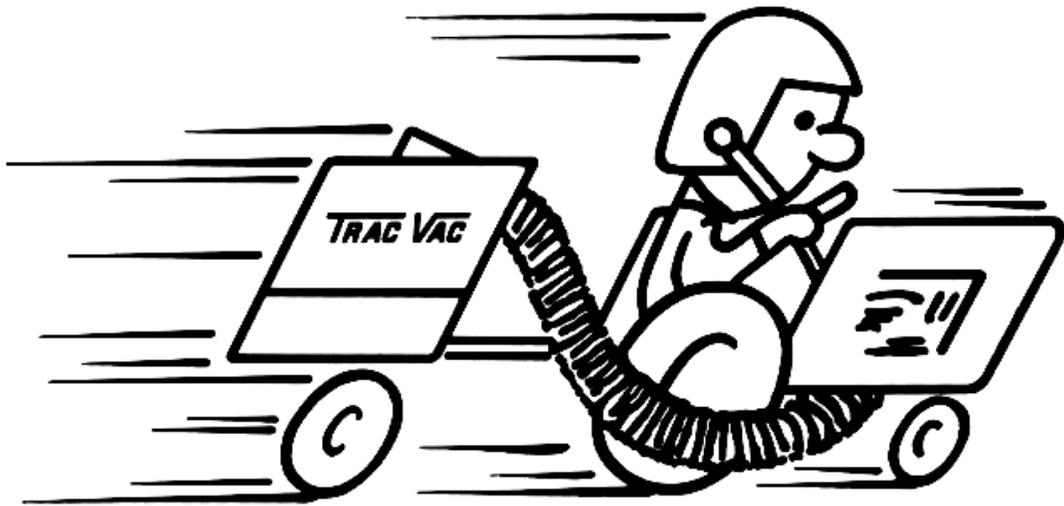


TRAC VAC

ANGLE KIT for F.M. BLADE



Operating and Assembly Manual

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Thorntown, IN 46071**

BLADE INSTALLATION INSTRUCTIONS

If your front mount blade is already installed and you are only incorporating the angle kit into it then remove lift spring, the 3/8" x 4" eyebolts and springs for the trip over safety, the 3/8" locknut holding the safety chain on and slip the chain off the bolt, and remove the blade from the carrier frame by removing the 1/2" hardware then skip to step 4. **(FIG. A)** If you are installing the blade and pivot at the same time follow all instructions below.

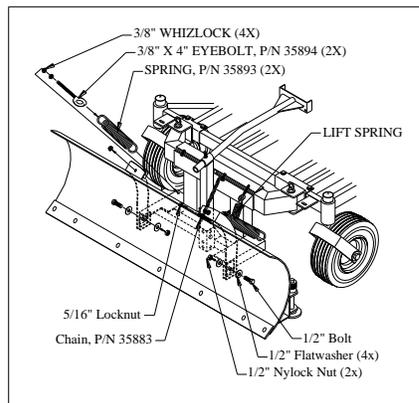


Fig. A

1. Install tractor specific mountings according to instructions provided with kit. Do not tighten hardware for mounts, leave them loose. Pin cross tubes in place. Slip pins (7) into lower half of blade mount (2). **FIG. 1**
2. Orient half brackets around crosstubes as illustrated and bolt together two halves using four 5/16" x 1" bolts and whizlock nuts on bottom side of brackets and one 5/16" x 1" bolt on top mount point just right of center (as sitting on tractor) see picture. Once again do not tighten, just snug bolts. **FIG. 2**
3. Slide carrier frame (3) onto bottom of lower half of blade mount (2) as shown and secure by sliding the two pins (7) through the holes in the carrier frame and securing with hairpin cotter provided. Slip 5/16" x 1 1/4" bolt through the hole position on top of brackets just left of center (as sitting on tractor) slip end link of chain (8) onto bottom of bolt and secure with 5/16" whizlock nut. **FIG. 3**
4. Attach pivot plates together using 1/2" x 1 1/2" bolt and 1/2" locknut. Attach blade angle assembly to carrier frame as shown using 1/2" x 1" bolts and 1/2" whizlock nuts provided. **FIG. 4**
5. Attach blade (12) to pivot assembly using the 1/2" bolt, flatwashers, and nylocks provided with blade. **FIG. 5**
6. Spin one 3/8" whizlock nut onto 3/8" x 4" eyebolt (11) about halfway, with flange on nut away from eye on eyebolt. Hook a spring (19) into hole on side of pivot assembly as shown. Hook eyebolt with whizlock onto opposite end of spring just installed and pass the threaded end of the eyebolt through the mount tab on the back of the blade as illustrated. Secure with another 3/8" whizlock nut. Repeat for the opposite side. Note: these two trip spring assemblies are a safety feature of the blade, when contact is made with a hard or heavy object at ground level the springs allow the blade to trip over to ease the shock on operator and tractor. The tighter the springs are installed, the harder the blade is to trip. Adjust tension to your preference. **FIG. 6**
7. For the blade pivot to work correctly the pivot assembly needs to be level when the blade is in contact with the ground. Level the pivot plate with a small level. With the assembly level, the hole location in pivot assembly should line up directly over slot in carrier frame. **FIG. 7**
8. Secure pivot assembly to carrier frame (3) with 1/2" x 1" bolt (fed from inside to out), 1/2" flatwasher and 1/2" whizlock nut. Repeat for opposite side. **FIG. 8**
9. Spin one 5/16" whizlock nut onto 5/16" x 2 1/4" eyebolt (9) about halfway, with flange on nut away from eye on eyebolt. Slip eyebolt with whizlock through one of the remaining holes in half brackets as shown (eye pointed down) and secure with second 5/16" whizlock. Repeat for hole in opposite side. Note: These spring assemblies are the lift spring assemblies, the tighter you install the springs, the harder it is to push down to make contact with the ground. Adjust the tension on the lift springs to your preference. **FIG. 9**
10. Slide kick tube (5) into push tube (4) and secure with 5/16" x 3/4" square set screw (finger tight only). Slide assembly into receiver on carrier frame. Adjust height to best fit your specific application and secure with 3/8" x 2 1/4" bolt and whizlock nut. Loosen 5/16" x 3/4" square head set screw and slip kick tube (5) to the most comfortable position for operation and secure with the 5/16" x 3/4" square head set screw. **FIG. 10**
11. Slip 5/16" x 2 1/2" bolt thru hole in kick tube above the receiver in the main carrier frame. Slip chain link over end of 5/16" x 2 1/2" bolt and secure with 5/16" locknut. Note: to determine what link of chain to secure to bolt, push blade down and hold to the ground pull the chain tight and then loosen the chain by one link.. Depending on what adjustment you have on your kick tube/push tube assembly different links on the chain may need to be used. **FIG. 11**
12. Tie a knot in pull rope and slip through the hole in the latch handle (16). Slip pull handle (13) onto rope into a comfortable position from the operators seat. Tie a knot before and after the pull handle to secure it in place on the rope. Tie opposite end off to something close enough to reach from the operator's position. Tighten all loose hardware and test operation of unit. **FIG. 12**

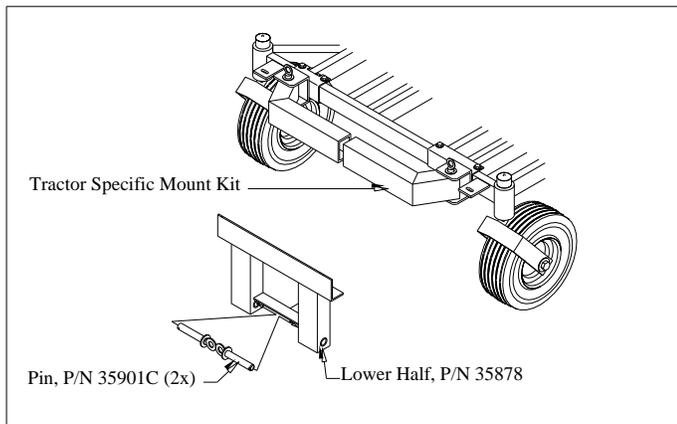


Fig. 1

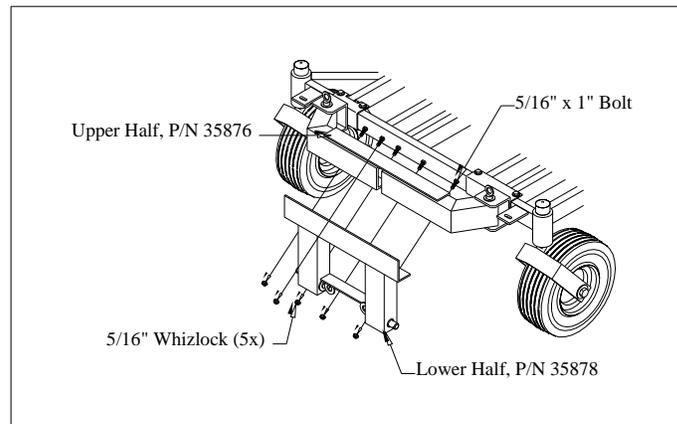


Fig. 2

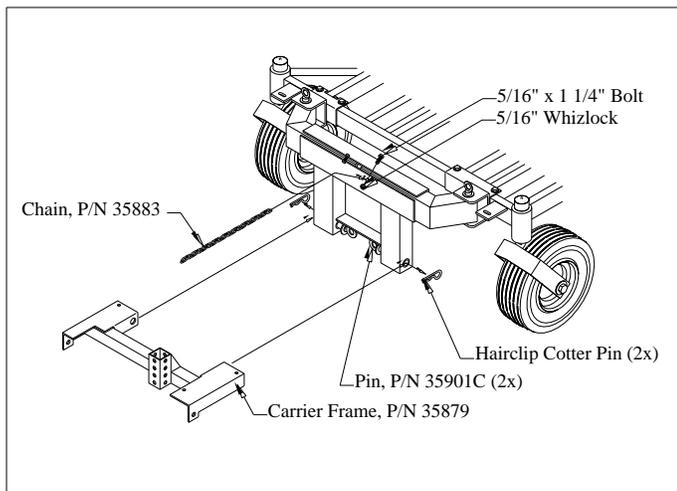


Fig. 3

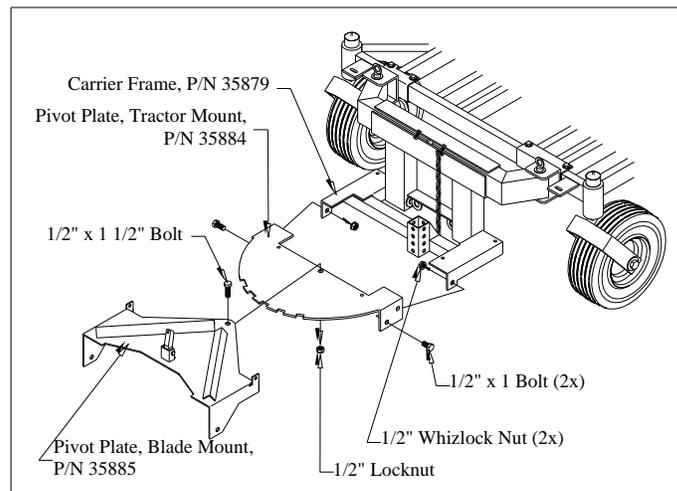


Fig. 4

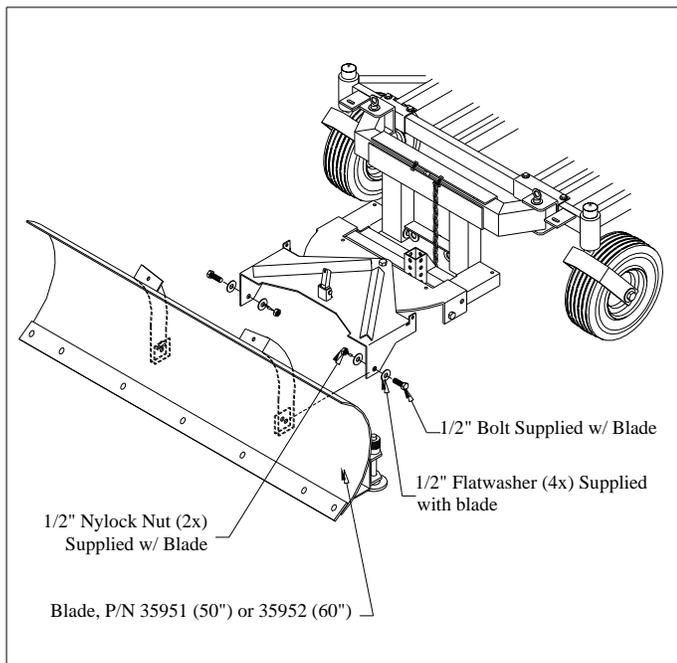


Fig. 5

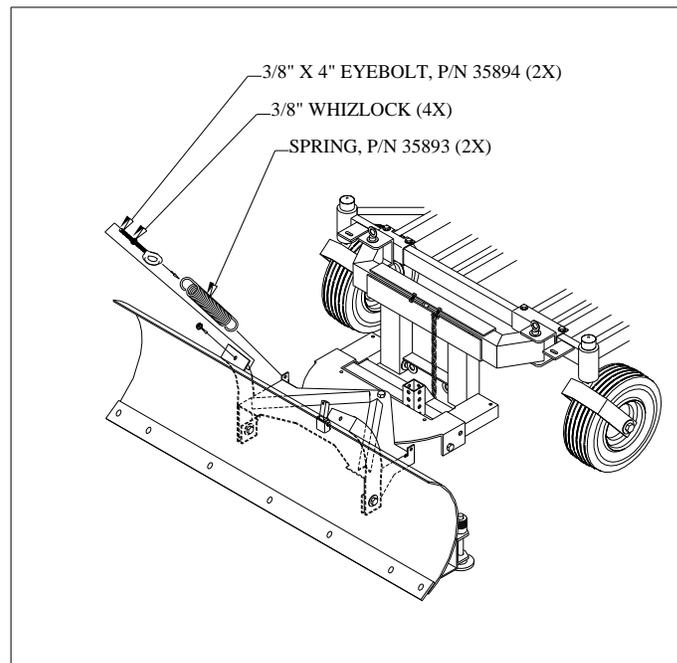


Fig. 6

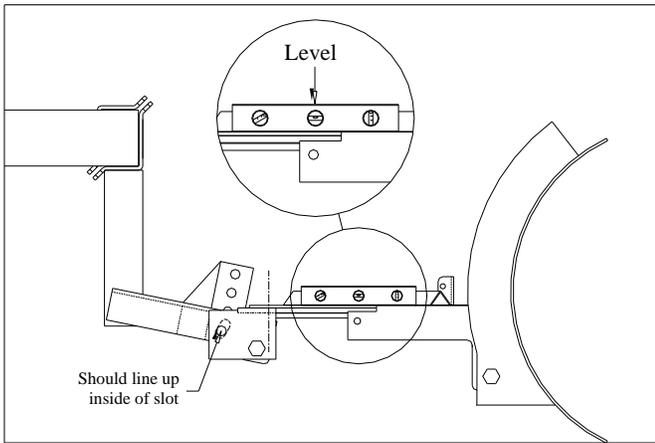


Fig. 7

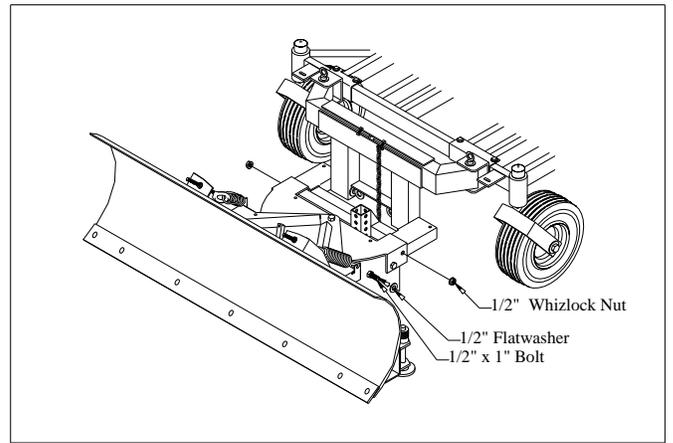


Fig. 8

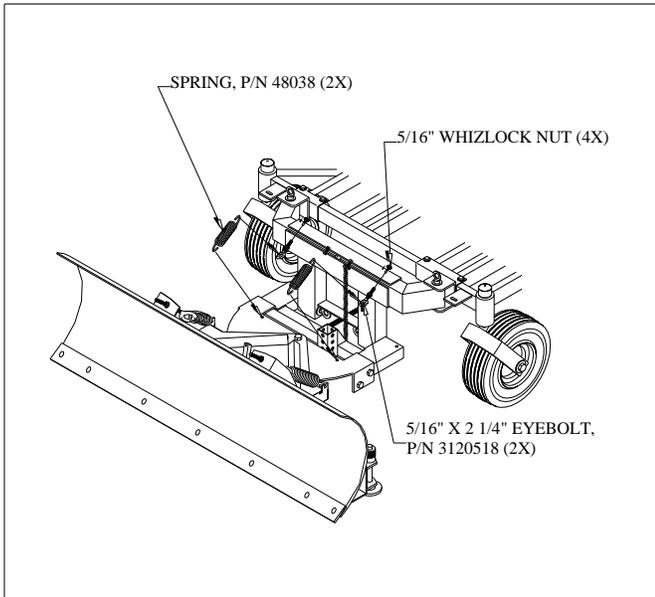


Fig. 9

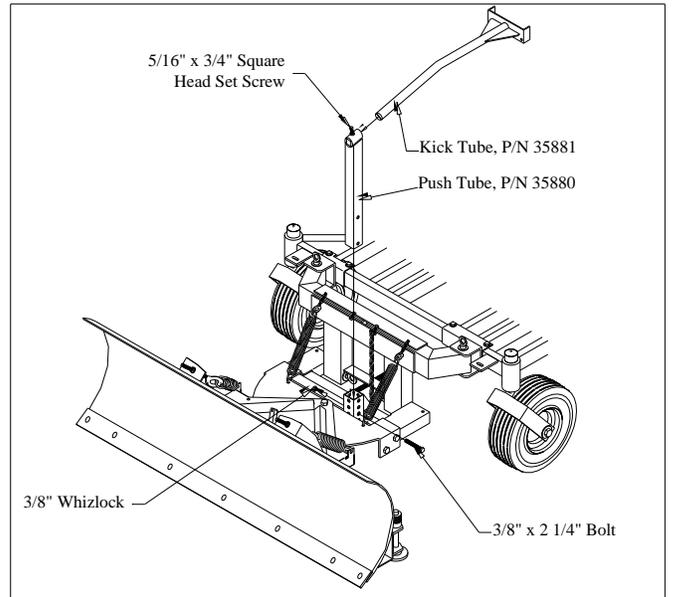


Fig. 10

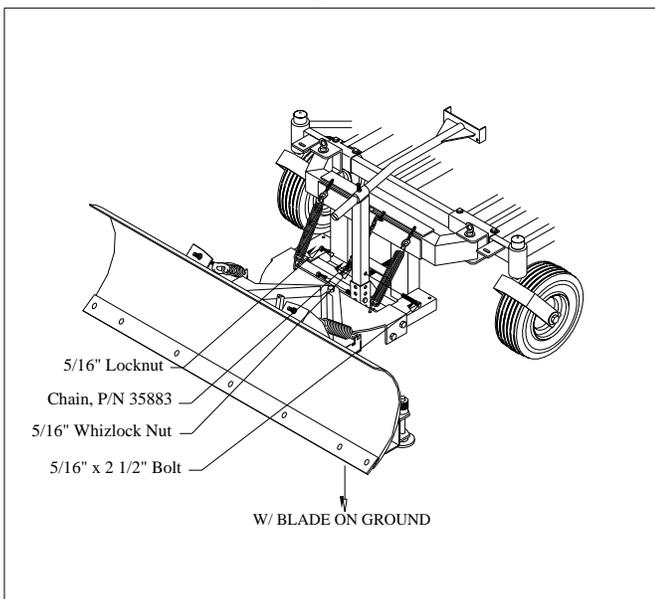


Fig. 11

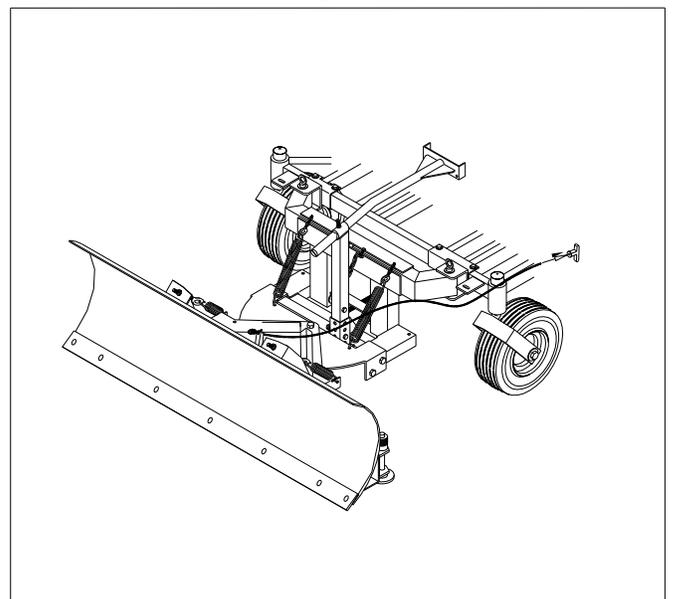
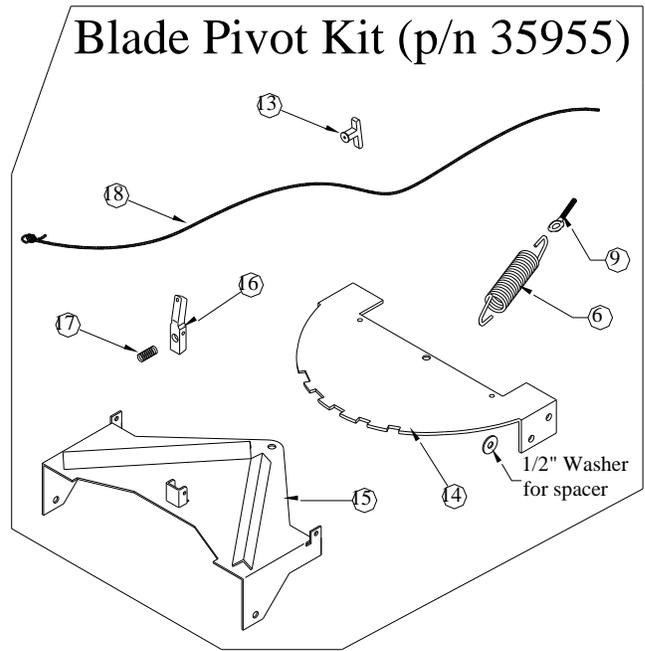
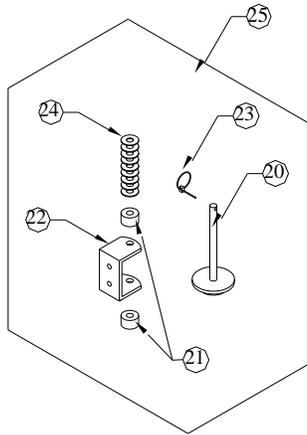
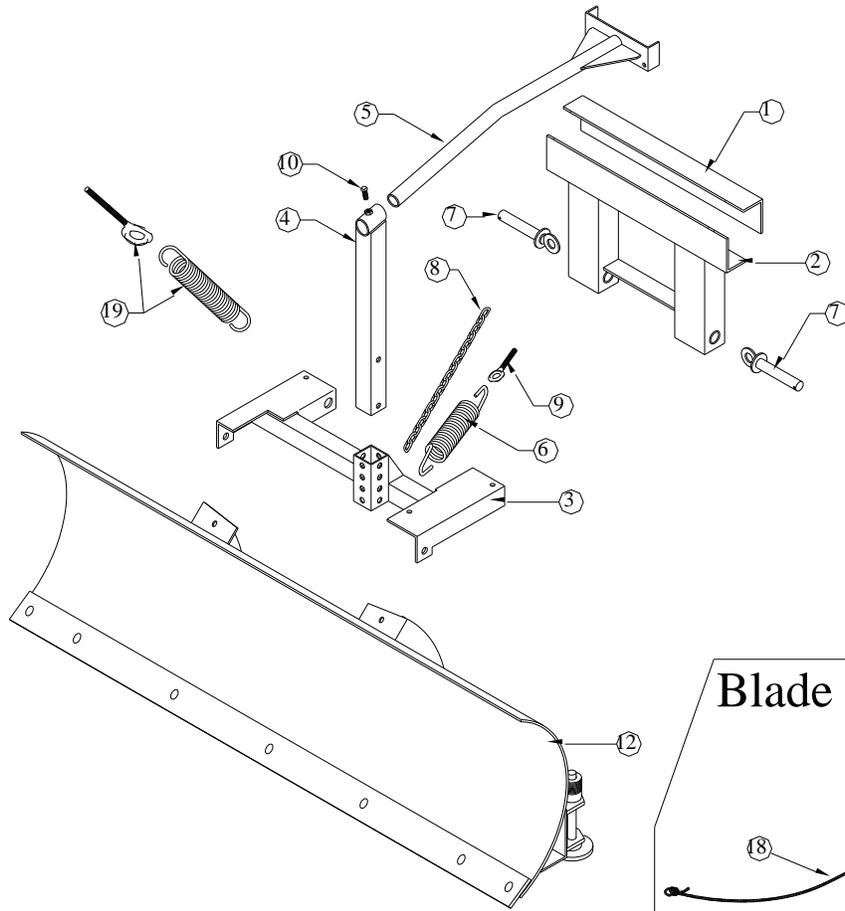


Fig. 12



KEY	PART NO.	DESCRIPTION	QTY
1	35876	BOTTOM HALF, SPREADER MOUNT	1
2	35878	LOWER HALF, BLADE MOUNT	1
3	35879	CARRIER FRAME, BLADE MOUNT	1
4	35880	PUSH TUBE, BLADE MOUNT	1
5	35881	KICK TUBE, BLADE MOUNT	1
6	48038	SPRING	2
7	35901C	PIN, FM	2
8	35883	CHAIN, STOP	1
9	3120518	5/16" X 2 1/4" EYEBOLT	1
10	3121875	3/8"-16 X 3/4" SQ. HEAD SET SCREW	1
12	35951	BLADE, 50"	1
	35952	BLADE, 60"	1

KEY	PART NO.	DESCRIPTION	QTY
13	35892	PULL ROPE HANDLE	1
14	35884	PIVOT PLATE, TRACTOR MOUNT	1
15	35885	PIVOT PLATE, BLADE MOUNT	1
16	35886	LATCH HANDLE	1
17	35887	LATCH SPRING	1
18	35889	BRAIDED PULL ROPE	1
19	35893A	SPRING SET, BLADE TRIP, W/EYEBOLTS	1
20	35895	SKID, BLADE	1
21	35896	BUSHING	2
22	35897	SKID MOUNT BRACKET	1
23	85042	LYNCH PIN	1
24	5000802	1/2" FLAT WASHER	9
25	35896	KIT, SKID, & HARDWARE REPLACEMENT	

OPERATING PROCEDURE

1. Inspect area to be cleared, pickup any harmful objects and note any locations of immovable objects that may cause damage or injury and stay clear of them.
2. Your blade was designed to hold itself down under load so the operator does not have to keep his foot on the actuation pedal while blade is in use. Push the blade to the ground and engage the material you wish to move, once engaged remove foot from actuation pedal and continue forward. Your blade should stay in contact with the ground until forward momentum is discontinued. If your blade will not hold itself down under load, the lift springs are too tight and need to be loosened. Note: for lighter materials loosening the lift springs may not work, constant pressure on actuation pedal may be necessary.
3. Your blade also has a trip over feature to the blade for added safety. If contact is made with an immovable object at the bottom edge of the blade the trip springs will allow the blade to fold over so the force of making contact with the object is greatly reduced on equipment and personnel. These springs can also be adjusted to your preference, the looser the spring the easier the blade will trip over.
4. To angle the blade pull the 3/16" rope to release the latch and push the corner of the blade into something or whip the controls quickly until the proper angle is achieved, make sure the latch re-catches at the angle you want.
5. When operating on any slope or grade exercise extreme caution.
6. Do not operate with passenger on blade or tractor.
7. Periodically check all fasteners for tightness.

EXTENDED STORAGE PROCEDURE

1. Wash and dry unit thoroughly.
2. Inspect unit for any damage.
3. Relieve tension on all springs.

TRAC-VAC WARRANTY POLICY

Midwest Equipment Manufacturing, Inc. will repair or replace, free of charge, any part, or parts that are defective in material or workmanship or both for a period of one year residential use, and 90 day's for commercial and rental use. The purchaser will pay transportation charges on parts submitted for replacement under warranty. For warranty service, contact your local dealer from whom the unit was purchased. There are no other express or implied warranties. Some states do not allow limitations on how long an implied warranty lasts, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation and exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

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