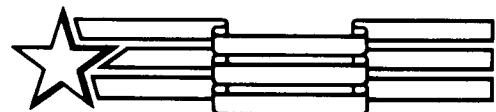


Ingersoll

**HYDRAULIC BLOWER
MODEL B98, B98-3, B98-B
Operator's Manual No. 8-55361**

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QUALITY IN THE AMERICAN TRADITION

Ingersoll Equipment Co., Inc.

Winneconne, Wisconsin 54986-9576



This Safety Alert Symbol Indicates Important Safety Messages In This Manual When You See This Symbol Carefully Read The Message That Follows and Be Alert To The Possibility Of Personal Injury Or Death

IF THIS MACHINE IS USED BY AN EMPLOYEE OR IS LOANED OR RENTED, MAKE ABSOLUTELY CERTAIN THAT THE OPERATOR(S), PRIOR TO OPERATING:

- 1. IS INSTRUCTED IN SAFE AND PROPER USE.**
- 2. REVIEWS AND UNDERSTANDS THE MANUAL(S) PERTAINING TO THE MACHINE.**

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WARNING

BEFORE STARTING ENGINE

**STUDY OPERATOR'S MANUAL SAFETY MESSAGES
READ ALL SAFETY SIGNS ON MACHINE
CLEAR THE AREA OF OTHER PERSONS**

**LEARN & PRACTICE SAFE USE OF
CONTROLS BEFORE OPERATING**

IT IS YOUR RESPONSIBILITY TO UNDERSTAND AND FOLLOW MANUFACTURER'S INSTRUCTIONS ON MACHINE OPERATION, SERVICE, AND TO OBSERVE PERTINENT LAWS AND REGULATIONS. OPERATOR AND SERVICE MANUALS MAY BE OBTAINED FROM YOUR EQUIPMENT DEALER.

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SAFETY MESSAGES



The Safety Messages contained in this manual are to be used together with the safety messages appearing in the tractor, mower and dump cart operator's manuals. Be sure to review these manuals carefully before operating the mower-hydraulic blower-dump cart combination.



DANGER: Spinning Blade.
See operator's manual before attempting to clear plugged discharge chute. Contact with blade can result in serious injury.



CAUTION: Either the entire grass catcher or the mower discharge chute guard must be in place before operating the mower.



WARNING: Flying Debris.
Operate mower only with discharge chute guard/cover or complete grass catcher in place. Debris may cause injury.



CAUTION: Do not permit children or pets in the area while mowing.



WARNING: Spinning Blade.

1. Do not put hands, feet or probes into this chute (lower chute extension) while it is attached to mower.
2. Do not remove or install this chute until engine has been shut off, key removed, parking brake set, and all motion has stopped. Contact with blade can result in serious injury.



Disengage attachment drive clutch and Hydraulic PTO, stop engine and wait for all motion to stop before opening bagger cover for any purpose. Contact with blade can result in serious injury.

IMPORTANT: Always install new decals whenever the old decals are destroyed, lost, painted over or illegible. When individual parts are replaced that have decals attached, be sure to install a new decal with the new part. Replacement decals are available from your Dealer.

INTRODUCTION

The Ingersoll Hydraulic Blowers are designed for use with 14 HP, 16 HP or 18 HP Ingersoll hydraulic drive tractors.

Read this manual carefully before installing or operating the hydraulic blower. Obey all safety messages in this manual and on the machine before attempting to clean a clogged discharge chute.

The terms "Right, Left, Front and Rear" as used in this manual indicate directions when you are in the operator's seat in the normal operating position.

NOTE: Ingersoll Equipment Co., Inc., reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

APPLICATION CHART

BLOWER MODEL	TRACTOR MODEL	ADDITIONAL REQUIRED EQUIPMENT
B98	224, 226, 444, 446, 448	Hydraulic PTO 1000 lb capacity dump cart * N40, N44, N46 mower
B98-3	444, 446, 448, 648	Hydraulic PTO 1000 lb capacity dump cart N40, N44, N46 mower 3-point hitch
B98-B	224, 226 444, 446, 448	Hydraulic PTO * N40, N44, N46 mower

*Mower models prior to "N" series must have C28870 kit installed.

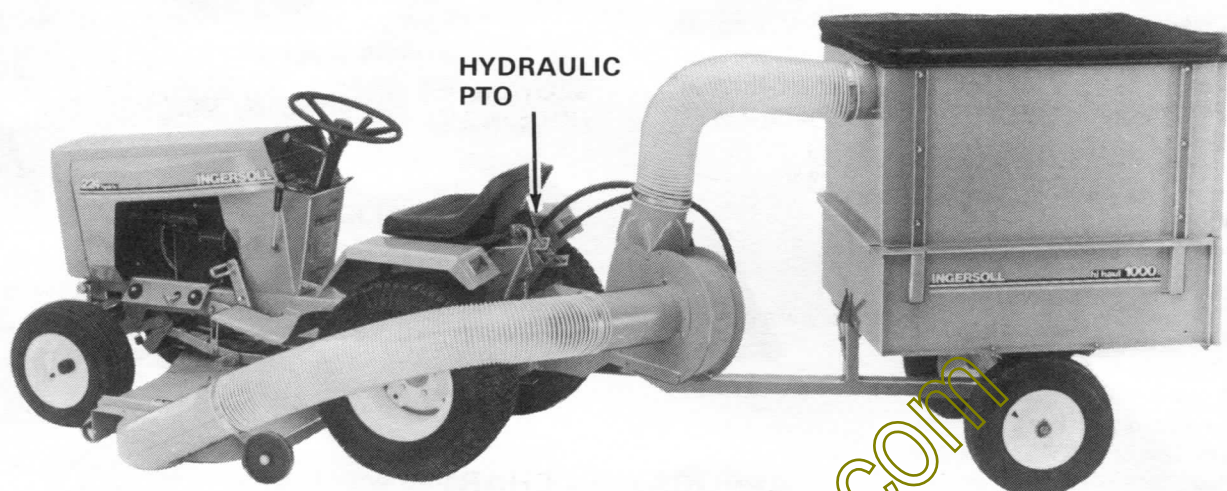


FIGURE 1 Model B-98 Hydraulic Blower Shown Mounted on Model 224 Tractor with Hydraulic PTO, Dump Car and Required Mower

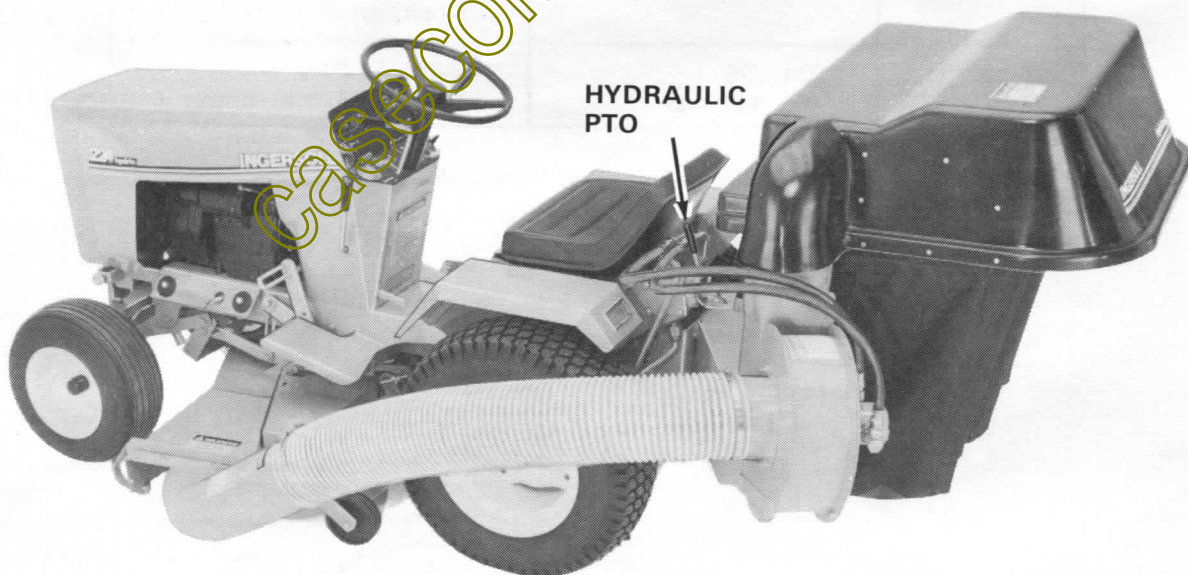


FIGURE 2 Model B98-B Hydraulic Blower shown mounted on model 224 tractor with Hydraulic PTO, bagger and required mower.

OPERATION



OPERATING CONTROLS

The hydraulic blower is controlled with the hydraulic PTO lever.

Pull the lever forward to start the blower.

Push the lever rearward to the neutral position to stop the blower. The blower will coast to a stop shortly after the lever is moved to the neutral position.

IMPORTANT: The blower motor can not operate and excessive pressure will occur if the hydraulic PTO lever is pushed fully rearward for reverse direction or if the hoses are incorrectly installed.

A special nut and bolt is included with your Hydraulic Blower to block the hydraulic PTO lever from being pushed rearward.

To stop the lever from being pushed rearward, install the nut and bolt in the front slot of the PTO valve handle bracket.

PREPARATION



The area to be mowed should be cleared of all large twigs, sticks, rocks and other objects which might plug the discharge chute or damage the hydraulic blower.



CAUTION: Do not permit children or pets in the area while mowing.

MOWING AND BLOWING GRASS

The blowing of grass clippings is dependent on high air movement from the mower through the chute to the dump cart. The clippings are airborne from the mower to the dump cart. To achieve proper blowing, the following guidelines must be observed.

1. Cut dry grass only:

Grass wet from dew or rain is more apt to stick to the blower chute and mower deck causing a clog.

2. Cut grass before it grows too tall or dense:

If necessary to cut heavy grass, set mower at highest setting and reduce the width of cut. Keep

engine at maximum speed. Take several passes lowering the height adjust lever one notch after each pass.

3. Cut grass with height adjust lever in a higher cutting position:

This allows more air to enter under the mower deck to propel clippings into the dump cart.

4. Cut grass at maximum engine speed and slow ground speed:

This provides maximum blade tip speed and blower speed to cut and propel clippings efficiently.

5. Cut and blow grass with clean deck, chute and dump cart cover fabric:

Air must be expelled from the dump cart through the fabric mesh, therefore, keep the fabric clean of accumulated clippings.

This will allow collected clippings to be moved with less resistance, and minimize chance for plugging.

6. Do not overfill the dump cart or bags.

As the dump cart or bags are filled, air discharge is reduced, thereby increasing the chance of plugging.

7. Level mower deck properly:

Following mower deck leveling procedure as described in mower operator's manual. An incorrectly leveled mower deck will not cut grass correctly.

WARNING: Spinning Blade.

1. Do not put hands, feet or probes into this chute (lower chute extension) while it is attached to mower.

2. Do not remove or install this chute until engine has been shut off, key removed, parking brake set, and all motion has stopped. Contact with blade can result in serious injury.



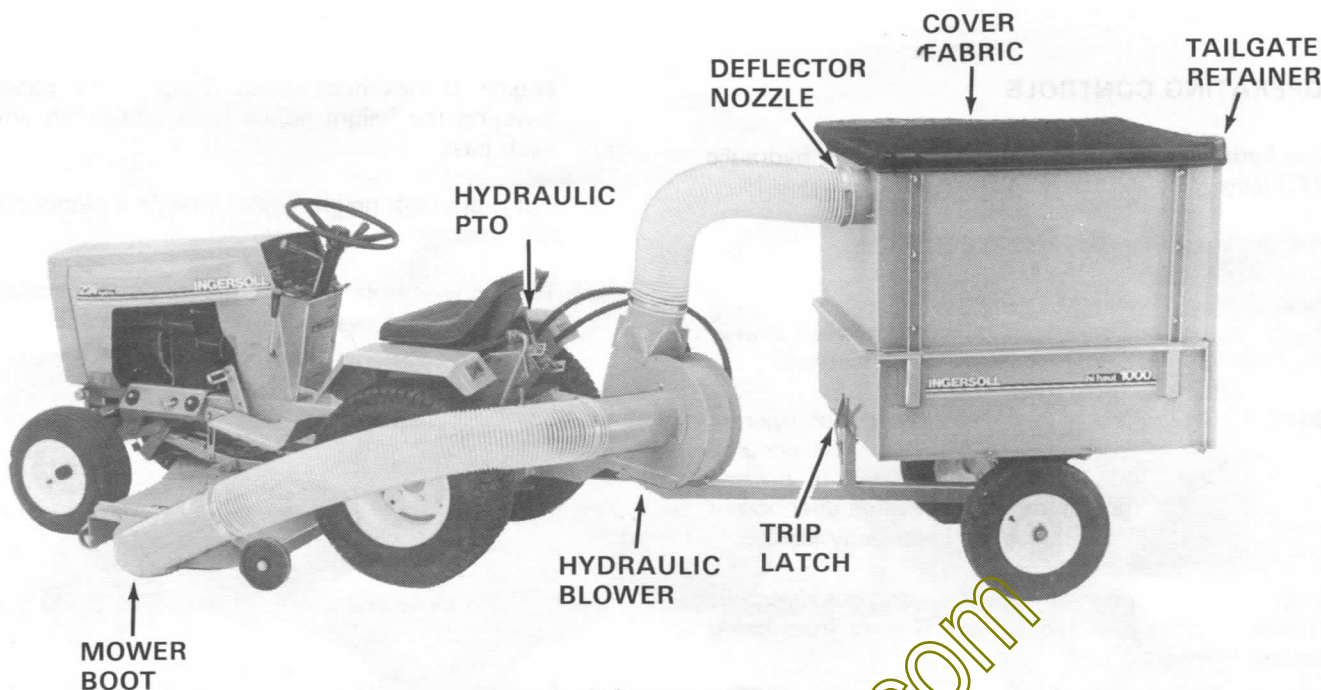


FIGURE 3

UNPLUGGING DISCHARGE CHUTE

1. a. Disengage mower.
- b. Put hydraulic PTO in the neutral position.
- c. SHUT OFF ENGINE.
- d. Remove key.
- e. Set parking brake.
- f. WAIT FOR ALL MOTION TO STOP.
2. Release chute clamp at mower deck (or at dump cart if plug is at dump cart).
3. Clear plugged material.
4. Install chute(s) and tighten clamp(s).



DANGER: Spinning Blade.
See operator's manual before attempting to clear plugged discharge chute. Contact with blade can result in serious injury.

EMPTYING THE DUMP CART

1. Back the dump cart to the desired dumping site.

IMPORTANT: Do not back up to or empty the dump cart near a fire. The contents of the dump cart may be flammable.

2. Make sure the mower, hydraulic blower and engine are shut off and all motion has stopped before emptying the dump cart.
3. Release the chute clamp at the dump cart. Remove the chute from the deflector nozzle.
4. Remove the cover fabric from the top of the dump cart.
5. Slide the tail gate up to clear the dump cart side panels.
6. Release the trip latch and dump the cart.
7. After the debris is removed from the dump cart, rotate the cart forward. The trip latch will automatically secure the cart.
8. Install the chute on the deflector nozzle at the cart and secure with the clamp.



WARNING: Flying Debris.
Operate mower only with discharge chute guard/cover or complete grass catcher in place. Debris may cause injury.

9. Install the tail gate. Make sure the retainers fully engage the side panels.
10. Install the cover fabric.

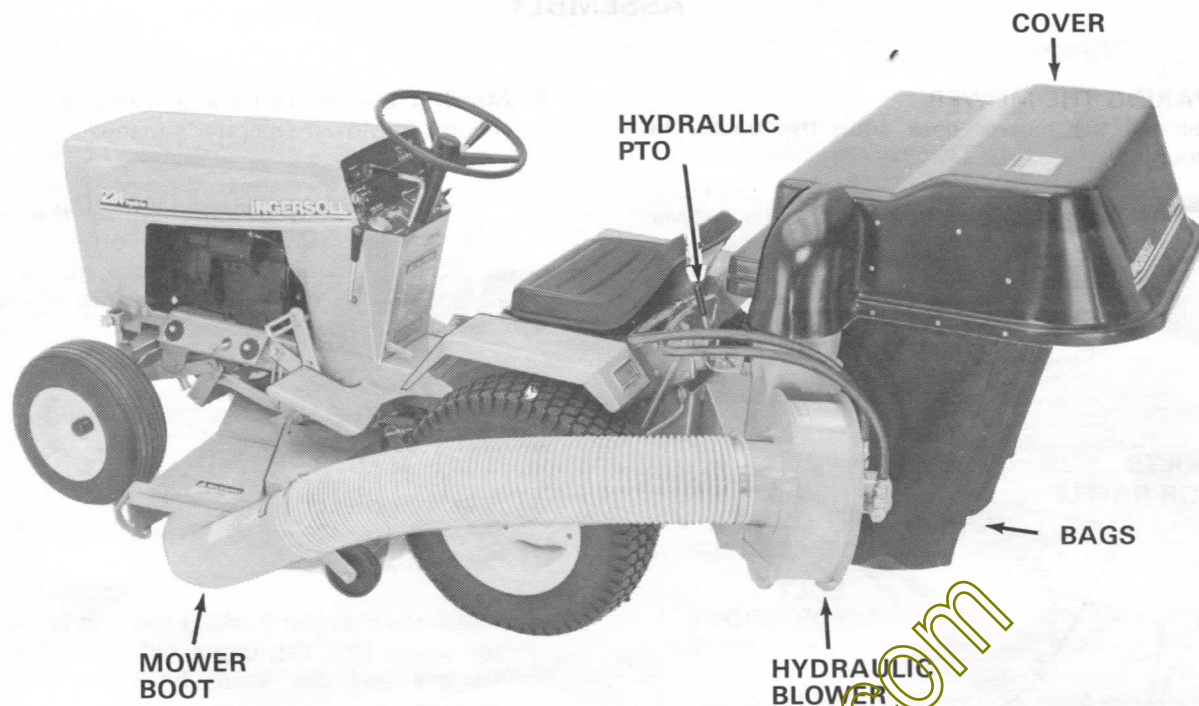


FIGURE 4

EMPTYING THE BAGS

1. Drive the tractor to the desired dumping site.

IMPORTANT: Do not back up to or empty the bags near a fire. The bags and their contents may be flammable.

2. Make sure the mower, hydraulic blower and engine are shut off and all motion has stopped before emptying the bags.



Disengage attachment drive clutch and Hydraulic PTO, stop engine and wait for all motion to stop before opening bagger cover for any purpose. Contact with blade can result in serious injury.

- a. Tie the top of the plastic bag closed.
- b. Lay the bag on its side.
- c. Hold the rim or the handle at the bottom of the fabric bag while pulling the plastic bag out.

3. Lift the cover and allow it to pivot over center to rest on the fenders or steering wheel of the tractor.
4. Remove and empty the two outside bags first and the center bag last. Replace the center bag first and the two outside bags last. Hold the bag by the bottom handle when dumping the contents. Use the following procedure to remove plastic bags if used:

- a. Remove the fabric bag containing the plastic bag from the bagger bracket.



FIGURE 5

ASSEMBLY

PREPARING THE MOWER

1. Remove the mower deck from the tractor (if mounted).
2. Remove the discharge chute from the mower deck (if attached).

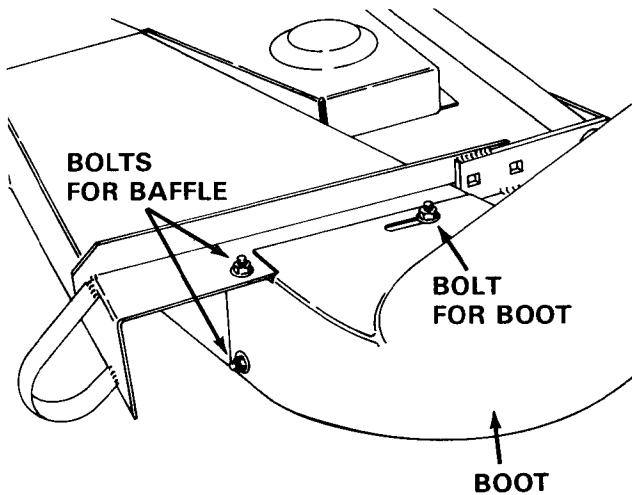


FIGURE 6

3. Attach baffle to boot with one bolt as shown in Figure 7. Leave bolt loose.
4. Attach boot and baffle to discharge opening using discharge chute mounting hardware. Slide boot fully rearward and tighten bolts.
5. Mark and drill hole in front of deck for second baffle bolt. Install and tighten the bolt.

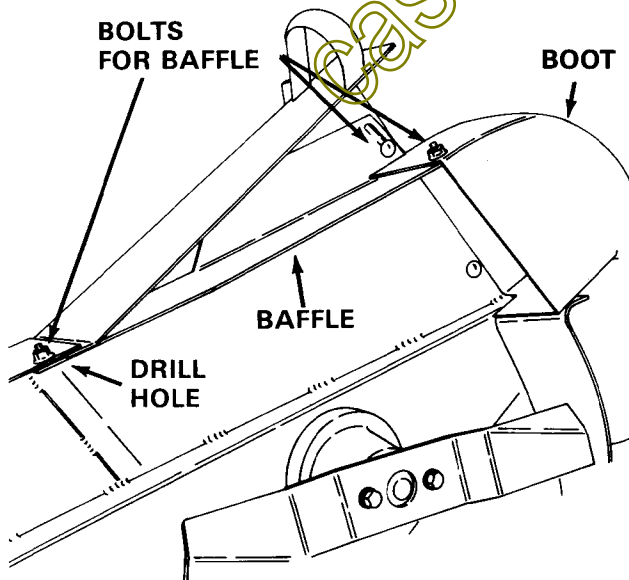


FIGURE 7

6. Attach mower to tractor in accordance with procedures in Mower Operator's Manual.



CAUTION: Either the entire grass catcher or the mower discharge chute guard must be in place before operating the mower.

PREPARING THE HYDRAULIC BLOWER MODELS B98, B98-B

1. Attach adapter plate to rear of tractor as shown in Figure 8. Use the longer bolts provided. Reinstall the drawbar.
2. Install the shoulder bushing and bolt to the adapter plate. Use the upper holes for 200 series tractors and the lower holes for 400 series tractors.
3. Attach the blower mounting bracket to the adapter plate. Install clevis pins from the outside in and safety pins in the upper holes to secure the unit.

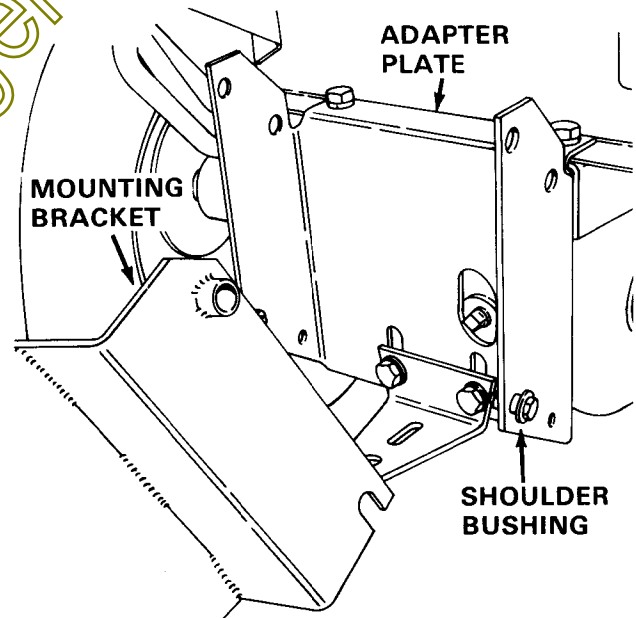


FIGURE 8

PREPARING THE HYDRAULIC BLOWER MODEL B98-3

1. Remove the sleeve adapter and top link (if installed) from the 3-Point Hitch.
2. Install the mounting bracket to the lower draft arms of the 3-Point Hitch as shown in Figure 9. Secure with klik pins.

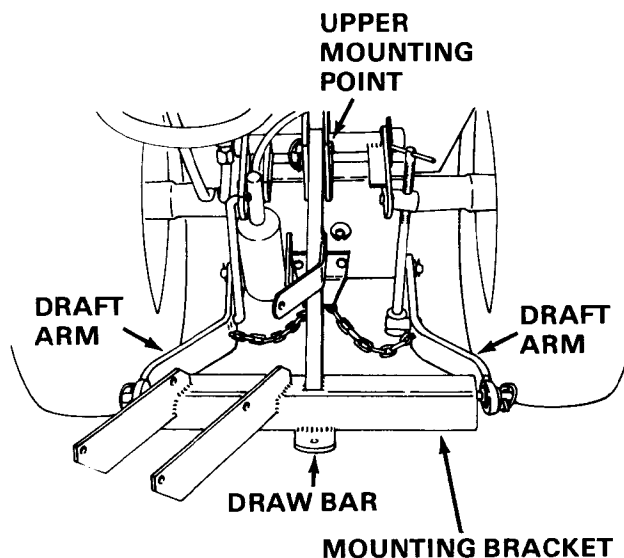


FIGURE 9

3. Raise or lower the 3-Point Hitch draft arms to align the upper hole in the mounting bracket with the top hole in the 3-Point Hitch frame. Install the clevis pin and klik pin.
4. Install the blower housing to the mounting bracket with bolts and nuts provided. See Figure 10.

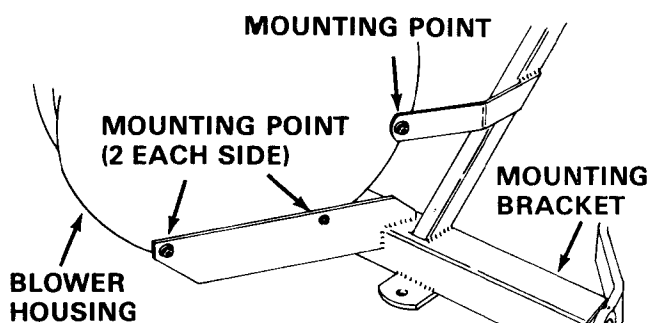


FIGURE 10

PREPARING THE BAGGER MODEL B98-B

1. Insert the bagger cover into the mounting brackets.
2. Lift the cover and allow it to pivot over center to rest on the fenders or steering wheel of the tractor.
3. Install the center bag first and the two outer bags last.
4. Close the cover.
5. Install intake duct on hydraulic blower.
6. Connect the grass discharge chute between the boot and hydraulic blower intake duct. Use the quick-release clamp at the boot connection.

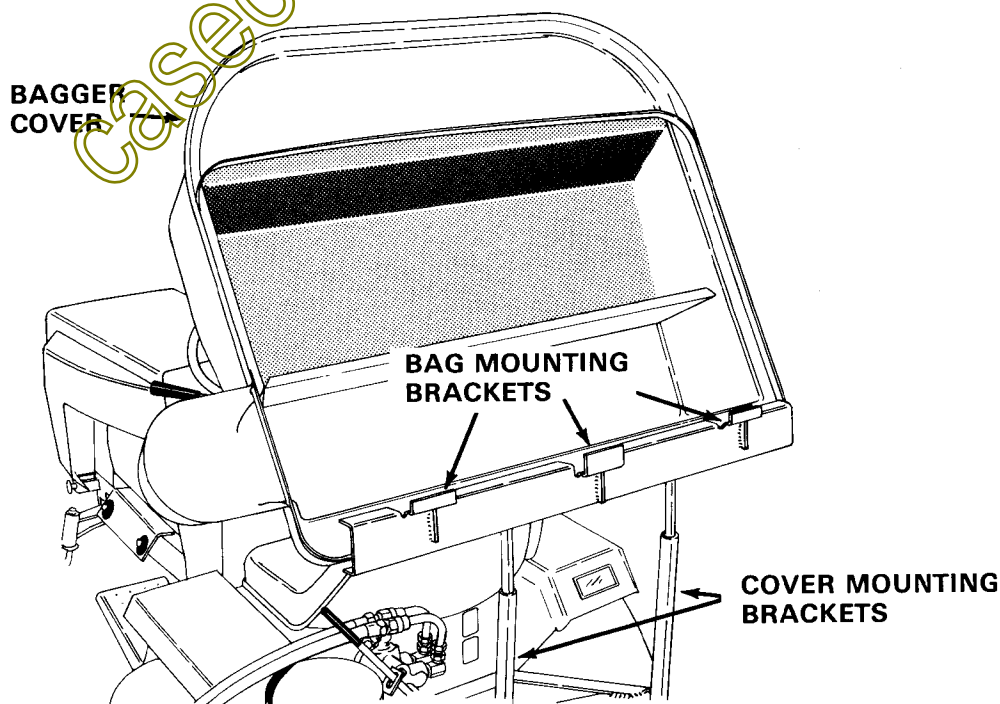


FIGURE 11

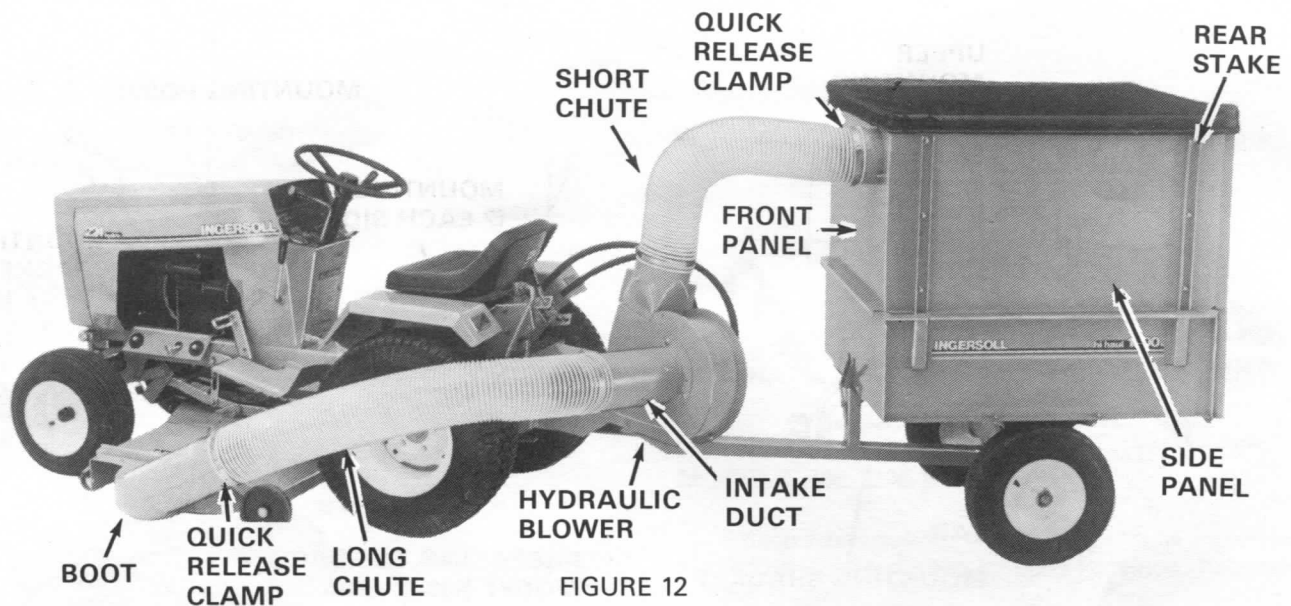


FIGURE 12

PREPARING THE DUMP CART MODEL B98 AND B98-3

1. Attach the dump cart side panels to the rear stakes as shown in Figure 6. Leave bolts loose.
2. Attach the dump cart front panel so it laps to the inside, and attach to sides and front stakes as shown in Figure 14. Leave bolts loose.
3. Insert the rear tail gate as shown in Figure 13. Push the tail gate fully down until the retainers engage the side panels. This will align the sides.

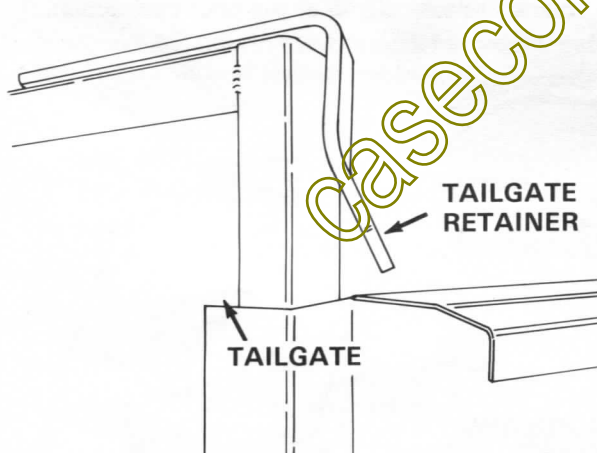


FIGURE 13

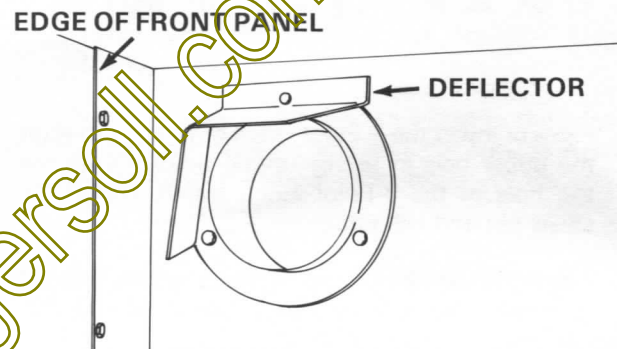


FIGURE 14

4. Tighten all bolts.
5. Install deflector nozzle from inside of front panel. (See Figure 14.)
6. Hitch the dump cart to the drawbar on the hydraulic blower unit.
7. Install intake duct on hydraulic blower.
8. Connect the longer grass discharge chute between the boot and hydraulic blower unit. Connect the shorter grass discharge chute between the hydraulic blower and the cart. The two quick-release clamps should be used at the boot and cart connections.

CONNECT THE HYDRAULICS (for the standard PTO Valve)

1. Install tubes to PTO valve as shown in figure 15.
(This step is for model B98-B only.)

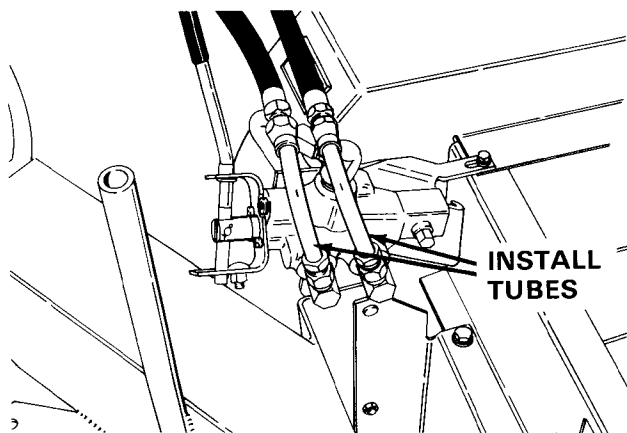


FIGURE 15

2. Connect the hydraulic hoses as shown in Figure 16.
3. Connect the hose from the front fitting on the PTO valve to the front fitting on the blower motor.
4. Mark the hose end and motor fitting to provide an easy reference for correct future installation.
5. Connect the hose from the rear fitting on the PTO valve to the rear fitting on the blower motor.
6. A special nut and bolt is included with your Hydraulic Blower to block the hydraulic PTO lever from being pushed rearward.

To stop the lever from being pushed rearward, install the nut and bolt in the front slot at the bottom of the PTO valve handle bracket.

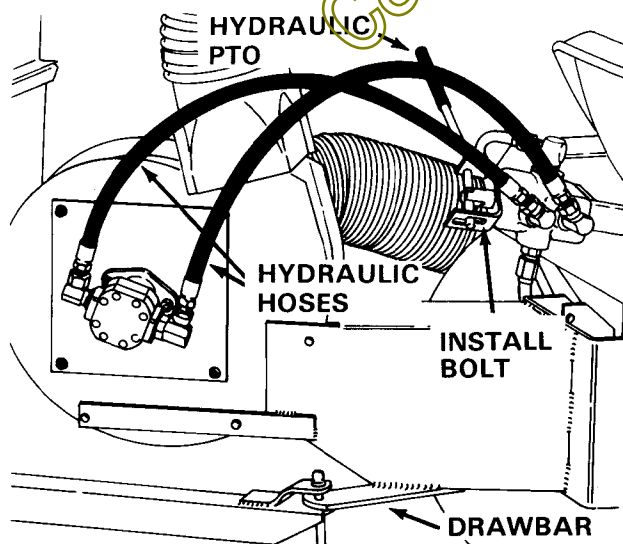


FIGURE 16 Hose connection shown for standard PTO Valve.

CONNECT THE HYDRAULICS (for modified PTO valve)

If the hydraulic PTO lever has been changed to operate a Model J32, K32, L32, or M32 Wood Splitter, the hoses must be connected the OPPOSITE of that shown in Figure 16.

1. Connect the hose from the front fitting of the PTO valve to the rear fitting on the blower motor. Mark the hose end and motor fitting to provide an easy reference for correct future installation.
2. Connect the hose from the rear fitting of the PTO valve to the front fitting of the blower motor.
3. A special nut and bolt is included with your hydraulic blower to block the PTO lever from being pushed rearward.

To stop the lever from being pushed rearward, install the nut and bolt in the rear slot at the top of the PTO valve handle bracket. (See Figure 17)

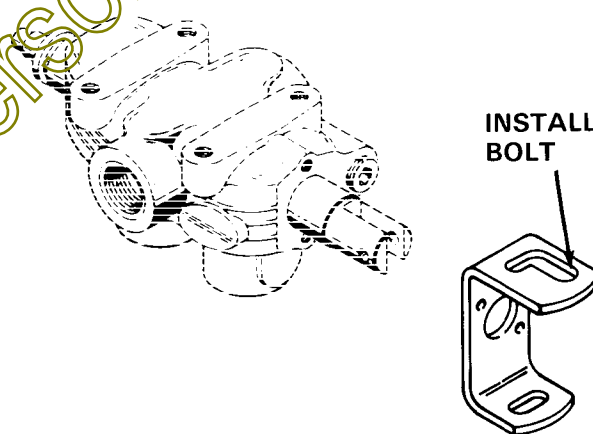


FIGURE 17

STORAGE

1. Thoroughly clean and remove all clippings from the dump cart, cover fabric, bags, chutes, blower and lawn mower deck. An accumulation of grass clippings can retain moisture and will promote the formation of mildew or rust.
2. Use touch-up paint to protect any exposed material.
3. Put the equipment in a dry, weather-protected area.
4. Loop one hydraulic hose on hydraulic PTO, and one hydraulic hose on the hydraulic blower motor. This prevents possible dirt entry and/or damage to tractor hydraulic system.
5. Reinstall the mower deck discharge chute.



CAUTION: Either the entire grass catcher or the mower discharge chute guard must be in place before operating the mower.

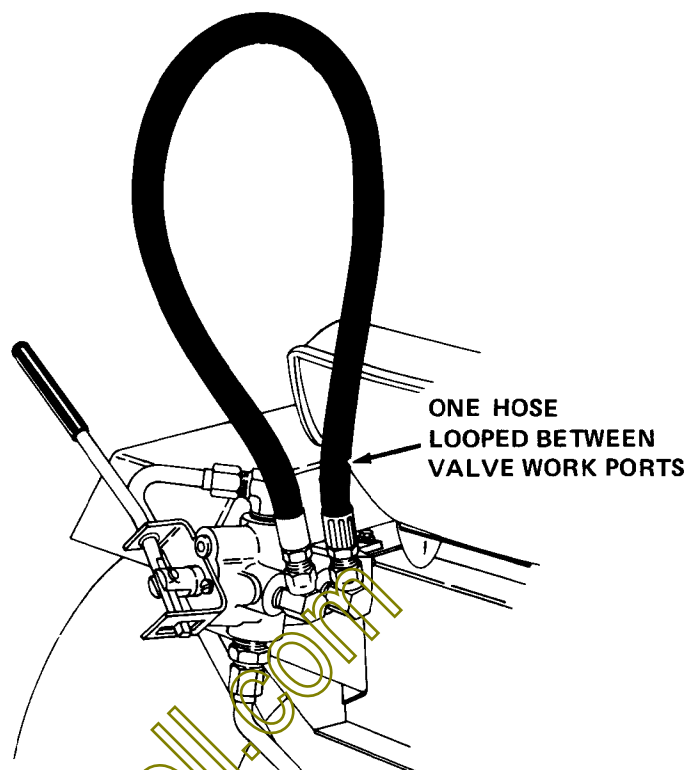


FIGURE 18

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