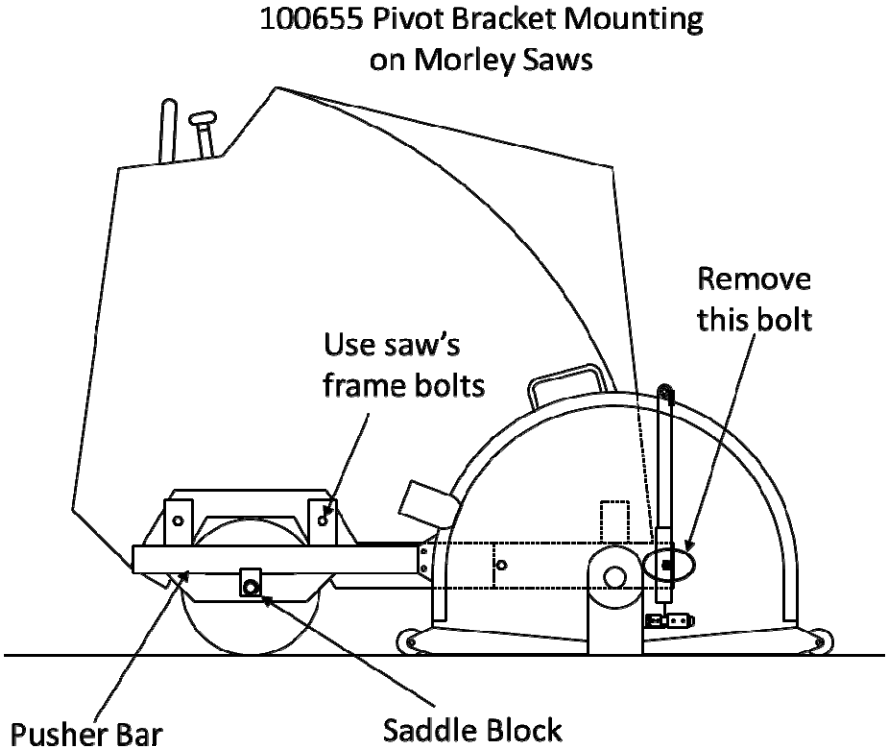
Existing Wheel Assembly

With Axle Extension

5.2 MORLEY 4400, 4800 AND 6200:

These saws require installing a pivot bracket, part no. 100655, to the side of the saw frame over the drive wheel as shown in the drawing below. Installation consists of permanently bolting the pivot bracket to the saw using existing bolts located on the saw frame as shown in the drawing below.

It will also be necessary to remove the front bolt holding the standard saw blade guard mounting plate on these saws because it will interfere with the side of the vacuum head guide slot.



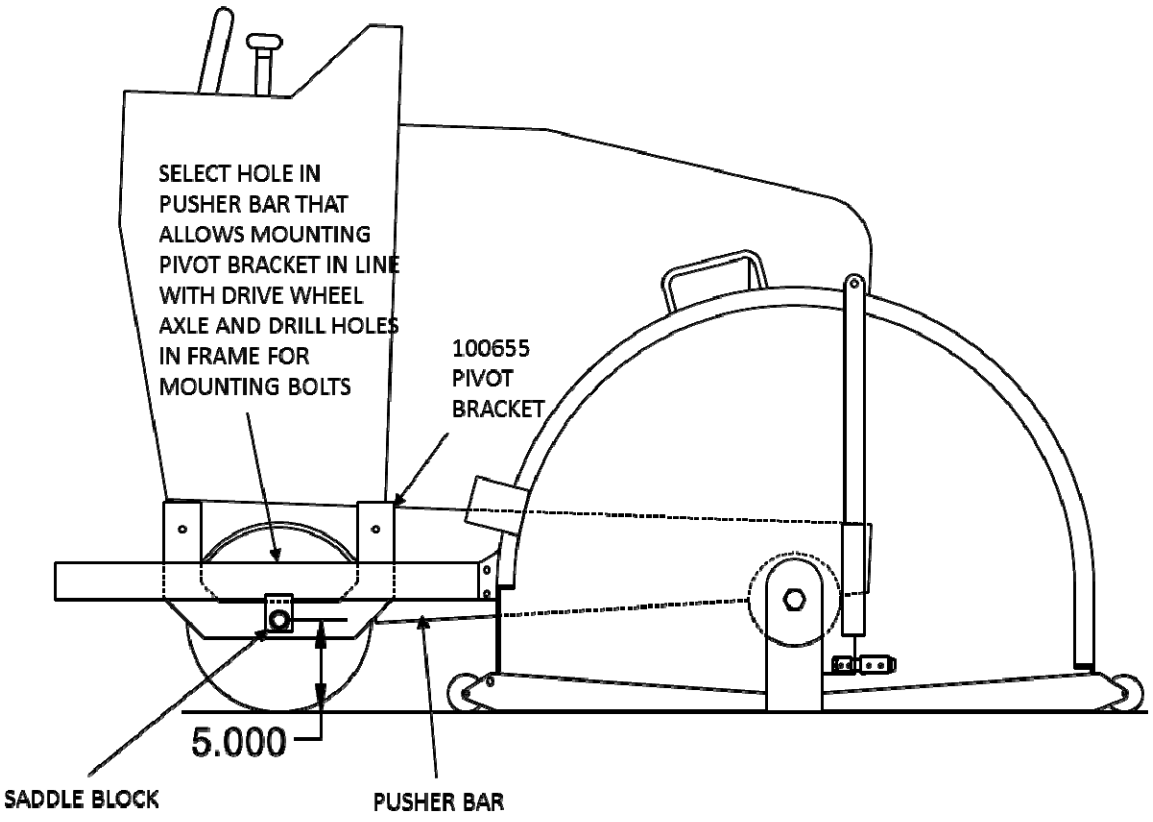
5.3 HUSQVARNA 4800: MK 4000

These saws require installing a pivot bracket, part no. 100655, to the side of the saw frame over the drive wheel. Installation consists of permanently bolting the pivot bracket to the saw.

The pusher bar comes equipped with several holes for various models and manufacturers of flat saws. Raise the saw so that the centerline of the saw blade shaft is approximately 5 inches above the ground. Place the assembled head on the saw over the blade shaft so that the blade shaft centerline is centered in the slot of the head as shown in the drawing below.

Select a hole in the pusher bar for the saddle block that permits mounting the pivot bracket over the drive wheel. Temporarily clamp the pivot bracket to the saw frame so that the pivot pin is 5 inches above the ground and using the bracket as a template, drill two 3/8" diameter mounting holes through the saw frame. Secure the pivot bracket to the frame with the bolts provided.

100655 Pivot Bracket Mounting Over Drive Wheel

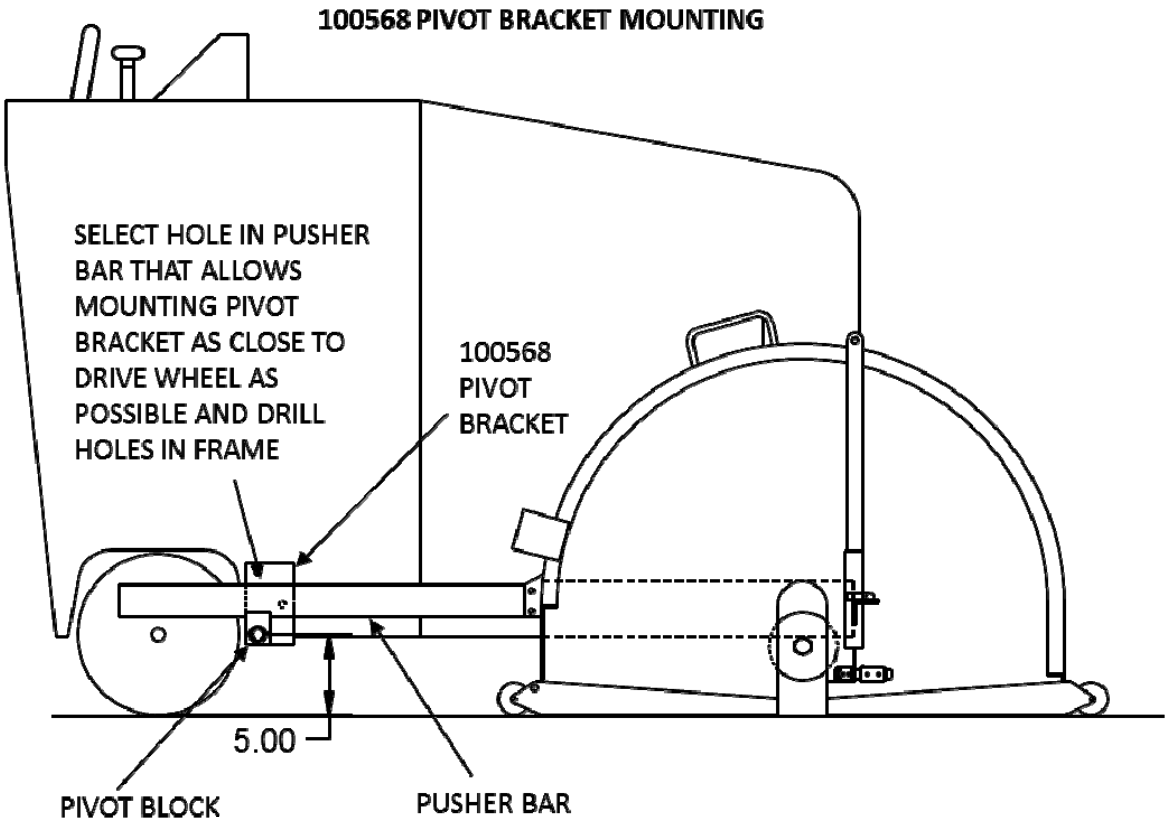


5.4 HUSQVARNA 6600: MULTIQUIP 4030 & 7060: MK 6000

These saws require installing the pivot bracket, part no. 100561, to the side of the saw frame as close to the front of the drive wheel as possible as shown in the drawing below. Installation consists of permanently bolting the pivot bracket to the saw.

The pusher bar comes equipped with several holes for various manufacture's models of flat saws. Raise the saw so that the centerline of the saw blade shaft is approximately 5 inches above the ground. Place the assembled head on the saw over the blade so that the blade shaft centerline is centered in the slot of the head as shown below.

Select a hole in the pusher bar for the saddle block that permits mounting the pivot bracket as far back from the vacuum head and as close to the drive wheel axle as possible. Temporarily clamp the pivot bracket to the saw frame so that the pivot pin is 5 inches above the ground and using it as a template drill two 3/8" diameter mounting holes through the saw frame. Secure the pivot bracket to the frame with the bolts provided.



5.5 INSTALLATION OF THE FRONT VACUUM HEAD GUIDE PIN:

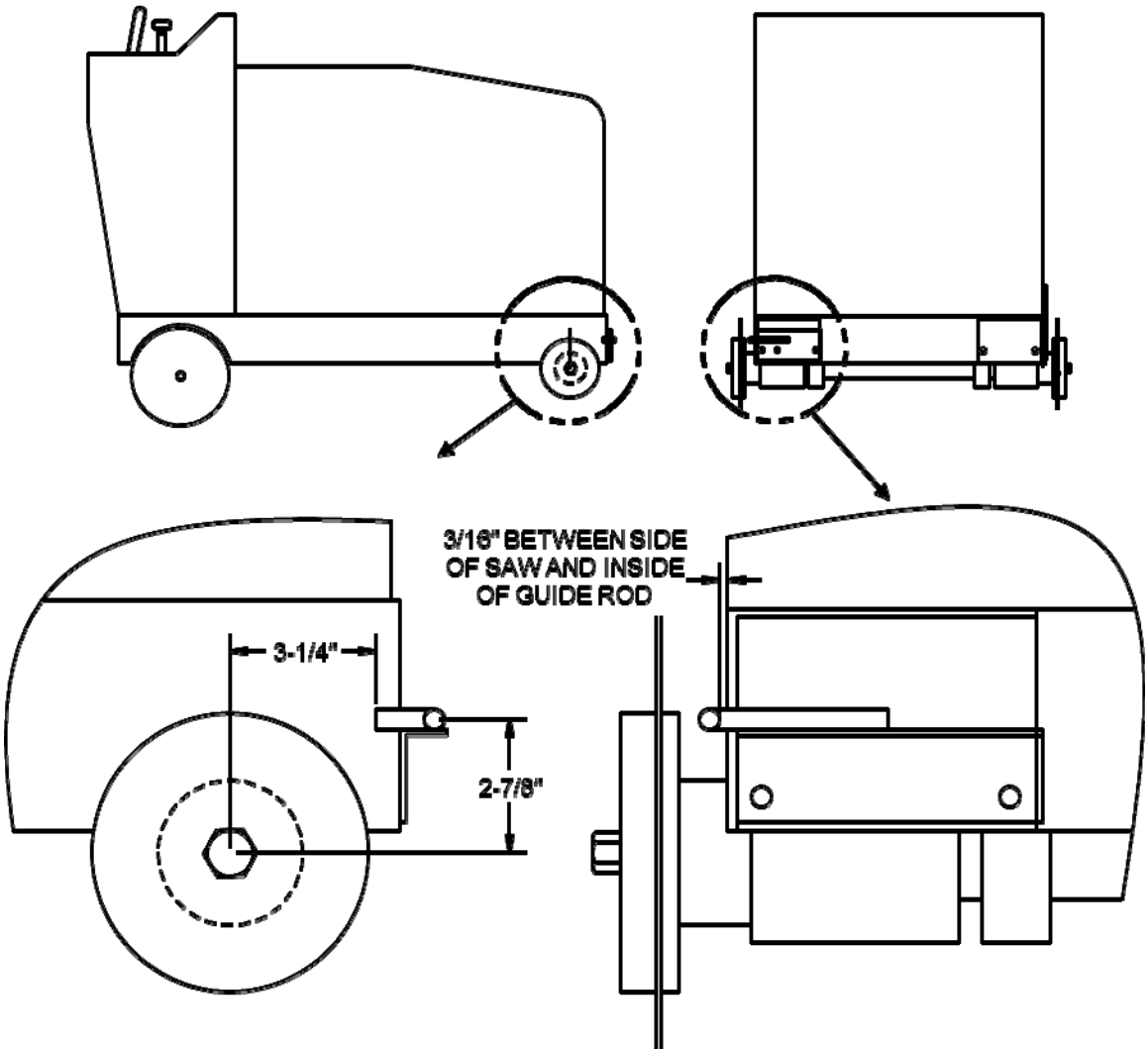
The installed right hand front guide pin is show in the picture below. The front guide pin engages a slot on the side of the vacuum head to both, hold the vacuum head in position preventing side to side movement and to raise the vacuum head as the saw blade is raised out of the cut. Left hand front guide pins are available from the factory but are not normally supplied unless specifically ordered.

There are two types of front guide pins. Those that bolt to the front of the saw frame using existing bolts located on the frame and those that require drilling mounting holes into the front of the saw frame. Because each saw manufacture uses somewhat different hole arrangements and frame dimensions, most front guide pins are unique to the saw manufacture and model number. The table below lists the right hand front guide part number for various manufactures and models.

Saw Manufacture	Series/model no.	RH Front Guide P/N	Drilling required
Husqvarna (Meco)	FS 4400, FS 4800, FS 6100	100516	No
Husqvarna (Target)	FS 4800	100637	Maybe
Husqvarna (Target)	FS 6600	100637	No
Meco	M-35, M-40, M-60	100516	No
Morley	M44, M48, M62	100653	No
Morley	M62	100653	1 hole
MK	4000	100659	No
MK	6000	100658	No
Multiquip	4030, 7060	100637	Yes

Multiquip Models SP 7060 and SP 4330

For saws without front mounting bolts and saws with bolts not matching the predrilled holes in the guide pin, it will be necessary to either drill holes in the guide pin bracket to match the saw bolt locations or drill holes in the saw frame to match the holes in the guide pin bracket using the drawing below to properly locate the guide pin. If the saw frame is too short, use spacers under the front guide pin mounting plate.



CAUTION: Improperly locating the front guide pin with respect to the saw blade shaft will prevent the vacuum head from operating properly.

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