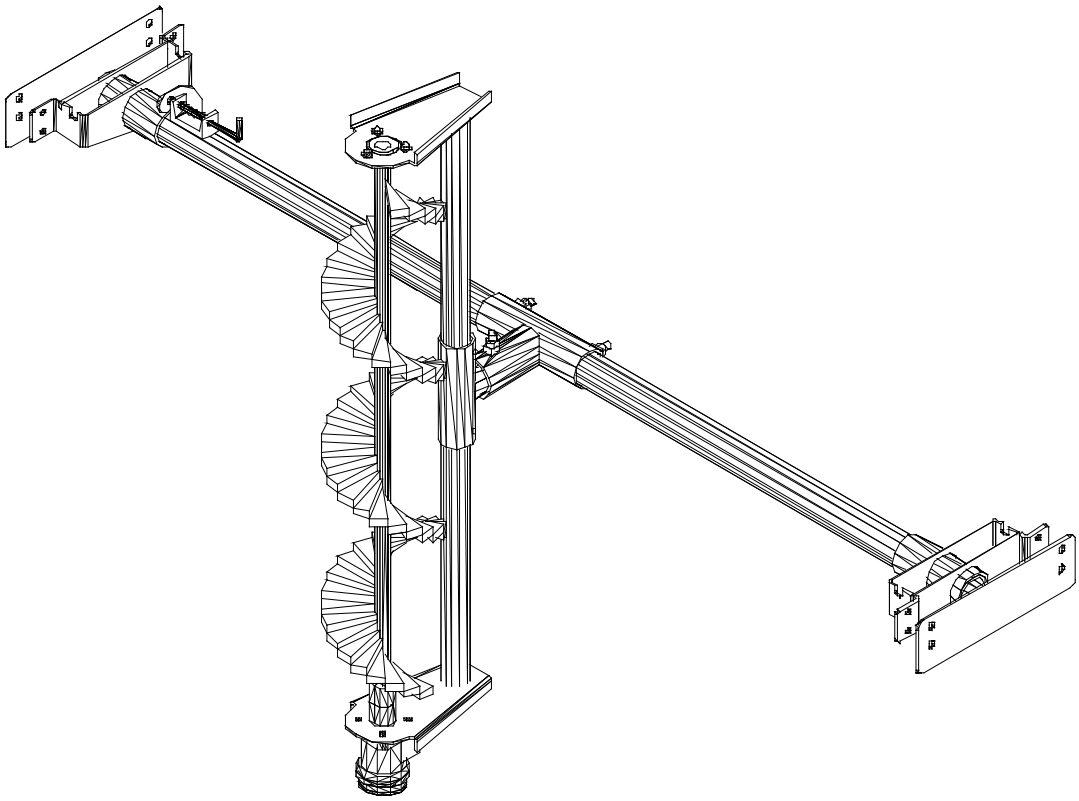
DEMCO

Doing Our Best to Provide You the Best

8A000013, Rev AH
07/25

40" BIN FILL AUGER (9A000013)

For Combine Grain Tanks



PLACE MANUAL IN COMBINE CAB AFTER ASSEMBLY FOR FUTURE REFERENCE

OPERATOR MANUAL

TABLE OF CONTENTS

In this document you will find information based on available knowledge at the time of its publication. To be accurate with the information, every effort was made but may not cover all details or variations of a product or provide every possibility in connection with its production, operation and maintenance. A Feature and Option may be presented in the manual that is not relevant to this product. Demco assumes no obligation of notice, to holders of this document, with changes made to a product.

SPECIFICATIONS AND DESIGN ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Demco is often making improvements and developing new designs. In doing so, we reserve the right to make changes and/or improvements without obligation for equipment sold beforehand. Self-modification to our products may affect the operation, function, and safety, so this is not advised. If a replacement part is necessary, Demco should supply it, please contact your nearest dealer or Demco.

DEMCO STATEMENT OF PRODUCT SAFETY

As a producer of agricultural and transportation equipment, Demco is fully aware of its responsibility of providing its customers products that perform their expected use, in a truly safe manner. Safety considerations shall be a fundamental and high precedence part of all engineering/design analysis and judgments involving Demco products. It is our stated policy that our products will be manufactured to coincide with the safety standards specified by the National Association of Trailer Manufacturers and/or any other officially recognized standards at the time manufactured. However, this statement should not be translated to mean that our product will uphold against a customer's own carelessness or disregard for common safety practices specified in each product's manual, nor will we be accountable for any such occurrence.

PRODUCT DISCLAIMER

Installing a Demco Bin Fill Auger on any combine is at the discretion of the owner. Although Demco 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 combine's grain tank or the combine's hydraulic system. See the combine's owner/operator manual for additional combine specification and safety information not listed in this manual.

INTRODUCTION

Thank you for your recent purchase of a New Demco Bin Fill Auger. We're "Doing Our Best To Provide You The Best". At Demco we strive to design, produce and deliver the highest quality products on the market. Our employees have a strong background of knowledge and combined experience in manufacturing to put quality workmanship into our products. In this manual you will find information covering Demco Bin Fill Augers. Please use the table of contents to locate specific areas of interest.

GENERAL INFORMATION

1. Please read assembly instructions carefully and study illustrations before beginning assembly.
2. Demco requires that you and anyone else who will be operating and maintaining the equipment read and understand the guidelines in the manual for safe, efficient, and trouble free operations.
3. Whenever terms "LEFT" and "RIGHT" are used in this manual, it means from a position behind the combine and facing forwad.
4. Proper maintenance, adjustments, and use will result in many years of service.
5. Keep this manual handy for frequent reference and to pass on to new operators or owners.
6. If assistance, information, or additional copies of the manual are needed, contact the nearest dealer, a distributor, or Demco.

WARRANTY POLICIES

Please go online to review Demco Warranty Policies. The warranty information is located at www.demco-products.com/resources/warranty-policies.

The Demco Warranty does not cover the following:
1) Cleaning, transporting, mailing, and service call charges.
2) Depreciation or damage caused by normal wear, accidents, improper protection or improper use.

MANUALS & ASSISTANCE

This manual has been prepared to assist you in the operation of your new Bin Fill Auger and contains information pertaining to safety and operations.

Demco personnel are available to assist you if questions arise concerning the maintenance or operations of your equipment. 1-800-54DEMCO (800-543-3626).

To order any parts or additional accessories for your auger, please contact your dealer or view our online manuals at: www.demco-products.com

- Current manuals are listed in | Agriculture Equipment | Harvest Equipment | Bin Fill Augers for Combines ' Manuals (Located at the bottom of the page)
- Older manuals are listed in | Resources | Archived Manuals

THIS SYMBOL MEANS: ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

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!

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.

EQUIPMENT 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.

Operator should be a responsible adult. **DO NOT ALLOW PERSONS TO OPERATE OR ASSEMBLE THIS EQUIPMENT UNTIL THEY HAVE DEVELOPED A THOROUGH UNDERSTANDING OF SAFETY PRECAUTIONS AND HOW IT WORKS.**

DO NOT modify the equipment in anyway. Doing so may impair the function and/or safety and could affect the life of the equipment.

Review safety instructions with all users annually.

Replace any caution, warning, danger or instruction safety decal that is not readable or is missing. Location of such decals is indicated in this manual.

Do not paint over, remove, or deface any safety signs or warning decals on your equipment. Observe all safety signs and practice instructions on them.

RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your equipment or in this manual, be alert to the potential for personal injury. Follow recommended precautions and safe operation practices.

FOLLOW SAFETY INSTRUCTIONS

- Carefully read all safety messages in the manual and on your equipment safety signs.
- Keep safety signs in good condition.
- Replace missing or damaged safety signs.
- Learn how to operate the equipment and how to use controls properly.
- Do not let anyone operate without instruction.
- Keep your equipment in proper working condition.
- Unauthorized modification to the equipment may impair the function and/or safety and affect equipment life.
- Never exceed the limits of a piece of equipment. If it's ability to do a job safely is in question, DO NOT attempt it.
- 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 while operating combines equipped with the Demco Bin Fill Auger.
- Collapse and secure the Bin Fill Auger when transporting the combine to avoid contact with low power lines and other obstructions.

PROTECT CHILDREN AND BYSTANDERS

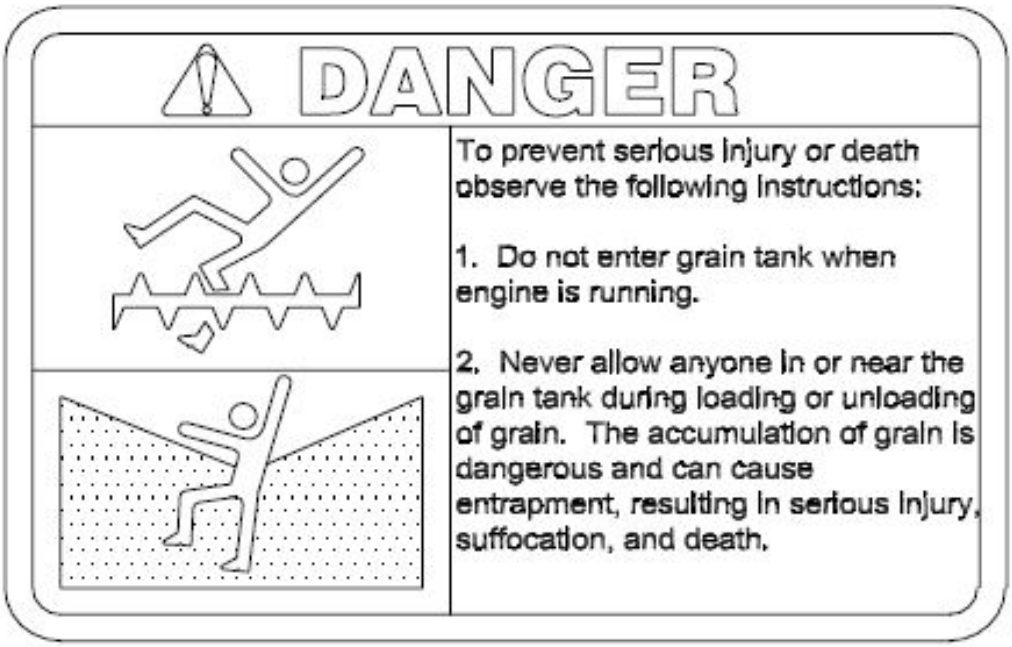
- Never leave running equipment unattended.
- Before applying power to any equipment, clear the area of children, pets, and bystanders.

PERFORM 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, Demco does not accept any liability for injury or warranty.

Safety Sign Location

Types of safety signs and locations on equipment are shown in the illustration below. Good safety requires that you familiarize yourself with various signs, types of warning, and areas or particular functions related to those areas, that require 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 replacement parts contain safety signs, if the original part was provided with a safety sign.
- Safety signs are available from your dealer or Demco.

GENERAL AUGER ASSEMBLY

There are many aspects to take into consideration before mounting the Demco Bin Fill Auger to the combine's grain tank.

ASSEMBLE IN AN AREA WITH SUFFICIENT SPACE TO HANDLE THE LARGEST OF COMPONENTS RELATED TO THIS PRODUCT. WHEN NECESSARY, HAVE SOMEONE ASSIST YOU DURING THIS ASSEMBLY PROCESS.

- 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 Auger's infinite positions inside the grain tank, the peak of the grain heap can be placed exactly where you want.)
- Locate the Bin Fill Auger as close to the center of the grain tank as possible, and ideally near vertical when operating. (Due to grain tank bracing, location of cross augers, etc., it may not be possible to locate the Bin Fill Auger exactly in the center of the grain tank. There is no adverse effect on the operation of the Bin Fill Auger if positioned in any direction.)
- On most combines the tank cross pipe assembly (Item 6 , Figure 1) should be positioned to the left side of the fountain auger's 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 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 entagled 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.
- Adjust the Bin Fill Auger rotational speed 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, the combine reel, and the chaff spreader (if equipped) are plumbed in a series circuit and can be controlled individually.
- Demco recommends using 1/2" wire hydraulic hoses for the hydraulic circuit.
- When pipe threads are used, Demco recommends Teflon Paste; NOT Teflon Tape. (Over time, tape can disintegrate and damage the hydraulic system.)
- The return oil from the reel is used to power the Bin Fill Auger in all cases, except when installed on John Deere 2008 and newer STS 70 series. (See the hydraulic schematics on the following pages for proper power supply.)

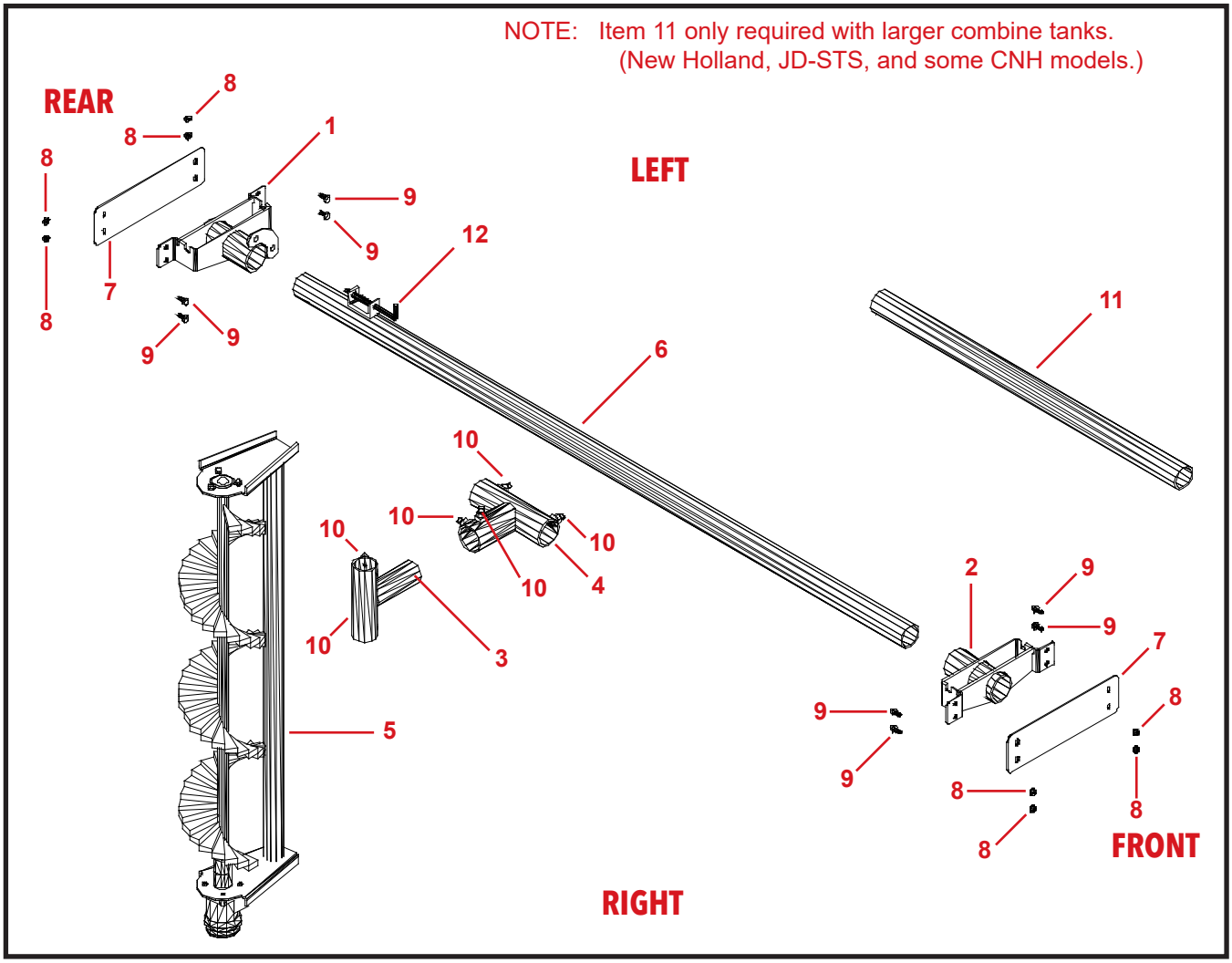


Figure 1

BASE UNIT PARTS LIST

REF. NO.	QTY	PART NO.	DESCRIPTION
1	1	5A000010	REAR TANK MOUNT ASSEBMLY
2	1	5A000011	FRONT TANK MOUNT ASSEMBLY
3	1	5A000003	BACKBONE COLLAR ASSEMBLY
4	1	5A000004	CROSS PIPE PIVOT ASSEMBLY
5	1	5A000006	40" MAIN AUGER ASSEMBLY
6	1	5A000007	TANK CROSS PIPE ASSEMBLY
7	2	3A000020	BACKING PLATE
8	8	1AFC08F0000	3/8"SERRATED FLANGE NUT
9	8	1AFC12FAAH0	3/8" X 1-1/2" HEX BOLT
10	6	1AFC24HBA00	1/2" X 2" SET SCREW
11	1	3A000019	SUPPORT CROSS PIPE - 40" EXTENSION
12	1	1AFZ51HEA00	1/2" X 5" BENT PIN W/CLIP

Please order replacement parts by PART NO. and DESCRIPTION.

STEP 1

- 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 necesary 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 2

- 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. (Figure 2)
  NOTE: Tank mounting brackets can also be mounted vertically if additional strength is required.

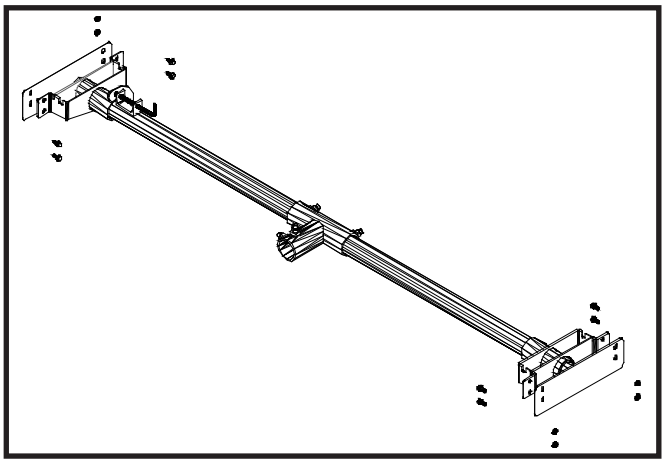


Figure 2

NOTE: Depending on the make and model of the combine, you may need to either cut or lengthen the cross pipe to fit the 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 3

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

STEP 4

- 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 point.

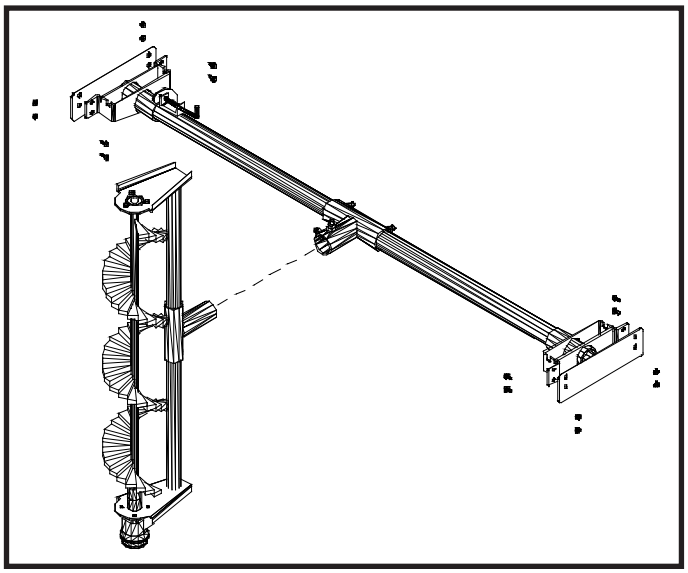


Figure 3

STEP 5

- 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. (Figure 3)

NOTE: Set the Bin Fill Auger to the position that 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.

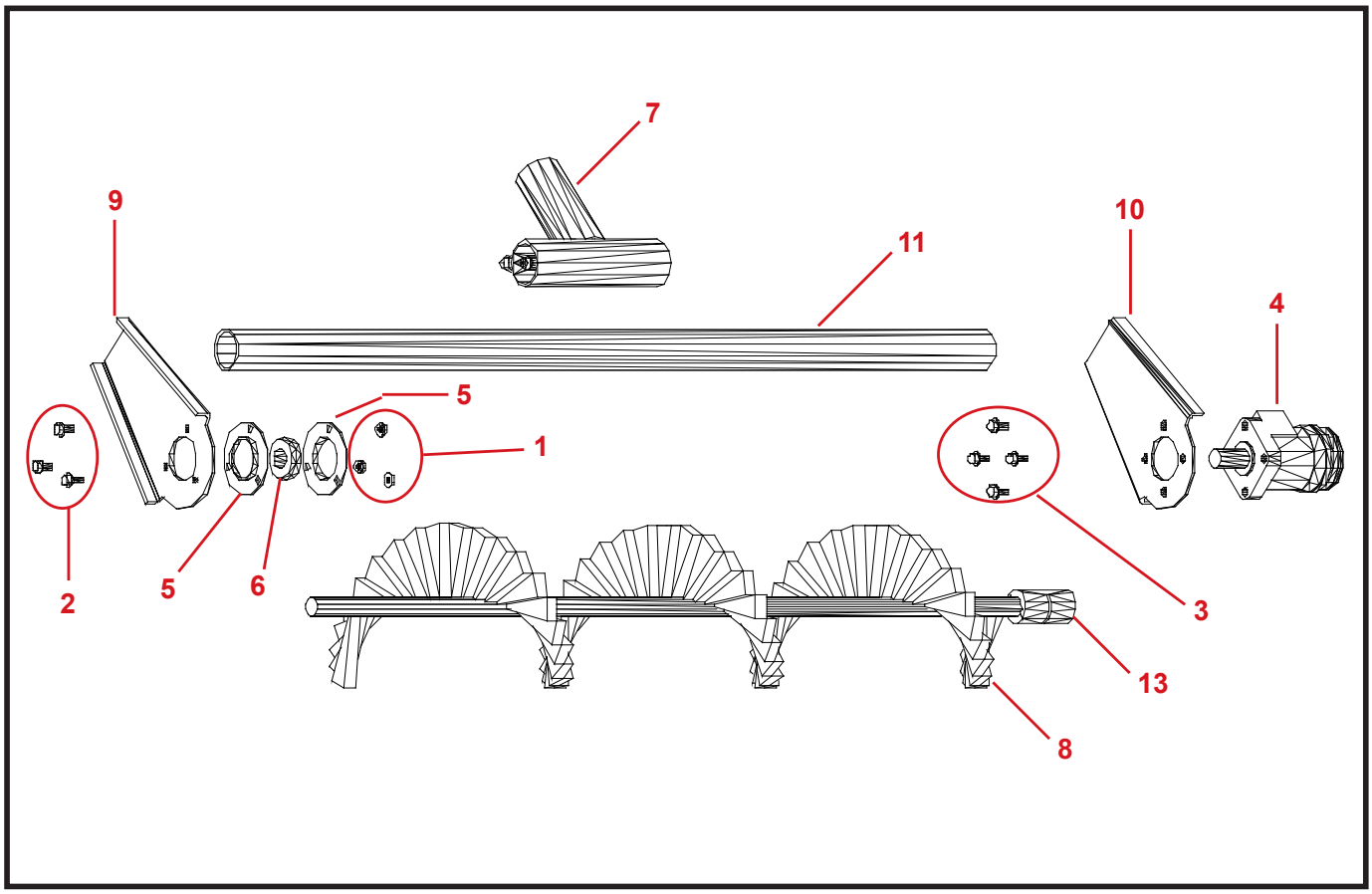


Figure 4

MAIN AUGER ASSEMBLY PARTS LIST - 5A000006

REF. NO.	QTY	PART NO.	DESCRIPTION
1	3	1AFC08E0000	5/16"-18 SERRATED FLANGE NUT
2	3	1AFC37E00L0	5/16"-18 X 3/4" SERRATED FLANGE BOLT GR5
3	4	1AFC37F00L5	3/8"-16 X 3/4 SERRATED FLANGE BOLT GR5
4	1	1AKMABD0000	HYDRAULIC MOTOR DH-80
5	2	1AL00004000	BEARING FLANGETS
6	1	1ALAA003000	BEARING 1" IAB
7	1	5A000003	BACKBONE COLLAR ASSEMBLY
8	1	5A000005	AUGER FLIGHTING ASSEMBLY
9	1	3A000002	TOP AUGER PLATE
10	1	3A000003	BOTTOM AUGER PLATE
11	1	3A000009	BACKBONE TUBE 40"
*12	1	DE21019	XS WHITE DEMCO AUGER DECAL
13	1	1AF030QCA00	1" SHAFT COUPLER

*Indicates items not shown in illustrations.
Please order replacement parts by PART NO. and DESCRIPTION.

BEFORE CONNECTING HYDRAULICS

Determine the length of hydraulic hose needed to compensate for the auger 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 1
Identify the two 1/2" FNPT ports on the hydraulic motor provided with the Bin Fill Auger. When looking directly at them, the port to the left is the "Control Flow" or "CF" port. The port to the right is the "Excess" or "EX" port.

Step 2
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 3
The location of the bulkhead fittings will be determined by the make and model of the combine. Follow the respective combine recommendations below:

Case IH 1400 & 1600 Series and
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.

Case IH 2100, 2300, & 2500 Series and
John Deere 9000 & STS Series
If the "EZ-Connect" hydraulic connection is used, access the grain tank through 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: For Case IH, see the Case IH Hydraulic Reverser information in this manual for additional details.

New Holland TR Series 96/97/98/99
In stall the two bulkhead fittings on the bottom right side of the grain tank, ahead of the loading auger on the sloped surface.

CHECK VALVE INSTALLATION

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

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 Demco 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" and is located on the top port to the 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. Connect the hose that was disconnected from the "T" port to the female end of the check valve. (Figure 5)

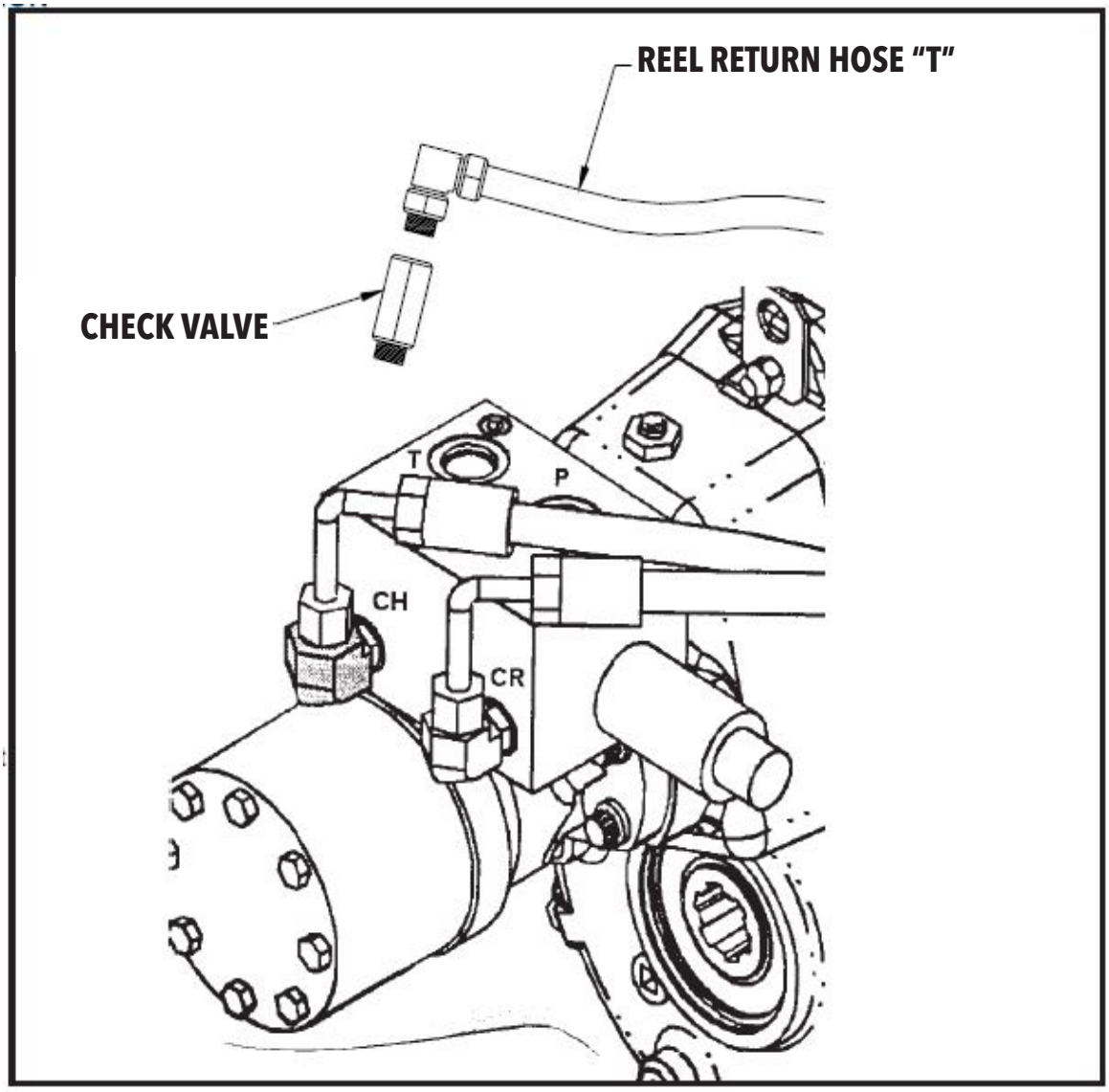


Figure 5

CHECK VALVE INSTALLATION WITH CHAFF SPREADER

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

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. Plumb accordingly to Figure 6. 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 Figure 6 indicate new hydraulic components recommended with the use of a Demco Bin Fill Auger. All other hydraulic components shown are existing from the manufacturer.

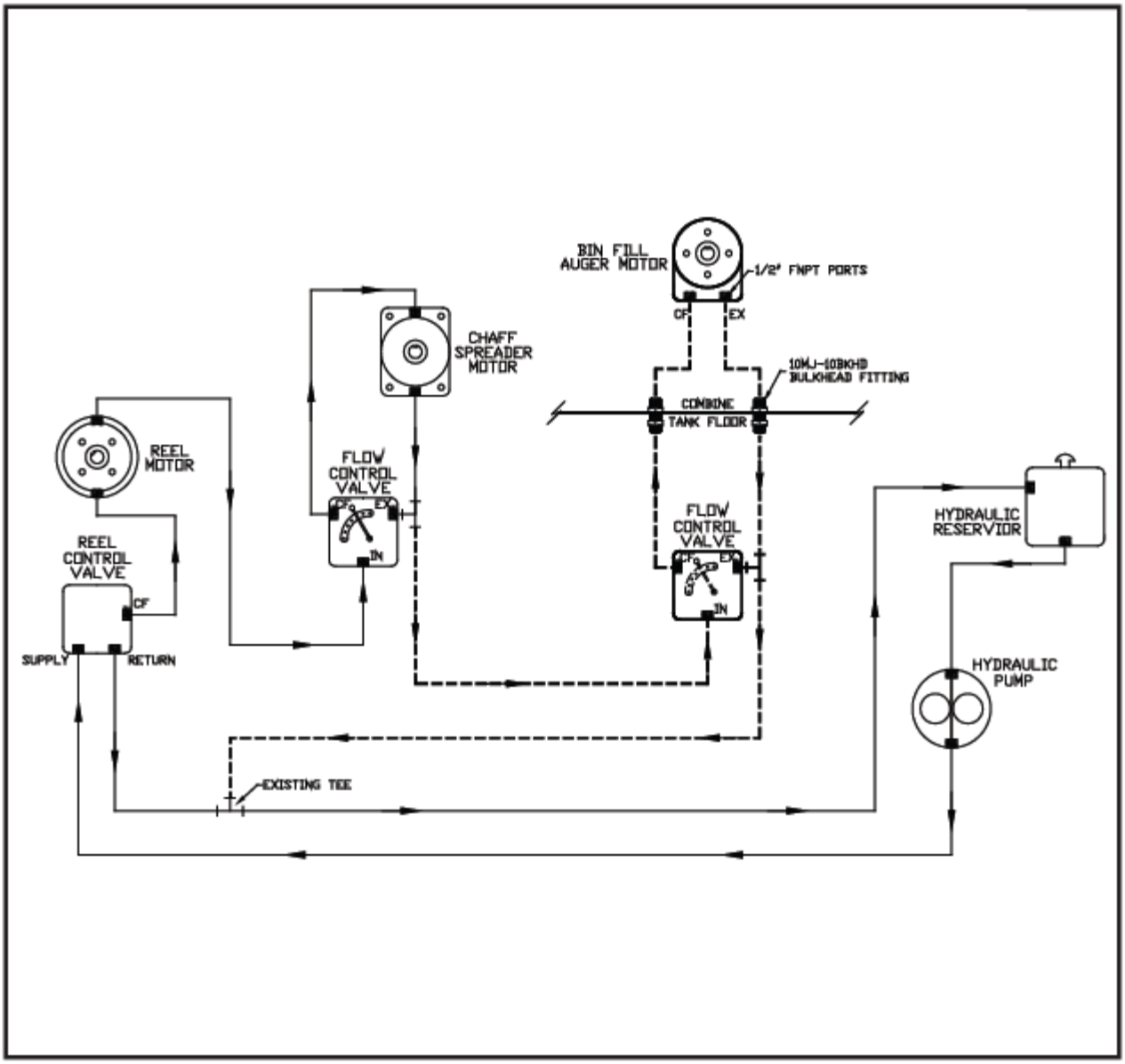


Figure 6

CHECK VALVE INSTALLATION WITHOUT CHAFF SPREADER

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

On the left side of the combine, above the left front wheel, locate the "Tee" fitting that links the reel circuit return lines together. On the bottom side of the Tee is 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 Figure 7. 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 Figure 7 indicate new hydraulic components recommended with the use of a Demco Bin Fill Auger. All other hydraulic components shown are existing from the manufacturer.

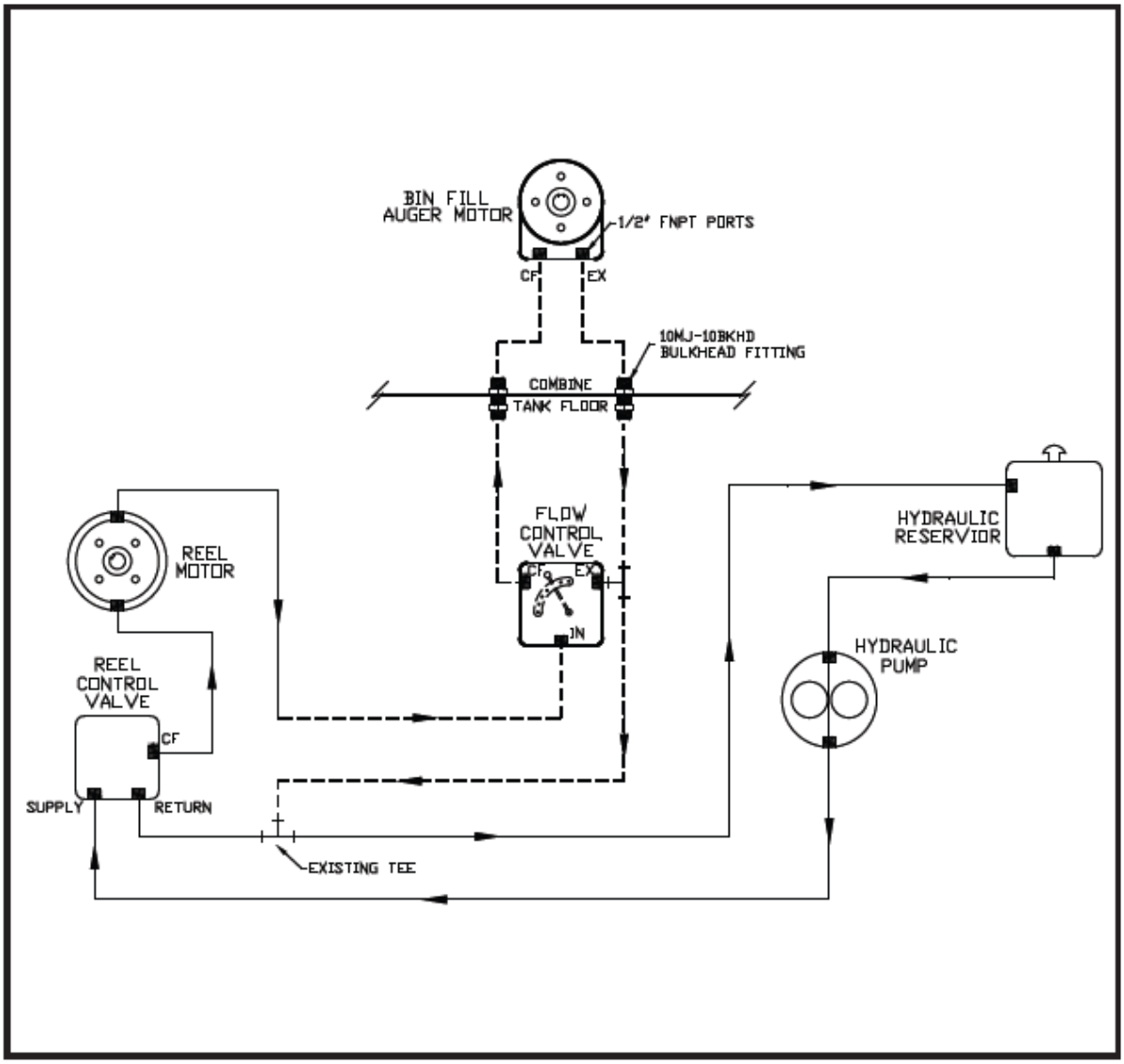


Figure 7

CHECK VALVE INSTALLATION

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

Case IH 5088, 6088, and 7088 combines may be equipped with a hydraulic header reverser. This reverser motor is located on the left side of the feeder house. (Figure 8)

When installing a Demco 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 on the 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. Connect the hose that was disonnected from the "T" port to the female end of the check valve. (Figure 9)

Figure 8

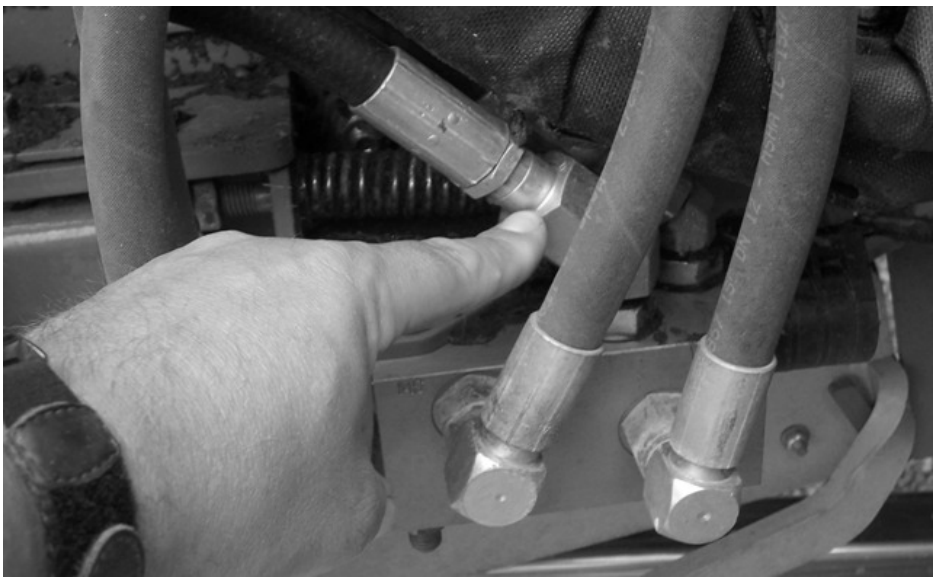


Figure 9

CHECK VALVE INSTALLATION

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

On the left side of the combine, above the left front wheel, locate the "Tee" fitting that links the reel circuit return lines together. (Figure 10) Disconnect this return hose from the Tee. This hose will become the power source. Run a short length of hose from the hose you just disconnected to the IN port of the flow control valve to control the speed of the Bin Fill Auger. Then plumb accordingly to Figure 10. 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 Figure 10 indicate new hydraulic components recommended with the use of a Demco Bin Fill Auger. All other hydraulic components shown are existing from the manufacturer.

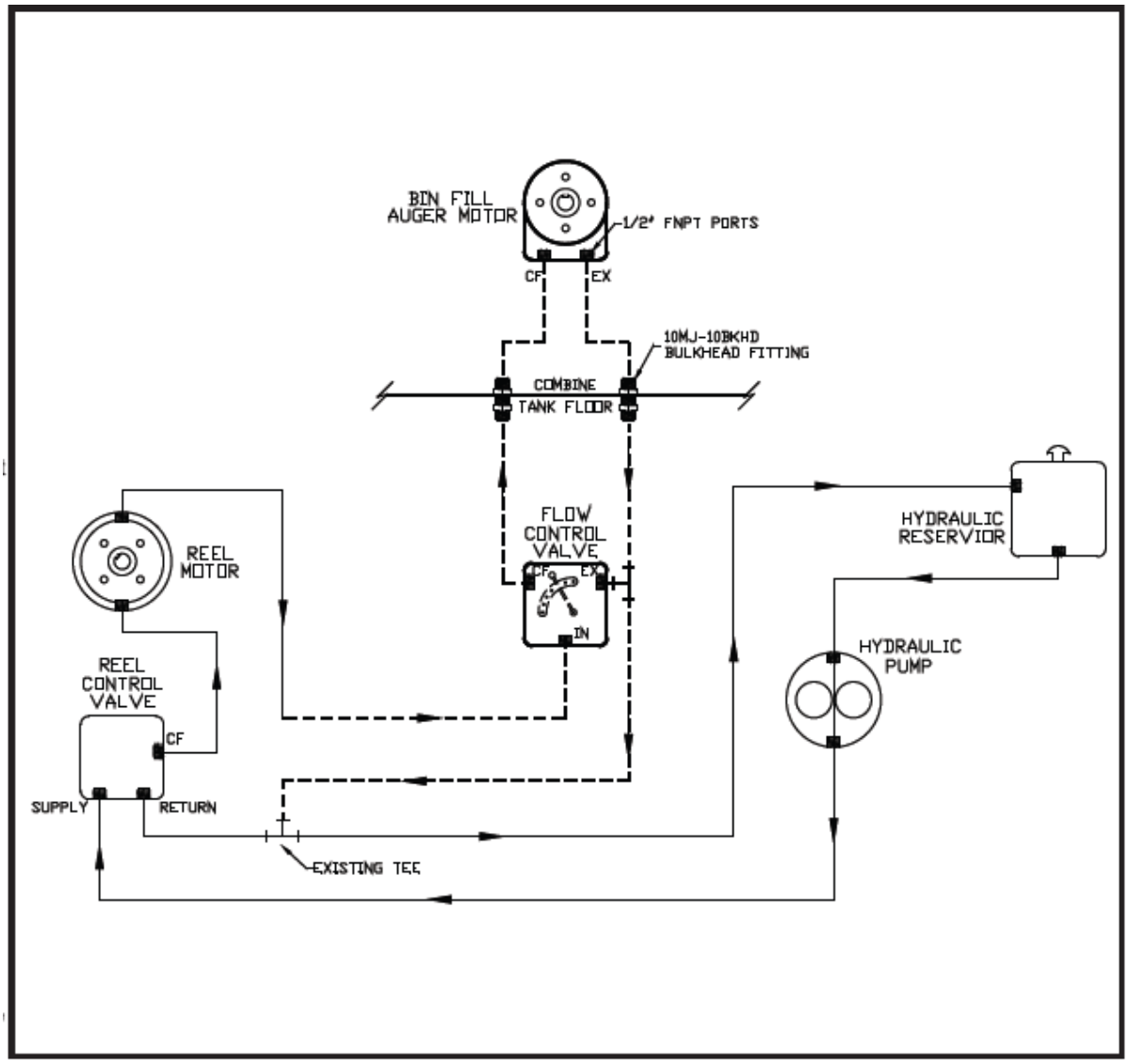


Figure 10

CHECK VALVE INSTALLATION WITH CHAFF SPREADER

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

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. Plumb accordingly to Figure 11. 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 Figure 11 indicate new hydraulic components recommended with the use of a Demco Bin Fill Auger. All other hydraulic components shown are existing from the manufacturer.

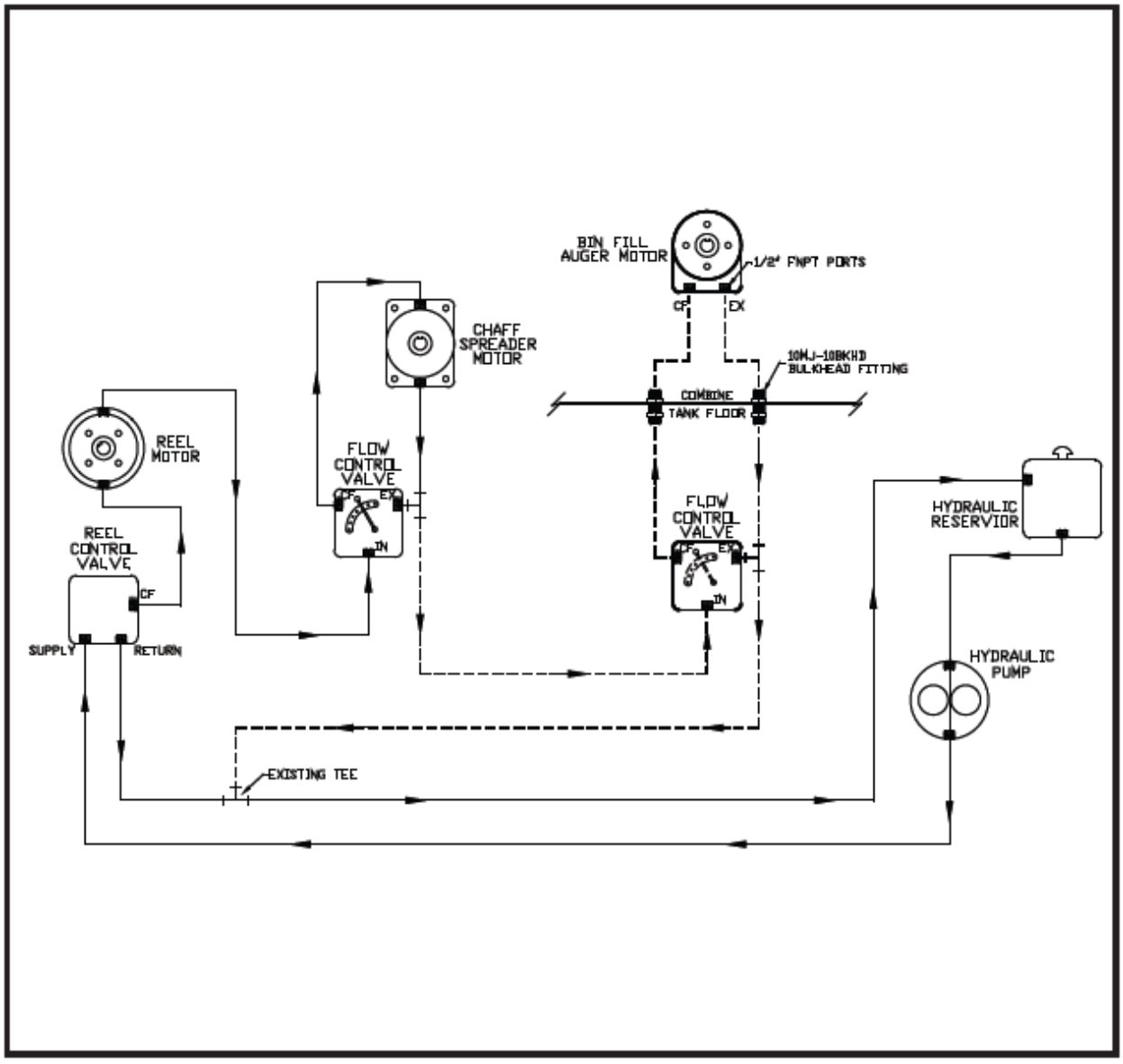


Figure 11

CHECK VALVE INSTALLATION WITHOUT CHAFF SPREADER

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

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 that controls the speed of the Bin Fill Auger. Then plum accordingly to Figure 12. 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 Figure 12 indicate new hydraulic components recommended with the use of a Demco Bin Fill Auger. All other hydraulic components shown are existing from the manufacturer.

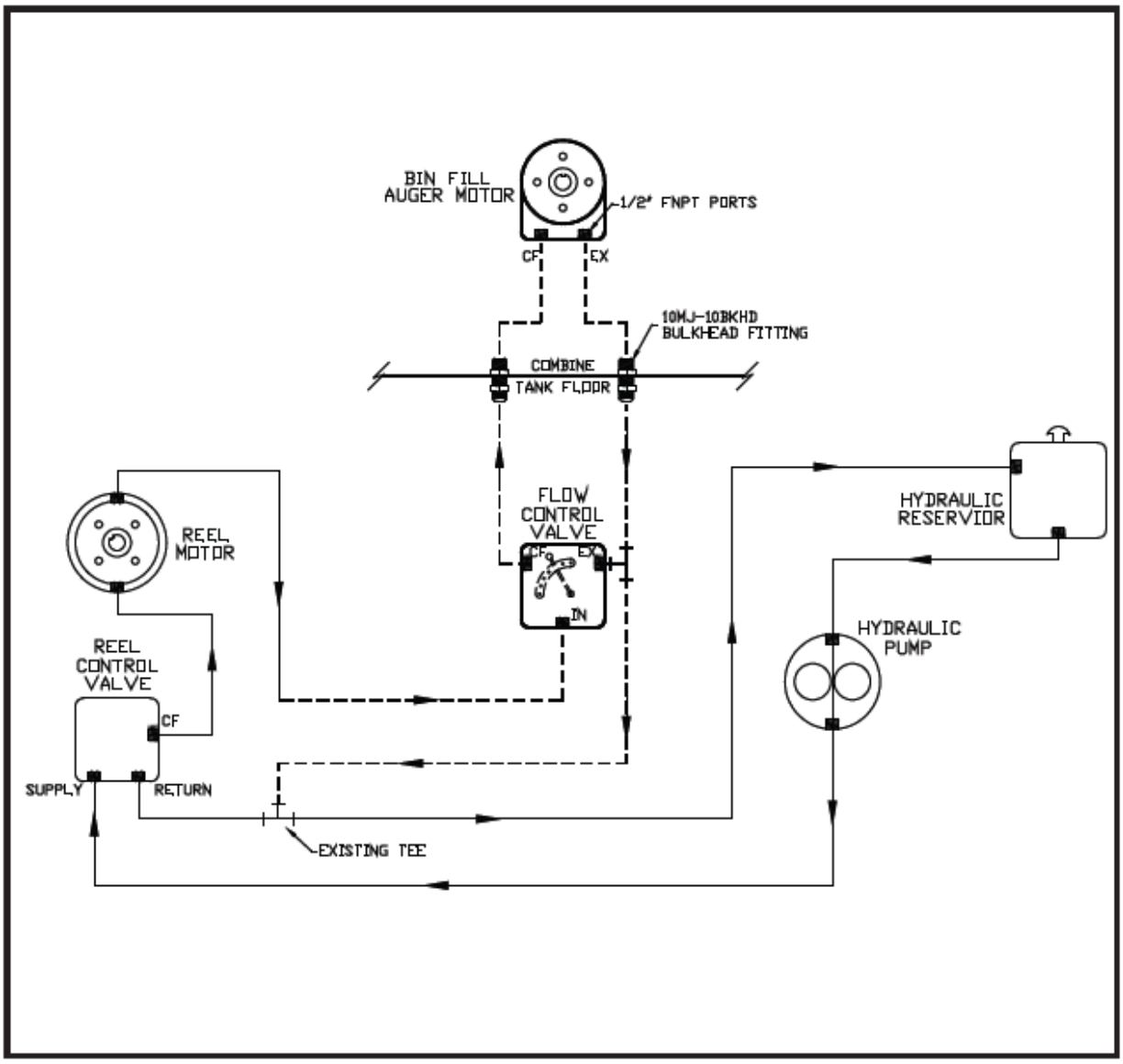


Figure 12

CHECK VALVE INSTALLATION WITH HYDRAULIC REVERSE VALVE

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

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 Figure 13. The return hose routed from the EX port of the Bin Fill Auger's flow control valve then connects to the "P" port of the reel control valve to complete a series circuit.

Hydraulic components shown in bold dashed lines on Figure 13 indicate new hydraulic components recommended with the use of a Demco Bin Fill Auger. All other hydraulic components shown are existing from the manufacturer.

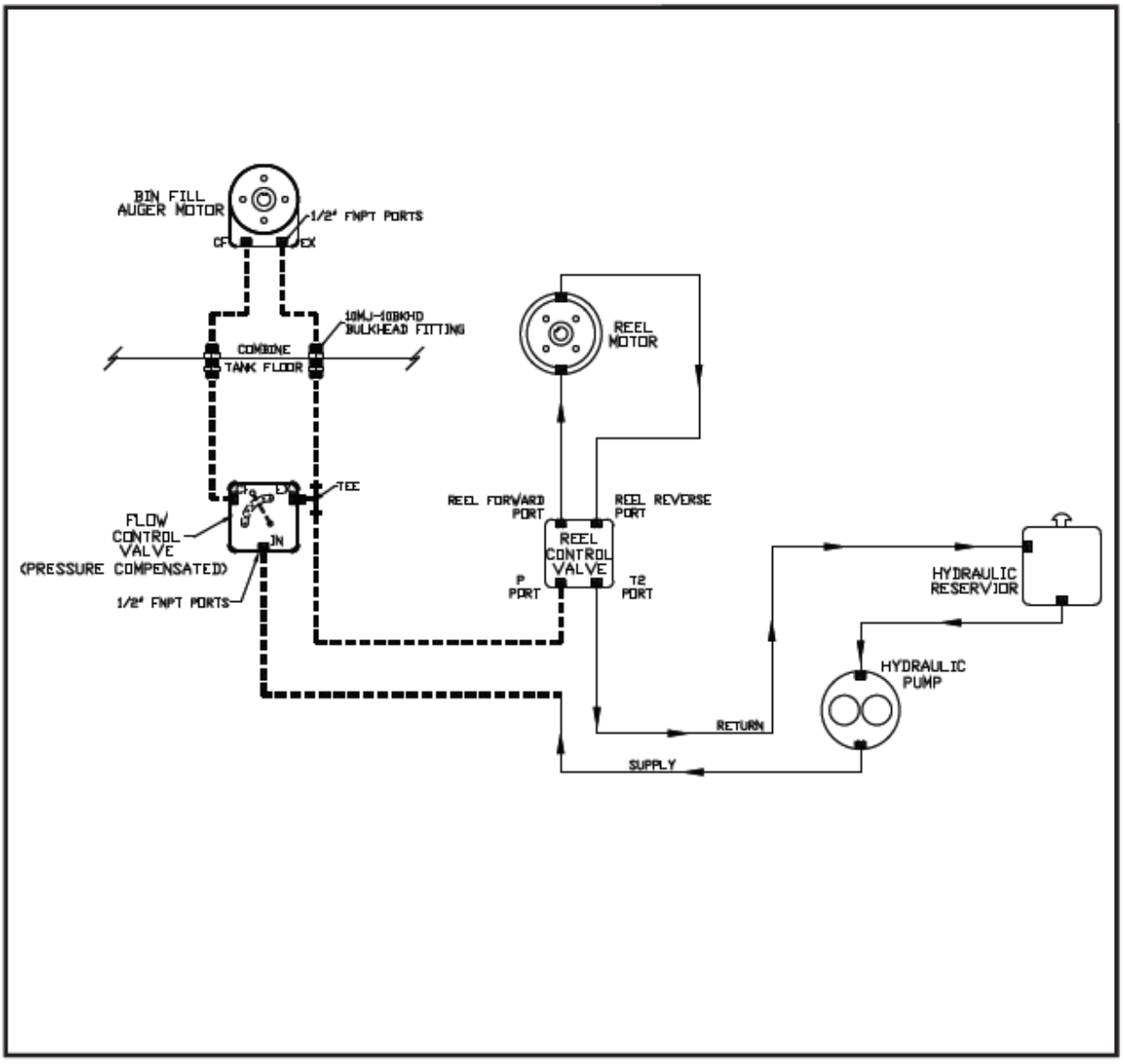


Figure 13

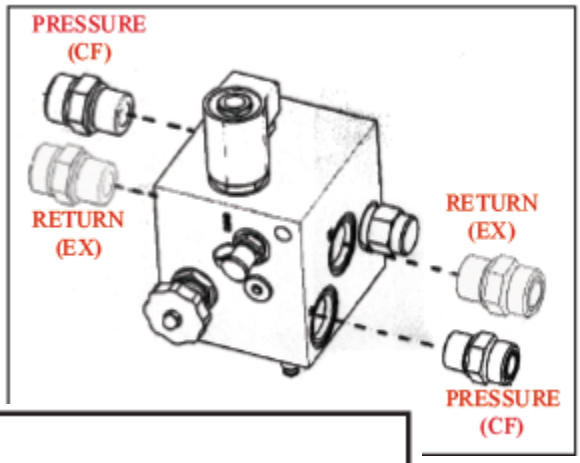
FOR COMBINE MODELS 7010, 8010, CR940, CR9040, CR960, CR9060, CR970, CR9070, CR980, CR9080

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

Locate the chaff spreader control valve (Figure 15) on the left rear side of the combine. Disconnect the pressure hose from the port on the 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 accrodingly to Figure 14. 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 Figure 14 indicate new hydraulic components recommended with the use of a Demco Bin Fill Auger. All other hydraulic components shown are existing from the manufacturer.

Figure 15



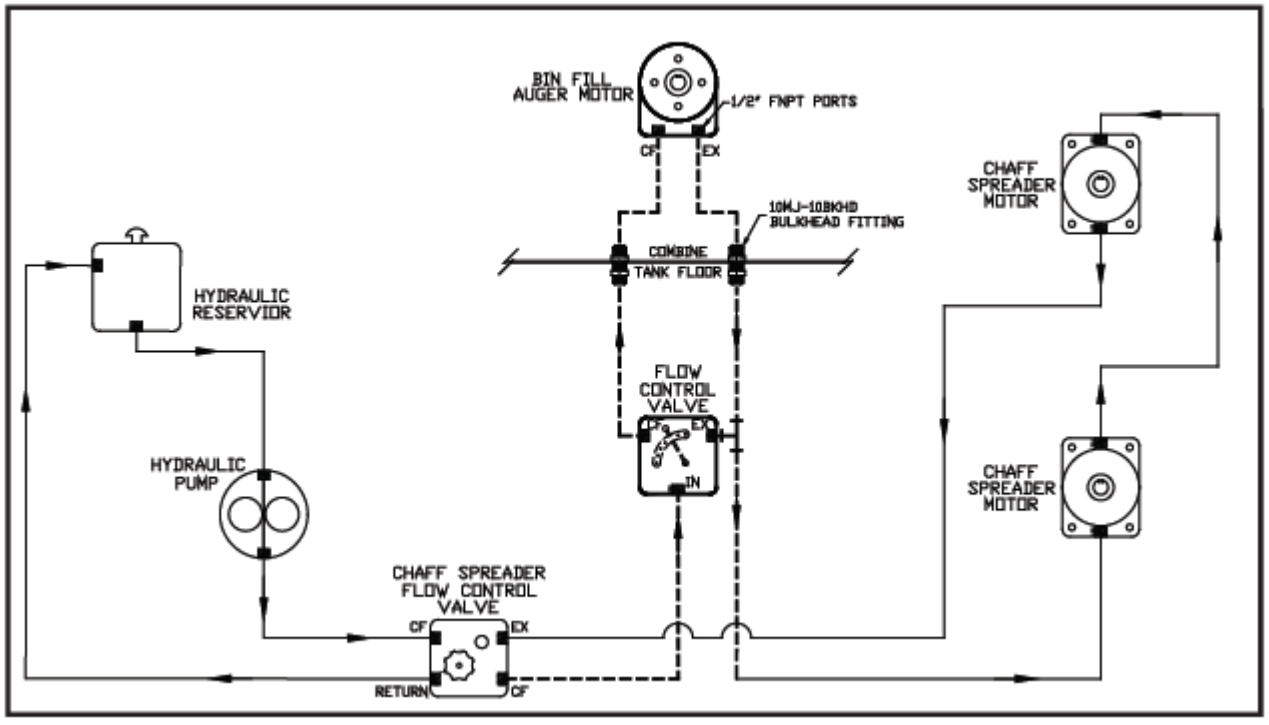


Figure 14

FOR COMBINE MODELS 7120, 8120, 9120

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

Locate the chaff spreader control valve (Figure 17) on the left rear side of the combine. Follow the steel pressure line back to the junction point (Figure 18). Disconnect the bottom, pressure hose from the back side of the junction point 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 accrodingly to Figure 16. 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 Figure 16 indicate new hydraulic components recommended with the use of a Demco Bin Fill Auger. All other hydraulic components shown are existing from the manufacturer.

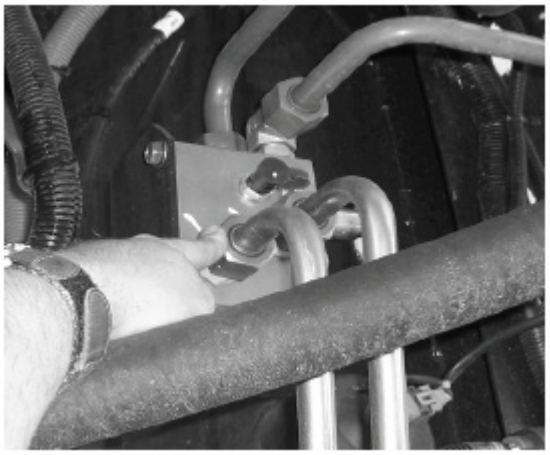


Figure 17

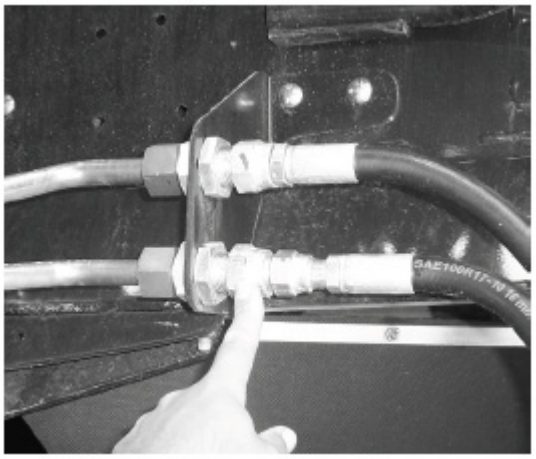


Figure 18

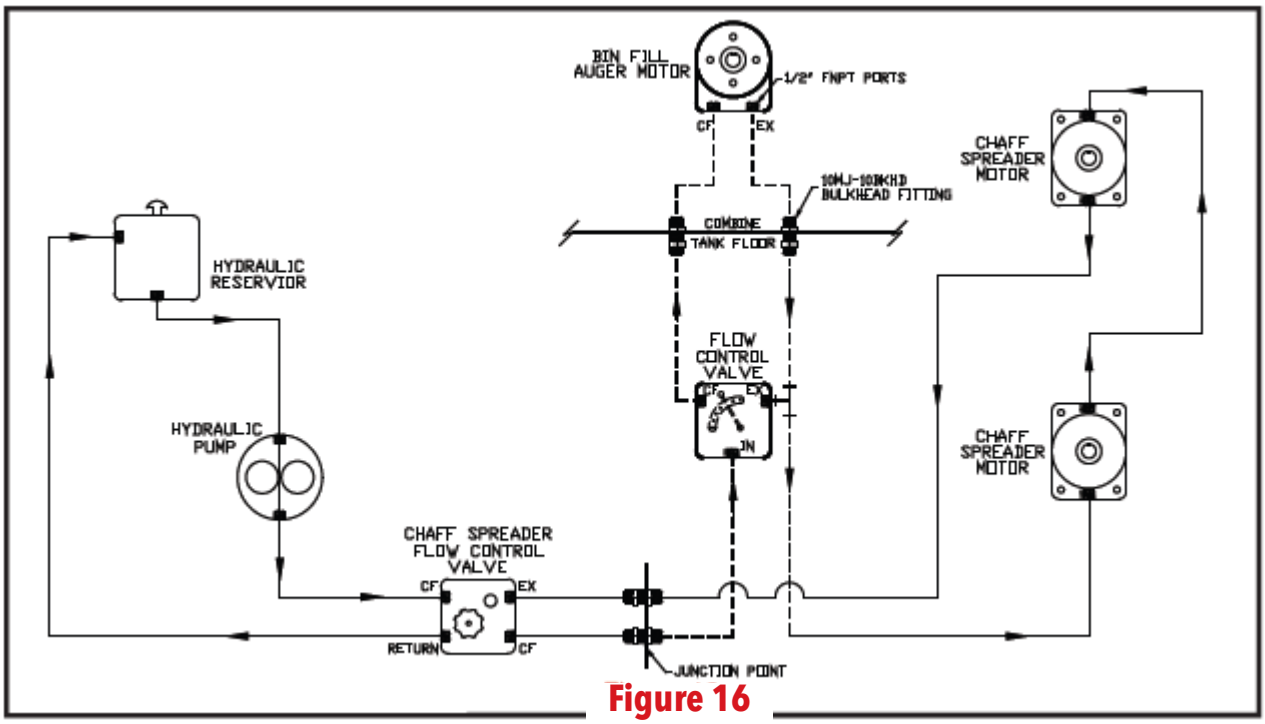


Figure 16

CHECK VALVE INSTALLATION WITH CHAFF SPREADER

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

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. Plumb accordingly to Figure 19. 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 that should return to the filter to complete a series circuit.

Hydraulic components shown in bold dashed lines on Figure 19 indicate new hydraulic components recommended with the use of a Demco Bin Fill Auger. All other hydraulic components shown are existing from the manufacturer.

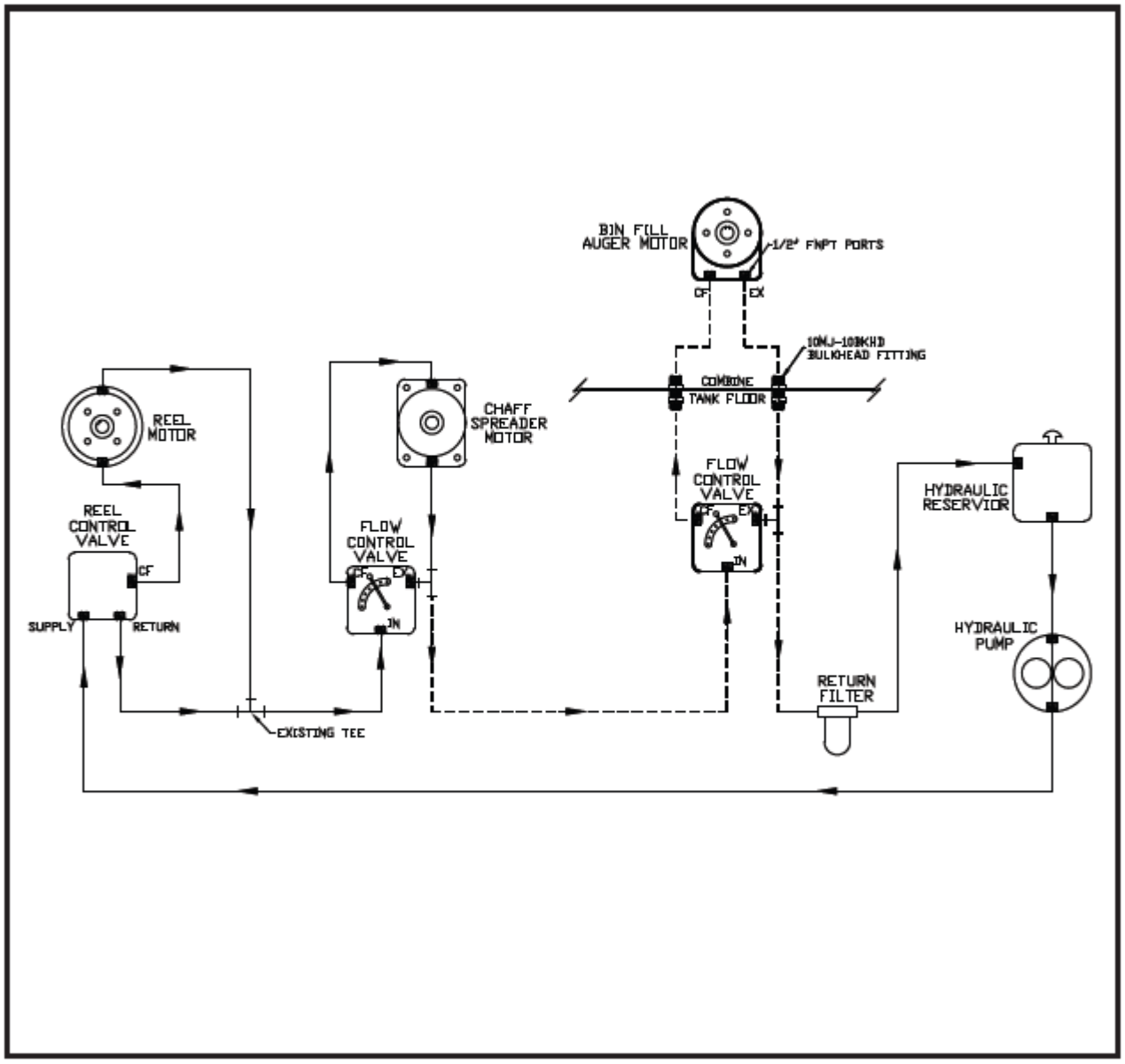


Figure 19

CHECK VALVE INSTALLATION WITHOUT CHAFF SPREADER

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

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 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 Figure 20. 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 Figure 20 indicate new hydraulic components recommended with the use of a Demco Bin Fill Auger. All other hydraulic components shown are existing from the manufacturer.

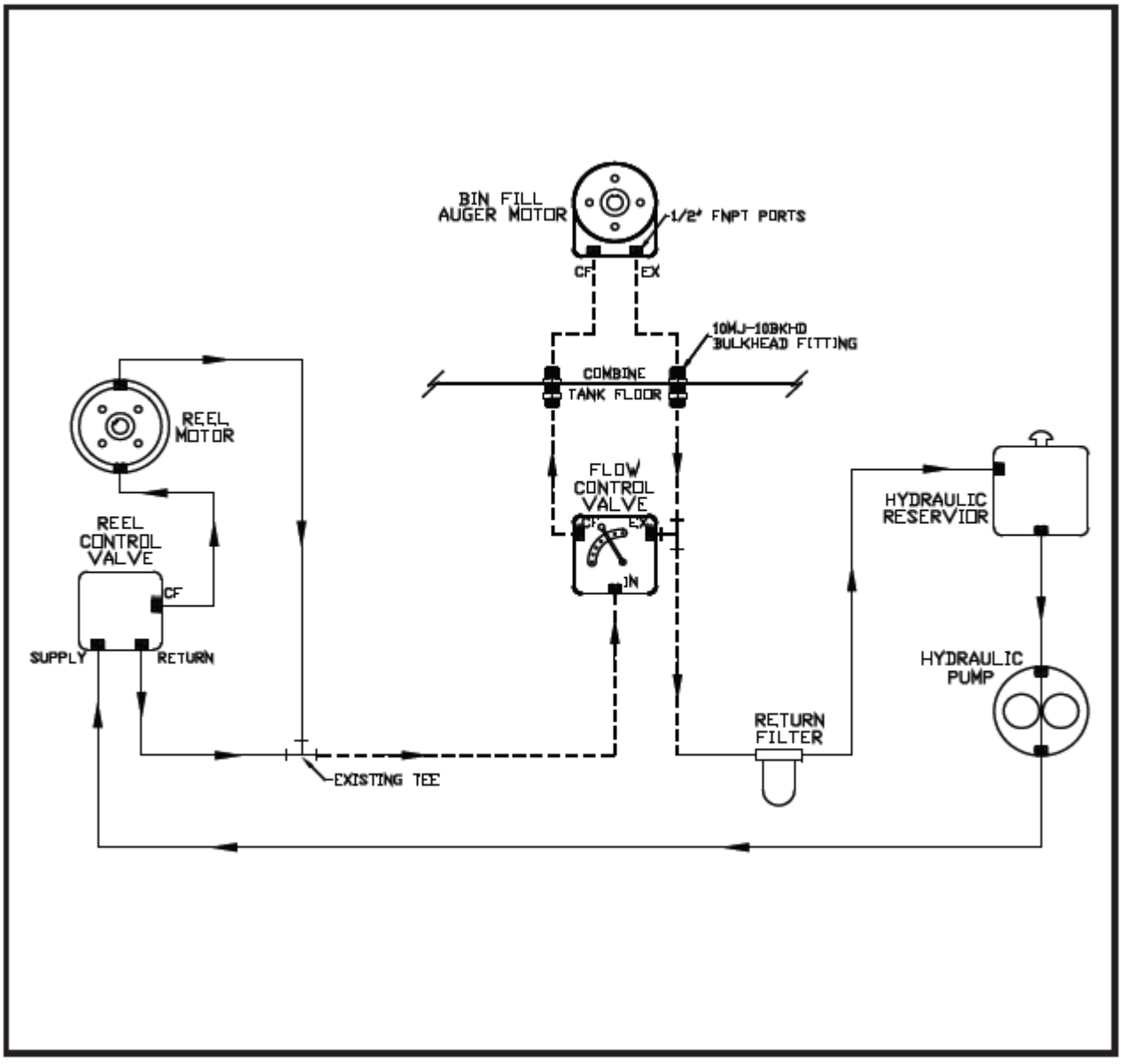


Figure 20

CHECK VALVE INSTALLATION WITH CHAFF SPREADER

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

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. Plumb accordingly to Figure 21. 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 Figure 21 indicate new hydraulic components recommended with the use of a Demco Bin Fill Auger. All other hydraulic components shown are existing from the manufacturer.

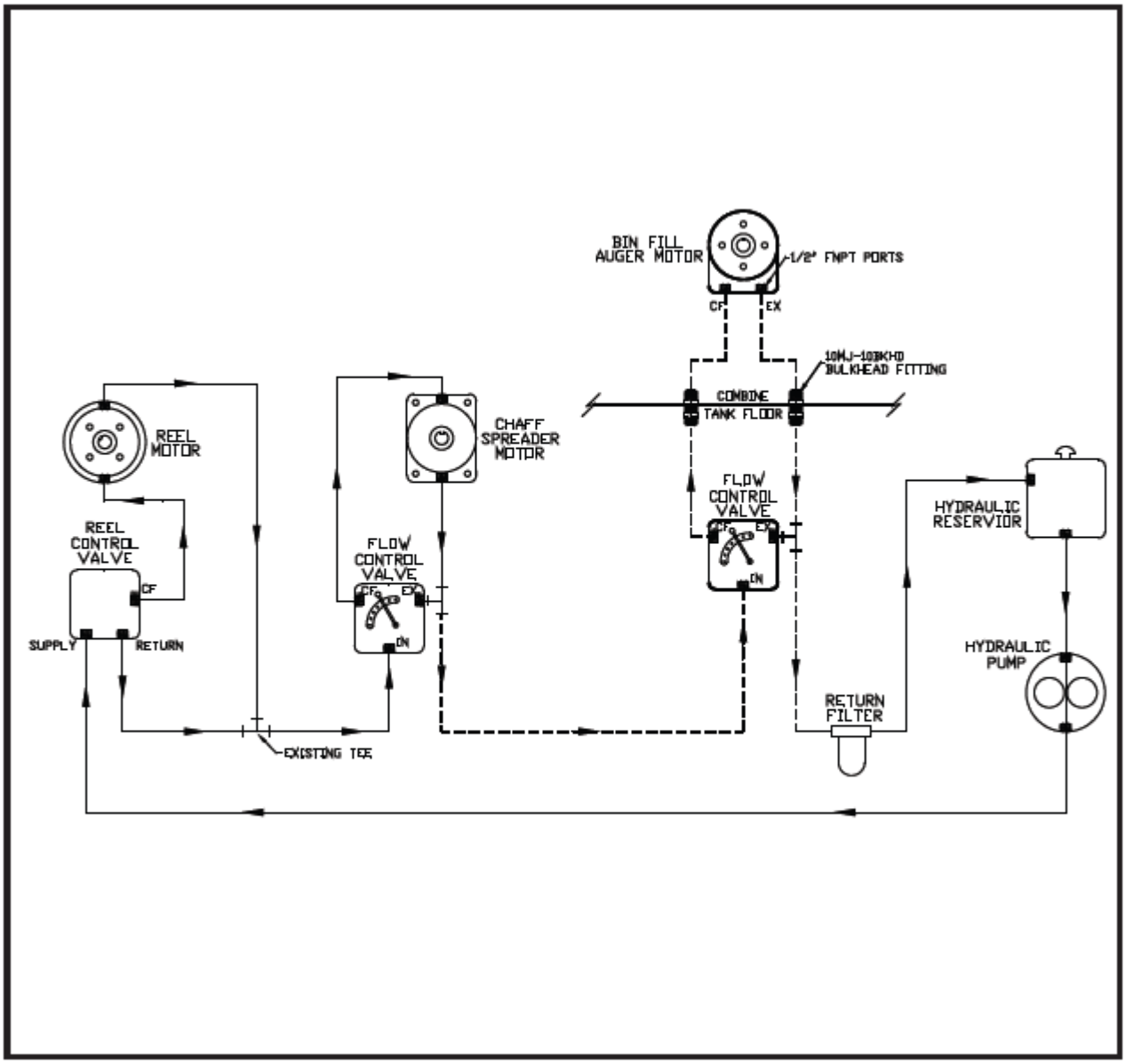


Figure 21

CHECK VALVE INSTALLATION WITHOUT CHAFF SPREADER

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

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 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 Figure 22. 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 Figure 22 indicate new hydraulic components recommended with the use of a Demco Bin Fill Auger. All other hydraulic components shown are existing from the manufacturer.

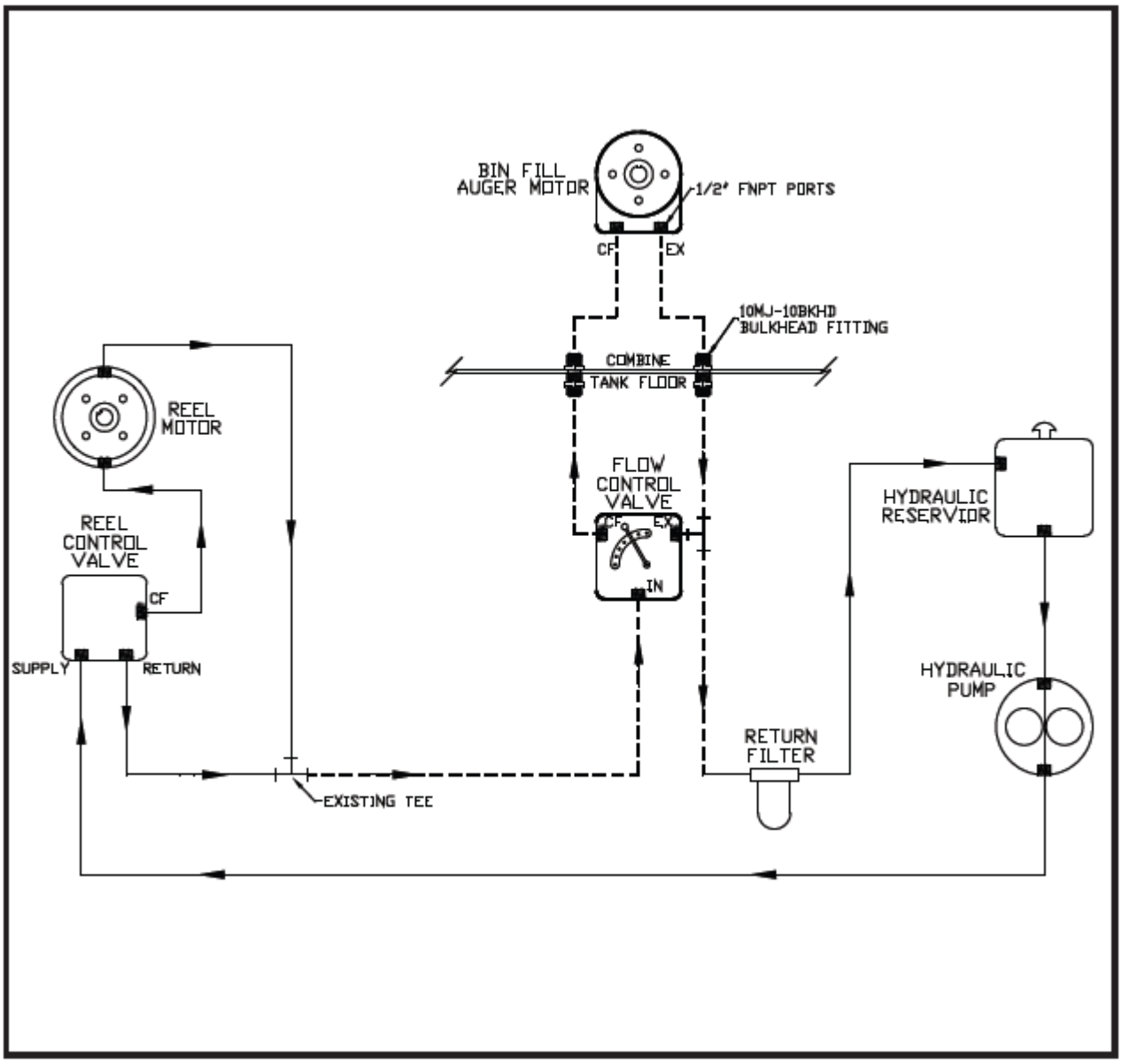


Figure 22

OPERATING SAFETY

The Demco 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 combine's hydraulics.

- Read and follow this manual before operation.
- Beware of and avoid contact with low power lines 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 the machine.

INITIAL OPERATION

Step 1

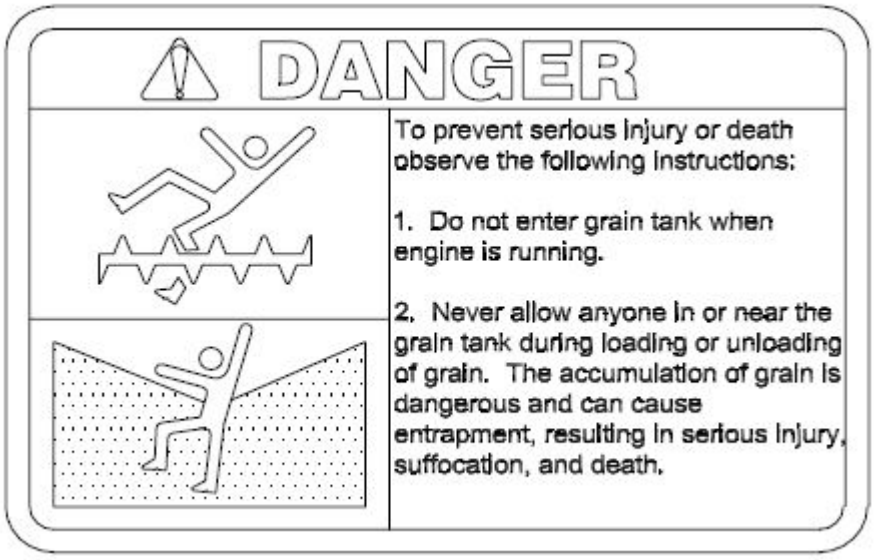
Once the Bin Fill Auger has been properly installed to the combine's hydraulic system, with the lines under pressure, open the flow control valve slightly. This will cause hydraulic fluid to flow to the Bin Fill Auger and purge any air from the system.

Step 2

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 3

Make sure the engine is off and the machine has stopped. Use Figure 23 as a reference and ajust the Bin Fill Auger to the desired location. Once a location has been determined, Demco 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 SAFETY CONTINUED

OPERATING THE BIN FILL AUGER

Step 1
If equipped, use the flow control valve to set the speed of the Bin Fill Auger.

Step 2
Once the speed has been set, the Bin Fill Auger will run when the reel or the chaff spreader circuit is engaged.

FOLDING THE BIN FILL AUGER

Step 1
Make sure the engine is off and the machine has stopped before entering the grain tank.

Step 2
Enter the grain tank of the combine and grasp the bottom of the hydraulic motor with one hand.

Step 3
Use your other hand to pull the latch toward you and allow the Bin Fill Auger to rotate 90 degrees into the tank.

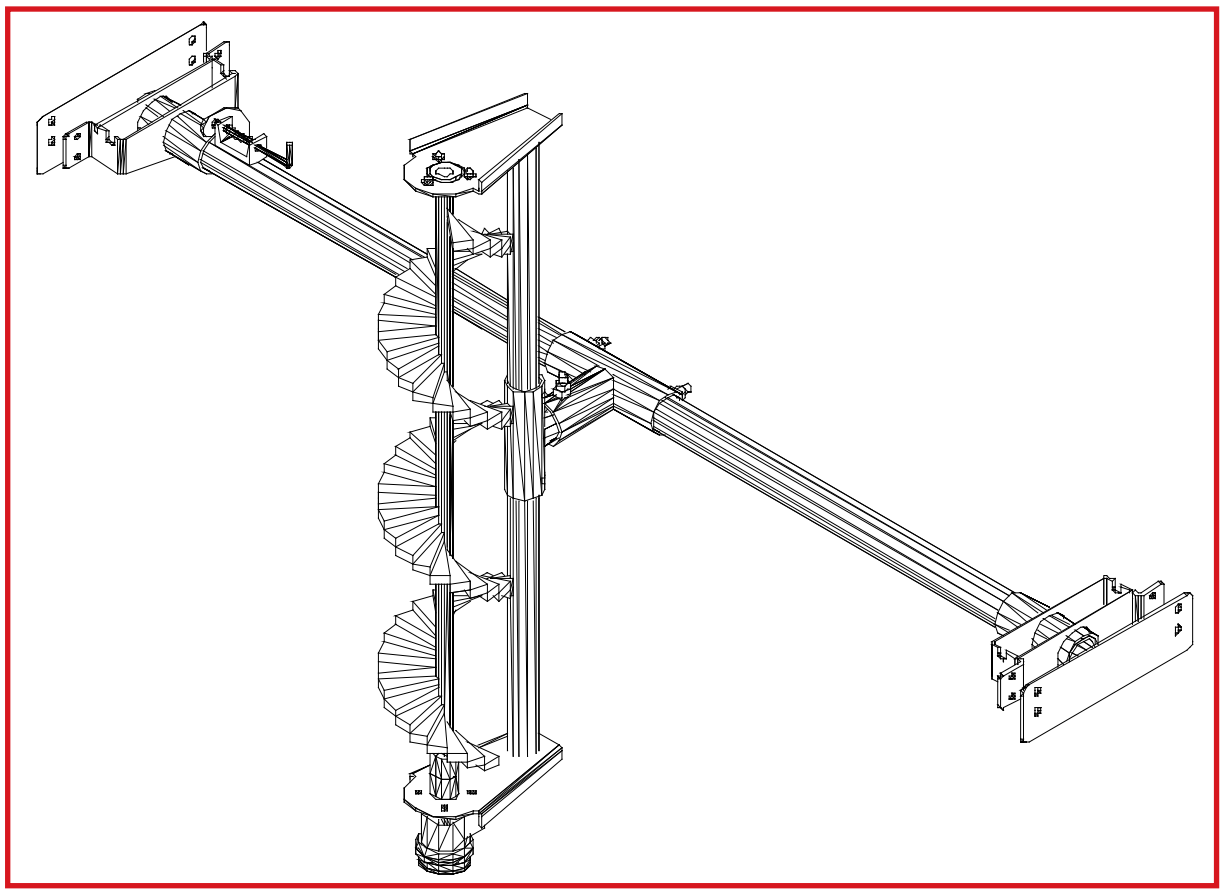


Figure 23

BIN FILL AUGER EXTENDER ASSEMBLY

WARNING:

To avoid personal injury or death:

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

9A000051 - BIN FILL AUGER EXTENDER 2010

REF. NO.	QTY	PART NO.	DESCRIPTION
1	1	5A000004	CROSS PIPE PIVOT ASSEMBLY
2	1	3A000079	16" BFA EXTENDER PIPE
3	1	1AR00000100	PLASTIC BARREL PLUG - 2.130" DIA.

Please order replacement parts by PART NO. and DESCRIPTION.

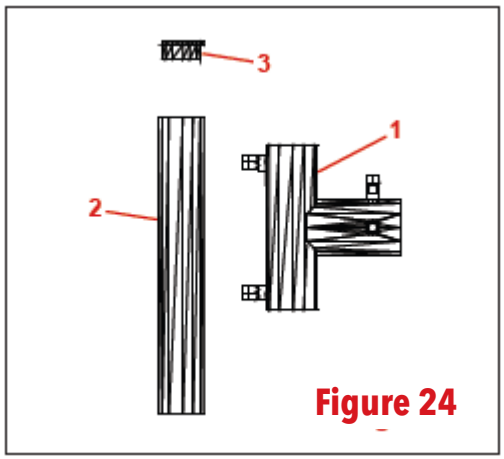


Figure 24

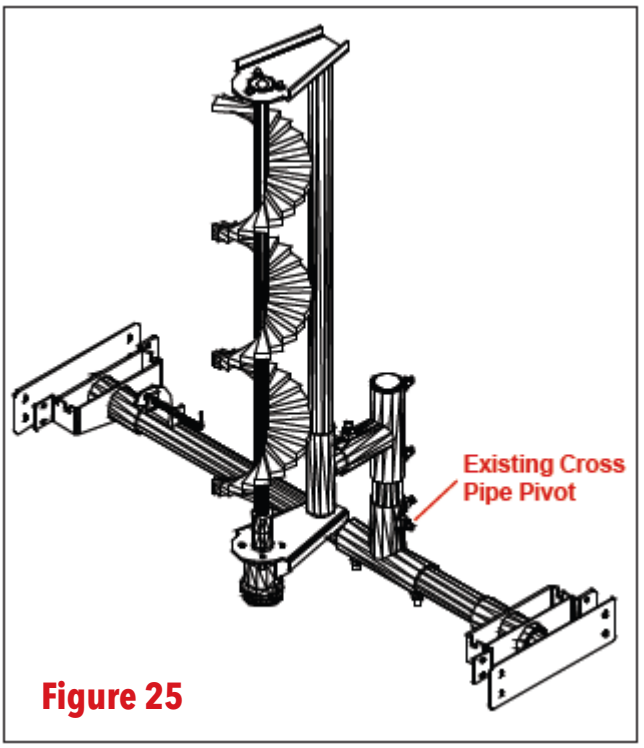


Figure 25

ASSEMBLING 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. (Figure 25)
4. Insert 16" BFA extender pipe in existing cross pipe pivot. Tighten all screws in existing cross pipe pivot.
5. Install plastic barrel plug in the top of the 16" extender pipe.
6. Slide new cross pipe assembly over 16" extender pipe. Adjust to preferred position and height. Tighten the two set screws.
7. Attach main auger assembly to new cross pipe assembly and tighten the two remaining set screws.
8. Tighten all jam nuts on the set screws to secure Bin Fill Auger and BFA Extender assemblies.

REMINDER

Set the Bin Fill Auger to the position that best suits your application. Be sure the auger does 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 BFA to rotate between the folded and the upright positions.

DEMCO

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Demco warranty policies, operator manuals, and product registration can be found online:

www.demco-products.com