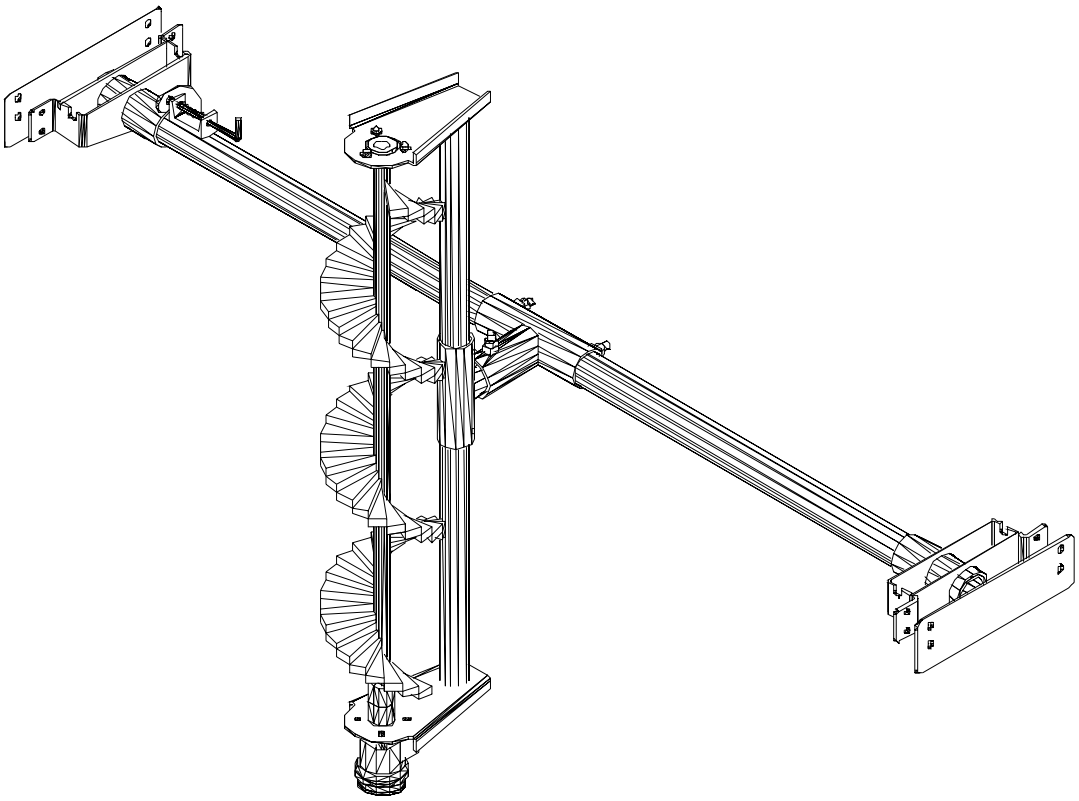
06/17/2010
8A000013, Rev. AE

Lakes Enterprises, INC. DBA
MAURER MANUFACTURING

BIN FILL AUGER
OPERATOR'S MANUAL

READ complete manual CAREFULLY BEFORE attempting operation.

ASSEMBLY
OPERATION
REPLACEMENT PARTS



PLACE IN COMBINE CAB AFTER ASSEMBLY FOR FUTURE REFERENCE.

Maurer Manufacturing • 1300 38th Ave. West • P.O. Box 160 • Spencer, IA 51301
PH: (712) 262-2992 • FAX: (712) 262-1022 • www.maurermfg.com

INTRODUCTION

Thank you for purchasing a Maurer Bin Fill Auger. Proper care and use will result in many years of service.

WARNING: TO AVOID PERSONAL INJURY OR DEATH, OBSERVE THE FOLLOWING INSTRUCTIONS:

Before applying power to any machinery used in conjunction with a Maurer Bin Fill Auger, make sure the area is clear of all bystanders.

Never allow anyone in or near the grain tank of a combine during loading or unloading of grain. The accumulation of grain is dangerous and can cause entrapment, resulting in serious injury or death by suffocation.

Beware of and avoid contact with low power lines and other obstructions.

GENERAL INFORMATION

1. Read assembly instructions carefully. Study assembly procedures and all illustrations before you begin assembly. Note which parts are used in each step. This unit must be assembled in proper sequence or complications will result.

2. Whenever terms **"LEFT"** and **"RIGHT"** are used in this manual it means from a position behind combine and facing forward.

3. When placing a parts order, refer to this manual for proper part numbers and place order by **PART NO. and DESCRIPTION.**

TABLE OF CONTENTS

SAFETY

TAKE NOTE! THIS SAFETY ALERT SYMBOL FOUND THROUGHOUT THIS MANUAL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY AND SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH!

THIS SYMBOL MEANS

ATTENTION

BECOME ALERT

YOUR SAFETY IS INVOLVED!

SIGNAL WORDS

Note use of following signal words **DANGER, WARNING**, and **CAUTION** with safety messages. The appropriate signal word for each has been selected using the following guidelines:

DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to most extreme situations typically for machine components which, for functional purposes, cannot be guarded.

WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

If you have questions not answered in this manual, require additional copies, or if your manual is damaged, please contact your dealer or Maurer Manufacturing, P.O. Box 160, 1300 38th Ave. West, Spencer, Iowa 51301, Ph: (712) 262-2992 Fax: (712) 262-1022 www.maurermfg.com

PRODUCT SAFETY GUIDELINES

Every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, or you yourself, follow them.

- Replace any danger, warning, or caution decal that is not legible or is missing. Location of such decals are indicated in this manual.
- Review all safety instructions with all users annually.
- The operator should be a responsible adult. DO NOT allow persons to operate or assemble this unit until they have developed an understanding of all safety precautions.
- Never leave running equipment unattended.
- Before applying power to any equipment, clear the area of all bystanders.
- Never exceed the limits of a piece of machinery. If it's ability to do a job safely is in question DO NOT attempt it.
- Beware of and avoid contact with low power lines and other obstructions while operating combines equipped with the Maurer Bin Fill Auger.
- Collapse and secure the Bin Fill Auger when transporting the combine to avoid contact with low power lines and other obstructions.

PERFORMING MAINTENANCE

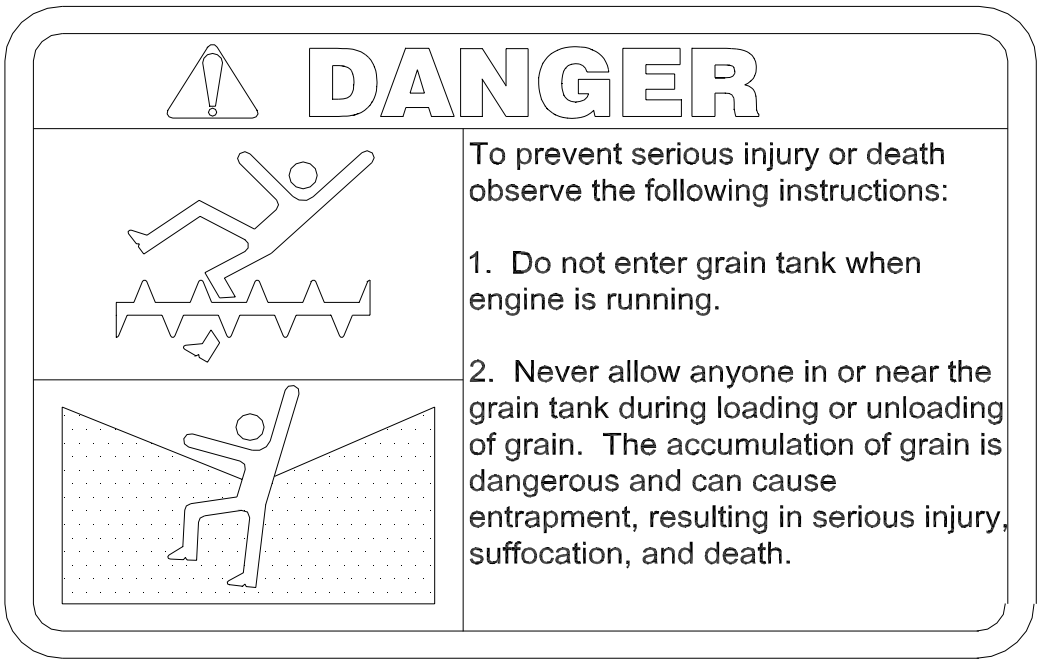
- Good maintenance is your responsibility. Poor maintenance is an invitation to trouble.
- Never use your hands to locate a hydraulic leak. Use a small piece of paper or cardboard. Hydraulic fluid escaping under pressure can penetrate the skin.
- Openings in the skin and minor cuts are susceptible to infection from hydraulic fluid.
- Before disconnecting hydraulic lines, shut off hydraulic supply and relieve all hydraulic pressure.
- If equipment has been altered in any way from the original design, Maurer Mfg. does not accept any liability for injury or warranty.

PRODUCT DISCLAIMER

Installing a Maurer Mfg. Bin Fill Auger on any combine is at the discretion of the owner. Although Maurer Mfg. has included all the necessary mounting components and has included or recommended various hydraulic components, it does not assume liabilities, or make any warranties pertaining to the structural aspects of the combines grain tank or the combines hydraulic system. See the combines owner's/operator's manual for additional combine specifications and safety information not listed in this manual.

SAFETY SIGN LOCATIONS

Types of safety signs and locations on equipment are shown in the illustration below. Good safety requires that you familiarize yourself with various safety signs, type of warning, and area or particular function related to that area, that requires your SAFETY AWARENESS.



SAFETY SIGN CARE

- Keep safety signs clean and legible at all times.
- Replace safety signs that are missing or have become illegible.
- Be sure that replacment parts contain safety signs, if the original part was provided with a safety sign .
- Safety signs are available from your dealer or Maurer Mfg.

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 assemlies 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 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 contaminates.

- 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.

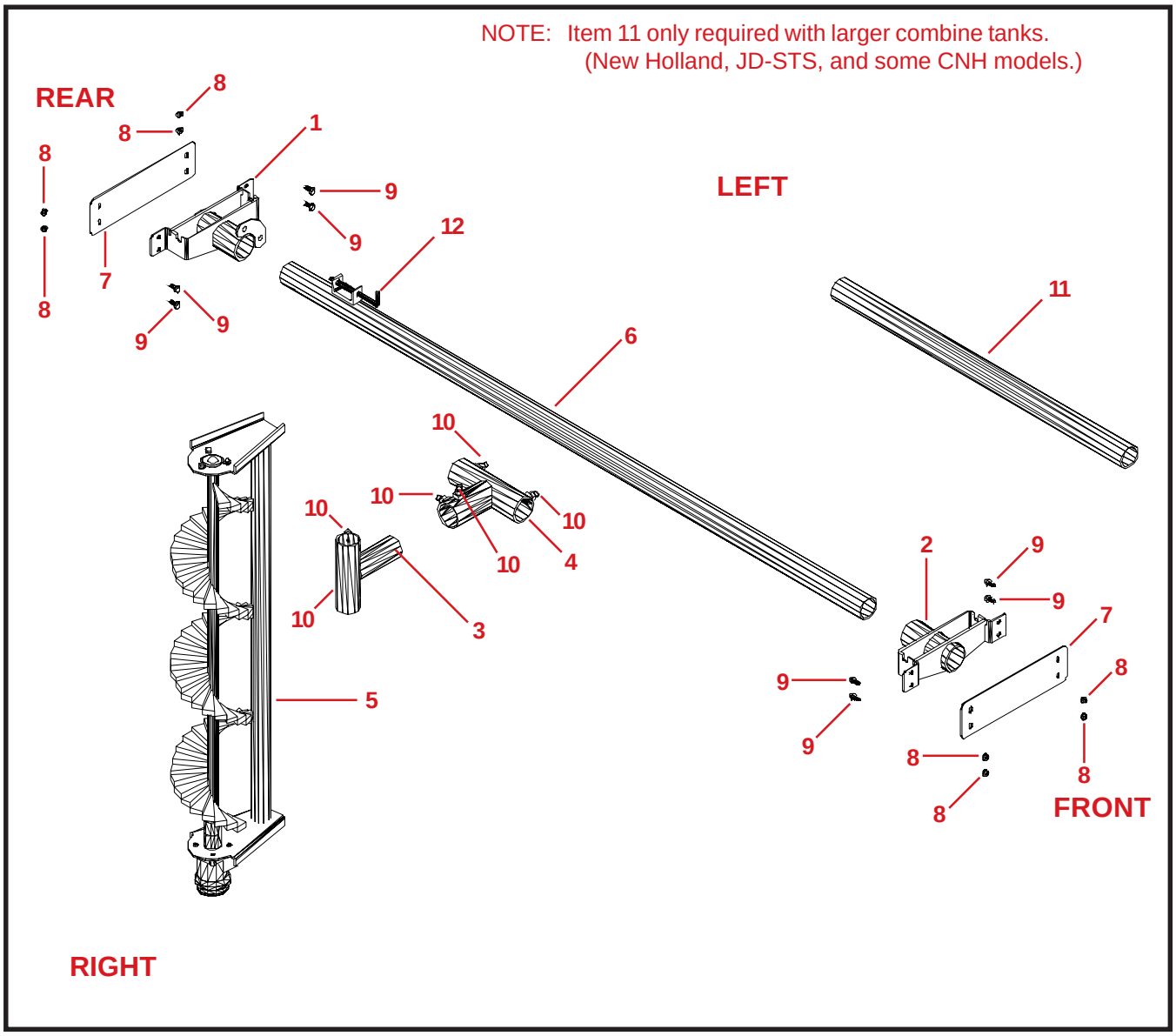


Figure 1

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 combines grain tank. (Use the support cross pipe to ensure that both tank mounting brackets are aligned with each other) Drill eight 7/16" holes.

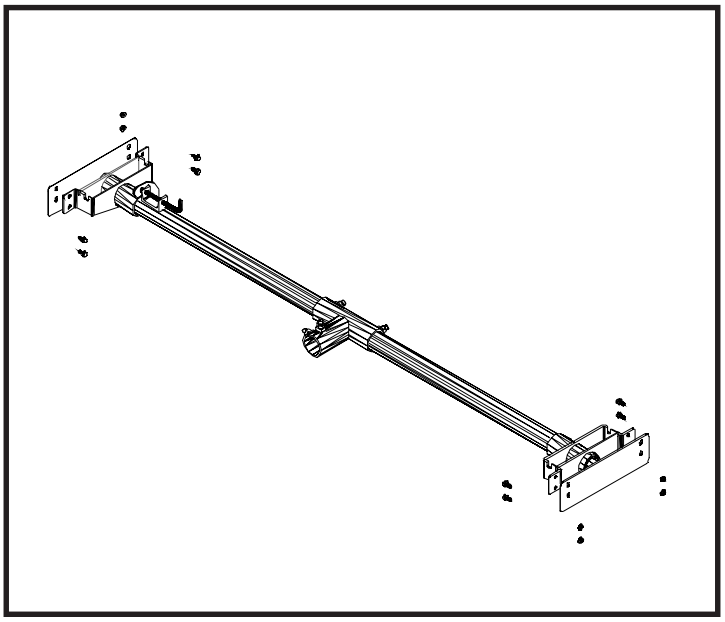


Figure 2

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 seem 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.

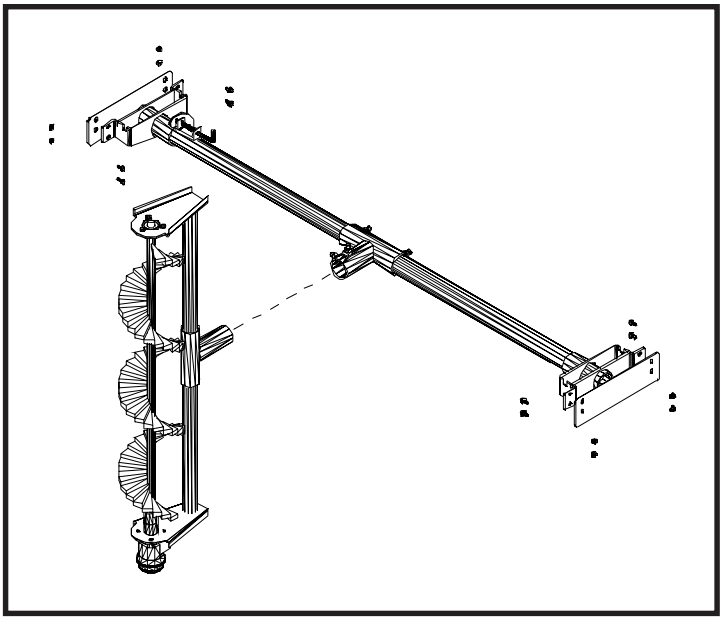


Figure 3

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.

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 postion which best fits your application. Make sure that the auger will not intefere or come in conatct 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.

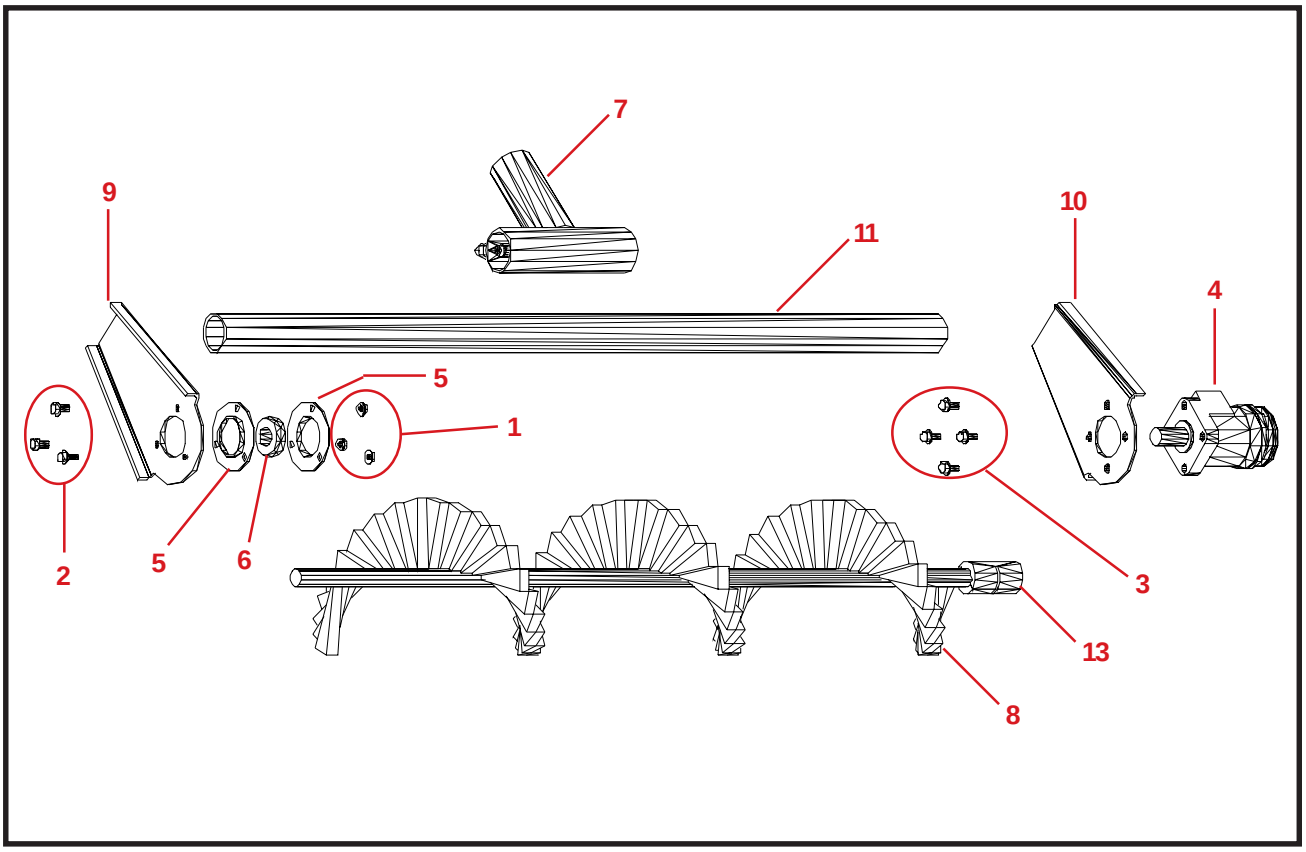


Figure 4

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 begining 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 recomendations 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 & 2500 Series CASE IH HYDRAULIC REVERSER
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.)

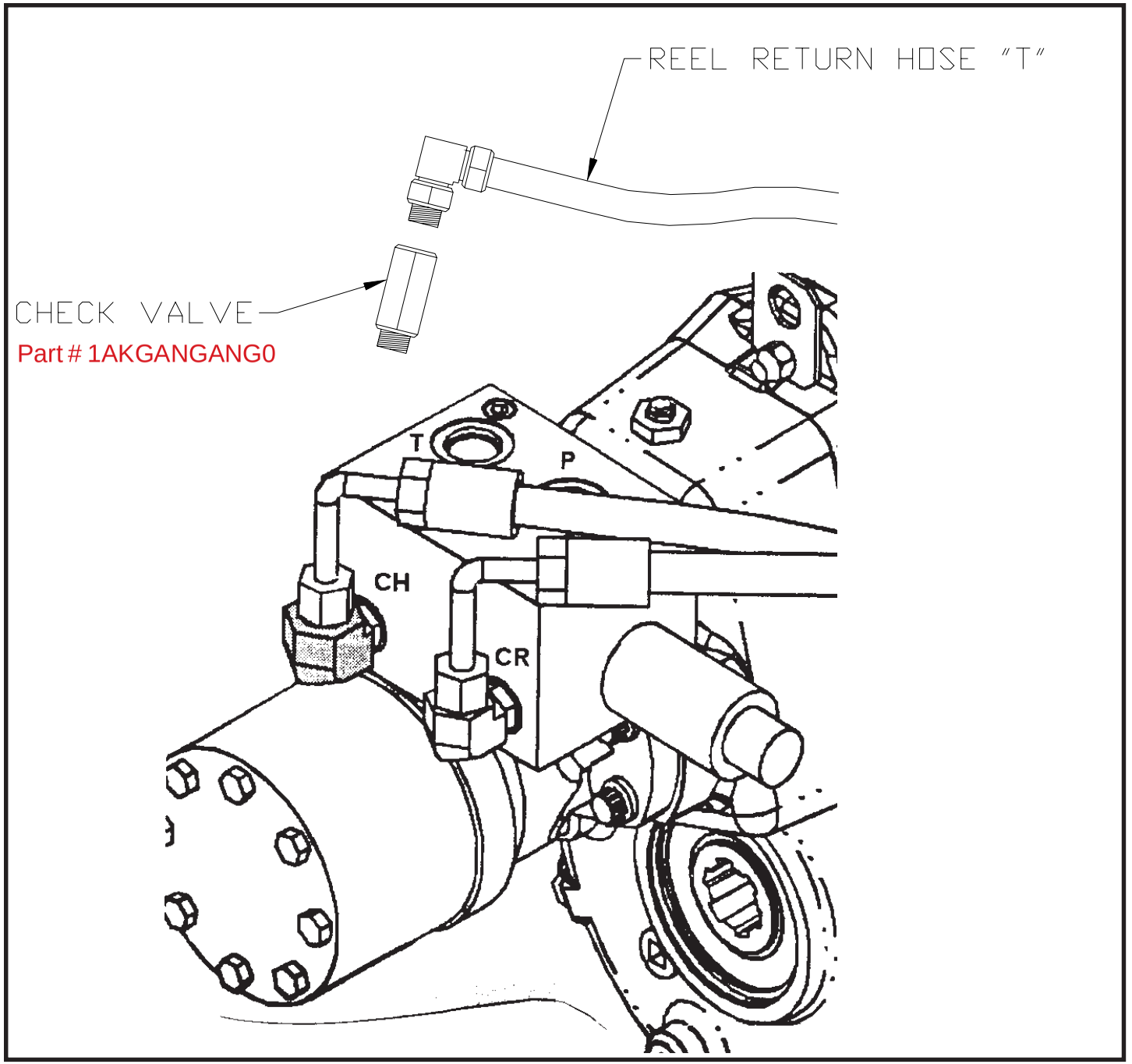


Figure 5

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.

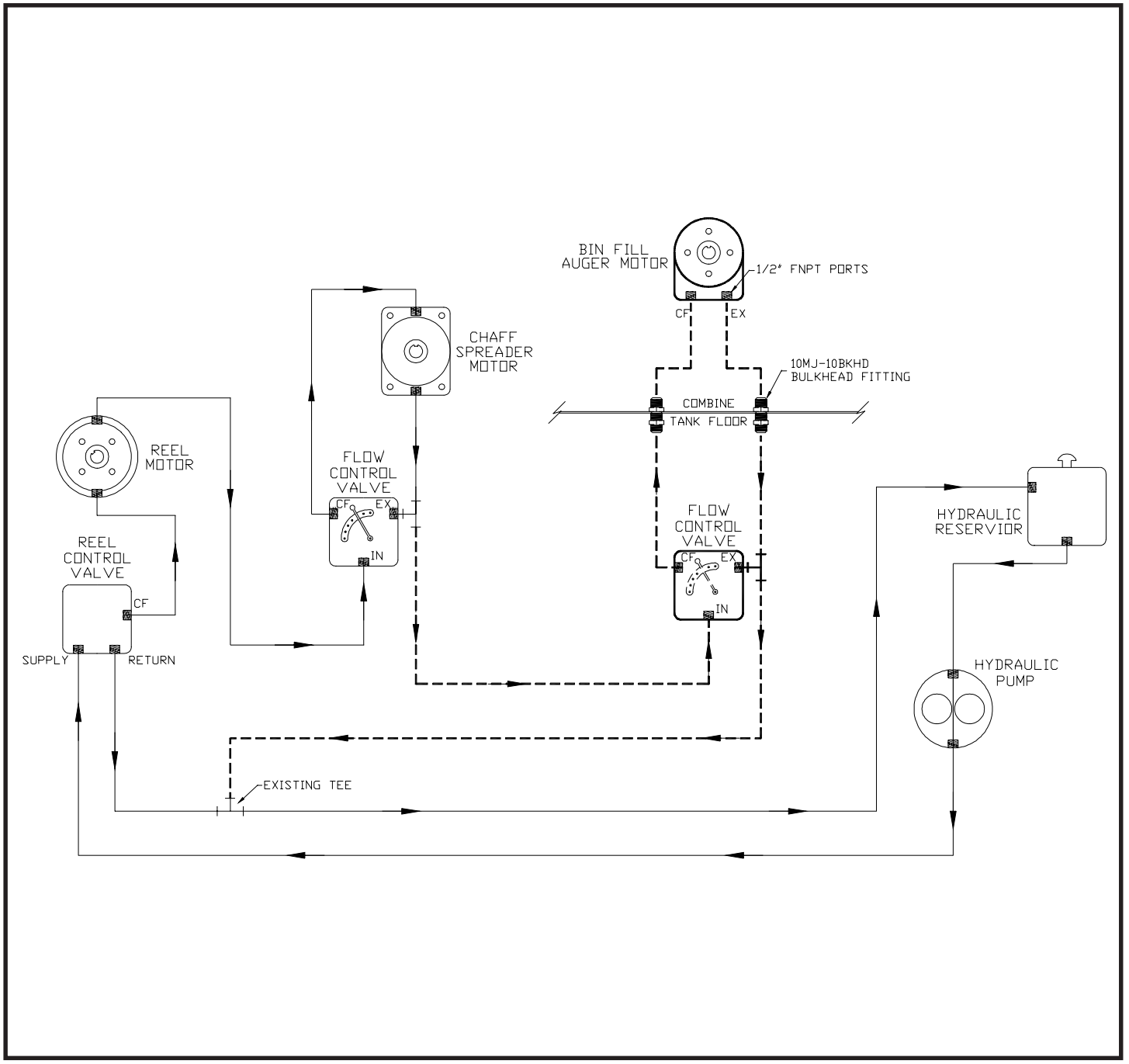


Figure 6

CASE IH 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 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.

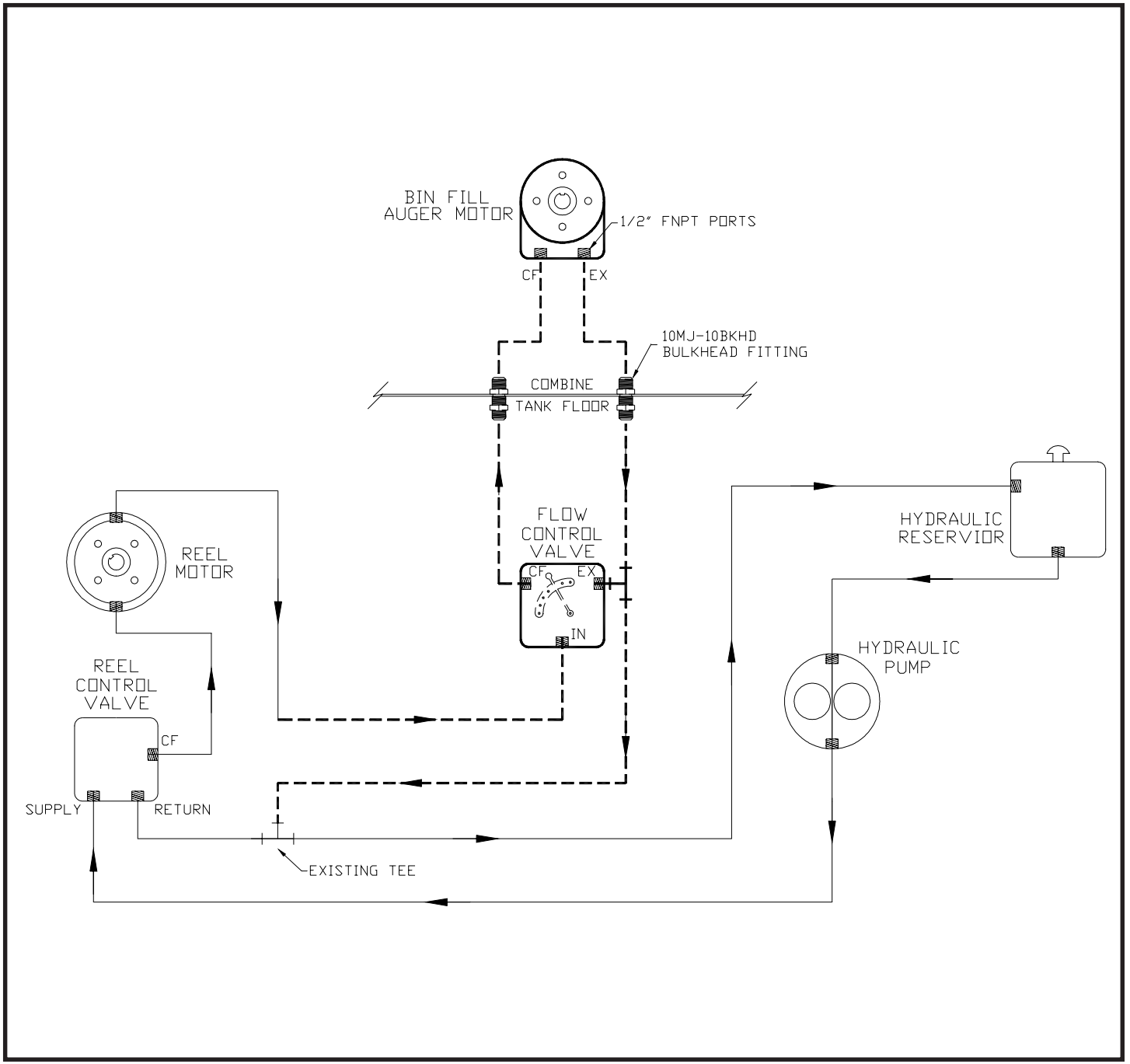


Figure 7

5088, 6088, & 7088 CASE IH HYDRAULIC REVERSER CHECK VALVE INSTALLATION

WARNING

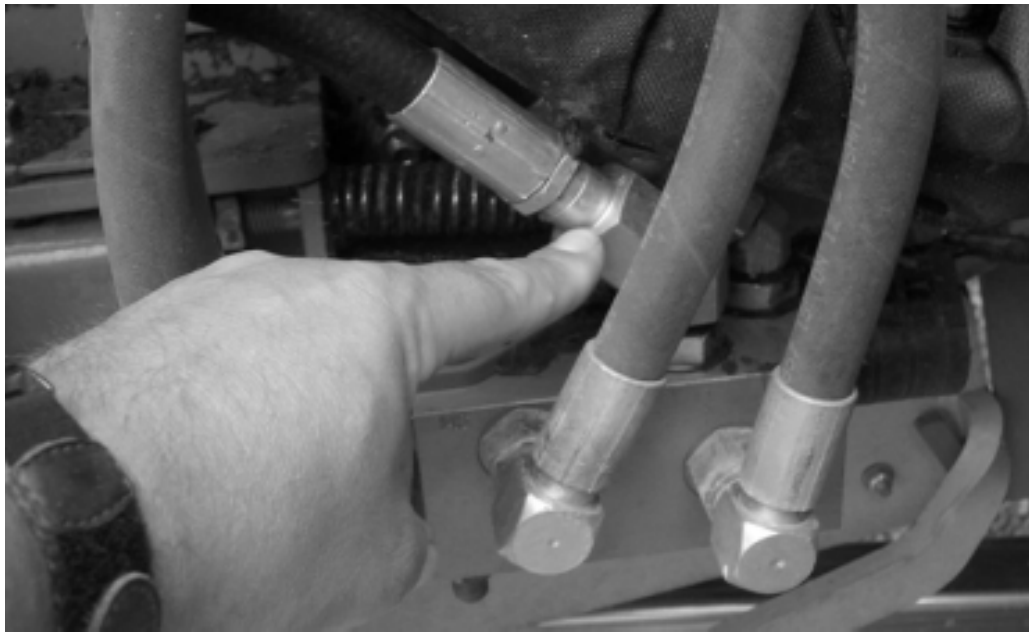
Stop combine engine, set parking brake, and wait for all moving parts on machine to come to a complete stop before installing, servicing, adjusting, or repairing. Also be sure combine is on a level surface.

5088, 6088, and 7088 Case IH combines may be equipped with a hydraulic header reverser. This reverser motor is located on the left side of the feeder house. See Figure A.

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.



Check Valve Part # 1AKGANGANG0

Figure A

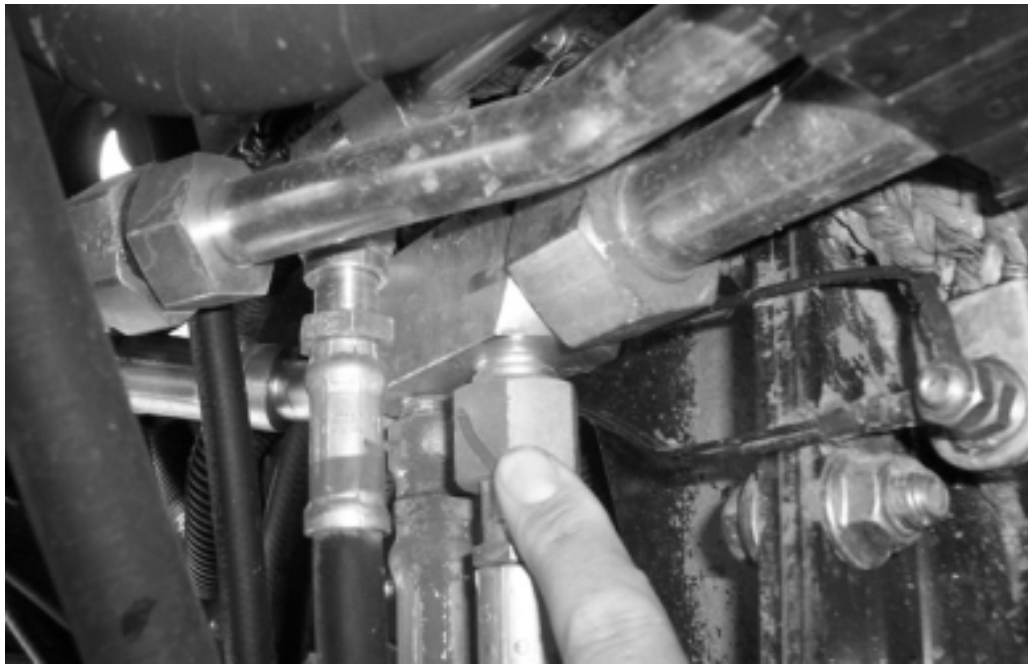


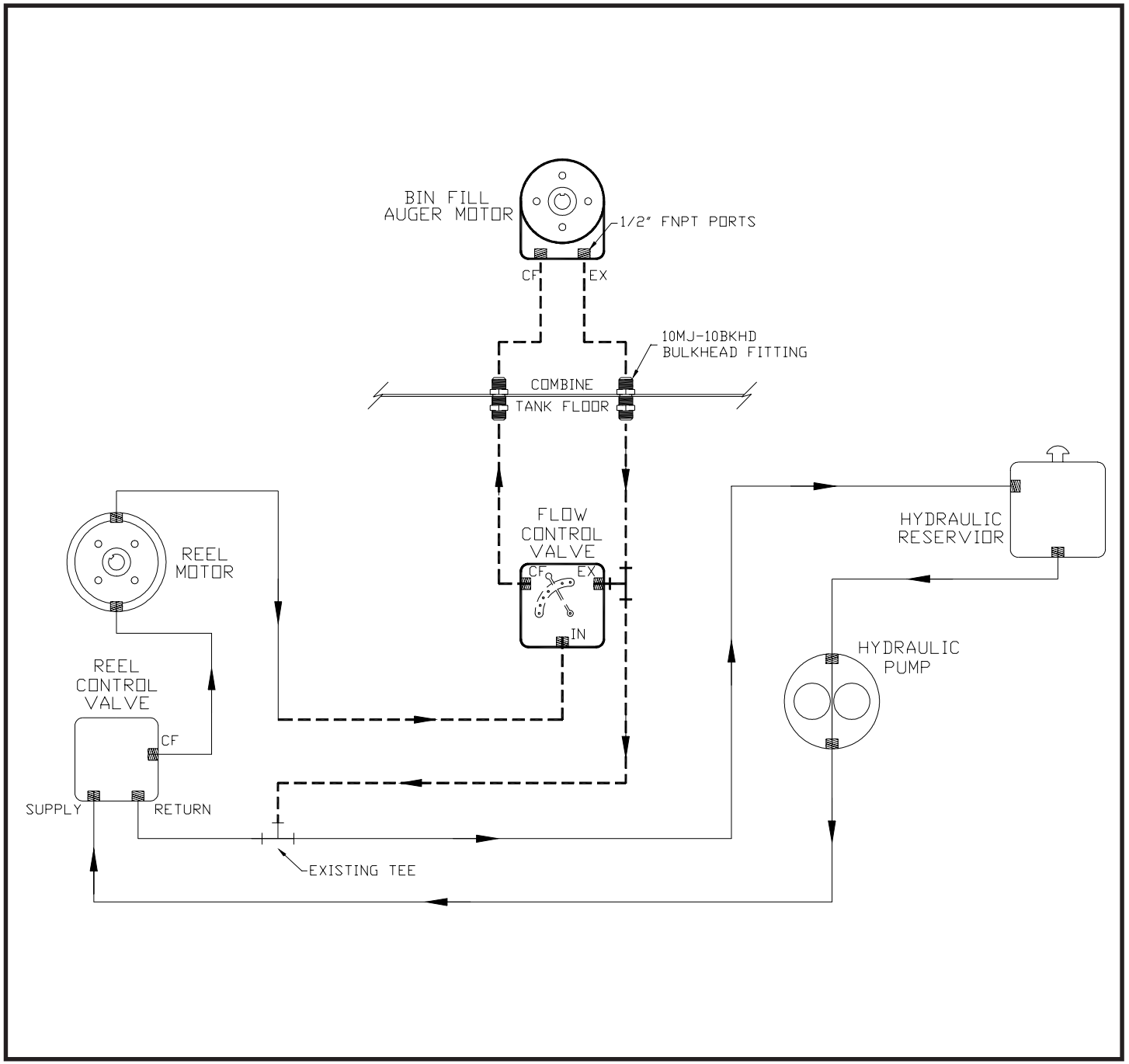
Figure B

5088, 6088, & 7088 CASE IH 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.

* On the left side of the combine, above the left front wheel, locate the the “Tee” fitting that links the reel circuits return lines together. See Figure B on previous page. Disconnect this return hose from the Tee.
* This hose will become the power source. Run a short length of hose from the hose just you just disconnected 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.



JOHN DEERE INSTALLATION “Prior to STS 70 Series” (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’s flow control valve 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.

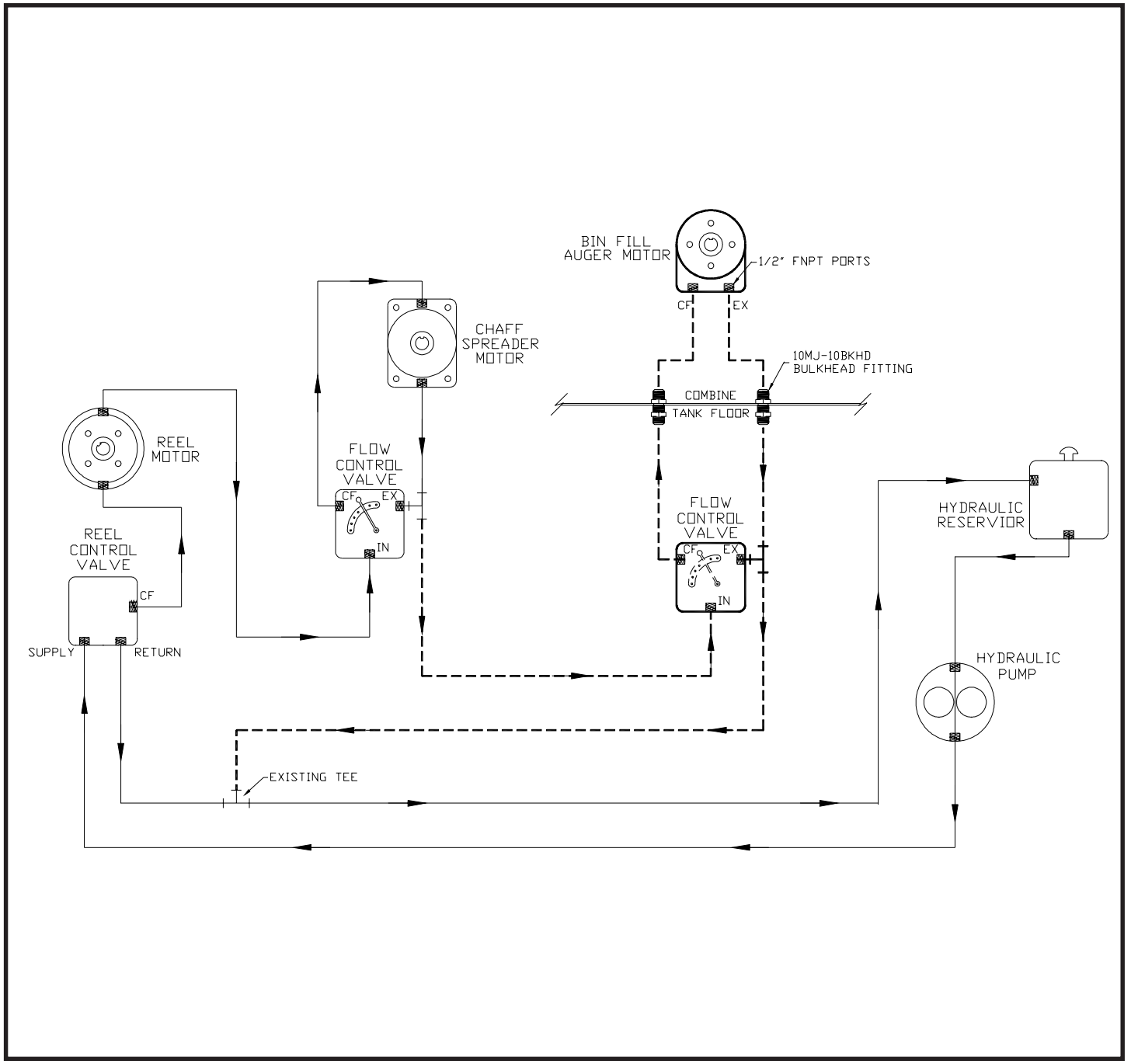


Figure 8

JOHN DEERE INSTALLATION “Prior to STS 70 Series”
(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.

* Locate the existing “Tee” fitting that links the reel circuit return lines together. Disconnect the return hose at the Tee that runs back to the reel motor. This hose will become the power source. Route this hose 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, where the previous hose was disconnected, 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.

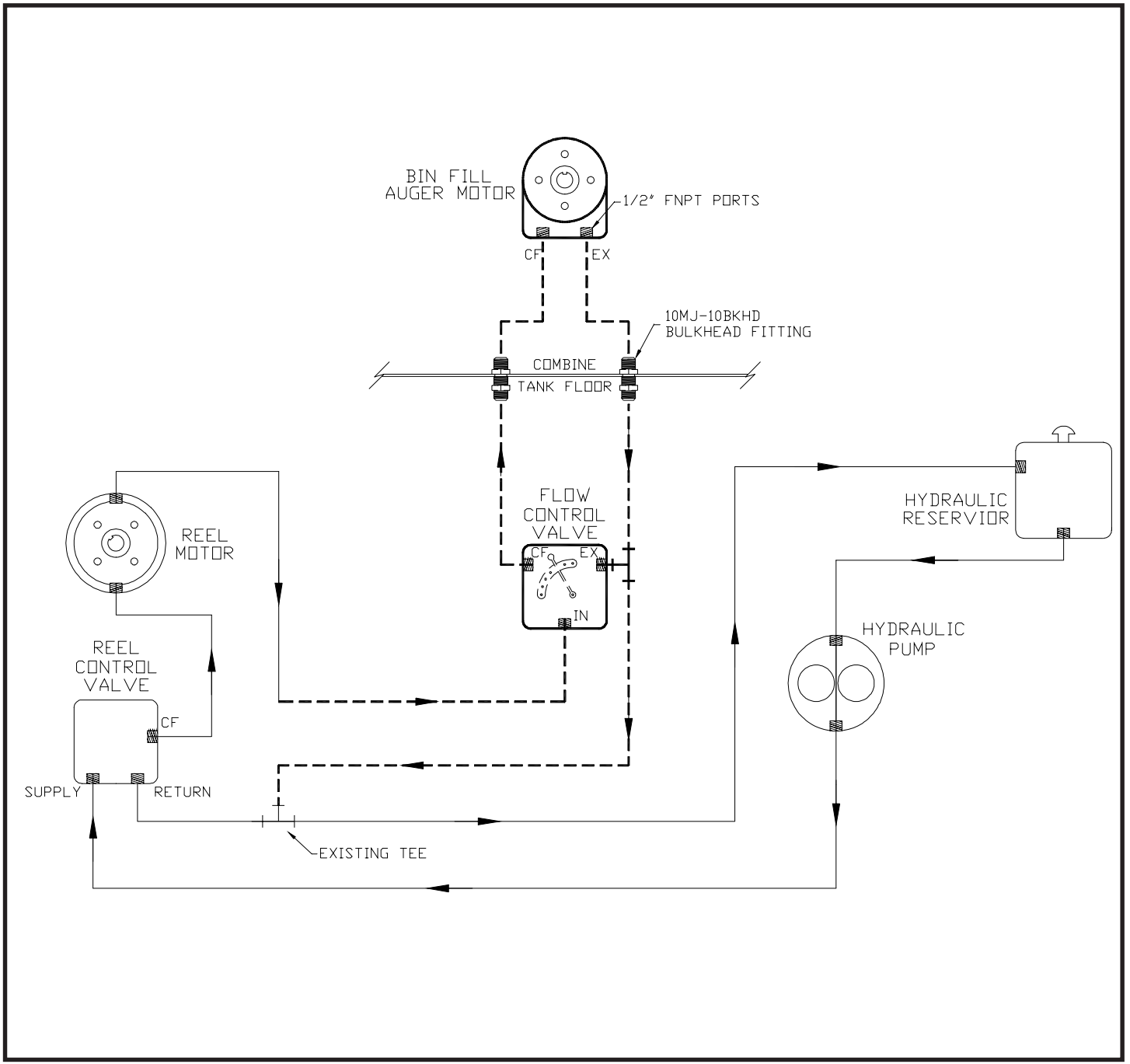


Figure 9

JOHN DEERE INSTALLATION “2008 Model Year to Current, STS 70 Series” (With Hydraulic Reverse Valve)

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 front drive wheel, locate the reel control valve. Disconnect the existing hose from the port identified as “P” which is the main pressure line. This hose will become the power source. Fasten a new hose to this hose and route it 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 Bill Fill Auger’s flow control valve then connects to the “P” port of the reel control valve, to complete a series ciruit.

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.

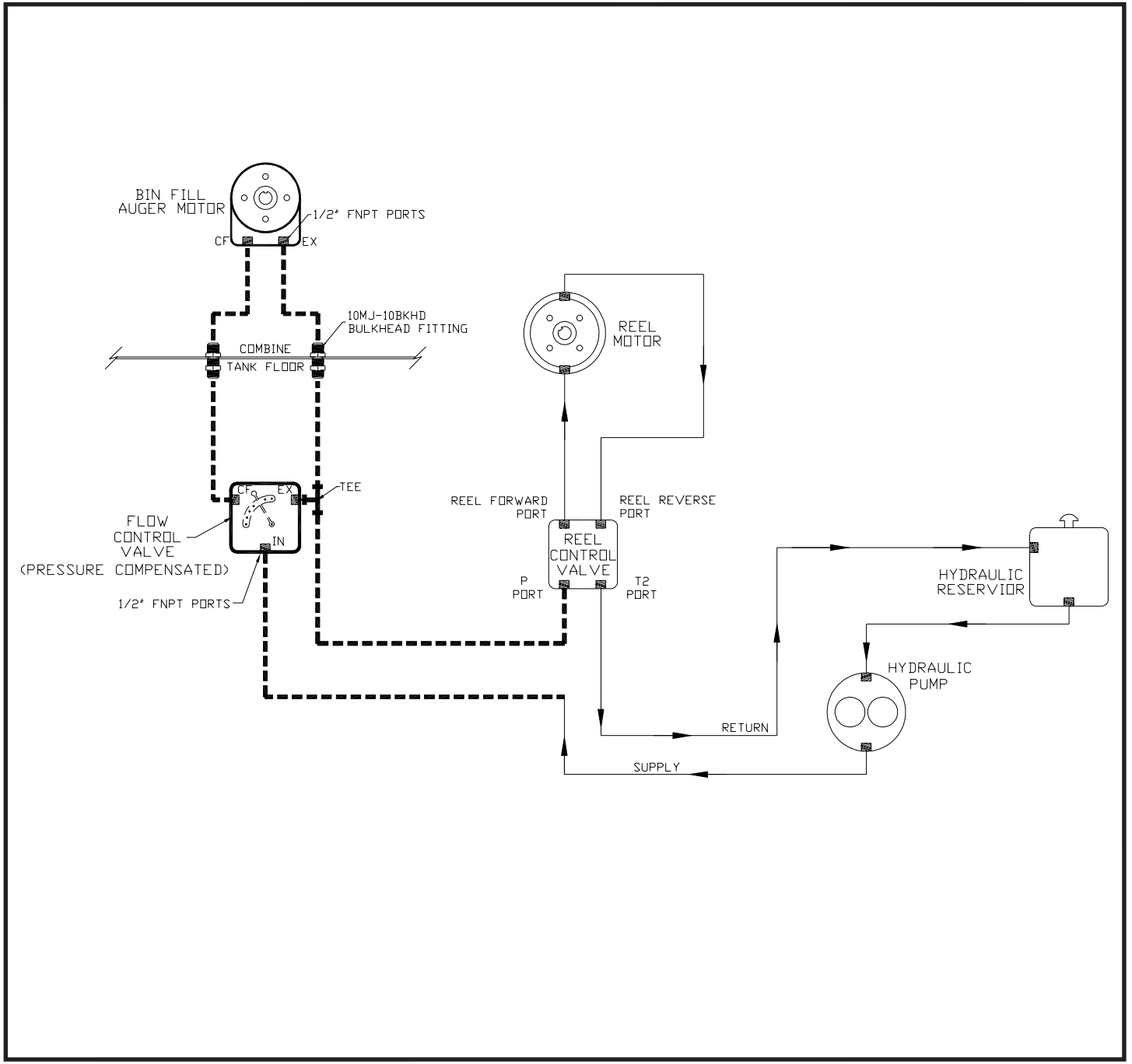


Figure 10

CNH INSTALLATION for 7010, 8010, CR940,CR9040, CR960, CR9060, CR970, CR9070, CR980, CR9080 COMBINES

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.

Locate the chaff spreader control valve (Figure C) on the left rear side of the combine. Disconnect the pressure hose from the port on rear side of this valve, that powers the chaff spreaders. This port will be the power source for the Bin Fill Auger. Run a hose from this port 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's flow control valve then connects to the hose that was previously disconnected, 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.

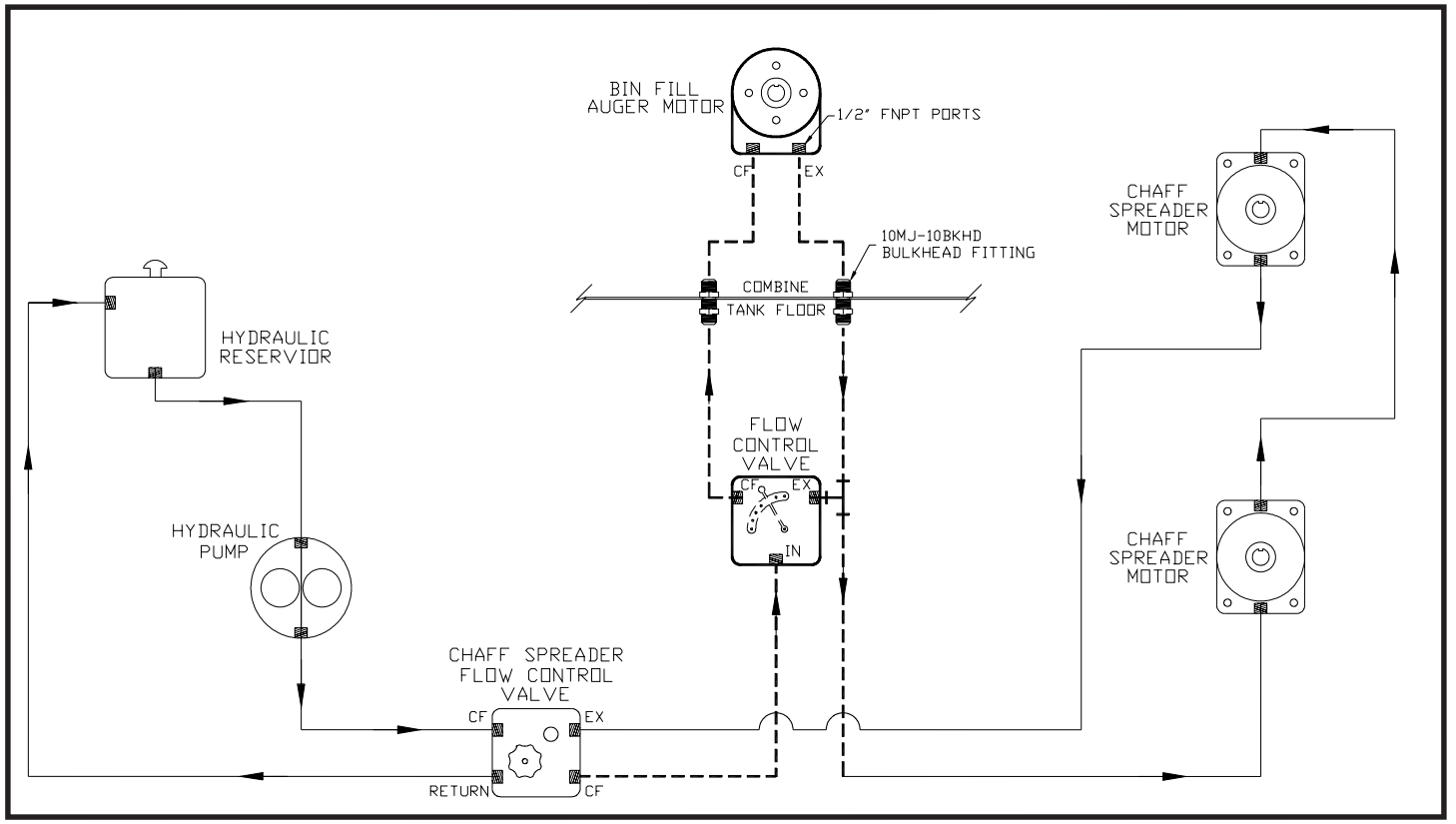


Figure 11

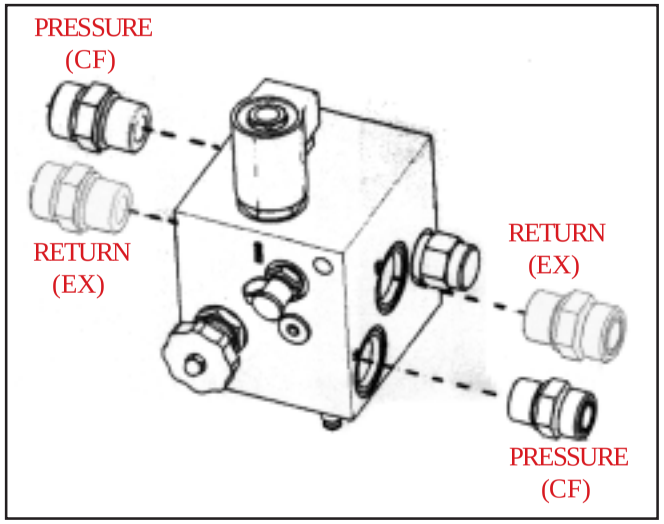


Figure C

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.

Locate the chaff spreader control valve (Figure D) on the left rear side of the combine. Follow steel pressure line back to the Junction Point (Figure E). Disconnect the bottom, pressure hose from the back side of the Junction Point that powers the chaff speaders. This port will be the power source for the Bin Fill Auger. Run a hose from this port 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's flow control valve then connects to the hose that was previously disconnected, 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.

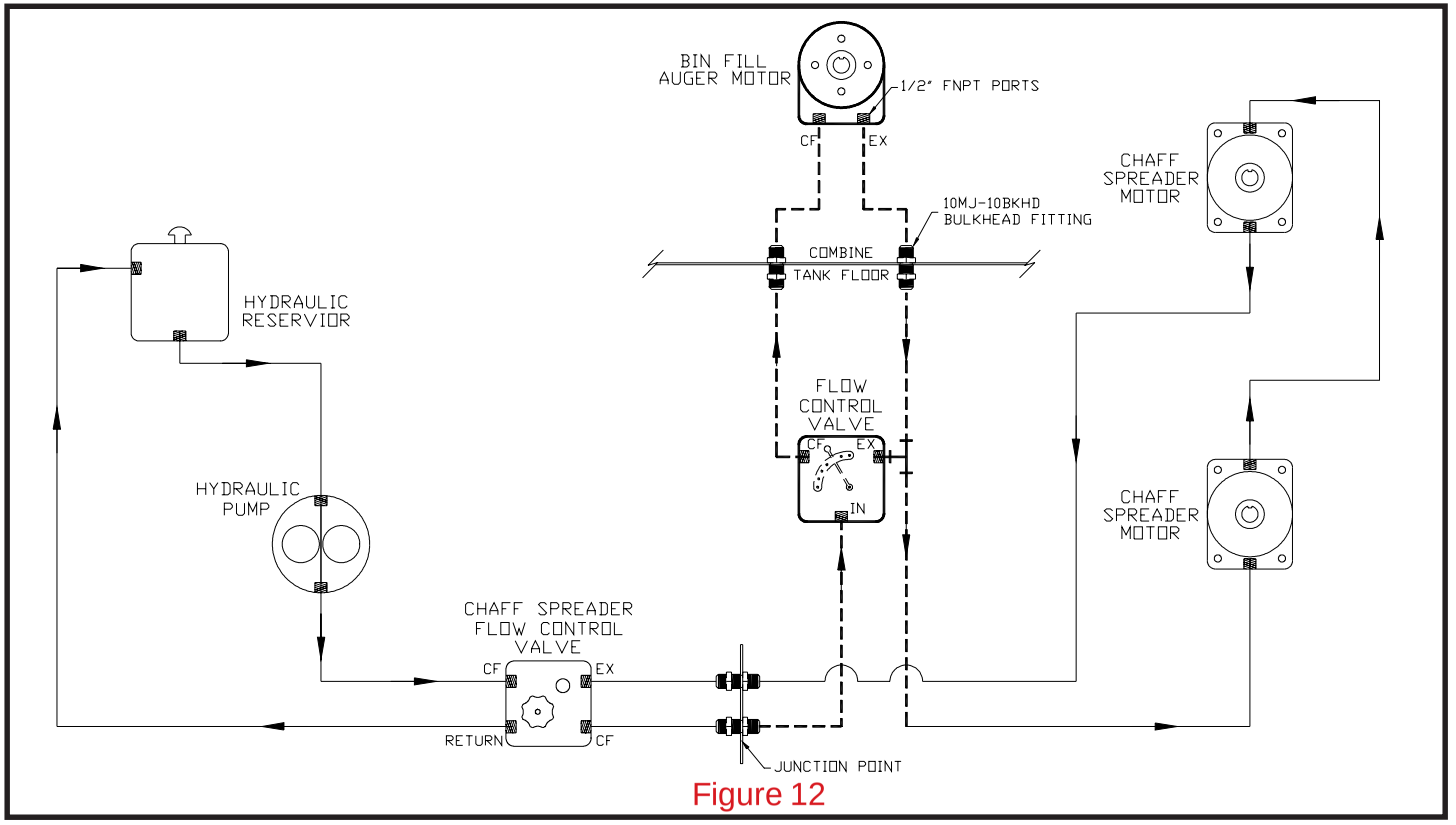


Figure 12

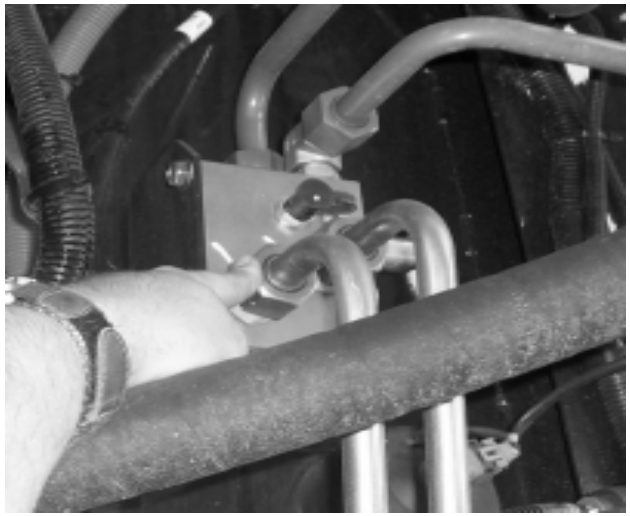


Figure D

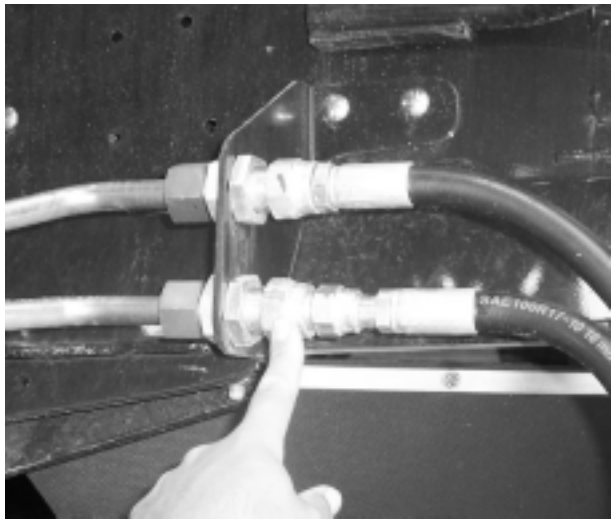


Figure E

NEW HOLLAND TR SERIES 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's flow control valve then connects to the hose previously disconnected from the chaff spreader's flow control valve, that should return to the filter 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.

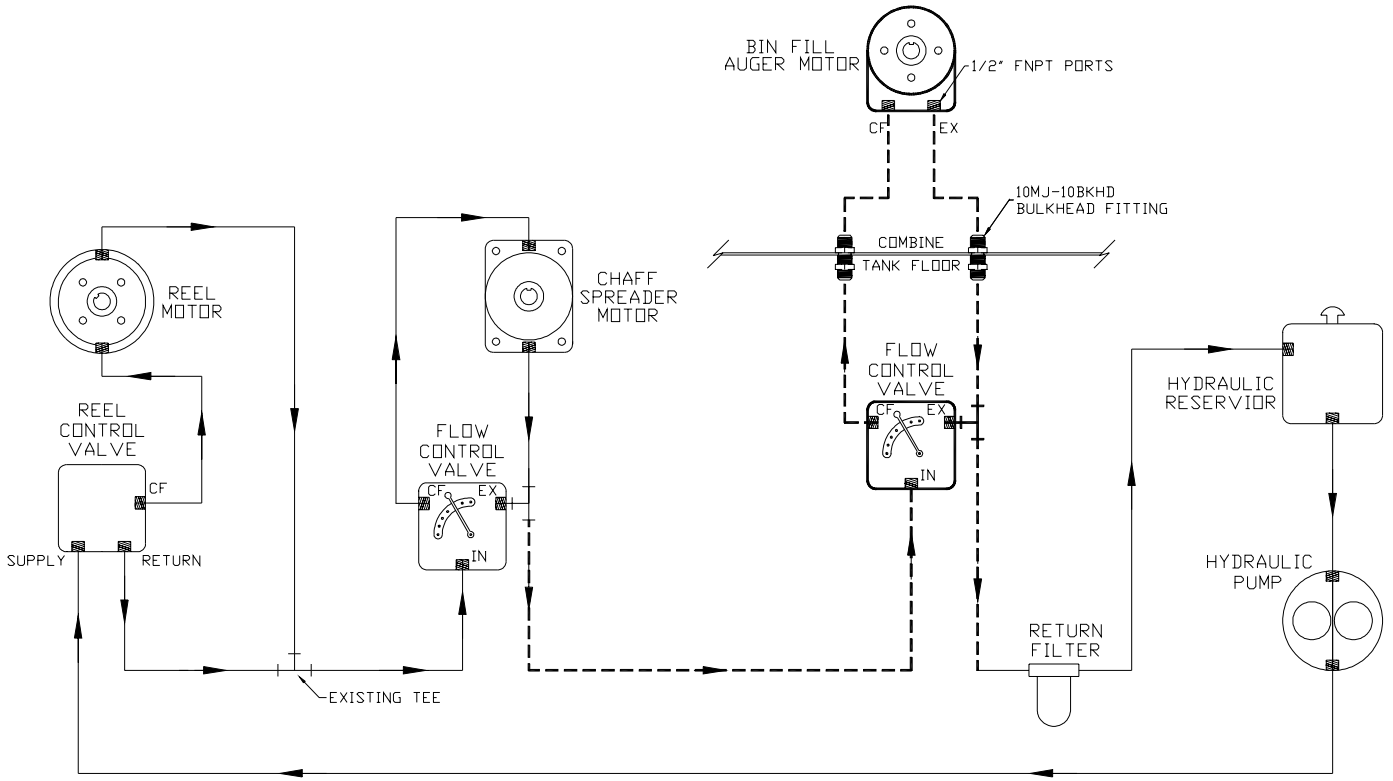


Figure 13

NEW HOLLAND TR SERIES 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.

* Locate the existing “Tee” fitting that links the reel circuits return lines together. Disconnect the return hose from the Tee that runs back to the filter. Run a new hose from the 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’s flow control valve then connects to the hose that was previously disconnected from 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.

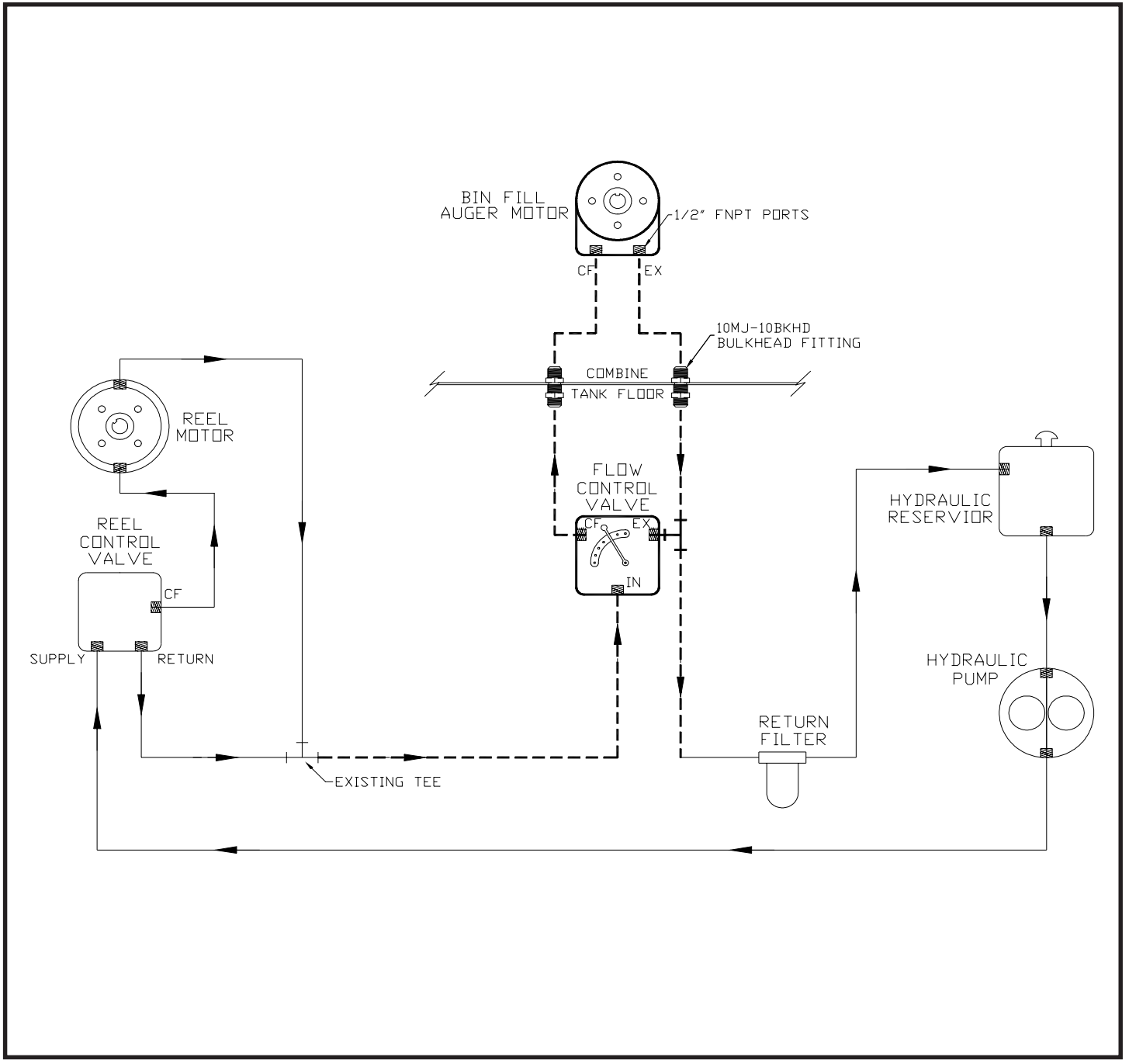


Figure 14

GLEANER R SERIES 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's flow control valve then connects to the hose previously disconnected from the chaff spreader's flow control valve, that should return to the filter 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.

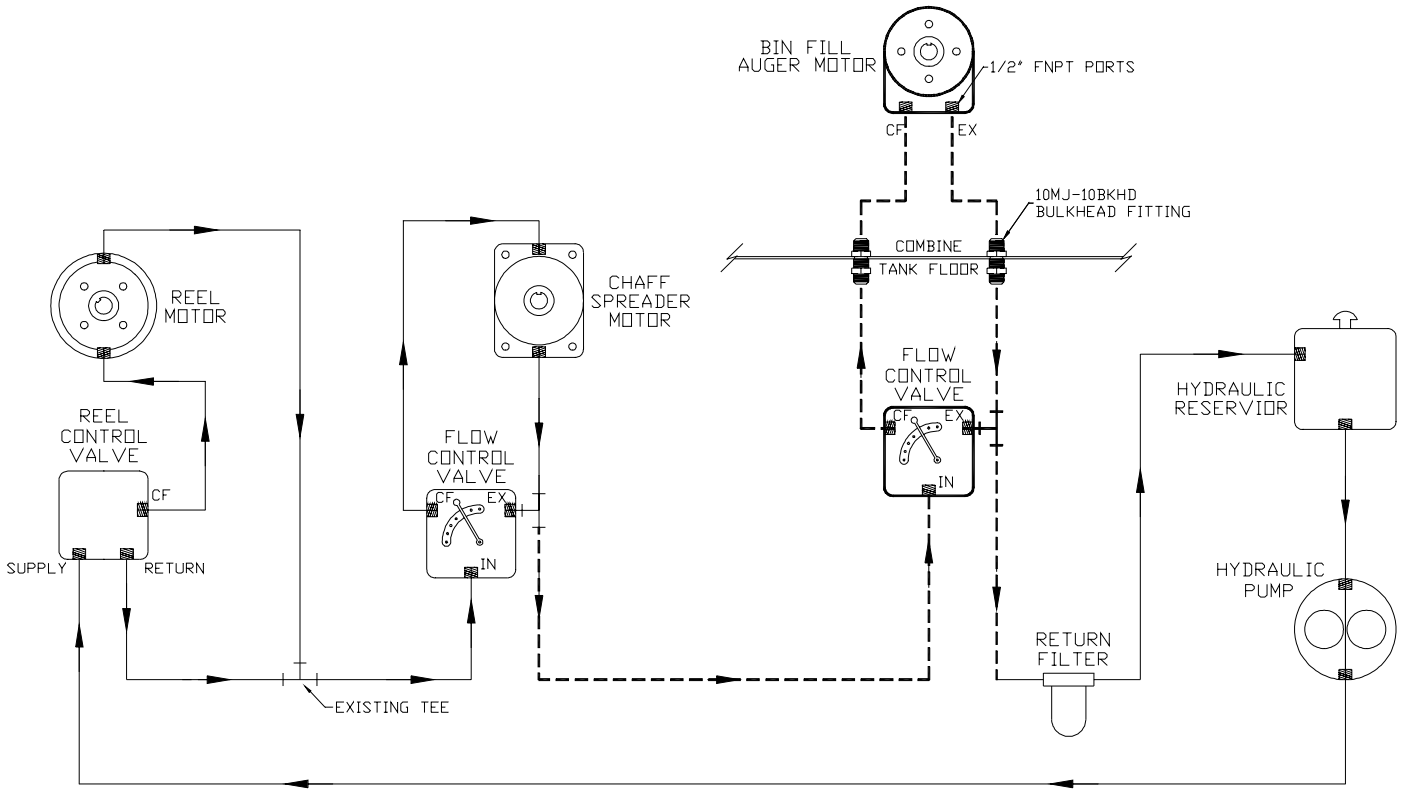


Figure 15

GLEANER R SERIES 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.

* Locate the existing “Tee” fitting that links the reel circuits return lines together. Disconnect the return hose from the Tee that runs back to the filter. Run a new hose from the 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’s flow control valve then connects to the hose that was previously disconnected from 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.

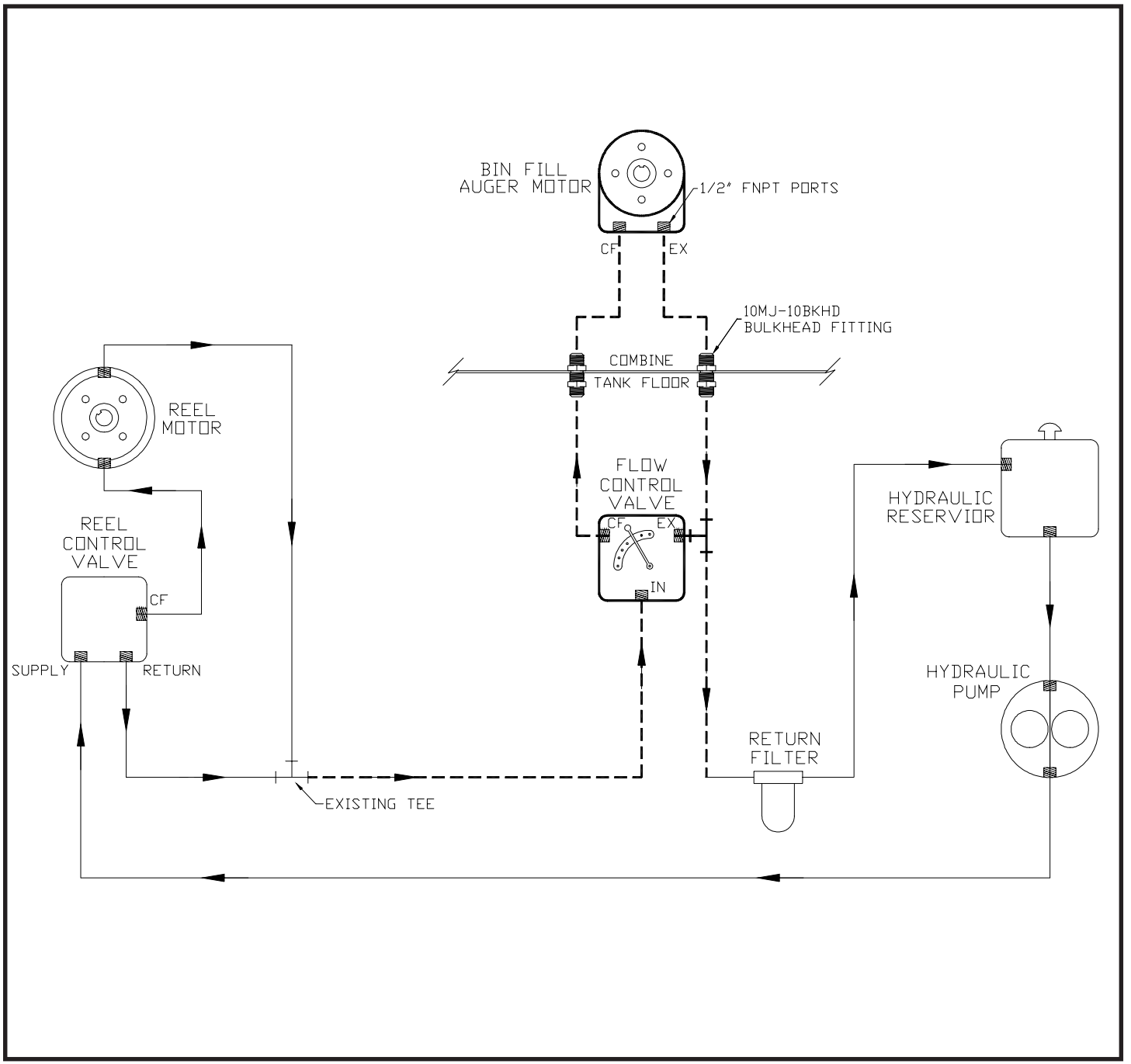


Figure 16

OPERATION

The Maurer Mfg. Bin Fill Auger is designed to mount inside of a combine grain tank and direct the grain to a desired location. The Bin Fill Auger is also designed to reduce the strain on the OEM clean grain auger system and improve grain quality. Power is provided by the combines hydraulics.

OPERATING SAFETY

- Read and follow this Owner's/Operator's Manual before operation.
- Beware of and avoid contact with low power llines and other obstructions.
- Install and secure all guards and shields before operation.
- Keep hands, feet, hair, and clothing away from all moving parts.
- Before applying power to any equipment, clear the area of all bystanders
- Be sure all hydraulic lines, fittings, and couplers are tight before and during operation.
- Shut off combine engine before connecting any hydraulics to machine.

INITIAL OPERATION

STEP ONE

Once the Bin Fill Auger has been properly installed to the combines hydraulic system, with the lines under pressure, open the flow control valve slightly. This will cause hydraulic fluid to flow to the Bin Fill Auger and purge any air from the system.

STEP TWO

When the Bin Fill Auger begins to operate, inspect the system for leaks. Tighten or replace any hoses or fittings if a leak is found.

STEP THREE

Make sure the engine is off and the machine has stopped. Use Figure 17 as a reference and adjust the Bin Fill Auger to the desired location. Once a location has been determined, Maurer Mfg. recommends removing one set screw at a time and drilling a small countersunk hole in the location of each set screw. This will aid the set screw in locking to the pipe and give the operator a reference point as to the position of the auger. (Replace and tighten all set screws when complete)

OPERATING THE BIN FILL AUGER

STEP ONE

If equipped, use the flow control valve to set the speed of the Bin Fill Auger.

STEP TWO

Once the speed has been set the Bin Fill Auger will run when the reel or chaff spreader circuit is engaged.

FOLDING THE BIN FILL AUGER

STEP ONE

Make sure the engine is off and the machine has stopped, before entering the grain tank.

STEP TWO

Enter the grain tank of the combine and grasp the bottom of the hydraulic motor with one hand.

STEP THREE

Use your other hand to pull the latch toward you and allow the Bin Fill Auger to rotate 90 degrees into the tank.

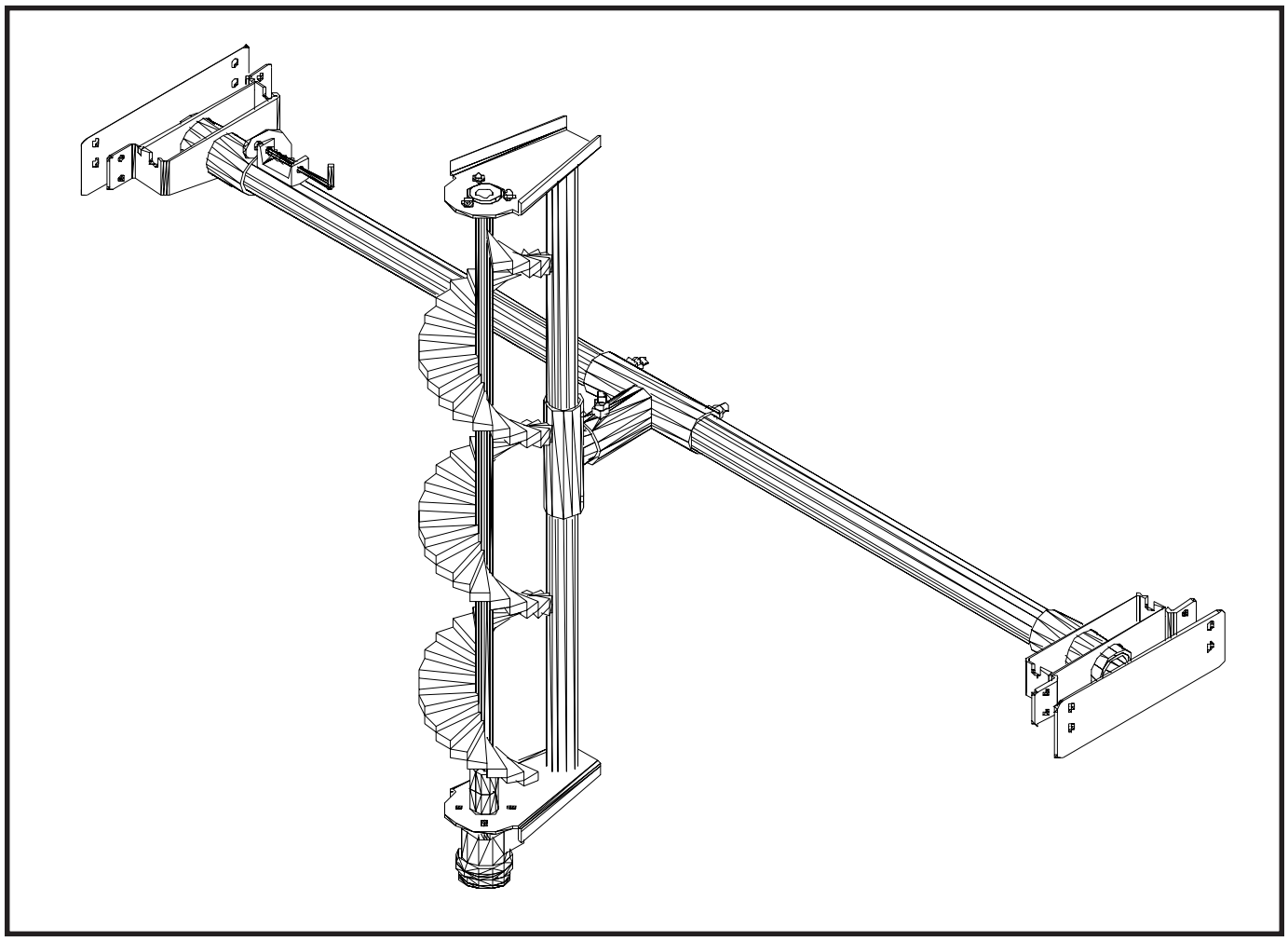
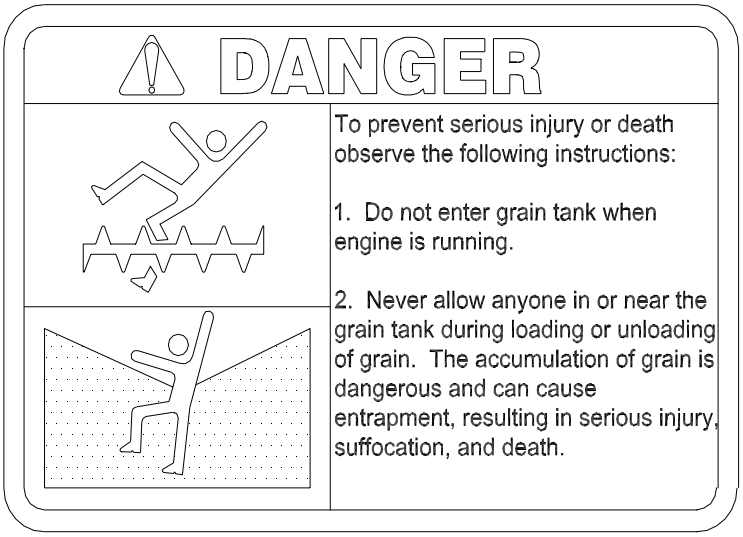


Figure 17


DANGER
To prevent serious injury or death observe the following instructions:
1. Do not enter grain tank when engine is running.
2. Never allow anyone in or near the grain tank during loading or unloading of grain. The accumulation of grain is dangerous and can cause entrapment, resulting in serious injury, suffocation, and death.

OPTIONAL EQUIPMENT - BFA EXTENDER 2010

9A000051 = BFA Extender 2010 Complete Assembly

REF. NO.	PART NO.	QTY.	ASSY. DESCRIPTION
1.	**R5A000004L0**	1	Cross Pipe Assembly
2.	**R3A000079L0**	1	16” BFA Extender Pipe
3.	**1AR00000100**	1	Plastic Barrel Plug - 2.130” Dia.

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

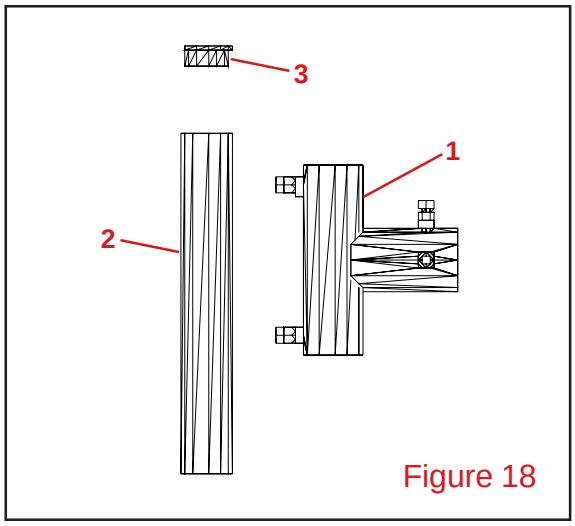


Figure 18

WARNING:

TO AVOID PERSONAL INJURY OR DEATH, OBSERVE THE FOLLOWING INSTRUCTIONS:

- Beware of and avoid contact with low power lines and other obstructions while operating combines equipped with the Maurer Bin Fill Auger and BFA Extender.

- Collapse and secure the Bin Fill Auger when transporting the combine to avoid contact with low power lines and other obstructions.

ASSEMBLY of BFA EXTENDER 2010

1) Loosen (2) set screws that connect the main auger assembly to the existing cross pipe pivot.

2) Remove the main auger assembly.

3) Rotate existing cross pipe pivot to vertical position. See Figure 19.

4) Insert 16” BFA extender pipe in existing cross pipe pivot. Tighten all set screws in existing cross pipe pivot.

5) Install plastic barrel plug in the top of the of the 16” extender pipe.

6) Slide new cross pipe assembly over 16” extender pipe. Adjust to preferred position and height, and tighten the two sets crews.

7) Attach main auger assembly to new cross pipe assembly, and tighten the two remaining set screws.

8) Tighten all jam nuts on set screws to secure Bin Fill Auger and BFA Extender assemblies.

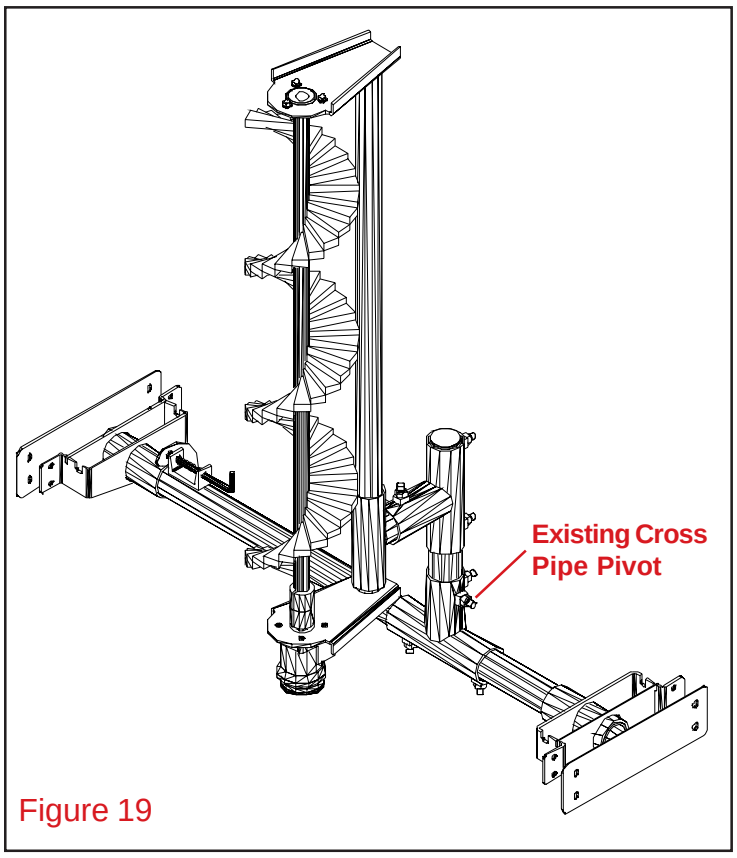


Figure 19

NOTE: Set your Bin Fill Auger to the postion which best fits your application. Make sure that the auger will not intefere or come in conatct 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.

If you have questions not answered in this manual, require additional copies, or if your manual is damaged, please contact your dealer or Maurer Manufacturing, P.O. Box 160, 1300 38th Ave. West, Spencer, Iowa 51301, Ph: (712) 262-2992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