



ASSEMBLY SAFETY: Assemble in an area with sufficient space to handle the largest of components related to this product.

When necessary, have someone assist you during the assembly of this product.

BIN FILL AUGER GENERAL ASSEMBLY

- There are many aspects to take into consideration before mounting your Bin Fill Auger to the combine's grain tank. First decide where the peak of the grain heap will benefit you the most once the combine hopper or grain tank extension is full. Due to the Bin Fill Augers infinite positions inside the grain tank the peak of the grain heap can be placed exactly where you desire.
- The Bin Fill Auger should be located as close to the center of the grain tank as possible, and ideally the Bin Fill Auger should be near vertical when operating. However, due to grain tank bracing, location of cross augers, etc. if the Bin Fill Auger cannot be located exactly in the center of the grain tank, there will not be an adverse effect on the operation of the Bin Fill Auger by being positioned in any direction.
- On most combines the tank cross pipe assembly (Item 6 on the following page) should be positioned to the left side of the fountain augers outlet, running front to rear in the combine tank, so the fountain auger can still fold down into the combine tank.
- The Bin Fill Auger latch pin mechanism on the cross pipe and the rear tank mount allows the auger to easily fold 90 degrees from the upright position to the folded position.
- Locate the front and rear tank mounting assemblies as close to the the top of the combine grain tank as possible.
- The Bin Fill Auger is then typically located to the rear side of the fountain auger's outlet.
- Always install the Bin Fill Auger so that the drive motor is below the discharge of the fountain or cross auger when in operation. Hydraulic hoses inside of the combine tank need to be routed and secured, to prevent getting entangled in augers and other rotating parts.
- For optimal performance the Bin Fill Auger should extend 6 to 8 inches above the combine's bin extension or tip-up boards.
- The Bin Fill Auger rotational speed should be adjusted to prevent grain from being thrown out of the tank.

GENERAL HYDRAULIC INFORMATION

- With the Bin Fill Auger in the vertical position and the motor ports facing you, the left port is the power port, and the right is the return port.
- Use care and keep the hydraulic system clean from contaminants.
- The Bin Fill Auger, combine reel, and the chaff spreader (if equipped) are plumbed in a series circuit and can be controlled individually.
- Maurer Mfg. recommends using 1/2" wire hydraulic hoses for your hydraulic circuit.
- Where pipe threads are used, Maurer Mfg. recommends using Teflon Paste and not Teflon Tape. Tape over time can disintegrate and cause damage to the hydraulic system.
- The return oil from the reel is used to power the Bin Fill Auger, in all cases except when installed on a John Deere 2008 and newer STS 70 series combines. See hydraulic schematics on following pages for proper power supply.

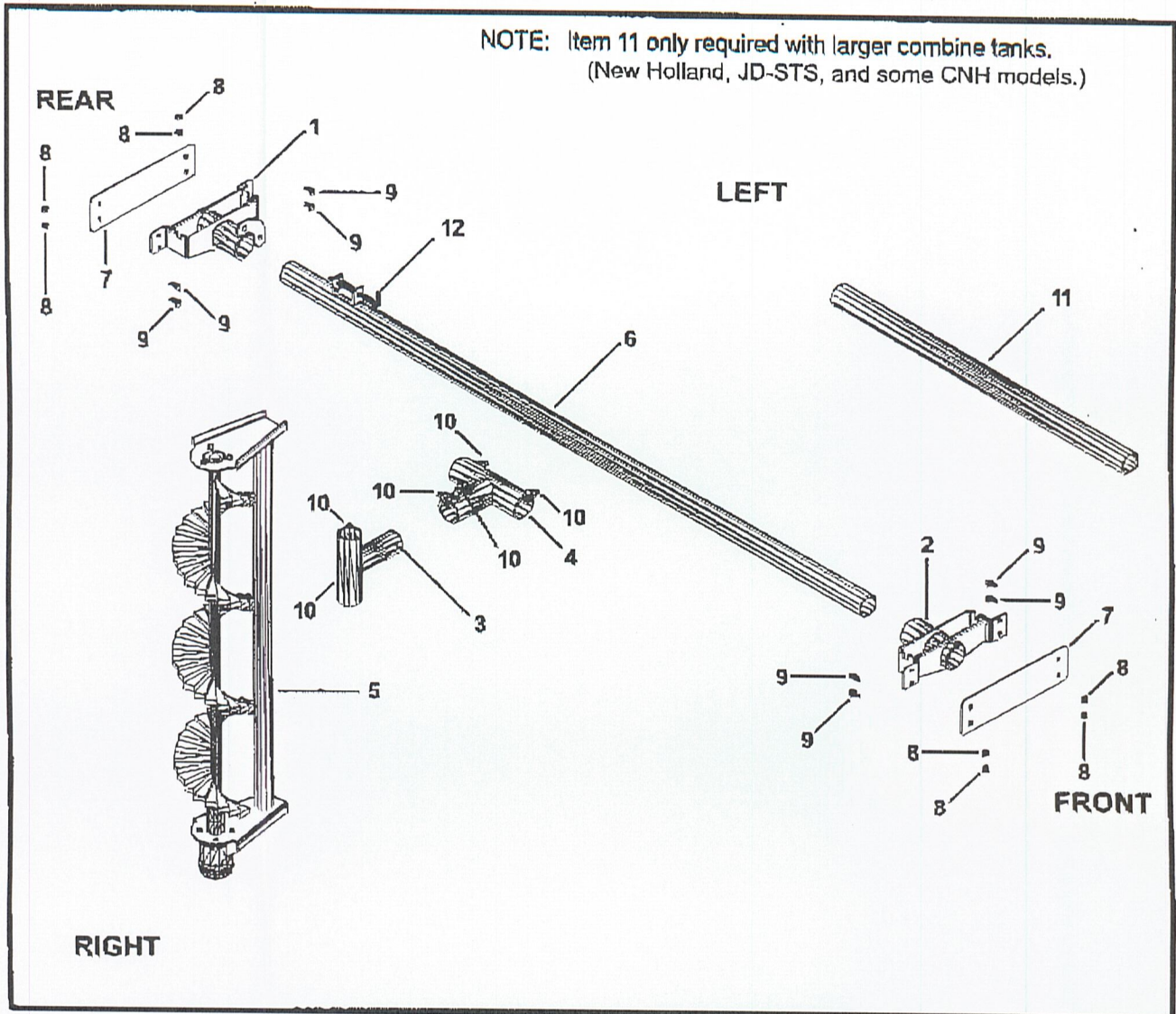


Figure 1

PARTS LIST

Please order replacement parts by **PART NO.** and **DESCRIPTION.**

REF. NO.	PART NO.	QTY.	ASSY. DESCRIPTION
1.	R5A000010L0	1	Rear Tank Mount Assembly
2.	R5A000011L0	1	Front Tank Mount Assembly
3.	R5A000003L0	1	Backbone Collar Assembly
4.	R5A000004L0	1	Cross Pipe Pivot Assembly
5.	R5A000006L0	1	40" Main Auger Assembly
6.	R5A000007L0	1	Tank Cross Pipe Assembly
7.	R3A000020L0	2	Backing Plate
8.	1AFC08F0000	8	3/8" Serrated Flange Nut
9.	1AFC12FAAH0	8	3/8" x 1 1/2" Hex Bolt
10.	1AFC24HBA00	6	1/2" x 2" Set Screw
11.	R3A000019L0	1	Support Cross Pipe - 40" Extension
12.	1AFZ51HEA00	1	1/2" x 5" Bent Pin w/ Clip

Base Unit Parts List

BIN FILL AUGER ASSEMBLY

STEP ONE

Determine the most effective mounting location for your Bin Fill Auger. Use the tank mounting brackets as a template to mark the location of the eight holes necessary to mount the brackets to the wall of the combine's grain tank. (Use the support cross pipe to ensure that both tank mounting brackets are aligned with each other) Drill eight 7/16" holes.

STEP TWO

Before fastening the tank mounting brackets to the grain tank, slide the cross pipe pivot assembly to the center of the support cross pipe. Next slide one tank mount bracket onto each end of the support cross pipe and proceed to fasten the tank mounting brackets with the provided backing plates using 3/8" x 1 1/2" hex bolts and 3/8" nuts. See figure 2. (Tank mounting brackets can also be mounted vertically if additional strength is required.)

NOTE: Depending on the make and model of your combine you may need to either cut or lengthen the cross pipe to fit your application. Make sure the length of the cross pipe is as exact as possible to allow the latch mechanism at the rear of the tank to function properly. If the cross pipe needs to be extended, the recommended procedure is to bevel the edges of each pipe to create a beveled seam to weld on.

STEP THREE

With the support cross pipe secured, estimate where the cross pipe pivot assembly will need to be located and position the assembly so that the female receiver is facing the clean grain auger and temporarily secure to the support cross pipe using the provided set screws.

STEP FOUR

Slide the backbone collar to the center of the main auger assembly and temporarily tighten in order to mount the main auger assembly to the cross pipe pivot assembly.

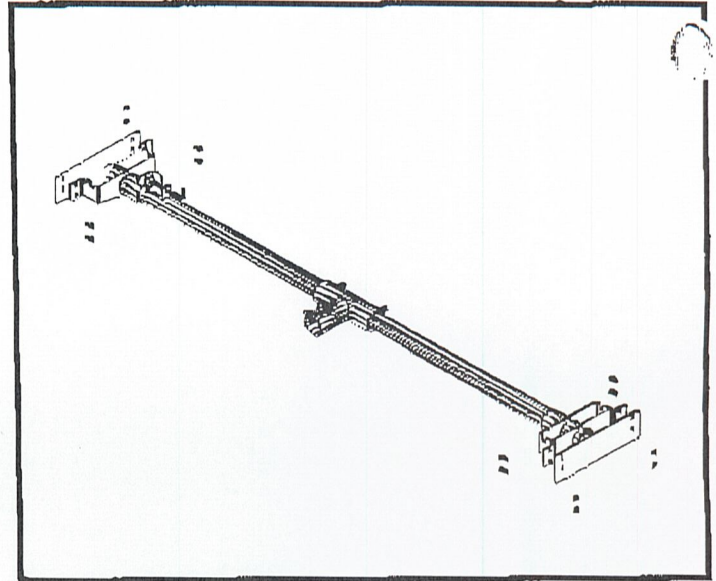


Figure 2

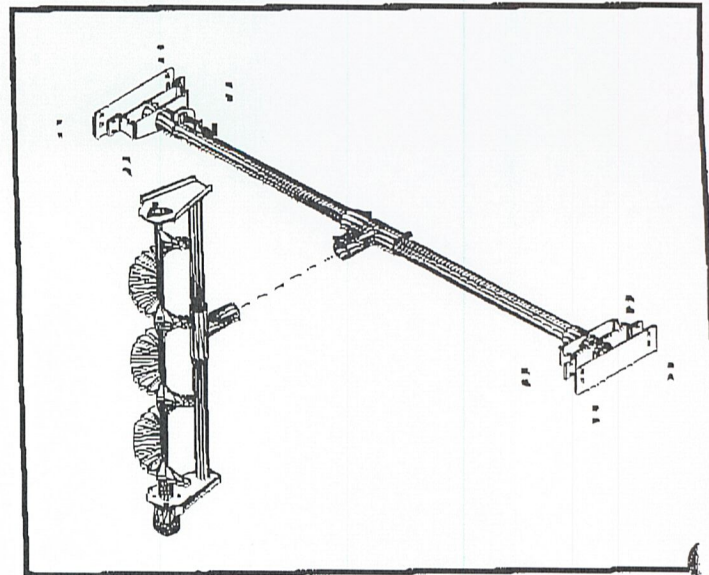


Figure 3

STEP FIVE

With both the backbone collar and cross pipe pivot assemblies secured, insert the male end of the collar assembly into the female end of the cross pipe pivot assembly. Tighten both set screws. See figure 3.

NOTE: Set your bin fill auger to the position which best fits your application. Make sure that the auger will not interfere or come in contact with any other braces, brackets, or augers inside the combine tank. Insure there is plenty of clearance for the bin fill auger to rotate between both the folded and the upright positions.

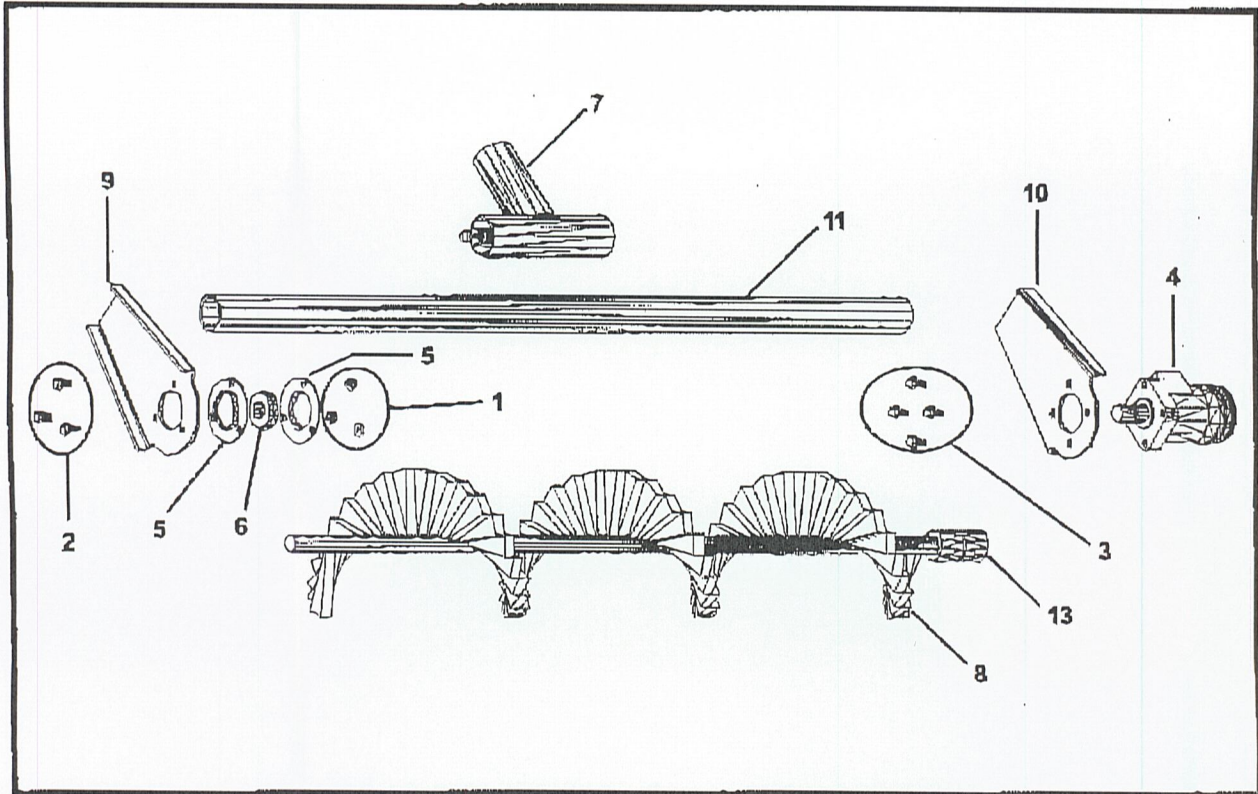


Figure 4

PARTS LIST

Please order replacement parts by **PART NO.** and **DESCRIPTION.**

REF. NO.	PART NO.	QTY.	ASSY. DESCRIPTION
1.	1AFC08E0000	3	5/16" Serrated Flange Nut
2.	1AFC37E00L0	3	5/16" x 3/4" Serrated Flange Bolt
3.	1AFC37F00L5	4	3/8" Serrated Flange Bolt
4.	1AKMABD0000	1	Hydraulic Motor DH-80
5.	1AL00004000	2	Bearing Flangets
6.	1ALAA003000	1	Bearing 1" Self Aligning
7.	R5A000003L0	1	Backbone Collar Assembly
8.	R5A000005L0	1	Auger Flighting Assembly
9.	R3A000002L0	1	Top Auger Plate
10.	R3A000003L0	1	Bottom Auger Plate
11.	R3A000009L0	1	Backbone Tube
*12.	1AF064DAA00	1	1/4" x 1" Woodruff Key (Half Moon)
13.	1AF030QCA00	1	1" Shaft Coupler

* Indicates items not shown in illustrations.

Main Auger Assembly Parts List

HYDRAULIC CONNECTION

NOTE: Read the following information before beginning to connect the hydraulics.

When determining the length of hydraulic hose needed, compensate for when the auger is in the storage position (folded inside the tank) and in the upright position.

Use caution when routing all hydraulic hoses inside the grain tank. Avoid moving parts and sharp surfaces that can damage the hoses.

(Bulkhead Fittings)

STEP ONE

The hydraulic motor provided with your Bin Fill Auger has two 1/2" FNPT ports. When looking directly at them the port to your left is the "Control Flow or CF" port. The port to your right is the "Excess or EX" port.

STEP TWO

Fasten the 1/2" hoses to the Bin Fill Auger motor, make note of which line is the "CF and which is the EX."

STEP THREE

The location of the bulkhead fittings will be determined by the make and model of your combine. Follow the appropriate recommendations below.

1400 and 1600 Case IH Series

Install the two bulkhead fittings on the bottom left side of the grain tank, ahead of the unloading auger on the sloped surface.

2100, 2300, and 2500 Case IH Series

If the "EZ-Connect" hydraulic connection is used, you can access the grain tank thru the grain sampler access port in the left front corner of the grain tank; otherwise, install the two bulkhead fittings on the bottom left side of the grain tank, ahead of the unloading auger. (**Important:** see page 11 for Case IH hyd. reverser information)

New Holland TR Series 96/97/98/99

Install the two bulkhead fittings on the bottom right side of the grain tank, ahead of the loading auger on the sloped surface.

John Deere 20 Series

Install the two bulkhead fittings on the bottom left side of the grain tank, ahead of the unloading auger on the sloped surface.

John Deere 9000 Series

If the "EZ-Connect" hydraulic connection is used, you can access the grain tank thru the grain sampler access port in the left front corner of the grain tank; otherwise, install the two bulkhead fittings on the bottom left side of the grain tank, ahead of the unloading auger.

John Deere STS Series

If the "EZ-Connect" hydraulic connection is used, you can access the grain tank thru the grain sampler access port in the left front corner of the grain tank; otherwise, install the two bulkhead fittings on the bottom left side of the grain tank, ahead of the unloading auger.

2300 & 2400 Series CASE IH HYDRAULIC REVERSE CHECK VALVE INSTALLATION

WARNING

Stop combine engine, set parking brake, and wait for all moving parts on machine to come to a complete stop before installing, servicing, adjusting, or repairing. Also be sure combine is on a level surface.

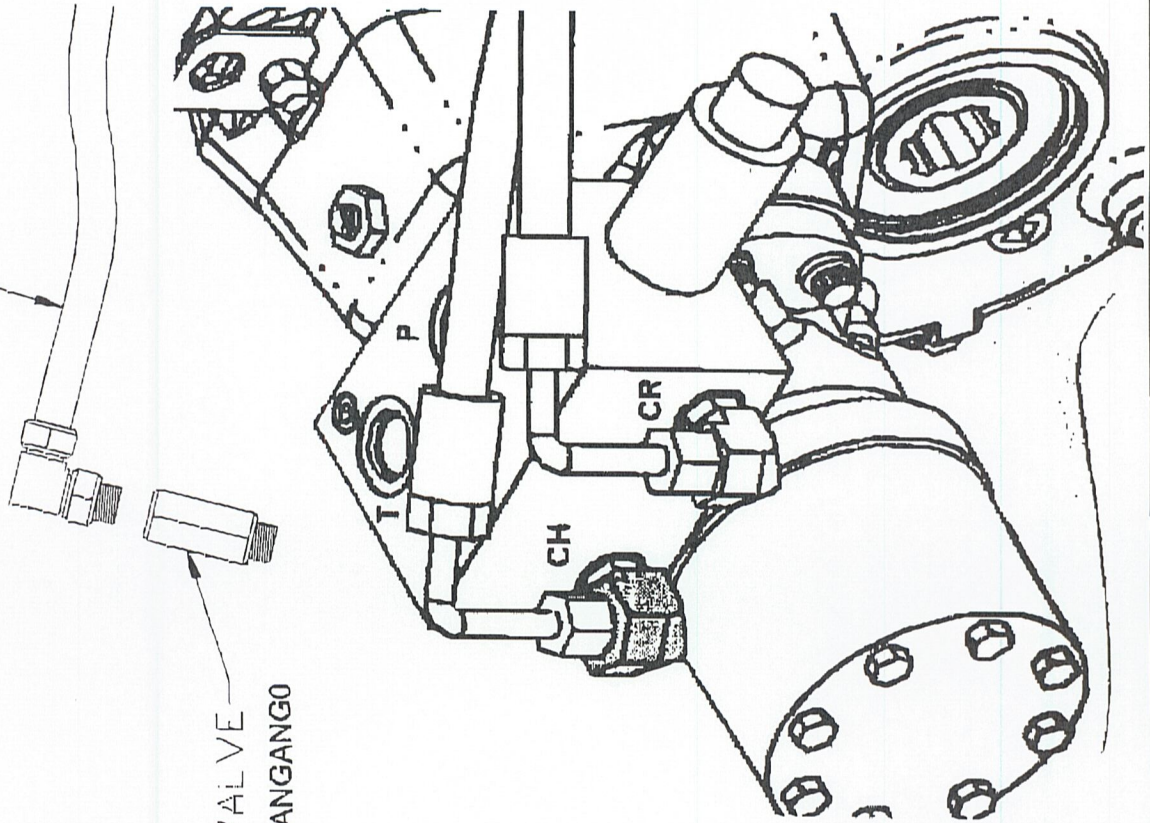
2001 Model year and newer Case IH combines may be equipped with a hydraulic header reverser. This reverser motor is located on the left side of the feeder house.

When installing a Maurer Bin Fill Auger on these units a check valve needs to be installed on the reel return line of the reverser motor.

The reel return port on the reverser motor is identified as "T". The T port is the top port to your left when facing the reverser motor.

To install the check valve, simply disconnect the hose on the T port of the reverser motor. Screw the male end of the check valve into the T port. Then connect the hose which you disconnected from the T port to the female end of the check valve. (See Figure 5.)

REEL RETURN HOSE "T"



CHECK VALVE
Part # 1AKGANGANG0

Figure 5

**CASE IH INSTALLATION
(With Chaff Spreader)**

⚠ WARNING

Stop combine engine, set parking brake, and wait for all moving parts on machine to come to a complete stop before installing, servicing, adjusting, or repairing. Also be sure combine is on a level surface.

Disconnect the return hose on the bottom side of the chaff spreader's flow control valve EX port "Tee". Run a new hose from this Tee to the IN port of the Bin Fill Auger's flow control valve. Then plumb accordingly to the diagram shown to the right. The return hose routed from the EX port of the Bin Fill Auger then connects to the hose previously disconnected from chaff spreader's flow control valve to complete a series circuit.

Hydraulic components shown in bold dashed lines on the diagram to the right, indicate new hydraulic components recommended with the use of a Maurer Bin Fill Auger. All other hydraulic components shown are existing from the manufacturer.

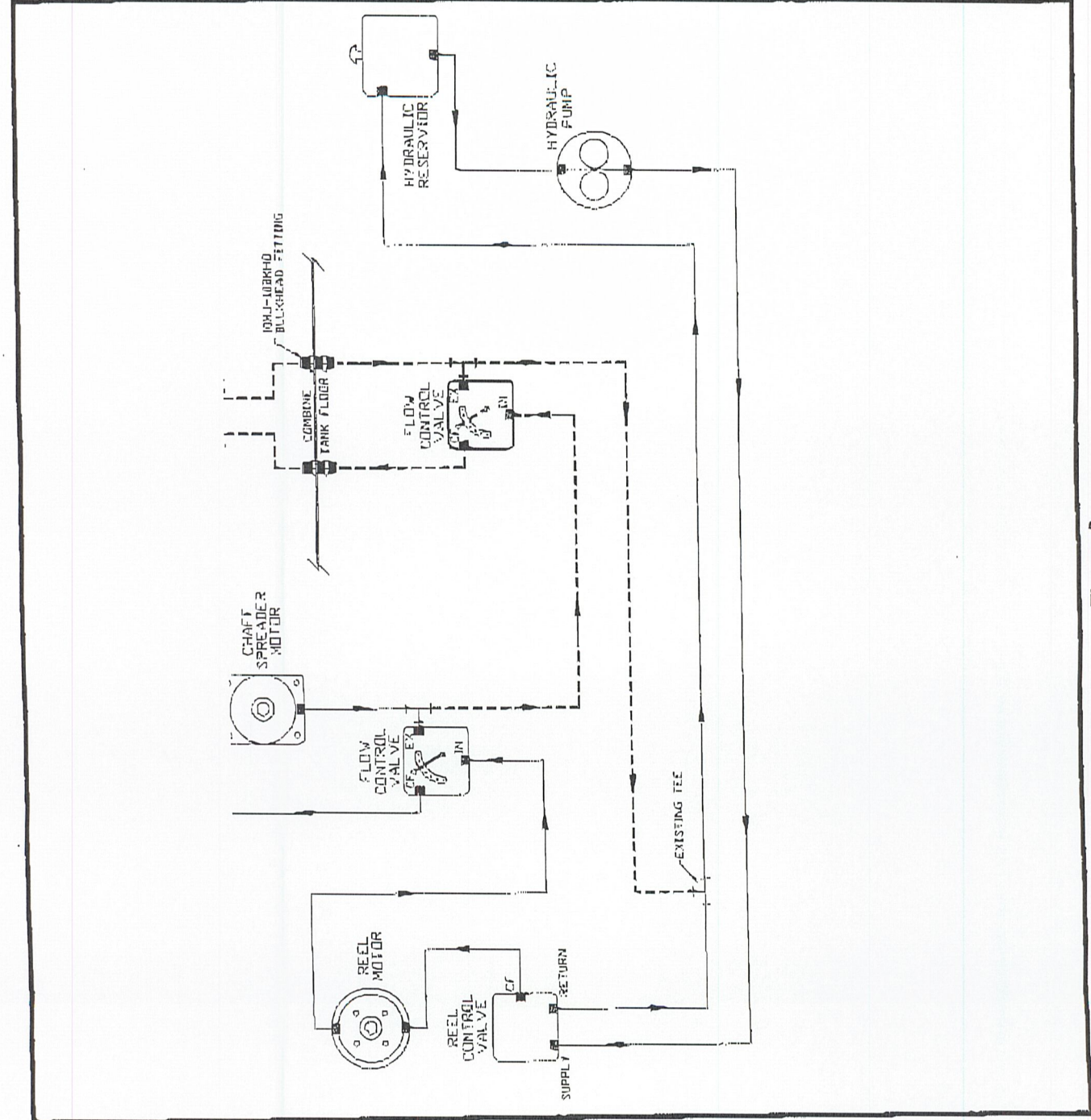


Figure 6

CASE INSTALLATION
(Without Chaff Spreader)

WARNING

Stop combine engine, set parking brake, and wait for all moving parts on machine to come to a complete stop before installing, servicing, adjusting, or repairing. Also be sure combine is on a level surface.

* On the left side of the combine, above the left front wheel, locate the "Tee" fitting that links the reel circuits return lines together. On the bottom side of the Tee you will notice a return hose that has a 90 degree hard elbow fitting attached to the hose. Disconnect this return hose from the Tee. This hose will become the power source. Run a short length of hose from the 90 degree elbow to the IN port of flow control valve which will control the speed of the Bin Fill Auger. Then plumb accordingly to the diagram shown to the right. The return hose routed from the EX port of the Bin Fill Auger's flow control valve then connects to the existing Tee to complete a series circuit.

* Hydraulic components shown in bold dashed lines on the diagram to the right, indicate new hydraulic components recommended with the use of a Maurer Bin Fill Auger. All other hydraulic components shown are existing from the manufacturer.

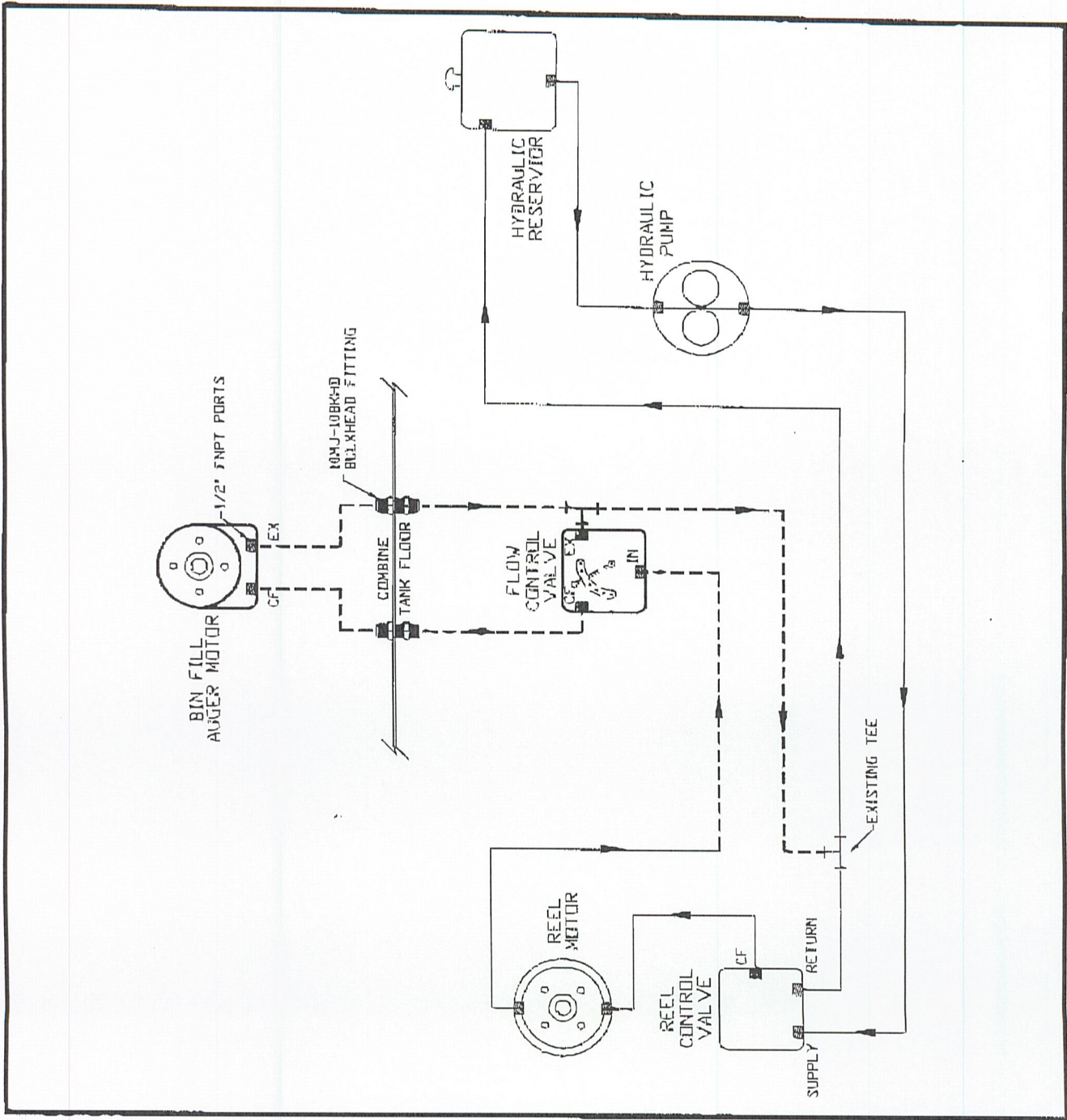


Figure 7