PB-MIXER-TR-MECH

FORMULA MIXER

Models F585 • F700

Mechanical Truck Mount Owner / Operator's Manual & Parts Book

2018 Model Year & Later

MEYER MFG. CORP.

PRODUCT MANUALS

1 / 2020

1.0 IMPORTANT INFORMATION

The mixer serial number plate is located on the front left hand side of the mixing tub.
Please enter the model, serial number and additional information in the space provided for future reference.

Mixer Body
Serial Number

Model No. _____

Mixer Serial No. _____

Date of Purchase _____

Dealership _____

Dealership Phone No. _____

Always use your serial number when requesting information or when ordering parts.

HOW TO READ YOUR SERIAL NUMBER

MIXER

EXAMPLE: 18VM0700201

Model Year / Vertical Mixer / Model / Sequence Of Build

18 VM 0700 201

Meyer Manufacturing Corporation
674 W. Business Cty Rd A
Dorchester, WI 54425
Phone: 1-800-325-9103
Fax: 715-654-5513
Email: sales@meyermfg.com
Website: www.meyermfg.com

2.0 PRE-DELIVERY & DELIVERY CHECK LIST

Meyer Manufacturing Corporation

Phone: 715-654-5132 • Toll-Free: 1-800-325-9103 • P.O. Box 405 • Dorchester, WI 54425

This Pre-Delivery & Delivery Check List must be gone through by the Selling Party and the Customer to validate the Owner's Registration Form.

PRE-DELIVERY CHECK LIST

After the New Meyer Mixer has been completely set-up, check to be certain it is in correct running order before delivering it to the customer.

The following is a list of points to inspect:

Check off each item as you have made the proper adjustments and found the item operating satisfactorily. Any adjustments made, MUST be according to specifications defined in this manual.

- ☐ All shields and guards are in place and securely fastened.
- ☐ All PTO shields turn freely.
- ☐ All bolts and other fasteners are secure and tight.
- ☐ All mechanisms operate trouble free.
- ☐ All grease fittings have been lubricated, gear boxes filled to proper levels, and all roller chains are oiled. See "Lubrication" section of this manual.
- ☐ All decals are in place and legible.
- ☐ All stop/tail/turn lights work properly.

DELIVERY CHECK LIST

The following check list is an important reminder of valuable information that MUST be passed on to the customer at the time the unit is delivered.

Check off each item as you explain it to the customer.

- ☐ Explain to the customer that pre-delivery check list was fully completed.
- ☐ Give customer the Owner & Operator's Manual. Instruct to read and completely understand its contents BEFORE attempting to operate the mixer.
- ☐ Explain and review with customer the New Meyer mixer manufacturer's warranty.
- ☐ Show the customer where to find the serial number on the implement.
- ☐ Explain and review with the customer "Safety Precautions" section of this manual.
- ☐ Explain and review with customer the proper "Start-up and Operating Procedures" sections of this manual.
- ☐ Explain and review with customer the recommended loading and unloading procedures.
- ☐ Demonstrate the start-up and shutdown controls.
- ☐ Explain that regular lubrication and proper adjustments are required for continued proper operation and long life of the mixer. Review with the customer the "Lubrication" and "Adjustments" sections of this manual.
- ☐ Fully complete this "PRE-DELIVERY & DELIVERY CHECK LIST" with the customer.

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3.0 INTRODUCTION

Congratulations on your purchase of a new Meyer farm equipment product. Undoubtedly you have given much consideration to your purchase and we're proud that you have selected Meyer. Pride in craftsmanship, engineering and customer service have made Meyer products the finest in the farm equipment industry today.

There is no substitute for quality. That is why thousands of people like you have purchased Meyer farm equipment. They felt it was the best equipment to serve their farming needs, now and in years to come. We ask that you follow our policy of "safety first", and we strongly suggest that you read through the Operator's & Parts manual before operating your Meyer farm equipment. Meyer Manufacturing Corporation wants to thank you for not compromising quality. We are determined to offer excellence in customer service as well as provide you with the very best value for your dollar.

Sincerely,

All Employees of
MEYER MANUFACTURING CORPORATION

When the PTO is referred to, it means power takeoff from the truck.

This manual is to be used in conjunction with your truck/chassis manual.

The formula mixer may be referred to as mixer, implement, equipment or machine in this manual.

IMPORTANT: You are urged to study this manual and follow the instructions carefully. Your efforts will be repaid in better operation and service as well as a savings in time and repair expense. Failure to read this manual and understand the machine could lead to serious injury. If you do not understand instructions in this manual, contact either your dealer or Meyer Manufacturing Corp. at Dorchester, WI 54425.

WARRANTY: At the front of this manual is the Owner's Registration Form. Be sure your dealer has completed this form and promptly forwarded a copy to Meyer Manufacturing to validate the manufacturer's warranty. The product model and serial number are recorded on this form and on the inside of the front cover for proper identification of your Meyer equipment by your dealer and the manufacturer when ordering repair parts. The serial number is stamped in the front left-hand side of the mixing tub.

Manufacturer's Statement: Meyer Manufacturing Corporation reserves the right to make improvements in design, or changes in specifications at any time, without incurring any obligation to owners of units previously sold. This supersedes all previous published instructions.

FEATURES

DESCRIPTION	F585	F700
Twin Mixing Augers	STD	STD
Replaceable Scrapers	STD	STD
Hardened Knives	STD	STD
Hay Stops	STD	STD
Ladder	STD	STD
Torque Disconnect PTO's	STD	STD
2-Speed (Electric Shift)	STD	STD
Straight Drive	STD	STD
Heavy -Duty Gearboxes	STD	STD

OPTIONS

DESCRIPTION	F585	F700
Side Discharge Door Right/Left	OPT	OPT
Rear Discharge Door	OPT	OPT
Slide Tray	OPT	OPT
Magnets	OPT	OPT
Hay-Retention Ring	OPT	OPT
Capacity Belt Extension	OPT	OPT
Hardened Knives (Additional)	OPT	OPT
Tank Liner	OPT	OPT
Baffle Liner	OPT	OPT

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MEYER
FORMULA

4.0 MANUFACTURER'S WARRANTY

4/2014

MEYER FORMULA MIXER

I. The "Owner's Registration Form" must be completed in full and promptly returned to Meyer Mfg. Corp. for this warranty to become both valid and effective. All warranties on New Meyer Mixers shall apply only to the original retail customer from an authorized Meyer Mfg. Corp. dealership.

II. This warranty shall not apply to any Meyer Mixer which has been subjected to misuse, negligence, alteration, accident, incorrect operating procedures, has been used for an application not designed for or pre-authorized by Meyer in writing, has had the serial numbers altered, or which shall have been repaired with parts other than those obtained through Meyer Mfg. Corp. Meyer is not responsible for the following: Depreciation or damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow the operator's manual recommendations or normal maintenance parts and service. Meyer is not responsible for rental of replacement equipment during warranty repairs, damage to a power unit (including but not limited to a truck or tractor), loss of earnings due to equipment down time, or damage to equipment while in transit to or from the factory or dealer.

III. Meyer Mfg. Corp. warrants New Meyer Mixer to be free from defects in material and workmanship under recommended use and maintenance service, as stated in the operator's and parts manuals, as follows:

A. Meyer Mfg. Corp. will repair or replace F.O.B. Dorchester, WI, as Meyer Mfg. Corp. elects, any part of a new Meyer Mixer which is defective in material or workmanship:

i. Without charge for either parts or labor during the first (1) year from purchase date to the original retail customer.

B. In addition to the above basic warranty, Meyer Mfg. Corp. will repair or replace F.O.B. Dorchester, WI as Meyer Mfg. Corp. elects:

i. Any part of the following which is defective in material or workmanship (not neglect to recommended use and service) with a "pro-rated" charge for parts only (not labor) during the stated time period from date of purchase to the original retail customer. 1st year 100%, 2nd year 100%, 3rd year 50%, 4th year 25%, 5th year 10%

a. The Formula Mixer Planetary Gearbox. Meyer Part # 119-18-13.92-1.

IV. COMMERCIAL USE: Coverage as in paragraph III.A.i. only, except warranty coverage is for (90) days for parts and labor to the original commercial retail customer.

V. Repairs eligible for labor warranty must be made by Meyer Mfg. Corp. or an authorized Meyer dealership. The original retail customer is responsible for any service call and/or transportation of the mixer to the dealership or the factory for warranty service.

VI. Except as stated above, Meyer Mfg. Corp. shall not be liable for injuries or damages of any kind or nature, direct, consequential, or contingent, to persons or property. This warranty does not extend to loss of crop or for any other reasons.

VII. No person is authorized to give any other warranties or to assume any other obligation on Meyer Mfg. Corp.'s. behalf unless made or assumed in writing by Meyer Mfg. Corp. This warranty is the sole and exclusive warranty which is applicable in connection with the manufacture and sale of this product and Meyer Mfg. Corp.'s responsibility is limited accordingly.

Purchased Product Warranty:

This warranty does not apply to component parts not manufactured by Meyer such as but not limited to wheels, tires, tubes, PTO shafts, clutches, hydraulic cylinders, scales, etc.


MEYER
FORMULA

5.0 SAFETY

Meyer Mfg. Corp. equipment is manufactured with operator safety in mind. Located on the equipment are various safety signs to aid in operation and warn of hazardous areas. Pay close attention to all safety signs on the equipment.

Carefully follow the operating and maintenance instructions in this manual and all applicable safety laws. Failure to follow all safety procedures may result in serious injury or death.

Before attempting to operate this equipment, read and study the following safety information. In addition, make sure that every individual who operates or works with the equipment, whether family member or employee, is familiar with these safety precautions.

Meyer Mfg. Corp. provides guards for exposed moving parts for the operator's protection; however, some areas cannot be guarded or shielded in order to assure proper operation. The operator's manual and safety signs on the equipment itself warn you of hazards and must be read and observed closely!

⚠ Safety Alert Symbol

This symbol is used to call attention to instructions concerning personal safety. Be sure to observe and follow these instructions. Take time to be careful!

⚠ DANGER

The signal word DANGER on the machine and in the manual identifies a hazardous situation which, if not avoided, WILL result in death or serious injury.

⚠ WARNING

The signal word WARNING on the machine and in the manual indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

⚠ CAUTION

The signal word CAUTION on the machine and in the manual indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.

IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the machine.

Danger, Warning, Caution, and instructional decals and plates are placed on the equipment to protect anyone working on or around this equipment, as well as the components of the equipment. All personnel operating or maintaining this equipment must familiarize themselves with all Danger, Warning, Caution, and instructional decals and plates.

5.1 SAFETY PRECAUTIONS

CAUTION

All individuals who will operate this equipment must read and completely understand this Operator's And Parts Manual. Operator must have instructions before operating the machine. Untrained operators can cause injury or death.

- The truck/chassis owner's operator's manual should be used in conjunction with this manual.
- DO NOT allow anyone to operate, service, inspect or otherwise handle this equipment until all operators have read and understood all of the instructional materials in this Operator's And Parts Manual and have been properly trained in its intended usage.
- For an operator to be qualified, he or she must not use drugs or alcohol which impair alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he or she can safely operate a machine and the equipment.
- Make sure all personnel can READ and UNDERSTAND all safety signs.
- DO NOT allow minors (children) or inexperienced persons to operate this equipment.
- DO NOT operate until all shields and guards are in place and securely fastened.
- DO NOT step up on any part of the equipment that is not designated as a ladder or viewing platform at any time.
- DO NOT adjust, clean or lubricate while the equipment is in motion.
- Inspect when first delivered and regularly thereafter; that all connections and bolts are tight and secure before operating.
- Know how to stop operation of the equipment before starting it!
- Make certain everyone is clear of the equipment before applying power.
- Keep hands, feet and clothing away from moving parts. Loose or floppy clothing should not be worn by the operator.
- Observe all applicable traffic laws when transporting on public roadways (where legal to do so). Check local laws for all highway lighting and marking requirements.
- Shut off and lock out power before adjusting, servicing, maintaining or clearing an obstruction from this machine. (See 5.3 SHUTOFF & LOCKOUT POWER on page 20.)
- Always enter curves or drive up or down hills at a low speed and at a gradual steering angle.
- Never allow riders on either truck or equipment.
- Keep truck in a lower gear at all times when traveling down steep grades.
- Stay away from overhead power lines. Electrocution can occur without direct contact.
- Use only properly rated undercarriage and tires.

Safety Precautions For Truck Mounted Units:

- Comply with state and local laws governing highway safety and movement of machinery on roadways.

Safety Precautions For Hydraulic System:

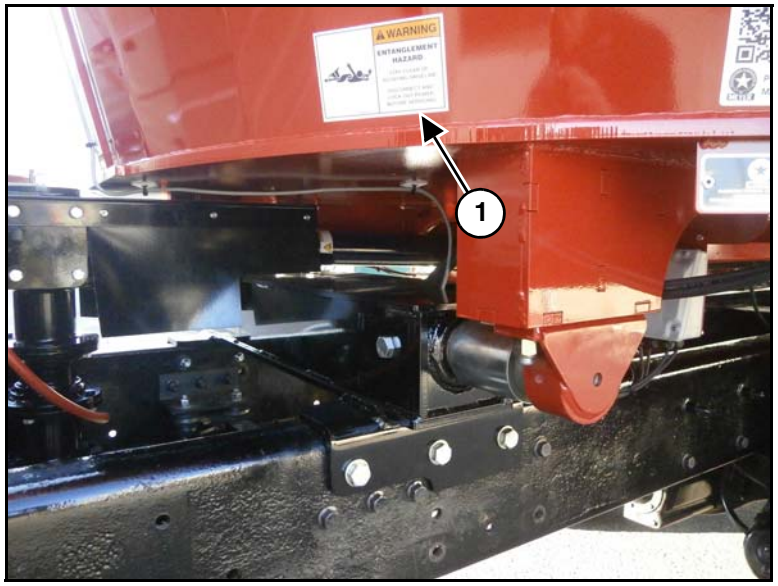
- Check hydraulic tubes, hoses and fittings for damage and leakage. Never use hands to check for leaks. Hydraulic tubes and hoses must be properly routed and have adequate support and secure clamps. Tighten or replace any parts that show leakage.
- Always clean fluid spills. Do not use gasoline or diesel fuel for cleaning parts. Use commercial nonflammable solvents.

5.2 SAFETY SIGNS

CAUTION

Read all safety signs on the equipment and in this manual. Keep all safety signs clean and replace any damaged or missing safety signs before operating the equipment. Do Not remove any safety signs. Safety signs are for operator protection and information.

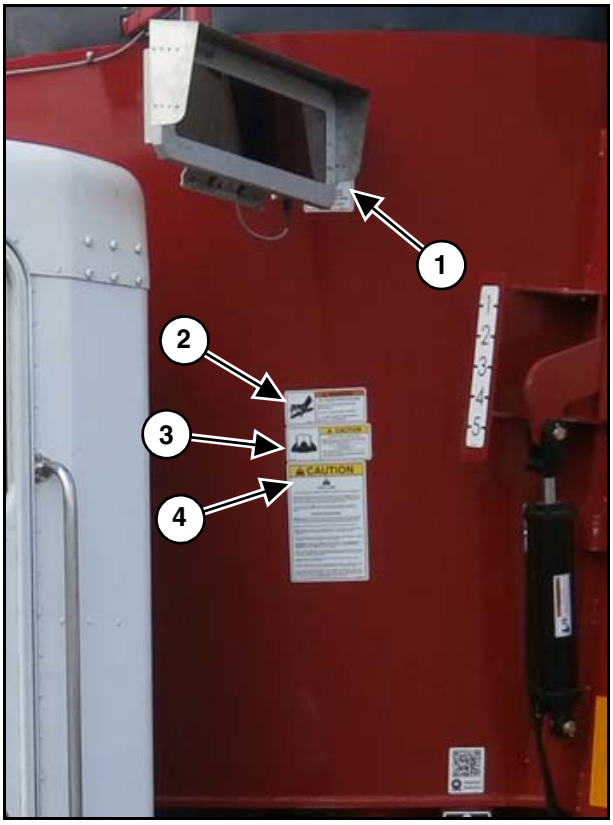
FRONT OF MIXER



1

PART NO. 46-0001-211

FRONT OF MIXER



1

PART NO. 46-0001-213

2

PART NO. 46-8500-7

3

PART NO. 46-0001-35

4

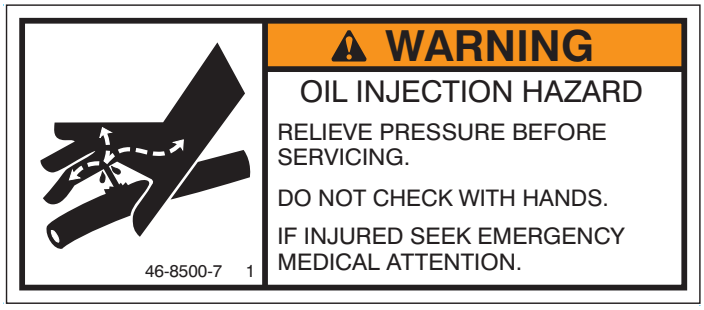
PART NO. 46-0001-22

REAR OF MIXER

1

PART NO. 46-0001-210

2



PART NO. 46-8500-7

3

PART NO. 46-0001-213

4

PART NO. 46-0001-208

UNDER MIXER

1

PART NO. 46-0001-211
(Located under mixing tub)

PART NO. 46-0001-212
(Located under mixer belting)

5.3 SHUTOFF & LOCKOUT POWER

⚠ CAUTION

Any individual that will be adjusting, servicing, maintaining, or clearing an obstruction from this machine needs to ensure that this machine stays safely "OFF" until the adjustment, service, or maintenance has been completed, or when the obstruction has been cleared, and that all guards, shields, and covers have been restored to their original position. The safety of all individuals working on or around this machine, including family members, are affected. The following procedure will be referred to throughout this manual, so be familiar with the following steps.

5.3.1 Shutoff & Lockout Power Recommendations

1. **Think, Plan and Check**

   a. **Think** through the entire procedure and identify all the steps that are required.

   b. **Plan** what personnel will be involved, what needs to be shut down, what guards / shields need to be removed, and how the equipment will be restarted.

   c. **Check** the machine over to verify all power sources and stored energy have been identified including engines, hydraulic and pneumatic systems, springs and accumulators, and suspended loads.

2. **Communicate -** Let everyone involved, including those working on or around this machine, that work is being done which involves keeping this machine safely "OFF".

3. **Power Sources**

   a. **LOCKOUT -** Shut off engines and take the key, or physically lock the start/on switch or control. Disconnect any power sources which are meant to be disconnected (i.e. electrical, hydraulic, and PTO of pull-type units).

   b. **TAGOUT -** Place a tag on the machine noting the reason for the power source being tagged out and what work is being done. This is particularly important if the power source is not within your sight and/or will need to be isolated for a longer period of time.

4. **Stored Energy -** Neutralize all stored energy from its power source. Ensure that this machine is level, set the parking brake, and chock the wheels. Disconnect electricity, block moveable parts, release or block spring energy, release pressure from hydraulic and pneumatic lines, and lower suspended parts to a resting position.

5. **Test -** Do a complete test and personally double check all of the above steps to verify that all of the power sources are actually disconnected and locked out.

6. **Restore Power -** When the work has been completed, follow the same basic procedures, ensuring that all individuals working on or around this machine are safely clear of the machine before locks and tags are removed and power is restored.

It is important that everyone who works on this equipment is properly trained to help ensure that they are familiar with this procedure and that they follow the steps outlined above. THIS MANUAL WILL REMIND YOU WHEN TO SHUTOFF & LOCKOUT POWER.

6.0 PRE-OPERATION

CAUTION

DO NOT allow anyone to operate, service, inspect or otherwise handle this equipment until all operators have read and understand all of the instructional materials in this Operator's And Parts Manual and have been properly trained in its intended usage.

Verify that the equipment is securely fastened to the truck.

Verify that all electrical / hydraulic connections and bolts / hardware are tight and securely fastened before operating the equipment.

Always keep all shields and guards in place and securely fastened.

Keep hands, feet and clothing away.

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- **When fluids are under pressure.**
- **Flying debris or loose material is present.**
- **Tools are being used.**

Failure to heed may result in serious personal injury or death.

6.1 STATIC INSPECTION

WARNING

Hydraulic fluid escaping under pressure can have sufficient force to cause injury. Keep all hoses and connections in good serviceable condition. Failure to heed could result in serious personal injury or death.

Keep all electrical cords and cables in good serviceable condition. Failure to heed could result in serious personal injury or death.

IMPORTANT

Check that all gear cases and oil bath enclosures contain oil and that bearings and joints have been greased. (See maintenance section).

Before operating the mixer for the first time and each time thereafter, check the following items:

1. Check that all safety signs are in good and legible condition.
2. Inspect the mixer for proper adjustments. (See 8.2 ADJUSTMENTS)
3. Lubricate the equipment. (See 8.1 LUBRICATION)
4. Make sure that all guards and shields are in place, secured and functioning as designed.
5. Check condition of all hydraulic components for leaks and electrical cords and cables for wear. Repair or replace as required.
6. Check the hydraulic and gear box oil level. (See 8.1 LUBRICATION)
7. Check for and remove any foreign objects in the mixing chamber and discharge opening.
8. Be sure that there are no tools laying on or in the mixer.
9. Verify that all electrical and hydraulic connections are tight and secure before operating.

10. Check that all hardware is in place and is tight.
11. Watch for any worn or cracked welds. If found, have qualified personnel repair immediately or replacement is necessary.
12. Check all bearings for wear. Replace as needed.
13. Inspect any wear items. i.e.: Knives, scrapers, kicker wear plate. Replace as required.

6.2 TRUCK MOUNT SPECIFICATIONS

See the truck mount specifications on the www.meyermfg.com website.

6.3 PTO DRIVELINE

Shutoff and lockout power before performing machine service, adjusting, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

Do not operate without PTO guard on implement. Maintain PTO drive shaft guard tubes in good operating condition. Replace them if damaged and not turning freely. Failure to heed may result in serious personal injury or death.

6.4 START-UP AND SHUT-DOWN

DO NOT allow anyone to operate, service, inspect or otherwise handle this equipment until all operators have read and understand all of the instructional materials in this Operator's And Parts Manual and have been properly trained in its intended usage.

Before operating the equipment, look in all directions and make sure no bystanders, especially small children are in the work area.

Shutoff and lockout power before performing machine service, adjusting, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

Always keep all shields and guards in place and securely fastened.

Keep hands, feet and clothing away.

6.4.1 Start-Up

Enter the truck and start the engine.

Be sure no one is inside the mixer and mixer is empty.

Check to see that the discharge door is closed.

Verify the two speed gearbox is engaged in low gear.

Slowly engage the PTO at idle speed.

Bring engine RPM up to 3/4 to full RPM.

6.4.2 Shut-Down

Disengage the PTO.

Fully lower all doors.

Raise slide trays or conveyors, if equipped.

Park the mixer on a flat, level surface.

Engage the parking brake, stop the engine and exit the truck.

Check drive components to be sure components are not abnormally hot.

6.5 OPERATIONAL CHECKS

CAUTION

Shutoff and lockout power before performing machine service, adjusting, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

DO NOT allow anyone to operate, service, inspect or otherwise handle this mixer until all operators have read and understand all of the instructional materials in this Operator's And Parts Manual and have been properly trained in its intended usage.

Before operating the mixer, look in all directions and make sure no bystanders, especially small children are in the work area.

WARNING

Always keep all shields and guards in place and securely fastened. Keep hands, feet and clothing away.

Hydraulic fluid escaping under pressure can have sufficient force to cause injury. Keep all hoses and connections in good serviceable condition. Failure to heed could result in serious personal injury or death.

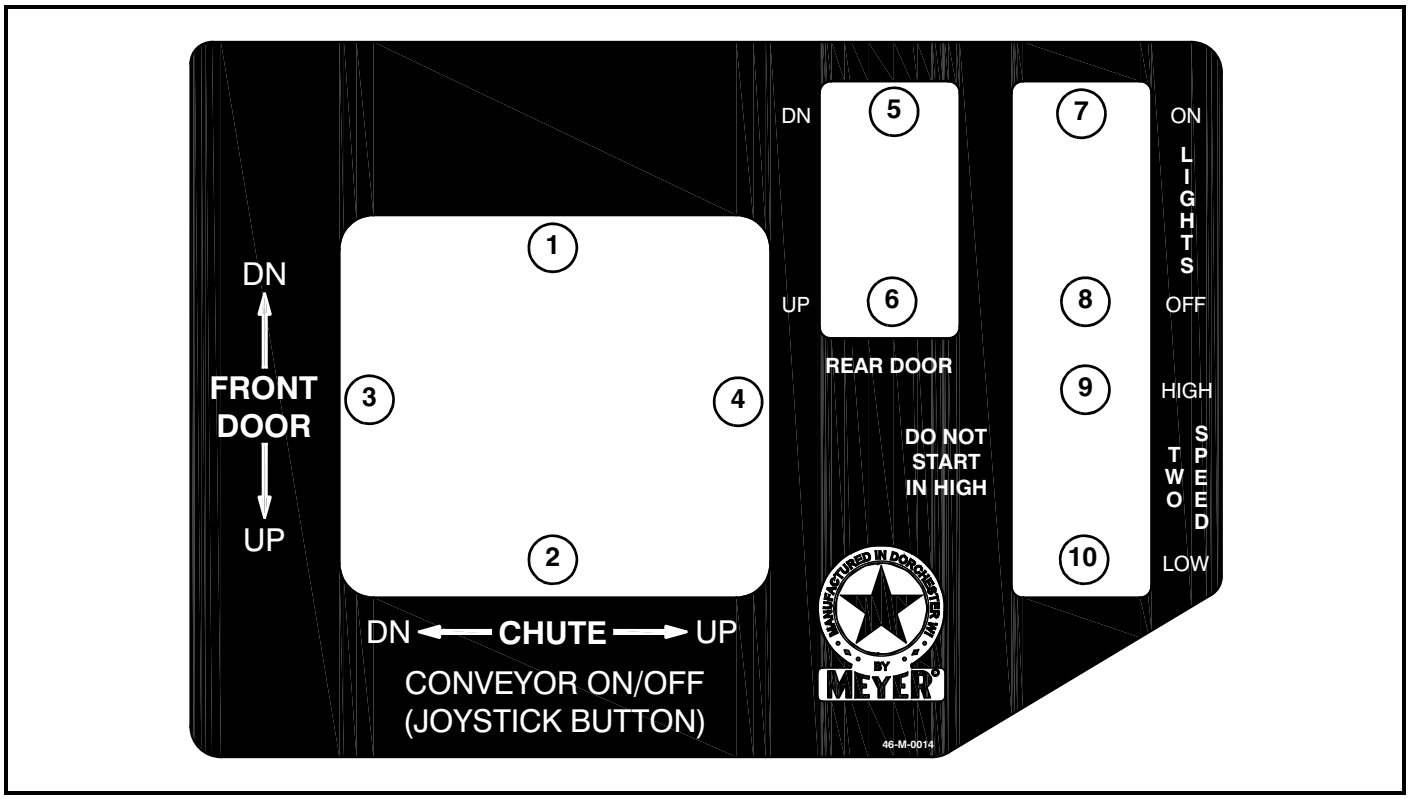
Before running material through the mixer for the first time and each time thereafter, follow the steps listed below.

1. Follow the Start-Up procedure section 6.4.1.
2. Raise and lower the door several times.
3. Lower and raise mixer slide trays or conveyors, if equipped.
4. Operate the mixer augers for approximately 5-10 minutes.
5. Follow the Shut-Down procedure section 6.4.2.
6. Check drive components to be sure components are not abnormally hot.
7. Check all hydraulic components for leaks.
8. Adjust and lubricate equipment as needed. (See 8.1 LUBRICATION) & (See 8.2 ADJUSTMENTS).

6.5.1 Controls

The controls for the mixer are located in the cab of the truck next to the driver seat. The joystick controls the front door, chute (Optional), and conveyor (Optional). Push the joystick forward (Item 1) closes the front door. Pull the joystick back (Item 2) raises the front door. Move the joystick to the left (Item 3) lowers the chute. Move the joystick to the right (Item 4) raises the chute. The button on the joystick turns the conveyor on and off. Toggling the rear door momentary switch forward (Item 5) lowers the rear door. Toggling the rear door momentary switch back (Item 6) raises the rear door. The light switch selected forward (Item 7) turns the lights on and selected back (Item 8) turns the lights off. The two speed switch selected forward (Item 9) shifts the gearbox to high and selected back (Item 10) shifts the gearbox to low.

NOTE: The mixer PTO MUST be stopped before shifting the 2-speed gearbox to prevent damage to the gearbox.



6.6 TRANSPORTING

CAUTION

AVOID SERIOUS INJURY OR DEATH

- **Read and understand owner's manual before using. Review safety precautions annually.**
- **Before operating the mixer, look in all directions and make sure no bystanders, especially small children are in the work area.**
- **No riders allowed when transporting.**
- **Do not drink and drive.**
- **Before moving, be sure required lights and reflectors are installed and working.**
- **Shutoff and lockout power before performing machine service, adjusting, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.**
- **Place safety stands under frame and chock wheels before working on tires or chassis.**
- **Maintain wheel bolts at torque as recommended in the manual.**
- **If equipped with brakes, maintain proper adjustment.**

WARNING

To Prevent Serious Injury Or Death

- **Shift to lower gear before going down steep grades.**
- **Avoid traveling on slopes or hills that are unsafe.**
- **Keep vehicle in gear at all times.**
- **Never exceed a safe travel speed (which may be less than 20 MPH.).**
- **Check that the braking and lighting systems are in good condition. Be sure that the truck has adequate brakes to stop the loaded mixer.**

IMPORTANT

If you will travel on public roads and it is legal to do so, you must know all rules governing such operation. This will include lighting and brake requirements in addition to traffic rules.

NOTE: For Truck Mounted models, an Optional Highway Lighting Package is available to assist in meeting these requirements. See your Meyer Dealer for Details.

6.6.1 Brake Information

Check that the braking and lighting systems are in good condition. Be sure that the truck has adequate brakes to stop the mixer.

See your truck/chassis manual for brake and braking Information.

6.7 OPTIONAL EQUIPMENT

6.7.1 Digital Scale Indicator

Refer to scale indicator (Item 1) manufacturer's operator manual for operation and maintenance.

NOTE: Some scale drift may occur after the scale is turned on but should level out within 10 to 15 minutes. Temperature changes may also cause some drifting.

See your Digi-Star manual for additional scale information.

7.0 OPERATION

CAUTION

DO NOT allow anyone to operate, service, inspect or otherwise handle this mixer until all operators have read and understand all of the instructional materials in this Operator's And Parts Manual and have been properly trained in its intended usage.

Before operating the mixer, look in all directions and make sure no bystanders, especially small children are in the work area.

Do not climb or step onto the platform or ladder before the parking brake has been applied.

Turn on level ground. Slow down when turning.

Go up and down slopes, not across them.

Keep the heavy end of the machine uphill.

Do not overload the machine.

Check for adequate traction.

7.1 GENERAL

The mixer is designed for blending dairy and beef rations. The mixer performance can vary according to the difference in material, loading sequence, mixing speed and unloading methods. The following guidelines should be understood before operating the mixer.

A new mixer will need an initial run-in period to polish the augers and mixer sides to achieve correct material movement inside the mixer. Until the unit is polished inside the user may experience material spillage, dead spots, or increased horsepower requirements. The load size may need to be reduced until the unit is polished inside.

IMPORTANT

Always operate at the rated PTO speed but DO NOT EXCEED THE RATED PTO SPEED. If the mixer is operated faster than the rated PTO speed the strain on the drive train and mixer is greatly increased.

IMPORTANT

Do not force hay into the auger with loader or any other device.

IMPORTANT

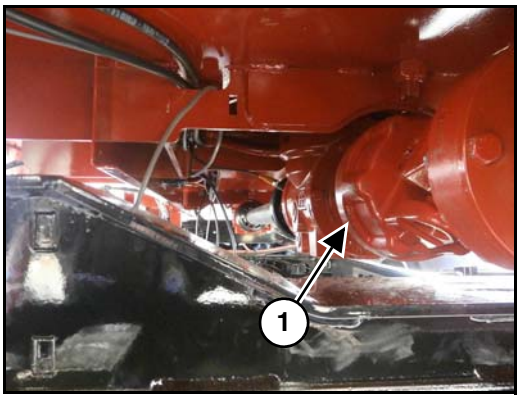
Be aware of the overall size of the mixer to allow clearance through doorways.

IMPORTANT

If any component fails, shut off all power to the mixer and move the mixer to a safe work area. Repair or replace damaged components before proceeding with unloading of the mix.

7.1.1 Cutout Clutch

The clutch is designed to limit the amount of torque transferred to the machine through the driveline. If excessive torque is developed the clutch will disengage. A loud ratcheting sound will be heard and the transfer of power to the machine will be disrupted. This may occur when mixing or unloading a heavy mix or if an obstruction has lodged within the mixer. This is to protect the driveline from damage. Remove obstruction or reduce load weight. To re-engage the machine, simply shut down the PTO and allow the driveline to come to a stop. The PTO can then be re-engaged to restart the mixer. The cutout clutch will either re-engage upon shut down of the PTO or just before it comes to a complete stop.



7.1.2 Material

⚠ WARNING

Never hand feed material into mixer while it is running. Augers may cut or grab hands, clothing, or material being loaded, causing severe injury. Always stop the engine before hand loading materials.

Some feed materials will need to be processed alone in the mixer before they can be efficiently mixed with other feed materials.

- Large square or round bales of alfalfa
- Large square or round bales of high moisture content
- Large square or round bales of long mixed grasses, wheat or oat hay and crop residue bales (straw or soybean stubble)
- Very light and bulky feed material

NOTE: Always remove any twine, net, or plastic wrap from bales before loading into mixer.

NOTE: It is highly recommended that after loading the mixer, the process continues until the material is fully unloaded.

7.2 LOADING

DANGER

DO NOT ENTER MIXER CHAMBER WHILE MIXER IS RUNNING! Shutoff and lockout power before performing machine service, adjusting, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

WARNING

Be aware of power lines and other overhead obstructions when loading with a telescopic arm or loader. Failure to obey warnings could cause serious injury or death.

CAUTION

Comply with the safety instructions stipulated in the User Manuals for the operation / handling equipment used for loading the mixer.

Shutoff and lockout power before performing machine service, adjusting, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

Do not climb or step onto the platform or ladder before the parking brake has been applied.

IMPORTANT

Overloading may cause failure of axles, tires, structural members, hitches, loss of vehicle control. DO NOT exceed maximum gross weight. (See your truck/chassis manual for details.)

NOTE: Overloading can have detrimental effects on the integrity of the implement and it's safe use. Overloading will void warranty and increase risk to the operator's safety. Always be aware of your gross weight.

MAXIMUM FORMULA MIXER GROSS WEIGHT	
MODEL	LBS
F585	80,000
F700	80,000

MATERIAL ESTIMATED WEIGHT PER CUBIC FOOT	
MATERIAL	LBS / CU.FT.
Soybeans	47 lbs.
Cotton Seed (Dry)	20 lbs.
Corn (Shelled)	45 lbs.
Corn Silage	30 lbs.
Haylage	20 lbs.

When loading material into the mixer with an end-loader, dump the material into the center of the mixer.

1. Set hay stops according to the instructions in this manual.
2. Follow start up procedure. Refer to 6.4.1 Start-Up.
3. Load baled hay into the center of the mixer.
4. Allow mixer enough time to process the bale before adding other ingredients (4-10 minutes).

NOTE: Processing of long stem forages will continue as other materials are added and mixed. Be careful not to over process these materials before adding other ingredients.

NOTE: Using the mixer two speed shiftable gearbox, roughages can be processed in "Low" or "High" depending on how fast the bale needs to be processed.

CAUTION

When loading from a raised bay or platform, adopt the necessary measures (safety rails, etc.) to avoid people or equipment from falling into the machine.

7.2.1 Loading Steps

NOTE: The loading sequence could vary.

The following is an example of a typical loading sequence:

1. Load and process long stemmed materials.
2. Load haylage and corn silage.
3. Load minerals, proteins, and other small quantity ingredients.
4. Load grains, wet and dry commodities, etc.
5. Load all liquid fats, water, other liquids. Always load liquids at the center of the mixing chamber.

IMPORTANT

Load all ingredients as quickly as possible. Allow a final mix time of 3-7 minutes, or whenever the load looks consistently mixed.

IMPORTANT

Never load long stem bales last. They will not be processed or mixed into the ration and may cause unloading difficulties or spillage.

7.3 MIXING

Normal mixing speed is 1350 to 1800 RPM engine speed. Time available to mix, thoroughness of the mix, and ingredients are all factors that must be considered when deciding on when and how fast to operate the mixer.

DANGER

DO NOT ENTER MIXER CHAMBER WHILE MIXER IS RUNNING! Shutoff and lockout power before performing machine service, adjusting, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

IMPORTANT

Always operate at the rated PTO speed but DO NOT EXCEED THE RATED PTO SPEED. If the mixer is operated faster than the rated PTO speed the strain on the drive train and mixer is greatly increased.

IMPORTANT

Do not force hay into the auger with loader or any other device.

7.4 UNLOADING

Shutoff and lockout power before performing machine service, adjusting, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

DO NOT ENTER MIXER CHAMBER WHILE MIXER IS RUNNING! Shutoff and lockout power before performing machine service, adjusting, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

NOTE: Unload the mixed ration within a short time of mixing. A fully loaded mixer which is bounced over rough terrain or allowed to settle will require more horsepower during start-up.

1. Move the mixer to the unloading area.
2. Lower slide tray (if equipped).
3. Set the truck engine to operate at approximately 1/2 to full rated PTO speed.
4. Open discharge door slowly to adjust the amount of material to be discharged. Adjust door height or conveyor speed for desired flow of feed.
5. After the load begins to discharge, increase the truck RPM to full rated PTO speed to ensure fast and thorough clean out while driving forward along the discharge path.

NOTE: The mixer PTO MUST be stopped before shifting the 2-speed gearbox to prevent damage to the gearbox.

6. The 2-speed gearbox can be shifted into “HIGH” during the unloading process. Stop the PTO prior to shifting. This will help remove any feed remaining on the augers and assist in keeping an even feed flow until the mixer is empty.

NOTE: For Truck Mounted Models, do not operate above the rated 1800 RPM engine speed.

7. When finished unloading, follow shut down procedure 6.4.2 Shut-Down.

7.5 MIXER TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE SOLUTIONS
Forage is cut too short	• Reduce the initial processing time. • Adjust hay stops to a less aggressive or neutral position. (See Section 8.2.5) • Reduce total loading time. • Reduce the mixer RPM to limit aggressiveness in processing. • Modify the knife type, quantity, setting or placement. (See Section 8.2.4) • Shift into “Low”.
Spillage is Occurring	• Reduce load size. • Reduce truck and/or mixer RPM. • Make sure machine is level. • The load size may need to be reduced until the unit is polished inside. • Adjust hay stops to a less aggressive or neutral position. (See Section 8.2.5) • Adjust knives to a less aggressive position. (See Section 8.2.4) • If spillage still occurs, the optional side extensions or hay retention ring may need to be installed.
Requiring High Horsepower	• Reduce load size. • Adjust hay stops to a less aggressive or neutral position. (See Section 8.2.5) • The load size may need to be reduced until the unit is polished inside. • Modify the knife type, quantity, setting, or placement. (See Section 8.2.4) • Shift into “Low”.
Dead Spots	• The load size may need to be reduced until the unit is polished inside. • The auger scraper may need to be adjusted. (See Section 8.2.1)
Digital Scale Indicator	• Refer to scale manufacturer’s operator manual for operation and maintenance. • See Section 6.7.1

8.0 MAINTENANCE

8.1 LUBRICATION

CAUTION

Shutoff and lockout power before performing machine service, adjusting, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

IMPORTANT

Fluid such as hydraulic fluid, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

NOTE: When welding do not allow electrical current to flow through bearings, roller chains, or scale weigh bars. Ground the welder directly to the part being welded. Always disconnect the power cord from scale indicator before welding.

NOTE: Use a grease type that is composed of a high quality lithium complex or better, unless otherwise stated. We recommend using a #1 grade in colder temperatures or a #2 grade in warmer temperatures.

NOTE: Over lubrication is a major cause of bearing failures. Please relubricate conservatively when unsure of bearing requirements.

8.1.1 Daily or every 8-10 loads:

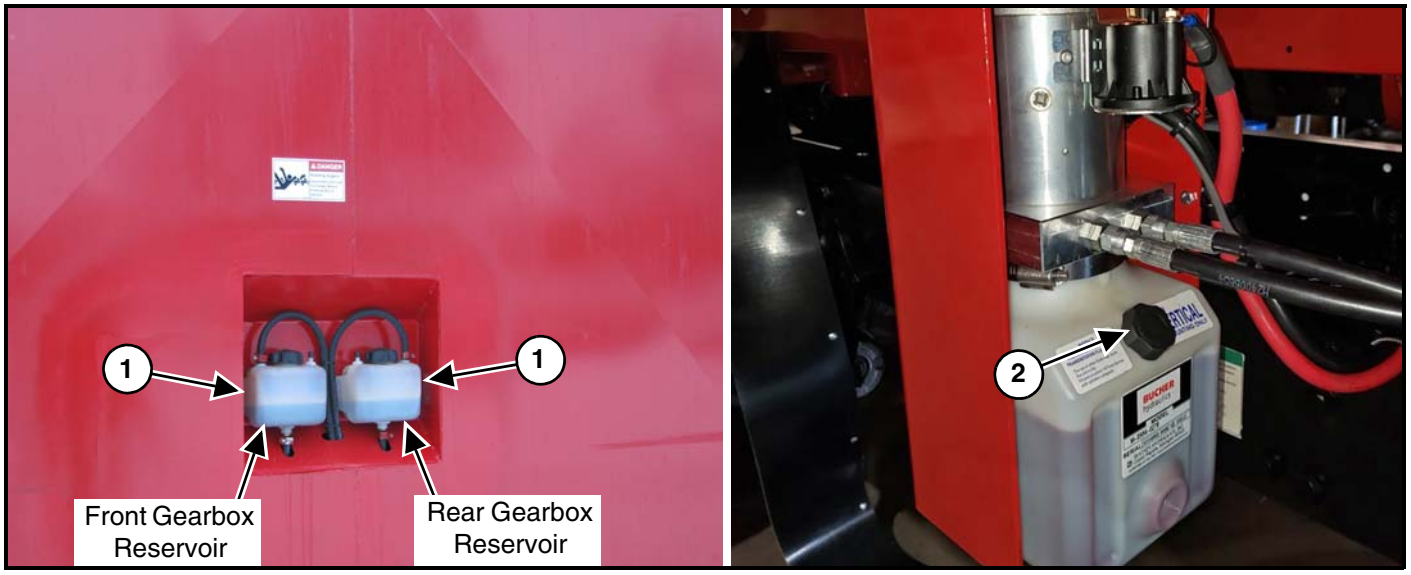
NOTE: See Specifications, Page 37 for proper oil type and capacities.

Check the planetary gearbox oil levels daily to prevent abnormal component wear. Add new oil to the reservoir tank (Item 1) if the oil level is not at the oil reservoir mark.

Check the 2-speed gearbox oil level daily to prevent abnormal component wear. Add new oil to the 2-speed gearbox if the oil level is not halfway up the sight glass.

Check the remote hydraulic power unit oil level. With all cylinders collapsed, fill within 1/2” of the oil reservoir fill cap (Item 2).

If oil levels are low, refer to section 6.5 and check for leaks.

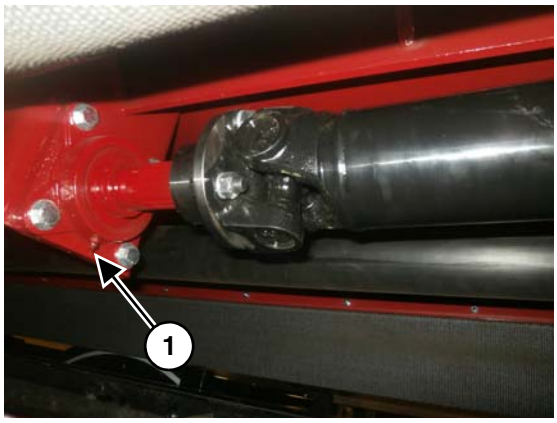


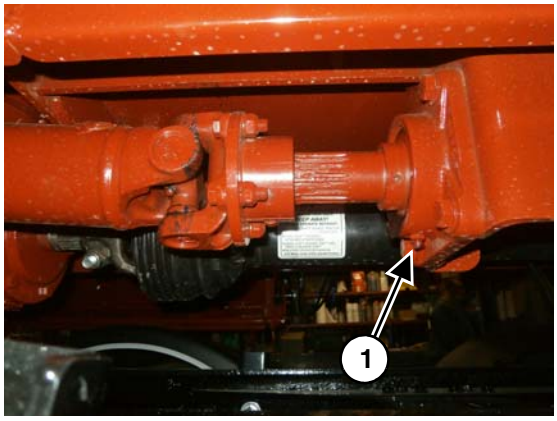
8.1.2 Monthly:

Driveline

NOTE: Shielding has been removed for illustration purposes only.

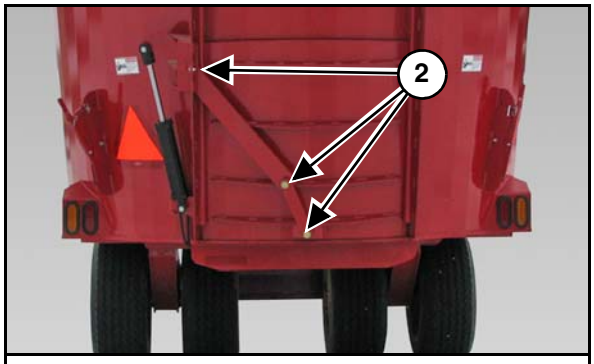
Grease all driveline bearings (Item 1).





8.1.3 Every 40 hours:

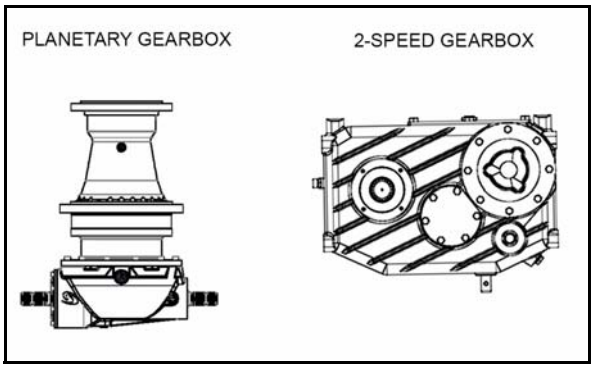
Oil Door Pivots (Item 2).



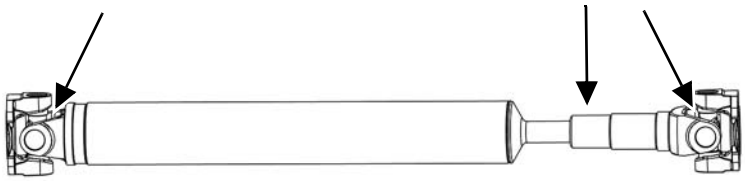
Rear Discharge Door

8.1.4 50 hours:

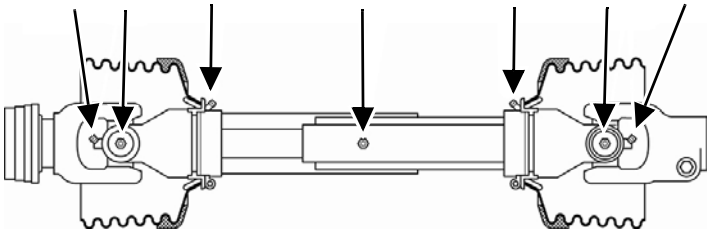
First oil change in the planetaries, 2-speed gearbox and front gearboxes. (See pages 37 & 38).



Grease all PTO driveline zerks.

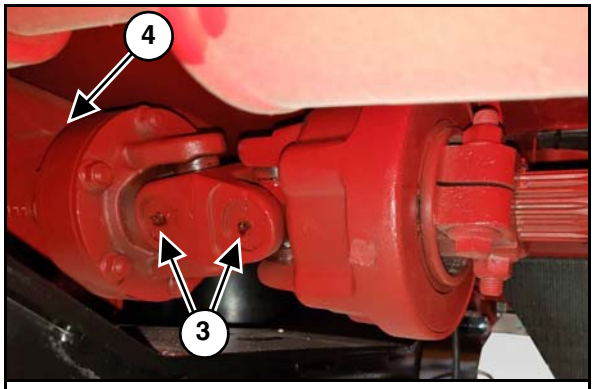


All Automotive Drivelines



118-VM-0014-55

Grease all universal joints (Item 3) and the slide (Item 4).



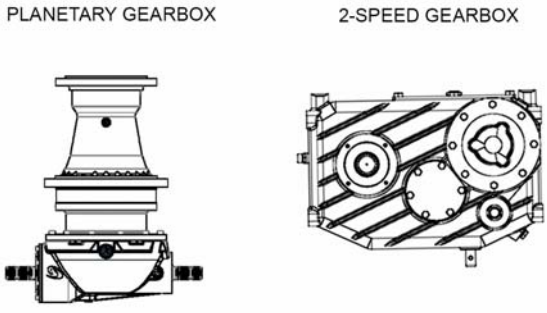
Double Universal Joint

8.1.5 Annually or Every 500 hours (Whichever Is First):

Change oil in the 2-speed gearbox. (See page 38)

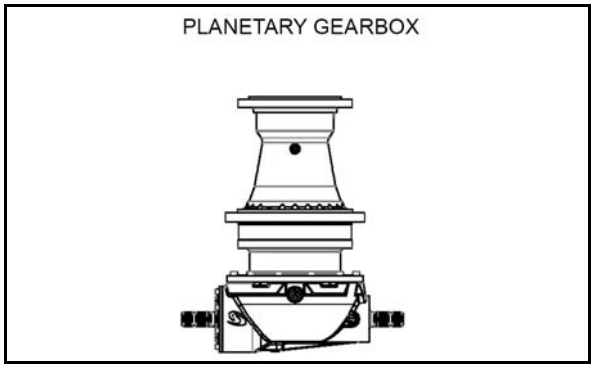
Check condition of the external seals and make sure there are no leaks on planetaries.

Change oil in both Superior & Benzi version front driveline gearboxes.



8.1.6 Annually or Every 2000 hours (Whichever Is First):

Change oil in the planetaries. (See page 37).



8.1.7 Every 5000 hours

Replace all planetary bearings.

Change external planetary O-rings.

Check the extent of wear on all planetary gears.

8.1.8 Gearbox Oil Change

CAUTION

Shutoff and lockout power before performing machine service, adjusting, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

IMPORTANT

Fluid such as hydraulic fluid, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

NOTE:

- In order to avoid sludge deposits, change the oil while the gear unit is still warm.
- For an effective oil change, the unit should be flushed with a liquid detergent recommended by the lubricant supplier.
- The mixer should be level when changing gearbox oil.

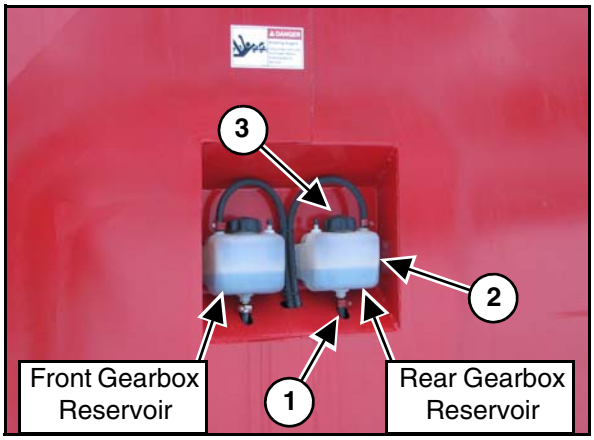
8.1.8.1 Planetary Gearbox

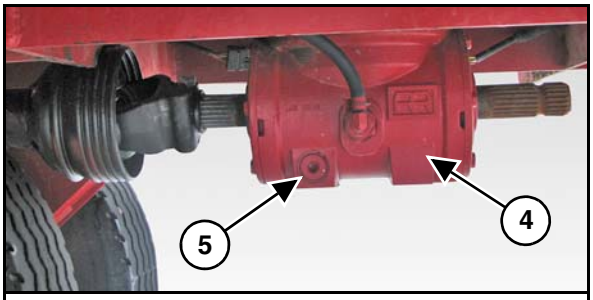
Draining

Place a container of sufficient capacity under the gearbox (Item 4).

Drain the planetary by removing the drain plug (Item 5).

Rinse the bottom hose with clean oil to remove any metal particles or trapped water. After the unit is completely drained, reinstall the drain plug.





Planetary

Filling

Filling with an oil pump:

(Call the factory to purchase an oil pump kit, Part #: VA-OP.)

Loosen the hose clamp and detach the lower hose (Item 1) on the reservoir (Item 2). Unbolt reservoir and lay so the top hose and reservoir is below the hose used for filling (Item 1).

Connect oil pump to lower hose and fill with oil until the catch basin fills with approximately 2 quarts of oil. Discard this oil if it is dirty. Reattach the lower hose (Item 1) with the hose clamp. Bolt the reservoir back in place. Fill the reservoir to the oil level mark and reinstall the cap (Item 3).

Inspect the reservoirs breather, make sure it is not plugged, and check for leaks.

PLANETARY LUBRICATION SPECIFICATIONS				
Model	**Part Number**	**Description**	**Oil Type**	**Capacity (Including Reservoir Tank)**
585 / 700	119-18-13.92-1	1800 Planetary 13.92:1	Synthetic ISO 220 Or Equivalent	Approx. 20.5 Quarts

8.1.8.2 2-Speed Gearbox

Draining

Place a container of sufficient capacity under the gearbox.

Drain the unit by removing the plug from the bottom of the gearbox (behind the actuator plate). After the unit is completely drained, reinstall the plug.

Filling

Remove breather and fill with oil until the oil is halfway up the sight glass. See table below for proper oil type and capacity.

Replace the breather.

IMPORTANT

Check the gearbox oil levels regularly to prevent abnormal component wear. Add oil to the gearbox if oil level is not halfway up the sight glass.

2-SPEED GEARBOX LUBRICATION SPECIFICATIONS				
Model	**Part Number**	**Description**	**Oil Type**	**Capacity**
585 / 700	119-2SP-1.8-2.7-3	1.8:1 / 2.7:1	Synthetic ISO 220 Or Equivalent	Approx. 14.25 Quarts

8.1.8.3 Superior & Benzi Front Driveline Gearbox

Run mixer to warm gearbox oil.

Remove belting.

Disconnect drive shafts.

Left PTO Drive: U-joint will slide off gearbox shaft while removing lower gearbox.

Right PTO Drive: Remove chain coupler between both gearboxes.

Unbolt bottom gearbox and remove.

Unbolt upper gearbox support.

8.2 ADJUSTMENTS

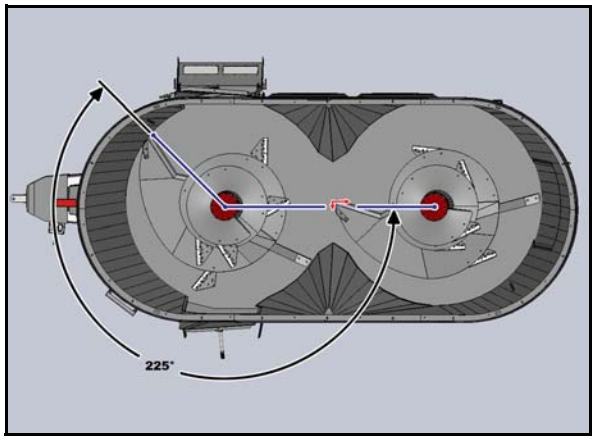
CAUTION

Shutoff and lockout power before performing machine service, adjusting, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

If work must be done inside the mixer put a protective cover over the auger knives to avoid injury. The hopper and flighting may be slippery. Use caution when stepping on or standing inside the mixer.

8.2.1 Auger Scraper Bar

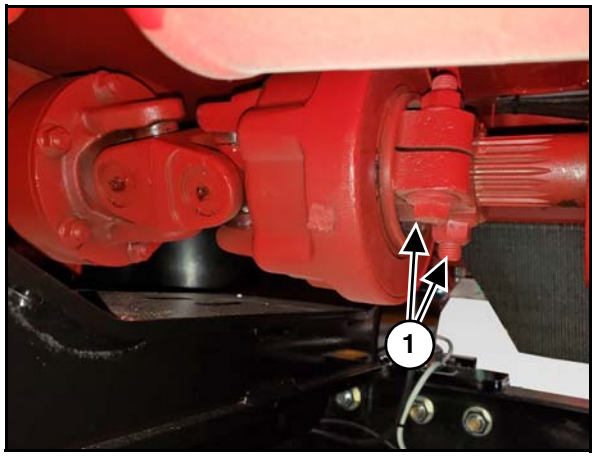
Check the auger scraper monthly for proper clearance with the side panel. Clearance should not exceed 1/2". If gap exceeds 1/2", the scraper should be adjusted to 1/8" clearance.



8.2.2 Auger Timing

Auger timing is critical. Whenever disconnecting the PTO connecting the two planetaries, it is critical that the front leading edge be 225° from the rear leading edge when the rear leading edge is pointing to the front auger.

8.2.3 PTO Cutout Clutch Connection



The cutout clutch end of the PTO driveline must always be attached to the implement. The PTO driveline is equipped with a 1-3/4 x 20 spline on the implement half for attaching to the mixer. Remove the M16-hexagon bolt from the splined hub and slide the PTO onto the implement splined input shaft. Install the hexagon bolt (Item 1) through the hub being sure the bolt is falling into the groove on the splined shaft. Torque tight using a metric size M16 6-point socket and torque down to 75 ft. lbs. A M16 6-POINT METRIC SOCKET MUST BE USED AS ROUNDING OF HEXAGON BOLT AND INACCURACY OF TORQUE SETTINGS COULD OCCUR.

If removal of the M-16 hexagon bolt is necessary, use the same M-16 6-point socket and loosen bolt 1/2 turn. Insert a 1/4" drift punch in the hole on the opposite side of the hexagon bolt and tap to loosen the seated portion of the bolt from the splined hub. Loosen in 1/4 turn increments and tapping to loosen. After bolt seat has been released, remove the bolt. If bolt is not unseated, damage to the hexagon bolt will occur.

8.2.4 Knives

CAUTION

Shutoff and lockout power before performing machine service, adjusting, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

If work must be done inside the mixer put a protective cover over the auger knives to avoid injury. The hopper and flighting may be slippery. Use caution when stepping on or standing inside the mixer.

Knives are designed and intended for processing and mixing rations that include long stem forages.

NOTE: Some rations may require adding or removing knives, or changing knife position to obtain the desired result.

8.2.4.1 Knife Removal

Individual knives may be removed from the auger if the ration does not include hay or includes very small amounts of small square bale hay or tub ground hay. Removing knives will decrease the aggressive cutting action on the stem length of the ration and may also reduce horsepower requirements.

8.2.4.2 Adding Knives

If the hay in your ration is not being processed enough or fast enough extra knives may be ordered through your dealer. Adding extra knives will help break down and process materials faster, but may increase the horsepower required to process and mix.

8.2.4.3 Knife Placement

The placement of knives towards the bottom of the auger will process the forage faster and make the stem length shorter but may require more horsepower. Placement of knives higher on the auger will assist in breaking up bales faster after initial loading.

8.2.4.4 Knife Position

“Out” Position

When the knives are in the “out” position they tend to move the long stem hay and lighter bulky materials best in the early stages of processing and mixing. This setting may result in feed spillage in certain materials. Knives placed in this setting are very aggressive in processing feed and will also cause an increase in horsepower requirement.

“In” Position

When the knives are in the “in” position they will slow down the long stem hay and lighter bulky materials in the early stages of processing and mixing. Less spillage will occur due to clearance between the knives. This setting is more desirable for heavy rations with long run time and where over processing can occur. Knives placed in this position are less aggressive in processing feed and will reduce the horsepower requirement.

8.2.4.5 Replacing Damaged or Worn Knives

When knives become worn and rounded on the leading edge their efficiency is greatly reduced. This results in longer processing times and increased horsepower requirements. Refer to your parts manual and contact your Meyer MFG dealer for replacement part ordering.

8.2.5 Hay Stop Adjustment

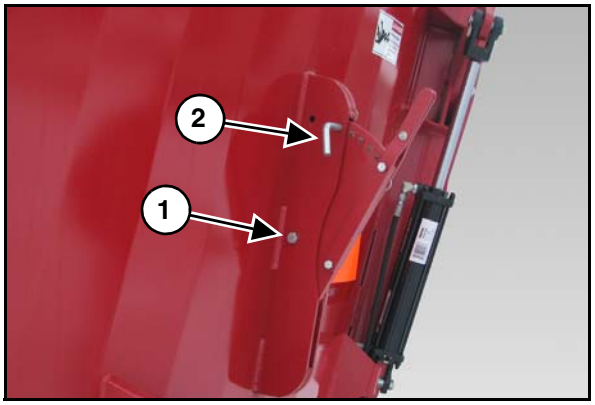
CAUTION

Do not adjust the hay stops while the mixer is running. Moving feed inside the mixer can make the hay stop move suddenly causing injury to the person making the adjustment.

Never operate the mixer without the hay stop lock bolt installed.

8.2.5.1 Hay Stop Lock Bolt

The hay stop lock bolt (Item 1) prevents the hay stop from rotating past the intended range of operation. If the hay stop bolt and the positioning pin (Item 2) are removed, the hay stop could contact the moving auger and cause damage to the hay stop and auger.



Position	Setting	Material
A	High	Light and bulky material (dry grasses)
B	Medium High	Alfalfa bales and other forages
C	Neutral	Unrestrained movement of feed
D	Medium Low	Heavier rations
E	Low	Aggressive cutting

Hay Stop Position A

Hay Stop Position B

Hay Stop Position C

Hay Stop Position D

Hay Stop Position E

8.3 STORING THE MIXER

LOCKOUT / TAGOUT the machine / mixer. (See 5.3 SHUTOFF & LOCKOUT POWER on page 20.)

Extended Storage

Sometimes it may be necessary to store your Meyer mixer for an extended period of time. Below is a list of items to perform before storage.

- Fully empty the material from the mixer. (See 7.4 UNLOADING on page 31.)
- Thoroughly clean the mixer inside and outside.
- Remove all material build-up.
- Lubricate the equipment. (See 8.1 LUBRICATION on page 33.)
- Inspect all mixer components for wear or damage. Repair and replace components as necessary.
- Make appropriate adjustments to equipment. (See 8.2 ADJUSTMENTS on page 39.)
- Inspect all welds for wear. Re-weld as necessary.
- Check for loose hardware, missing guards, or damaged parts.
- Check for damaged or missing safety signs (decals). Replace if necessary.
- Touch up all paint nicks and scratches to prevent rusting.
- Place the equipment in a dry protected shelter.
- Place the equipment flat on the ground.

8.4 RETURNING THE MIXER TO SERVICE

After the Meyer mixer has been in storage, it is necessary to follow a list of items to return the equipment to service.

- Be sure all shields and guards are in place.
- Lubricate the equipment.
- Operate equipment; verify all functions operate correctly.
- Check for leaks. Repair as needed.

8.5 REPLACEMENT PARTS

⚠ WARNING

Before servicing this equipment, ensure that all personnel, including family members are familiar with the equipment and the safety hazards that are present, along with the safety practices that should be observed while working in this equipment.

⚠ CAUTION

Inspect the truck chassis, all safety shielding, safety signs and safety lighting regularly.

Shutoff and lockout power before performing machine service, adjusting, maintaining, or clearing an obstruction from this machine. Refer to section 5.3 SHUTOFF & LOCKOUT POWER.

IMPORTANT

It is important that everyone who works on this equipment is properly trained to help ensure that they are familiar with this procedure and that they follow the steps outlined above. This manual will remind you when to Shutoff & Lockout Power.

At times parts on this implement will become worn or damaged. Performing repairs on this implement can pose a risk of injury including death. To reduce risk, the party that will be doing the repair should be very knowledgeable of the implement and the equipment that they will be using to do the repair.

- Review the repair so that a plan can be put together and the proper equipment can be used to repair this implement safely and correctly.
- Personal safety equipment may include items such as safety glasses, protective footwear, hearing protection, gloves, fire retardant clothes, etc.

⚠ WARNING

Crushing Hazard

<u>Do Not</u> work under suspended or blocked parts.

- The use of hoists and/or supports may be needed to handle heavy components.
- If the implement is being repaired in the field, make sure the parking brake is engaged, the implement is on solid and level ground.
- Welding and torching should be done by properly trained individuals who have proven their skills.

IMPORTANT

Call the factory for any additional details you may need to perform the repair. Some parts may come with instruction sheets to assist in the repair. Instructions sheets may be provided with your parts order, otherwise, if available, instruction sheets can be e-mailed or faxed for you convenience.

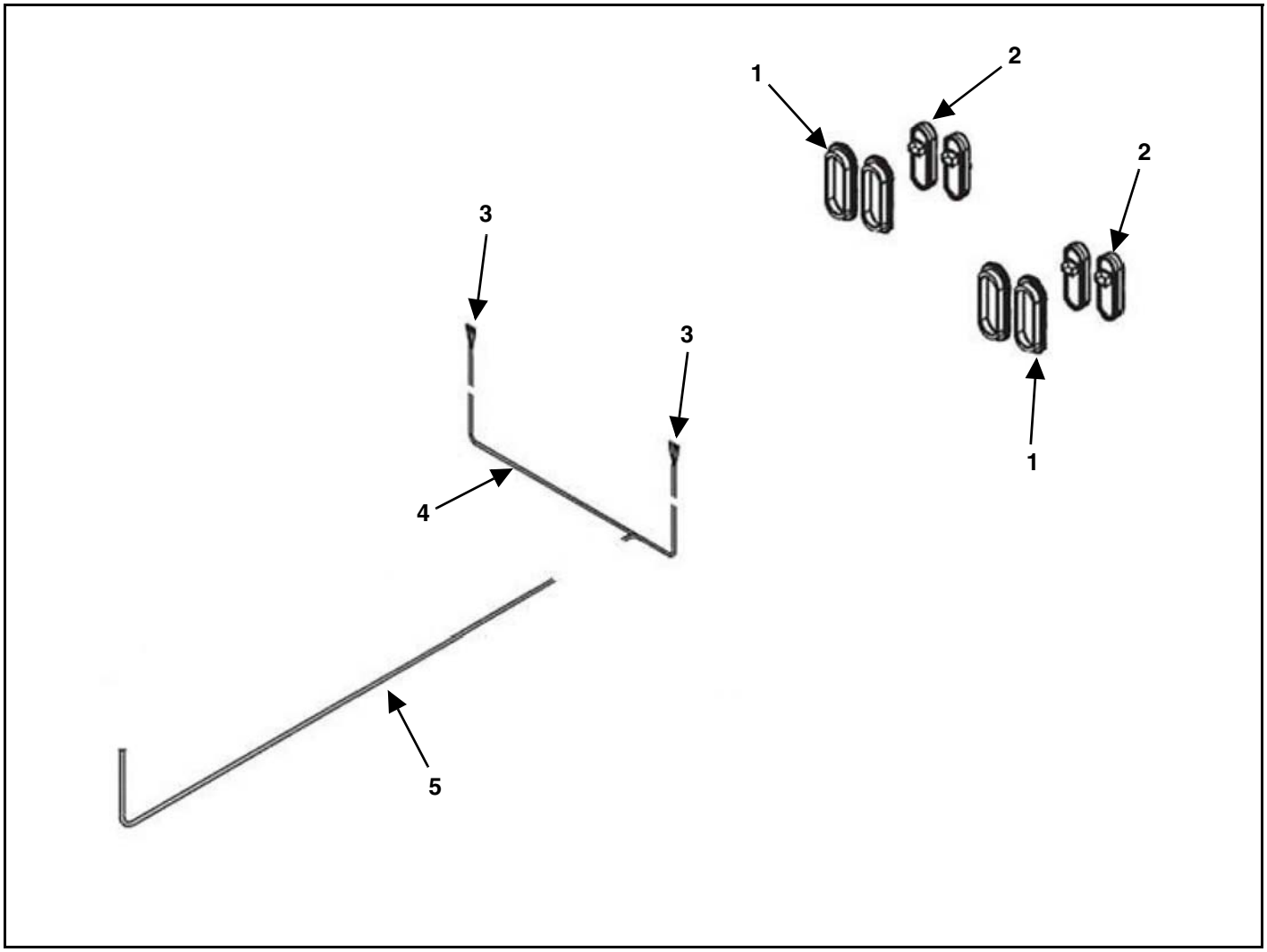
NOTE: Be environmentally friendly and dispose of any waste materials properly. Recycle when appropriate.


MEYER
FORMULA

9.0 PARTS

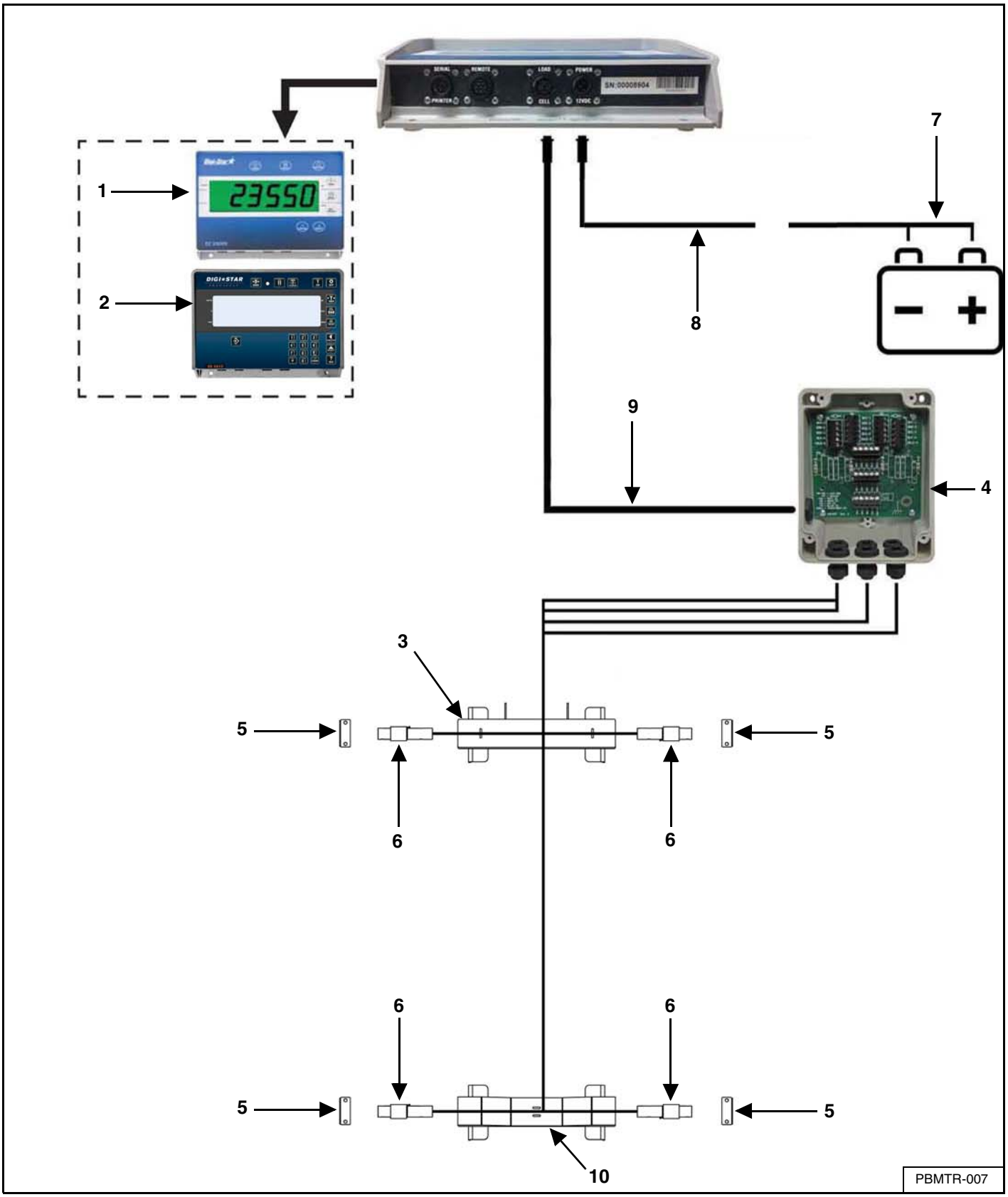
ELECTRICAL

TAIL LIGHTS



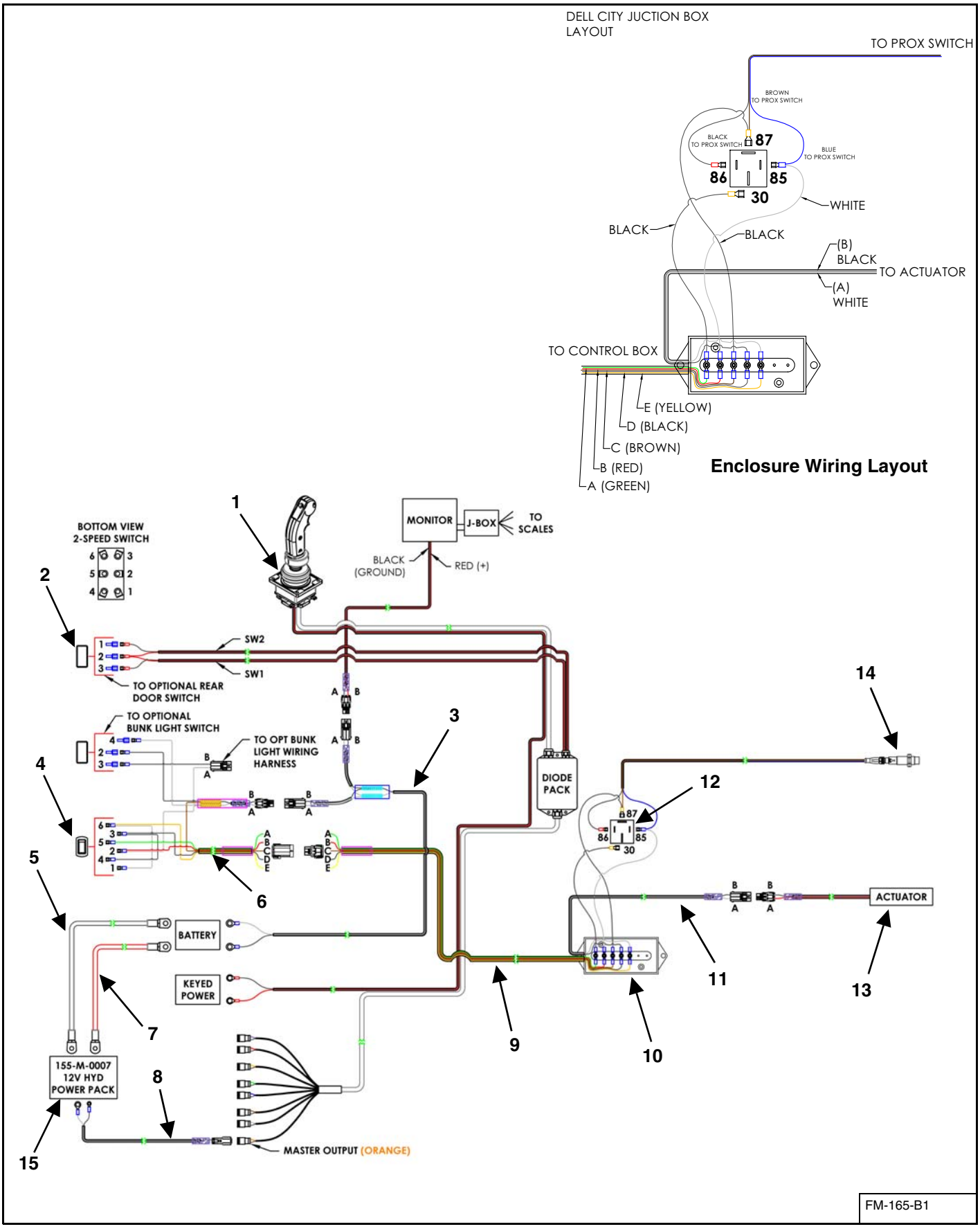
KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	56-0082	4	6" Oval Grommet	585/700
2	56-0115	4	6" Oval Red LED Light	585/700
3	56-0130-2	2	Right/Left Light Pigtail Lead	585/700
4	56-0130-1	1	Y-Harness Less Light Plug Leads	585/700
5	56-0037	AR	16GA 4-Wire Trailer Cable (By The Foot)	585/700
	156-C-6FL-TO-1	1	6 Contact Connector	585/700
	156-P-1	2	Green Cavity Plug	585/700
	156-S-18-16-1	4	Green Cable Seal	585/700
	156-T-16-14-F-1	4	Female Terminal Ends	585/700

SCALE SYSTEM



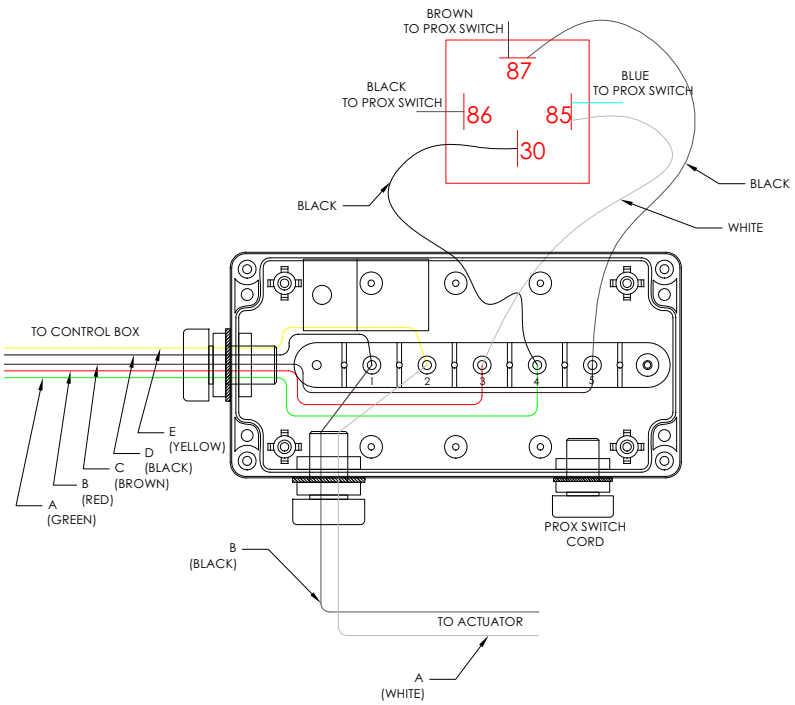
KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	58-0002-407120	1	EZ2500V Scale Indicator Monitor With Serial Port	585/700
2	58-0002-281023	1	EZ2810 Scale Indicator Monitor	585/700
3	M9-1-5-0005	1	Front Mixer Mount	585/700
	M9-1-12-0002	2	Truck Frame Mount	585/700
4	58-0020	1	6 Point Mobil J-Box	585/700
	58-0008	1	6 Point Mobil J-Box With Monitor Cable	585/700
5	M9-1-8-0001	4	DB Bar Mount	585/700
	881-7510-2.5Z	8	3/4-10 x 2-1/2” Bolt	585/700
6	58-0034-WT	4	2.875” x 14” Load Cell	585/700
7	See Page 48 & 50	1	12V Power Cord Assembly	585/700
8	58-0043	1	10' Power Cord	585/700
9	58-0029	1	Junction Box To Monitor Cable 30’	585/700
10	M9-1-5-0001	1	Rear Mixer Mount	585/700
	M9-1-12-0002	2	Truck Frame Mount	585/700

2-SPEED ELECTRICAL SYSTEM PRIOR TO SN 18VM(0585235, 0700212)

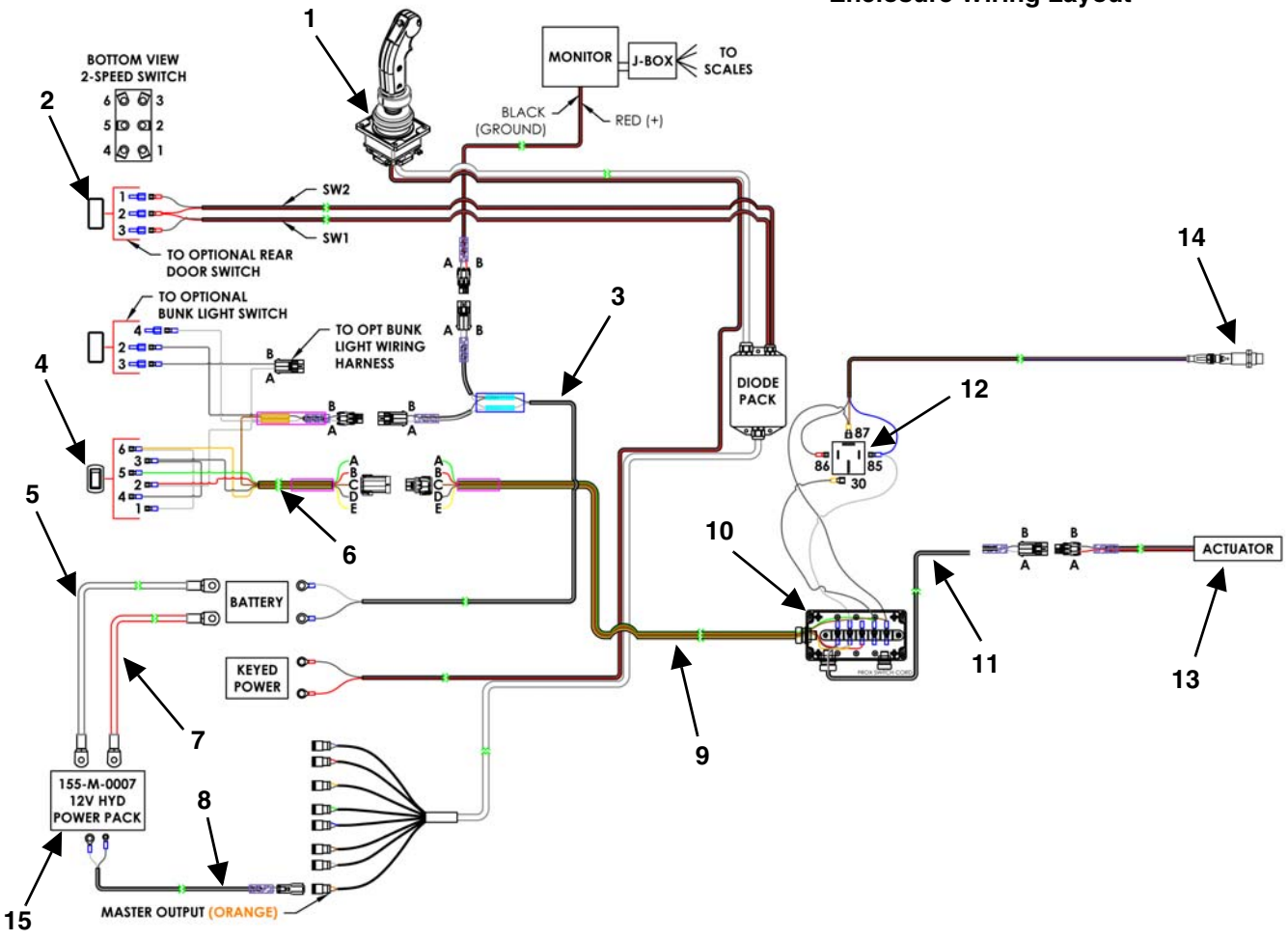


KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	56-0400-3	1	Joystick Power & Rear Door Harness Assembly	585/700
2	156-M-0001	2	Mounting Panel Plug	585/700
3	56-0400-2	1	12V Power Cord Assembly	585/700
4	156-M-0006	1	Rocker Switch	585/700
5	56-0406	1	12V Hydraulic Pump Black Battery Cable Assembly	585/700
6	56-0400-1	1	2-Speed & Optional Bunk Light Wiring Harness	585/700
7	56-0407	1	12V Hydraulic Pump Red Battery Cable Assembly	585/700
8	56-0405	1	12V Hydraulic Pump Harness Assembly	585/700
9	56-0205	1	Junction Power Cord Assembly	585/700
10	56-0215	1	Terminal Enclosure Assembly	585/700
11	56-0404	1	2-Speed Actuator Power Cord Assembly	585/700
12	56-0200-3	1	Normally Open Relay	585/700
13	See Page 64	1	12V Linear Actuator With Plug	585/700
14	56-0202	1	Proximity Switch Assembly	585/700
15	See Page 52	1	12V DC Hydraulic Power Pack	585/700

2-SPEED ELECTRICAL SYSTEM SN 18VM(0585235, 0700212) & LATER



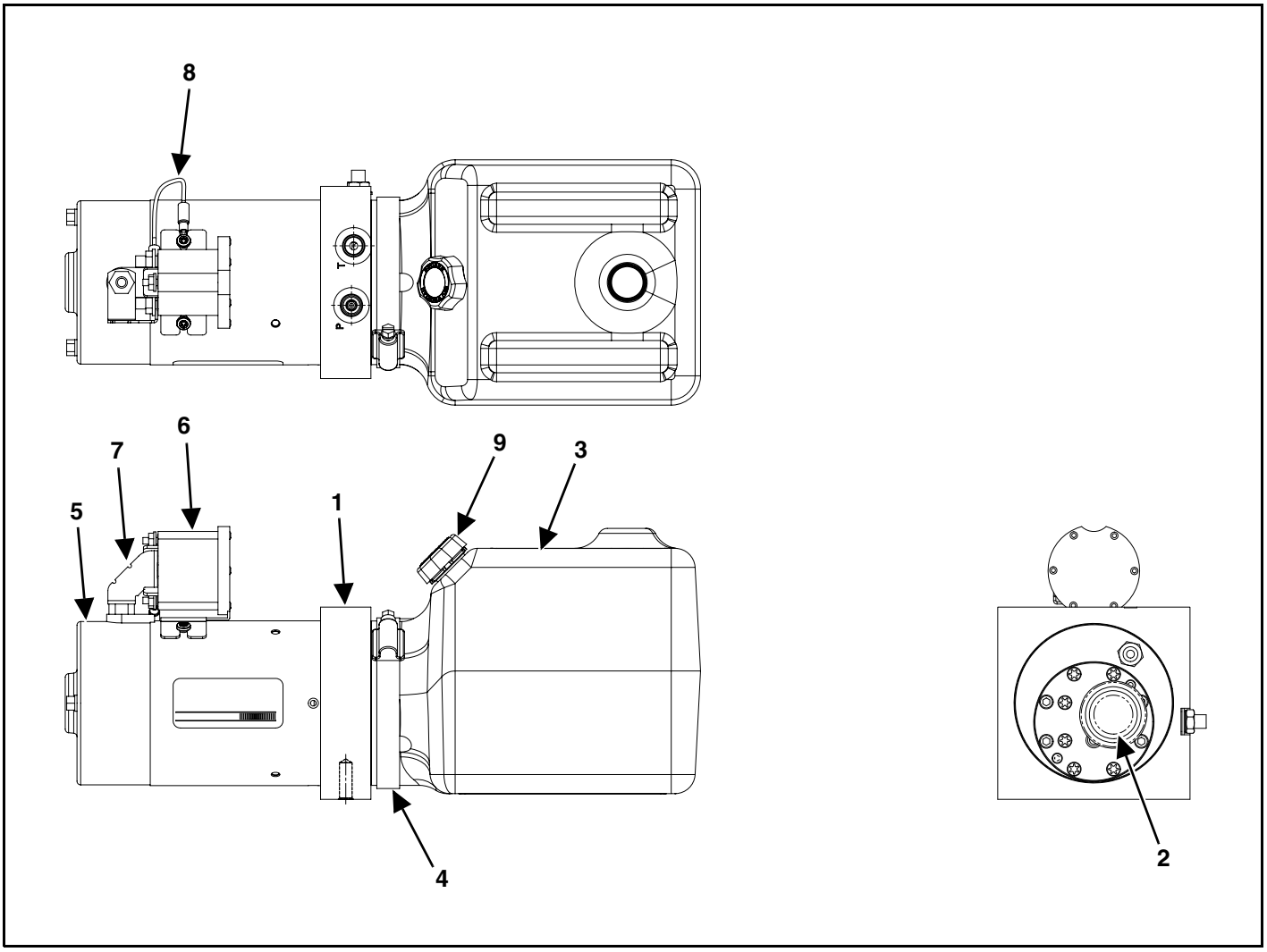
Enclosure Wiring Layout



FM-165-B2

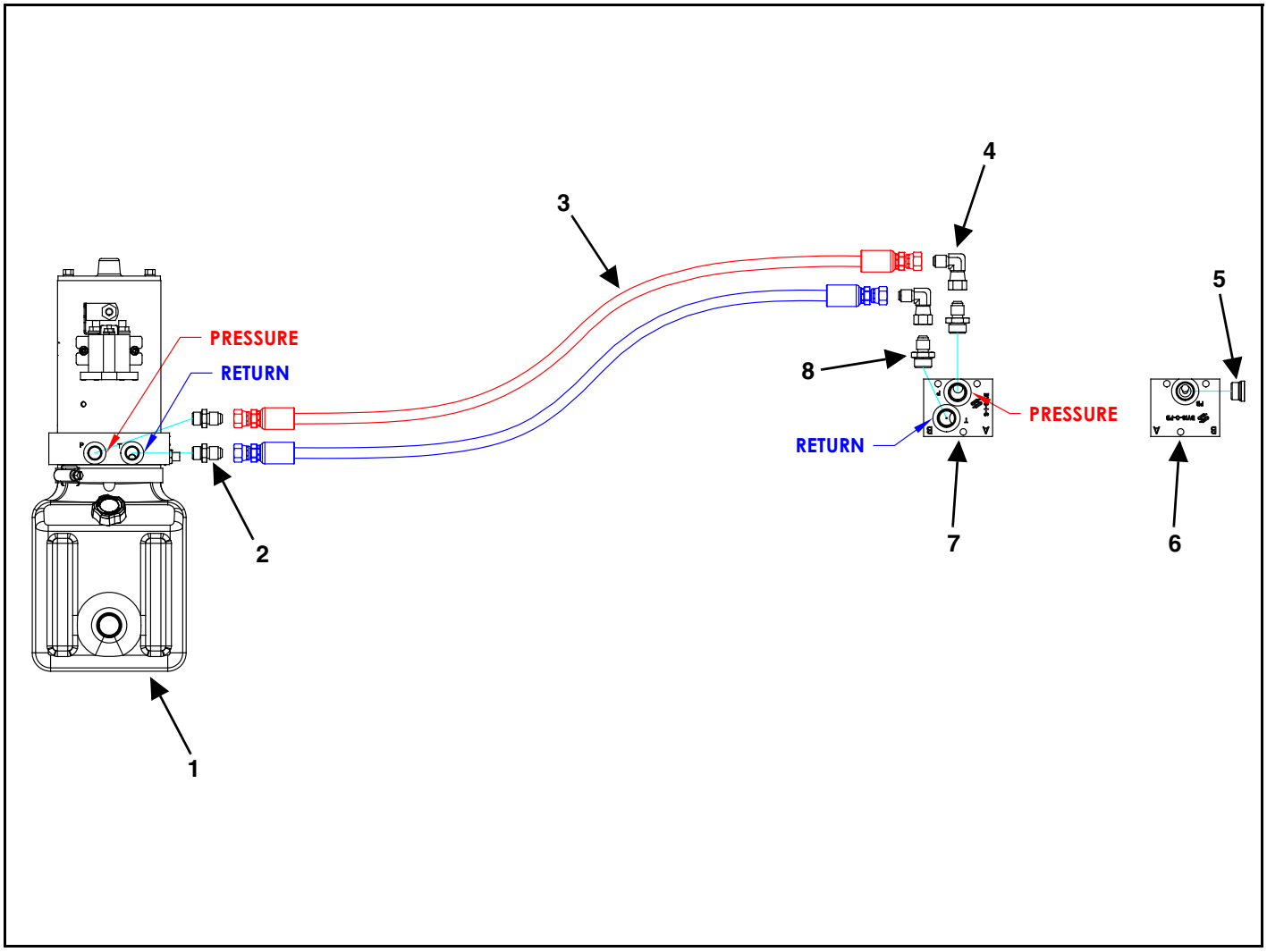
KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	56-0400-3	1	Joystick Power & Rear Door Harness Assembly	585/700
2	156-M-0001	2	Mounting Panel Plug	585/700
3	56-0400-2	1	12V Power Cord Assembly	585/700
4	156-M-0006	1	Rocker Switch	585/700
5	56-0406	1	12V Hydraulic Pump Black Battery Cable Assembly	585/700
6	56-0400-1	1	2-Speed & Optional Bunk Light Wiring Harness	585/700
7	56-0407	1	12V Hydraulic Pump Red Battery Cable Assembly	585/700
8	56-0405	1	12V Hydraulic Pump Harness Assembly	585/700
9	56-0205	1	Junction Power Cord Assembly	585/700
10	56-0281	1	Terminal Enclosure Assembly	585/700
11	56-0404	1	2-Speed Actuator Power Cord Assembly	585/700
12	56-0200-3	1	Normally Open Relay	585/700
13	See Page 64	1	12V Linear Actuator With Plug	585/700
14	56-0202	1	Proximity Switch Assembly	585/700
15	See Page 52	1	12V DC Hydraulic Power Pack	585/700

HYDRAULIC POWER PACK

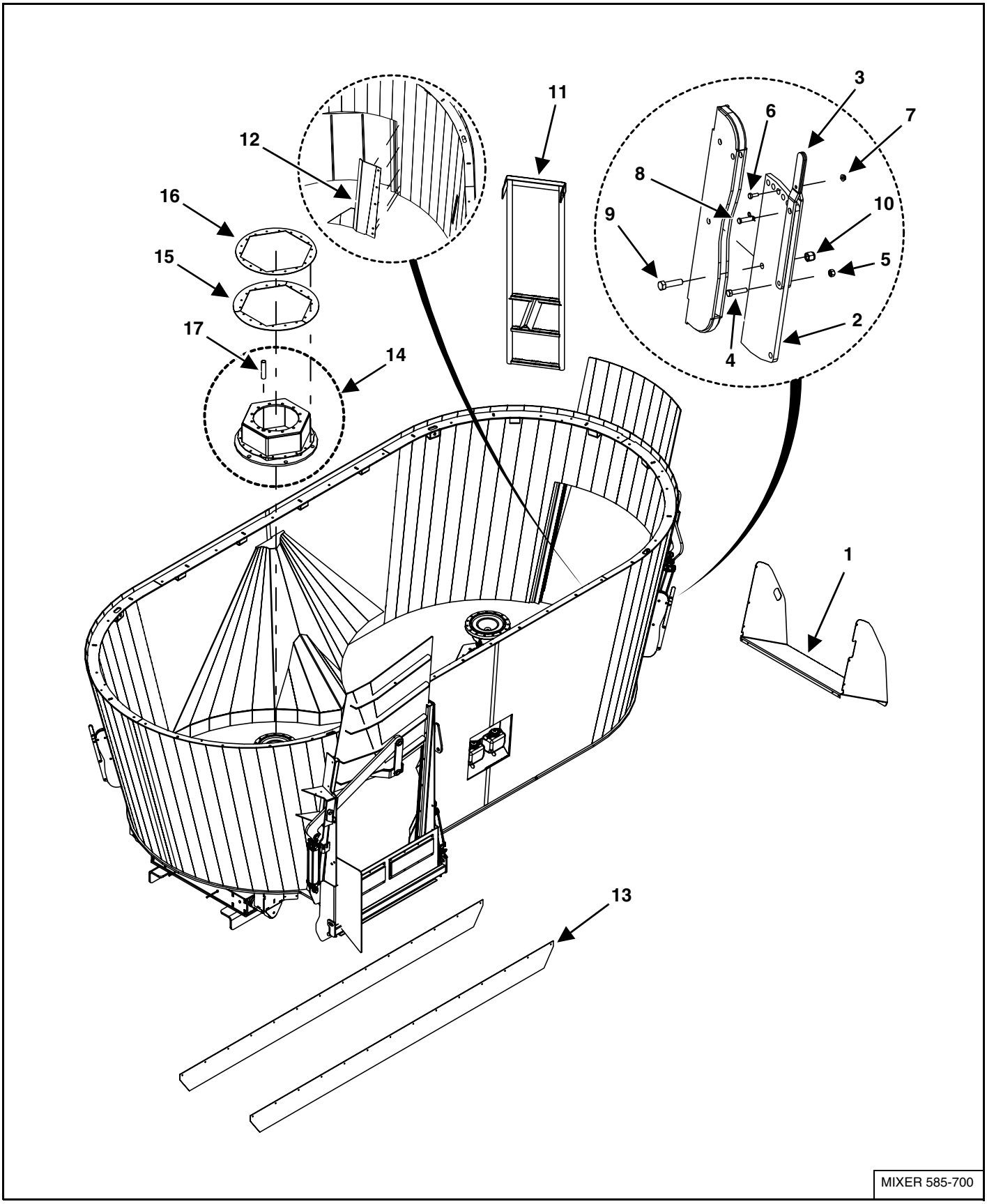


KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
0	155-M-0007	1	12V DC Hydraulic Power Pack	585/700
1	155-M-0007-3	1	Base Assembly	585/700
2	155-M-0007-5	1	Filter Screen	585/700
3	155-M-0007-1	1	Plastic Reservoir Tank	585/700
4	155-M-0007-4	1	Hose Clamp	585/700
5	155-M-0007-2	1	12V DC Motor	585/700
6	155-M-0007-6	1	12V DC Solenoid Switch	585/700
7	155-M-0007-7	1	Motor-Solenoid Connecting Strap	585/700
8	155-M-0007-8	1	Control Wire Assembly	585/700
9	155-M-0007-9	1	Breather/Filler Plug	585/700

HYDRAULIC POWER PACK TO VALVE BANK



KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	See Page 52	1	12V DC Hydraulic Power Pack	585/700
2	155-6400-06-06	2	Straight Connector	585/700
3	155-04R17-19-1	2	1/4” x 19” Hose Assembly	585/700
4	155-6500-06-06	2	90 Degree Connector	585/700
5	955-0009	1	Hollow Hex Plug	585/700
6	155-M-0006	1	Standard Outlet Valve Bank	585/700
7	155-M-0005	1	Standard Inlet Valve Bank	585/700
8	155-6400-6-8	2	Straight Adapter	585/700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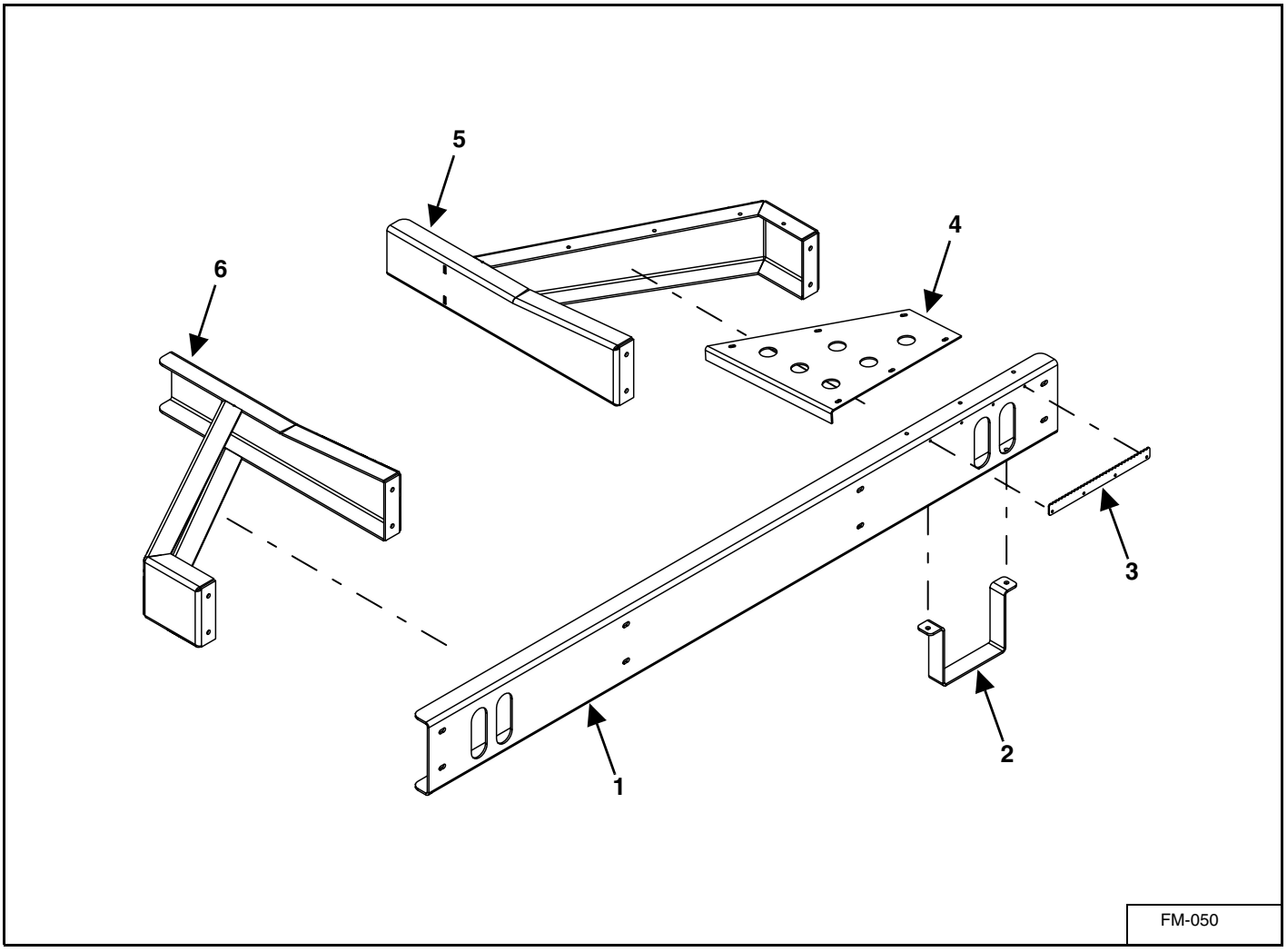
MIXER 585-700

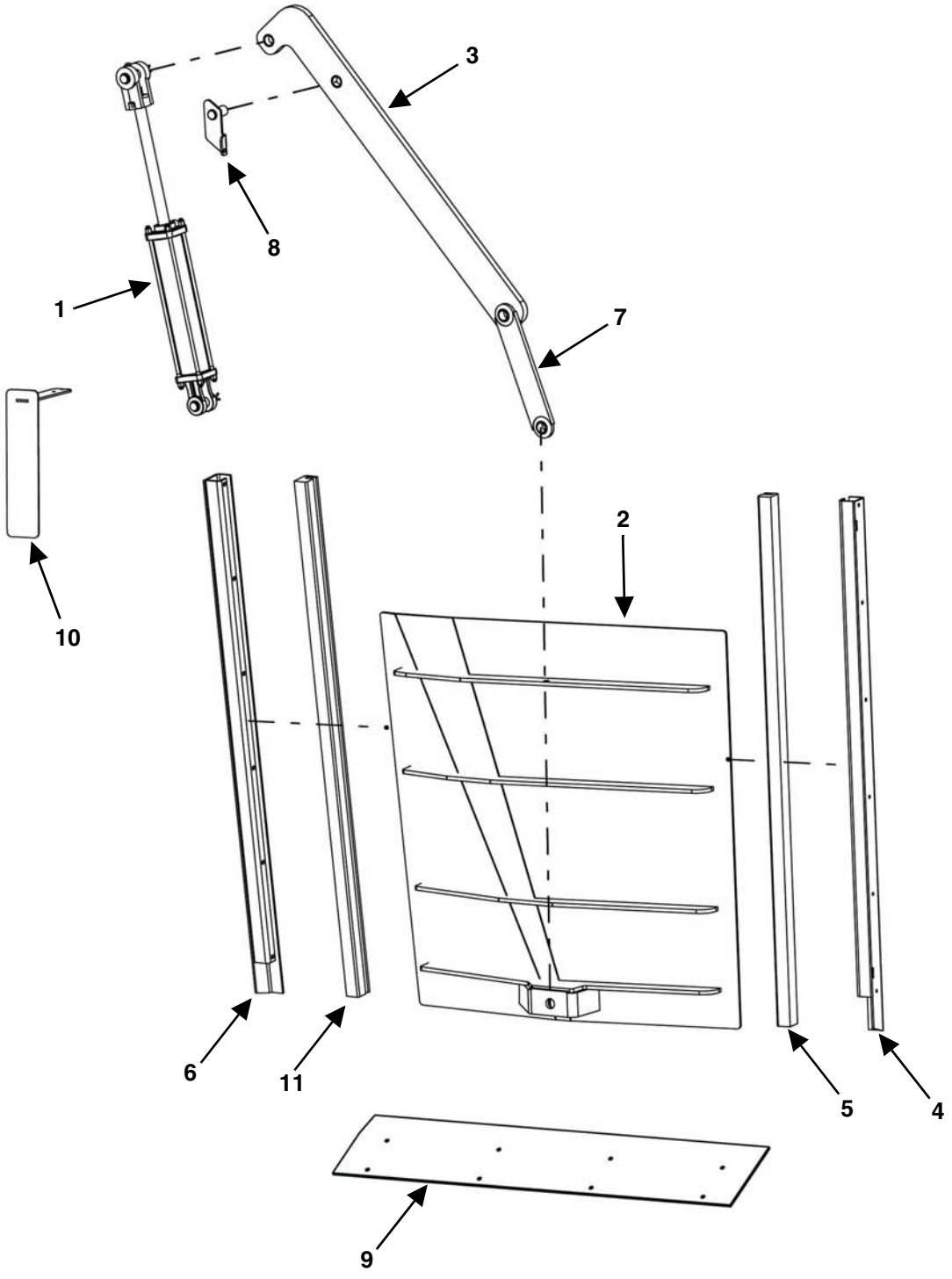
KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	M3-1-5-0072	1	Rear Door Chute Extension	585/700
2	M7-1-8-0002	2	Hay Stop	585/700
3	M7-1-8-0003	4	Hay Stop Handle	585/700
4	851-3816-1.75Z	2	3/8-16 x 1-3/4” Machine Bolt	585/700
5	815-3816-Z	2	3/8-16 Nylon Insert Lock Nut	585/700
6	851-2520-.75Z	2	1/4-20 x 3/4” Machine Bolt	585/700
7	810-2520-Z	2	1/4” Spin Lock Nut	585/700
8	32-0042	2	1/2 x 1-1/2” Clevis Pin With Clip	585/700
9	851-5013-2Z	2	1/2-13 x 2” Machine Bolt	585/700
10	815-5013-Z	2	1/2-13 Nylon Lock Nut	585/700
11	M10-1-5-0006	1	Ladder Weldment	585
	M10-1-7-0004	1	Ladder Weldment	700
12	M2-1-7-0007	1	Rear Door Deflector Prior to SN 18VM(0585208, 0700203)	585/700
	M6-1-7-0016	1	Rear Door Deflector SN 18VM(0585208, 0700203) & Later	585/700
	803-3816-1.25Z	5	3/8-16 x 1-1/4” Flat Head Socket Cap Screw	585/700
	815-3816-Z	5	3/8-16 Nylon Insert Lock Nut	585/700
13	49-0262	2	Belt Skirting	585/700
14	M2-1-5-0006	2	Planetary Mount Weldment	585/700
15	VAM-ASK-KIT	1	Complete Auger Seal Installation Kit With Weld On Seal Plate Prior to SN 18VM(0585232, 0700211)	585/700
	M2-1-5-0011-2	6	Auger Seal Belting SN 18VM(0585232, 0700211) & Later	585/700
16	VAM-ASK-KIT	1	Complete Auger Seal Installation Kit With Weld On Seal Plate Prior to SN 18VM(0585232, 0700211)	585/700
	M2-1-5-0011-3	2	Auger Seal Cover SN 18VM(0585232, 0700211) & Later	585/700
	851-3816-1Z	36	3/8-16 x 1” Machine Bolt SN 18VM(0585232, 0700211) & Later	585/700
	815-3816-Z	36	3/8-16 Nylon Lock Nut SN 18VM(0585232, 0700211) & Later	585/700
17	M2-1-7-0003-3	2	Auger Mount Pipe (Welded On)	585/700

REAR BUMPER



KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	M13-1-7-0001	1	Rear Bumper	585/700
2	M13-1-12-0005	1	Bumper Drop Step	585/700
3	M13-1-12-0006	1	Bumper Step	585/700
4	M13-1-12-0004	1	Rear Bumper Step Insert	585/700
5	M13-1-12-0003	1	Right Rear Bumper Mount Weldment	585/700
6	M13-1-12-0002	1	Left Rear Bumper Mount Weldment	585/700


MEYER
FORMULA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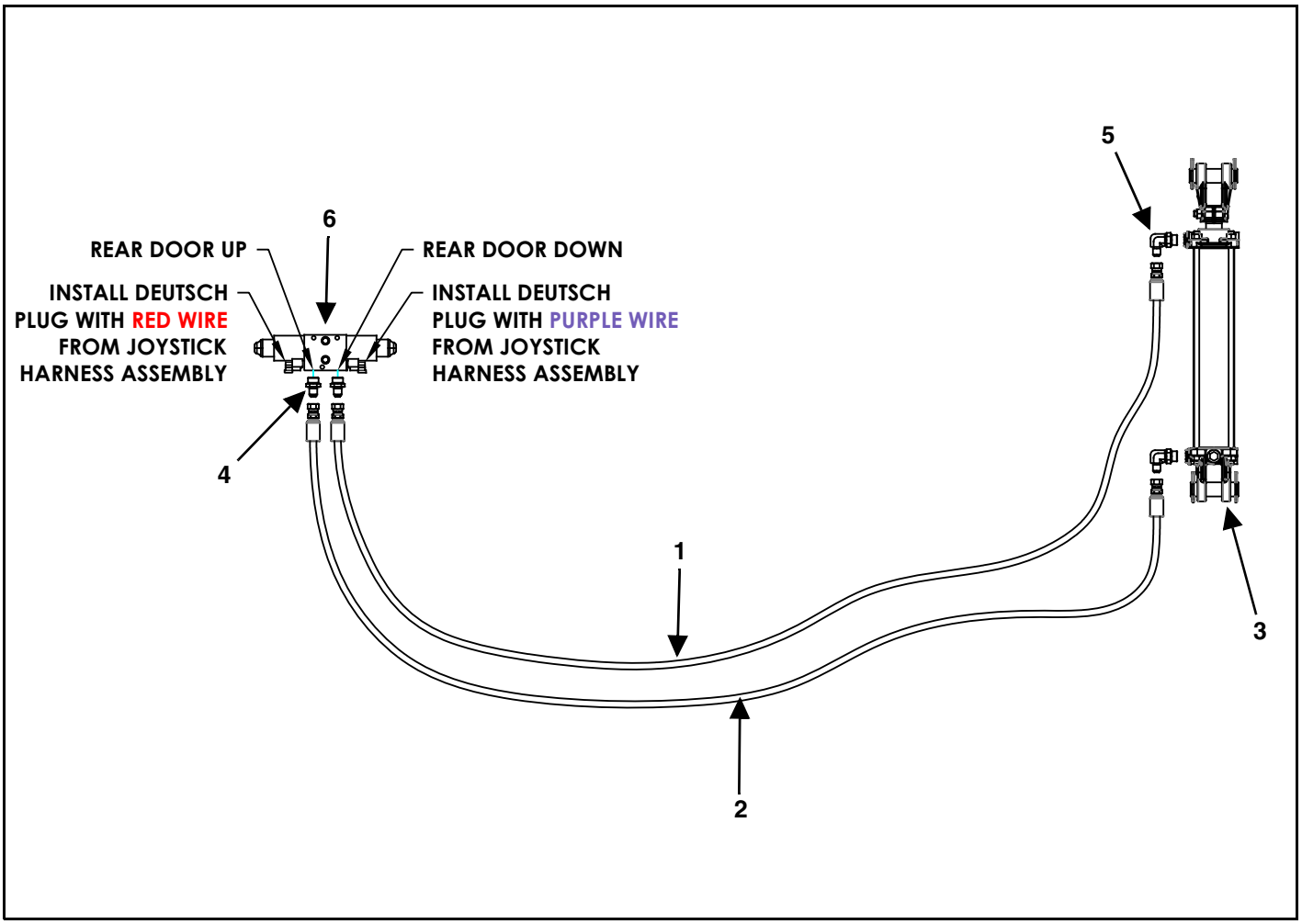
FM-100

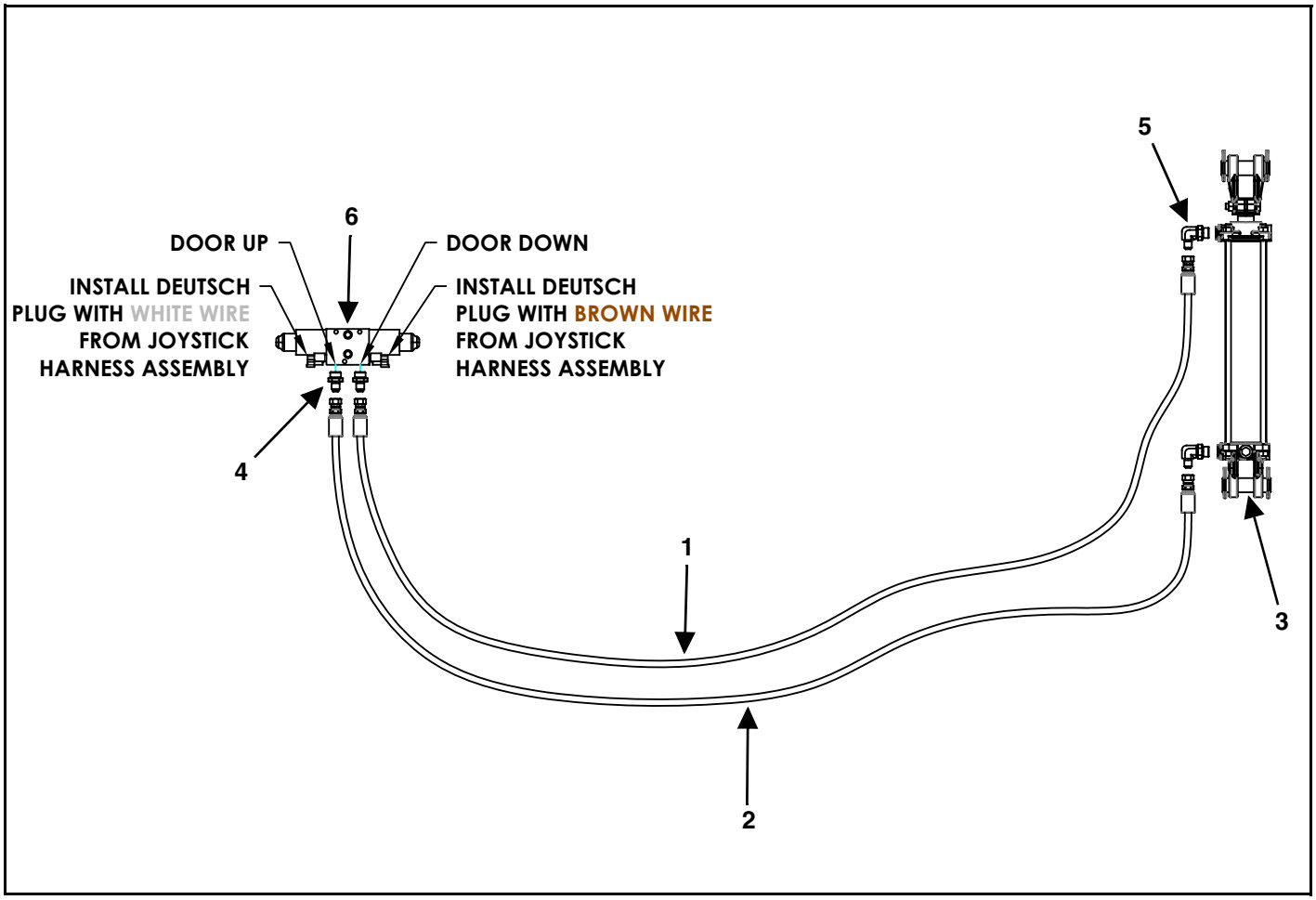
KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	155-2.5-12-1.125-1	1	2-1/2” x 12” x 1-1/8” Hydraulic Cylinder	585/700
2	M6-1-7-0004	1	Rear Door Weldment	585/700
	M6-1-7-0007	1	Left Side Door Weldment	585/700
	M6-1-7-0009	1	Right Side Door Weldment	585/700
3	M6-1-7-0005	1	Door Arm	585/700
	M6-1-8-0006-2	2	Spring Bushing 1” ID x 1-1/4” OD x 3/4”	585/700
4	M6-1-8-0002	1	Right Door Frame Guide Assembly	585/700
5	M6-1-10-0007-R	1	Right Poly Door Slide (Facing Door)	585/700
	850-3118-2.5Z	6	Carriage Bolt, 5/16-18 x 2-1/2”	585/700
	814-3118-Z	6	Indented Lock Nut, 5/16-18	585/700
6	M6-1-8-0004	1	Left Door Frame Guide Assembly	585/700
7	M6-1-8-0008	1	Door Link Arm Assembly	585/700
	851-1008-3Z	2	Machine Bolt, 1-8 x 3”	585/700
	815-1008-Z	2	Lock Nut, 1-8 Nylon Insert	585/700
8	M6-1-8-0009	1	Rear Door Link Pivot Pin Assembly	585/700
	M6-1-7-0010	1	Right Door Pivot Pin Assembly	585/700
	M6-1-7-0011	1	Left Door Pivot Pin Assembly	585/700
	851-3816-1.25Z	1	3/8-16 x 1-1/4” Machine Bolt	585/700
	805-0038-Z	2	3/8” Flat Washer	585/700
	815-3816-Z	1	3/8-16 Nylon Insert Lock Nut	585/700
9	M11-1-0019	1	Magnet Cover Plate (Side Door Only)	585/700
10	M2-1-7-0001-47	AR	Left/Right Side Discharge Door Indicator Weldment	585/700
11	M6-1-10-0007-L	1	Left Poly Door Slide (Facing Door)	585/700
	850-3118-2.5Z	6	Carriage Bolt, 5/16-18 x 2-1/2”	585/700
	814-3118-Z	6	Indented Lock Nut, 5/16-18	585/700

OPTIONAL REAR OR REAR SIDE DOOR HYDRAULIC SCHEMATIC



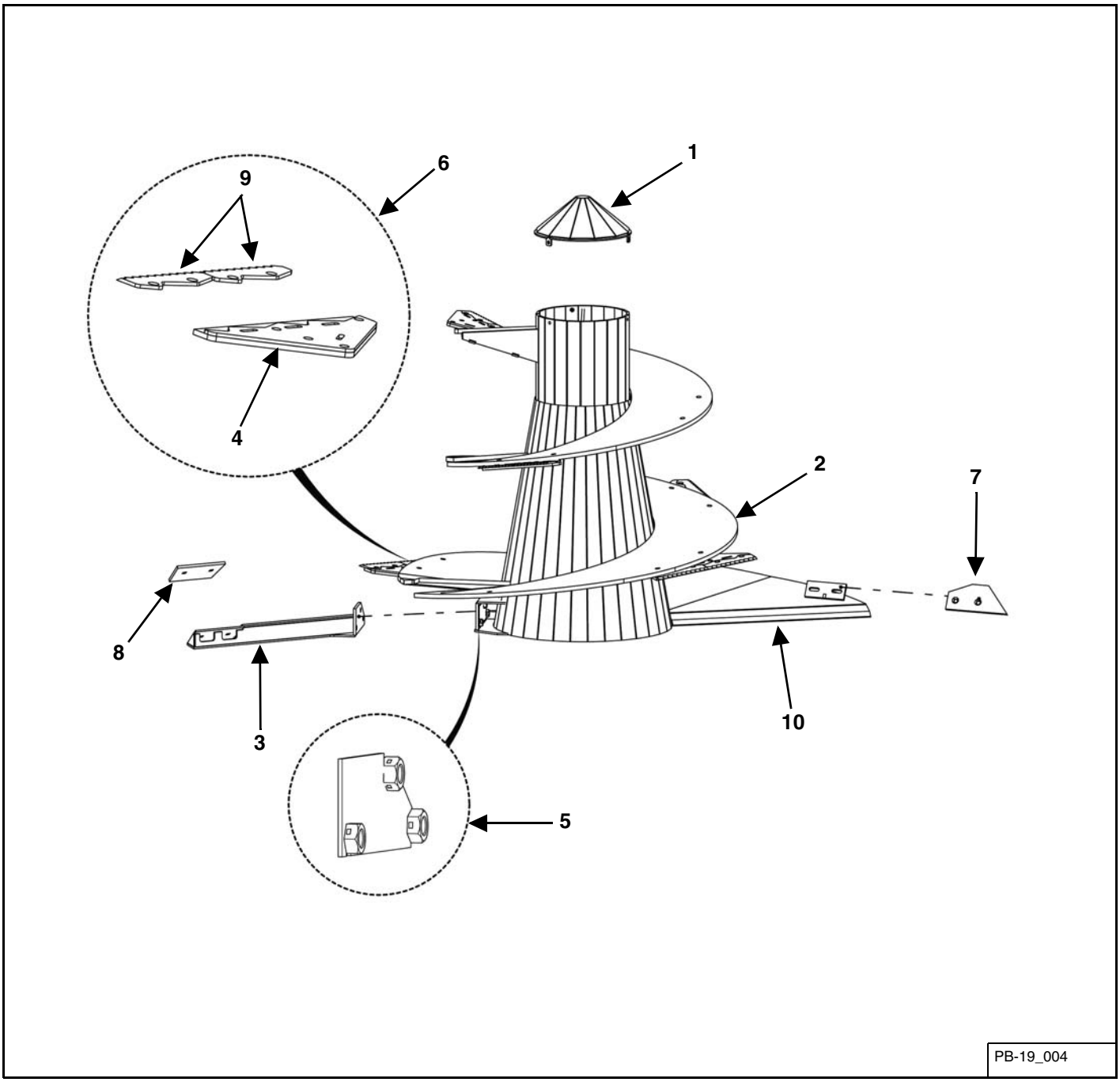
KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	155-04R17-266-1	1	1/4” x 266” Hose Assembly	585/700
2	155-04R17-251-1	1	1/4” x 251" Hose Assembly	585/700
3	155-2.5-12-1.125-1	1	2-1/2” x 12" x 1-1/8” Hydraulic Cylinder	585/700
4	155-6400-6-8	2	Straight Adapter	585/700
5	155-6801-6-8	2	90 Degree Adapter	585/700
6	155-M-0001	1	Closed Center Section Door Cylinder Valve Bank	585/700

DOOR HYDRAULIC SCHEMATIC
LEFT DOOR

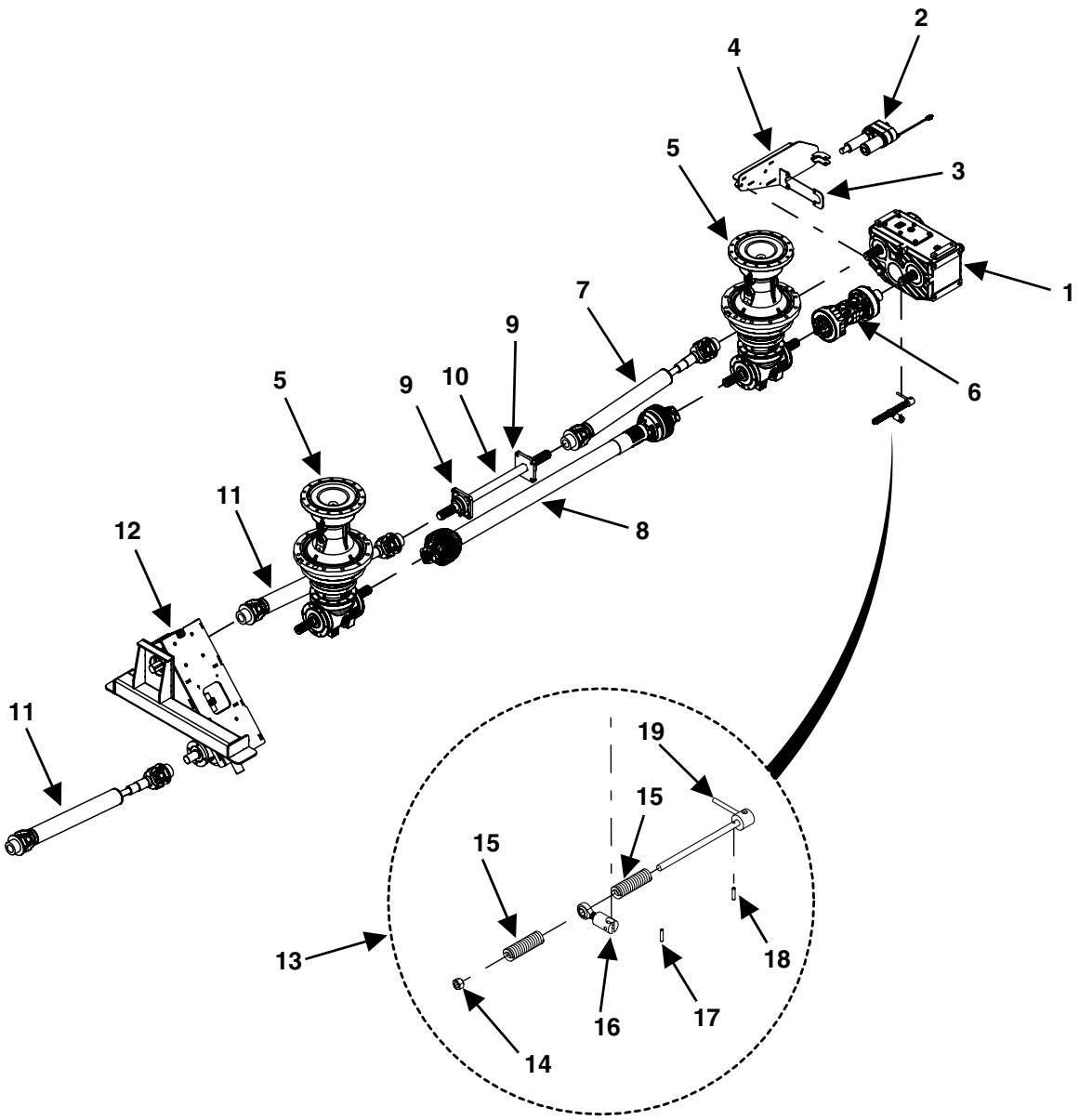


KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	155-04R17-121-1	1	1/4' x 121" Hose Assembly	585/700
2	155-04R17-102-1	1	1/4" x 102" Hose Assembly	585/700
3	155-2.5-12-1.125-1	1	2-1/2" x 12" x 1-1/8" Hydraulic Cylinder	585/700
4	155-6400-6-8	2	Straight Adapter	585/700
5	155-6801-6-8	2	90 Degree Adapter	585/700
6	155-M-0001	1	Closed Center Section Door Cylinder Valve Bank	585/700

AUGER



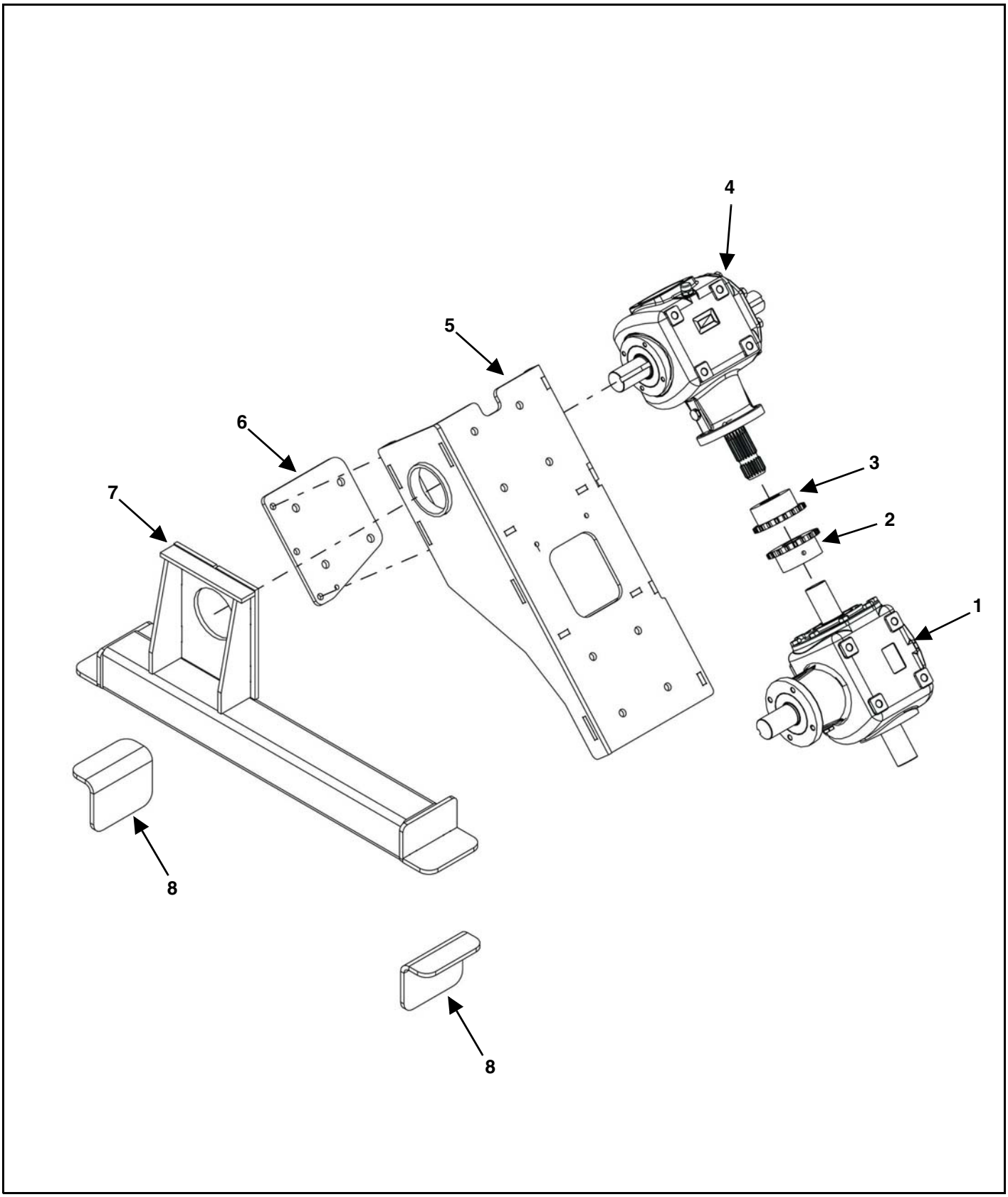
KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
0	M5-1-5-0001	2	Auger Assembly, Complete With Knives, Backer & Hardware	585
	M5-1-7-0001	2	Auger Assembly, Complete With Knives, Backer & Hardware	700
1	M5-1-8-0002	2	Auger Top Cap Weldment	585/700
	851-3118-1.25SS	6 per	5/16”-18 x 1-1/4” Stainless Steel Bolts	585/700
	805-0031-Z	6 per	5/16” Flat Washer	585/700
	822-0031-Z	6 per	5/16” Split Lock Washer	585/700
2	M5-1-5-0001-1	2	Auger Weldment	585
	M5-1-7-0001-1	2	Auger Weldment	700
3	M5-1-7-0002	2	Kicker Weldment	585/700
4	M11-1-0040	10	Knife Backer Weldment	585/700
	M11-1-0041	10	HD Knife Backer Weldment	585/700
	832-6311-2	1 per	5/8”-11 x 2” Button Head / Allen Head Bolt (Round Hole Auger Flighting)	585/700
	832-6311-2.5	1 per	5/8”-11 x 2” Button Head / Allen Head Bolt (Round Hole Auger Flighting)	585/700
	880-6311-2Z	1 per	5/8” -11 x 2” Carriage Bolt Zinc (Square Hole Auger Flighting)	585/700
	880-6311-2.5Z	1 per	5/8” -11 x 2” Carriage Bolt Zinc (Square Hole Auger Flighting)	585/700
	886-6311-Z	2 per	5/8” -11 Center Lock Nut	585/700
5	M5-1-8-0007	2	Auger Kicker Nut Holder Weldment	585/700
6	M11-1-0040-K	10	Mixer Knife Assembly (Includes Knives, Backers & Hardware)	585/700
	M11-1-0041-K	10	Mixer HD Knife Assembly (Includes Knives, Backers &Hardware)	585/700
7	M5-1-8-0005-K	2	Auger Scraper With Hardware	585/700
	852-5013-1.75Z	2 per	1/2”-13 x 1-3/4” Flat Head Socket Cap Screw	585/700
	815-5013-Z	2 per	1/2”-13 Nylon Lock Nut	585/700
	828-0050-Z	2 per	1/2” SAE Washer	585/700
8	M5-1-8-0006-K	2	Kicker Wear Plate With Hardware	585/700
	852-5013-1.75Z	2 per	1/2-13 x 1-3/4” Flat Head Socket Cap Screw	585/700
	815-5013-Z	2 per	1/2 -13 Nylon Lock Nut	585/700
	828-0050-Z	2 per	1/2” SAE Washer	585/700
9	M11-1-0042-K	AR	One Blade With Hardware	585/700
	803-3816-1Z	2 per	3/8-16 x 1” Flat Head Socket Cap Screw	585/700
	814-3816-Z	2 per	3/8-16 Center Lock Nut	585/700
10	M5-1-7-0001-1-3	2	Lead Edge (Welded On)	585/700



FM-160-A

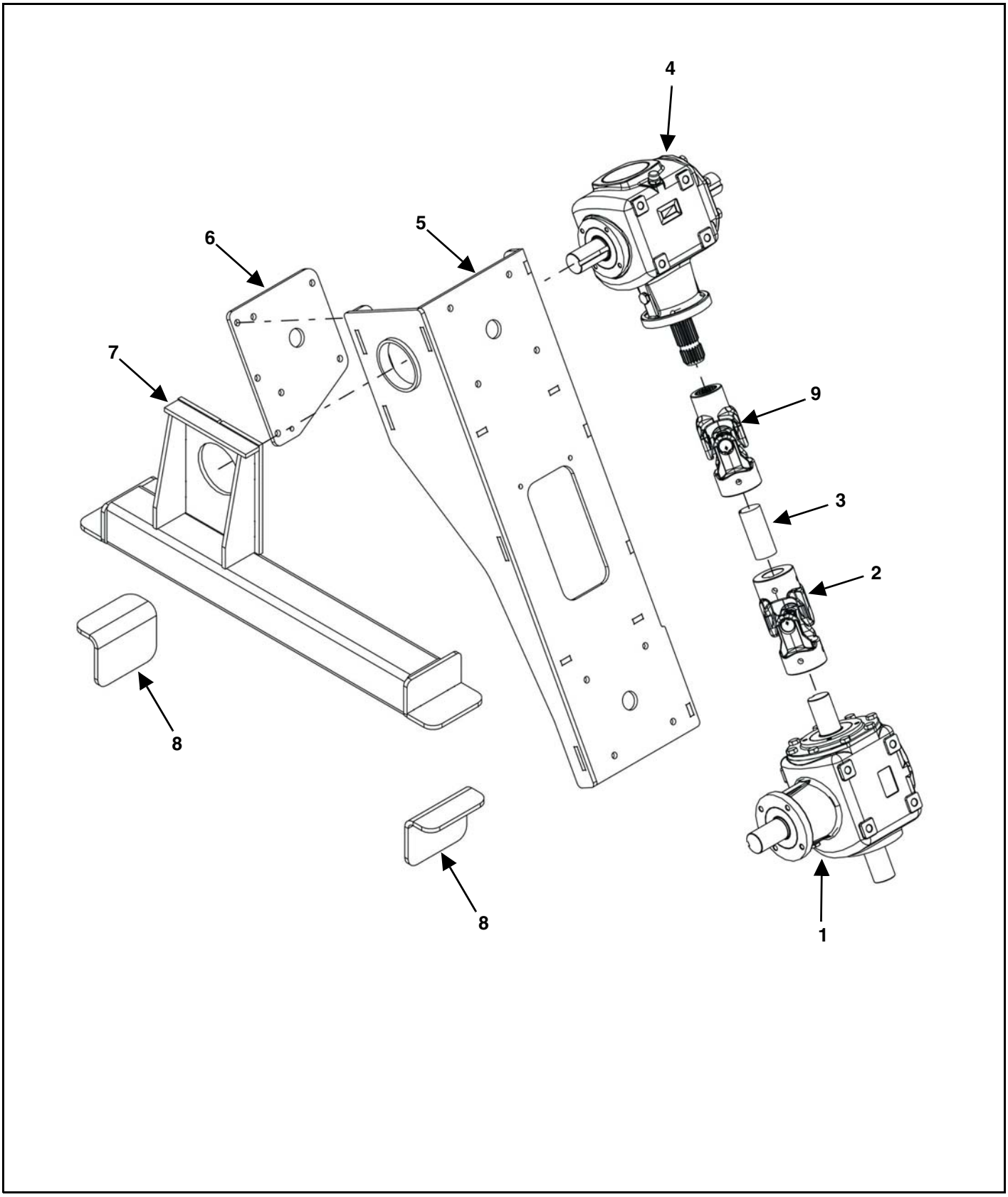
KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	119-2SP-1.8-2.7-3	1	2-Speed Shifting Gearbox 1.80:1/2.70:1 1.75-20 SPL	585/700
2	56-0123	1	12V Linear Actuator With Plug	585/700
3	M11-2-0001-4	1	2-Speed Top Cylinder Mount	585/700
4	M11-2-0005	1	2-Speed Shift Mount Weldment	585/700
5	See Page 76	2	1800 Series Planetary Gearbox	585/700
6	118-VM-0016-55	1	Double Universal Joint W/Integral Auto Clutch	585/700
7	118-VM-1410-14	1	1-3/4-20 Spline Balanced Automotive Driveline	585/700
8	118-VM-0014-55	1	Planetary to Planetary Drive Shaft	585/700
9	914-3819	2	1-3/4” 4-Bolt Bearing	585/700
10	123-1.75-0005	1	1-3/4” Dia. x 32-1/4” PTO Extension Drive Shaft	585/700
11	Call 1-800-325-9103	2	1-3/4-20 Spline Balanced Automotive Driveline	585/700
12	See Page 66	1	Front Gearbox Right PTO Driveline Mount	585/700
	See Page 68	1	Front Gearbox Left PTO Driveline Mount	585/700
13	VAML-2SP-BJSR-KIT	1	2-Speed Shift Rod Kit Without Springs	585/700
	VAML-2SP-BJSRS-KIT	1	2-Speed Shift Rod Kit With Springs	585/700
14	814-5612-Z	1	9/16-12 Indented Lock Nut SN 18VM(0585224, 0700207) & Later	585/700
15	VAML-2SP-BJSRS-KIT	1	2-Speed Shift Rod Kit With Springs Prior to SN 18VM(0585224, 0700207)	585/700
	29-0036	2	2-Speed Die Spring SN 18VM(0585224, 0700207) & Later	585/700
16	M11-1-0005	1	Shift Mount Rod	585/700
	851-3118-2.25Z	1	5/16-18 x 2-1/4” Hex Cap Screw	585/700
	815-3118-Z	1	5/16-18 Nylon Insert Lock Nut	585/700
17	VAML-2SP-BJSRS-KIT	1	2-Speed Shift Rod Kit With Springs Prior to SN 18VM(0585224, 0700207)	585/700
18	38-0003	1	1/4” x 1-1/4” Roll Pin	585/700
19	VAML-2SP-BJSRS-KIT	1	2-Speed Shift Rod Kit With Springs Prior to SN 18VM(0585224, 0700207)	585/700
	M11-2-0003	1	2-Speed Shift Rod Weldment SN 18VM(0585224, 0700207) & Later	585/700

RIGHT SIDE PTO GEARBOX DRIVELINE MOUNT



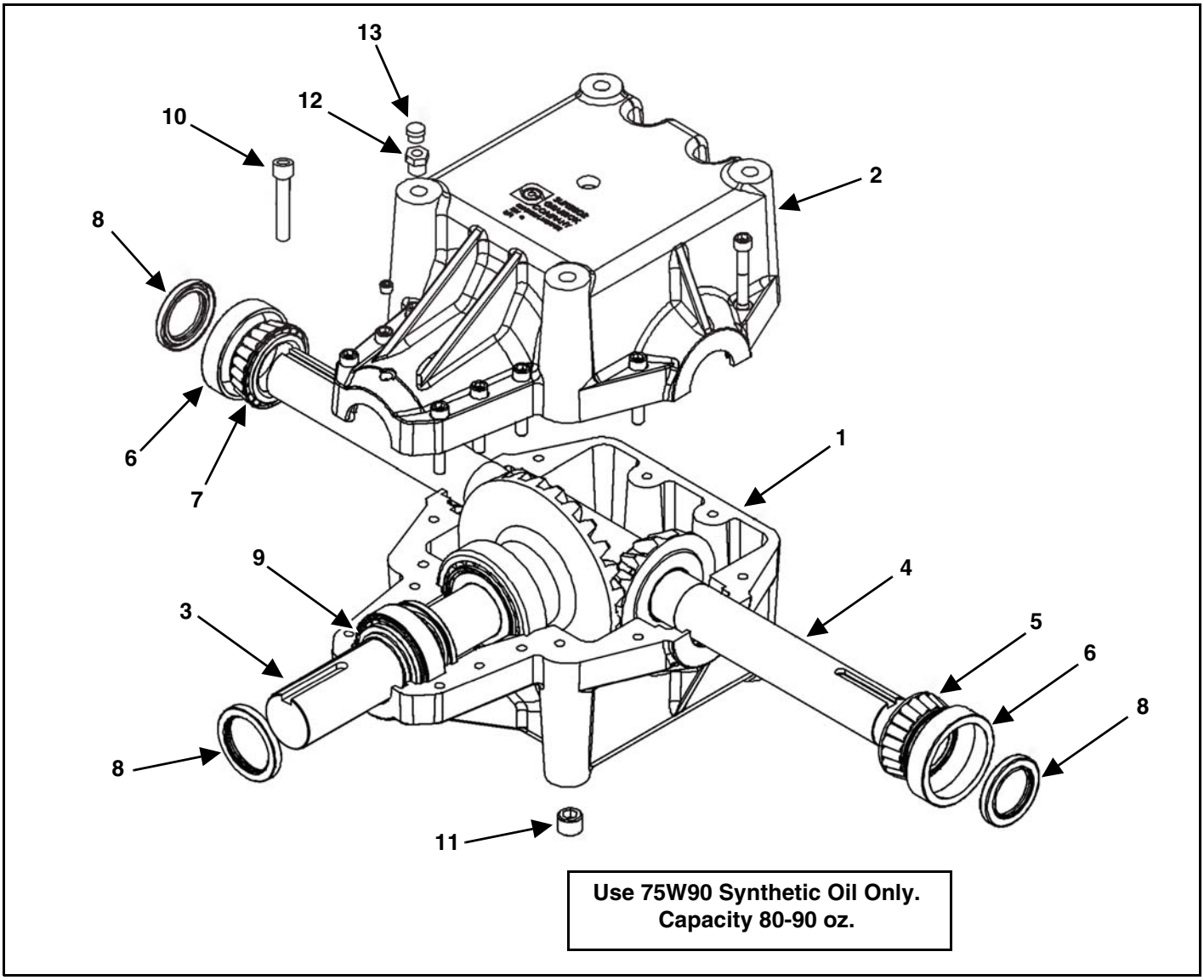
KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	See Page 70	1	Gearbox Prior to SN 18VM0585230	585
	Call 1-800-325-9103	1	Gearbox Prior to SN 18VM0700212	700
	119-R160-1.35-1	1	Gearbox SN 18VM(0585230, 0700212) & Later	585/700
2	937-0010-1	1	60B18 1-3/4” Bore Coupler Sprocket 3/8” Keyway	585/700
3	10-0108	1	60B18 1-3/4-20 Spline Bore Coupler Sprocket 3/8” Set Screw	585/700
4	See Page 71	1	Gearbox Prior to SN 18VM0585230	585
	Call 1-800-325-9103	1	Gearbox Prior to SN 18VM0700212	700
	119-R160-1.35-2	1	Gearbox SN 18VM(0585230, 0700212) & Later	585/700
5	M9-1-5-0011	1	Gearbox Mount Weldment Prior to SN 18VM0585230	585
	Call 1-800-325-9103	1	Gearbox Mount Weldment Prior to SN 18VM0700212	700
	M9-1-5-0014	1	Gearbox Mount Weldment SN 18VM(0585230, 0700212) & Later	585/700
6	M9-1-5-0011-3	1	Gearbox Mount Plate Prior to SN 18VM0585230	585
	Call 1-800-325-9103	1	Gearbox Mount Prior to SN 18VM0700212	700
	925-0550-6	1	Gearbox Mount SN 18VM(0585230, 0700212) & Later	585/700
7	M9-1-5-0013	1	Gearbox Mount Weldment Prior to SN 18VM0585230	585
	Call 1-800-325-9103	1	Gearbox Mount Weldment Prior to SN 18VM0700212	700
	M9-1-5-0013	1	Gearbox Mount Weldment SN 18VM(0585230, 0700212) & Later	585/700
8	M9-1-5-0006-8	2	Gearbox Frame Mount Plate	585/700
NS	111-0060-18-CC	1	Chain Coupler	585/700

LEFT SIDE PTO GEARBOX DRIVELINE MOUNT



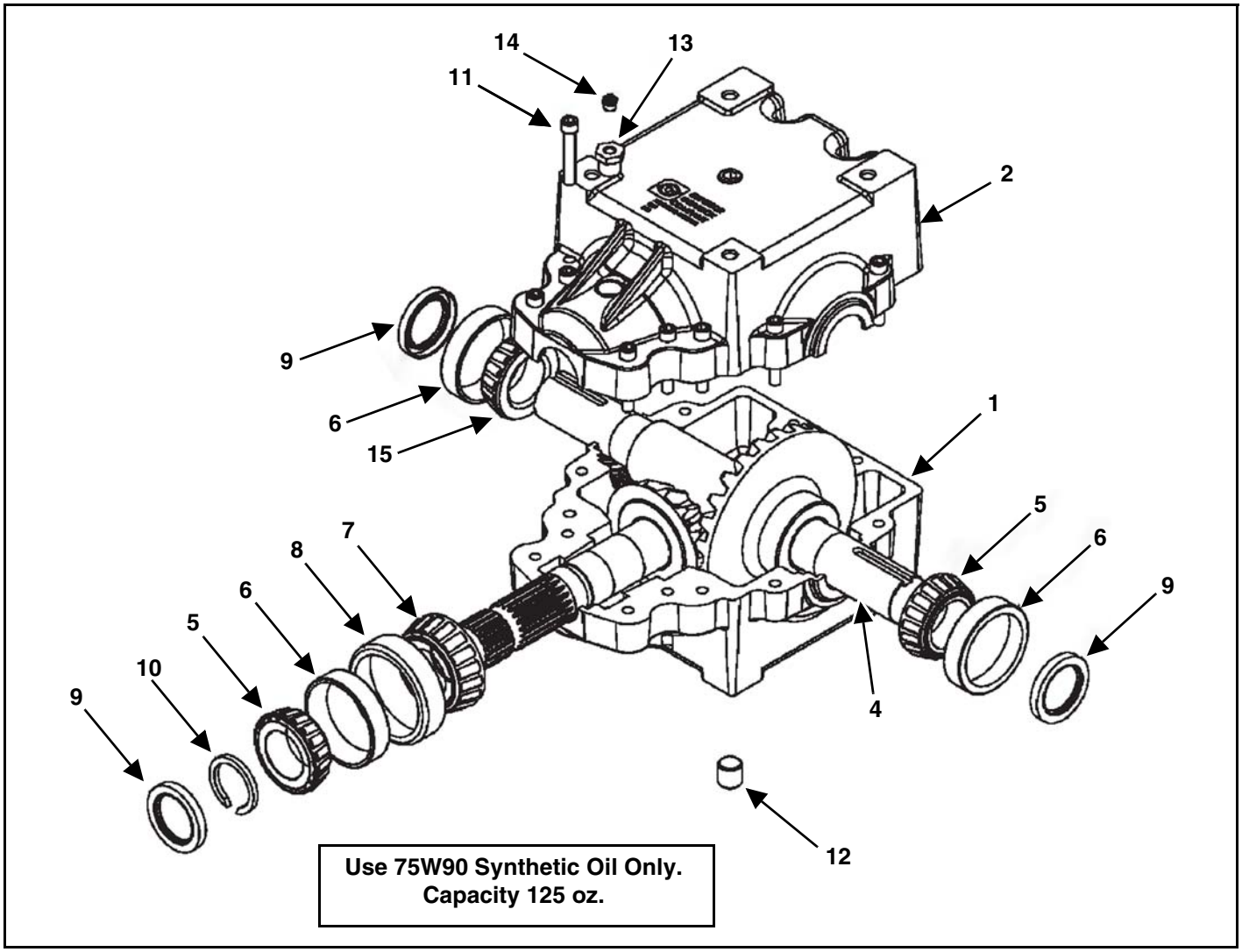
KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	See Page 70	1	Gearbox Prior to SN 18VM0585230	585
	Call 1-800-325-9103	1	Gearbox Prior to SN 18VM0700212	700
	119-R160-1.35-1	1	Gearbox SN 18VM(0585230, 0700212) & Later	585/700
2	618-0002	1	2400 Joint	585/700
3	623-0020-S-4	1	Connector Shaft	585/700
4	See Page 71	1	Gearbox Prior to SN 18VM0585230	585
	Call 1-800-325-9103	1	Gearbox Prior to SN 18VM0700212	700
	119-R160-1.35-2	1	Gearbox SN 18VM(0585230, 0700212) & Later	585/700
5	M9-1-5-0012	1	Gearbox Mount Weldment Prior to SN 18VM0585230	585
	Call 1-800-325-9103	1	Gearbox Mount Weldment Prior to SN 18VM0700212	700
	M9-1-5-0015	1	Gearbox Mount Weldment SN 18VM(0585230, 0700212) & Later	585/700
6	M9-1-5-0011-3	1	Gearbox Mount Plate Prior to SN 18VM0585230	585
	Call 1-800-325-9103	1	Gearbox Mount Prior to SN 18VM0700212	700
	925-0550-6	1	Gearbox Mount SN 18VM(0585230, 0700212) & Later	585/700
7	M9-1-5-0013	1	Gearbox Mount Weldment Prior to SN 18VM0585230	585
	Call 1-800-325-9103	1	Gearbox Mount Weldment Prior to SN 18VM0700212	700
	M9-1-5-0013	1	Gearbox Mount Weldment SN 18VM(0585230, 0700212) & Later	585/700
8	M9-1-5-0006-8	2	Gearbox Frame Mount Plate	585/700
9	618-0005	1	2400 Joint, 3/8” Key	585/700

LOWER GEARBOX PRIOR TO SN 18VM0585230



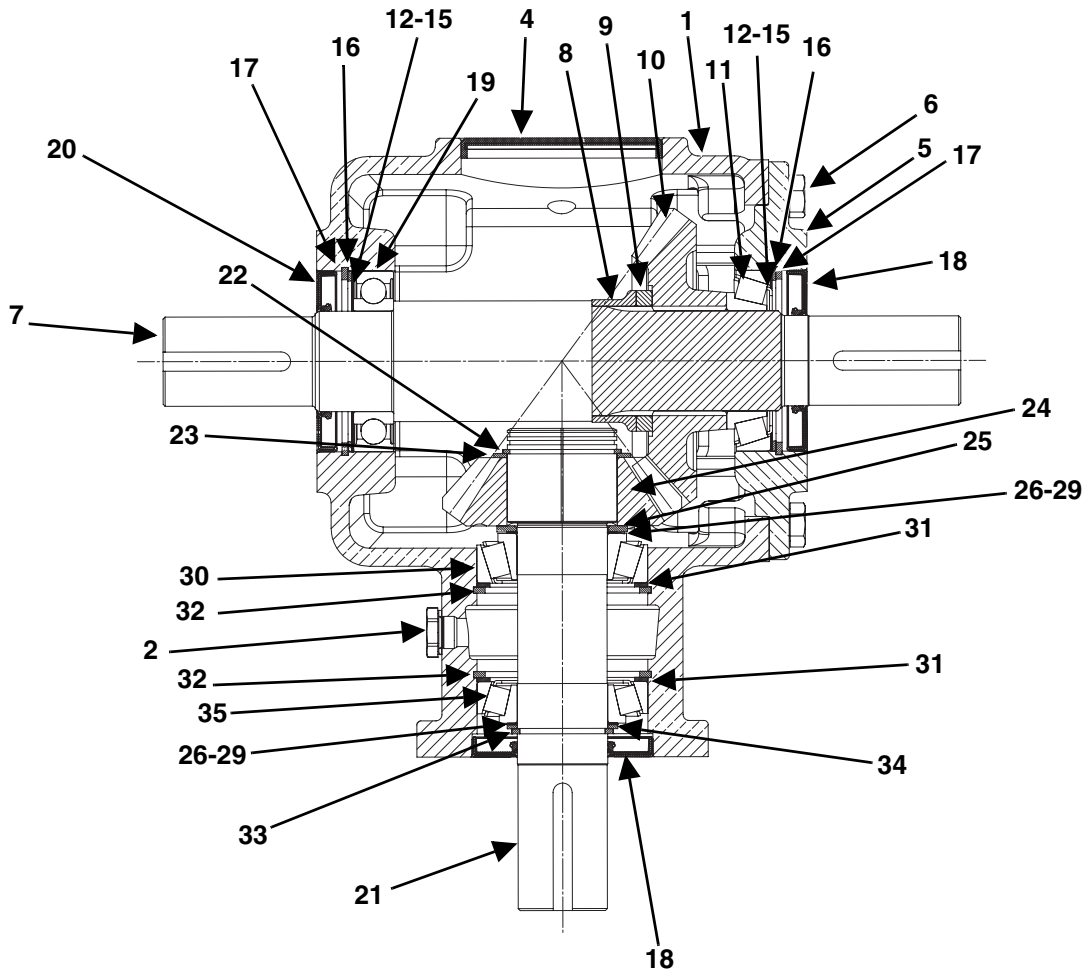
KEY	PART NUMBER	DESCRIPTION
0	19-0140	Gearbox
1	619-0010-1	Casting, Machined (Tapped Hole) 1.35:1
2	619-0010-2	Casting, Machined (Thru Holes) 1.35:1
3	19-0140-1-ASSY	Pinion Shaft Gear w/ Bearings, Cups, Seal, Retaining Ring Assembly
4	619-0010-4	Cross Shaft Gear Assembly 1.35:1
5	19-0029-7	Bearing Cone 1-3/4”
6	19-0029-8	Bearing Cup
7	19-0029-16	Bearing Cone
8	19-0029-9	Seal 1-3/4”
9	19-0029-11	Retaining Ring 1-3/4”
10	19-0016-11	Bolt, 3/8-16 x 2-1/4” SHCS
11	19-0016-5	Plug 1/2” NPT
12	19-0024-17	Bushing 1/2” to 1/8” NPT
13	19-0002-17	5 PSI Vent Plug

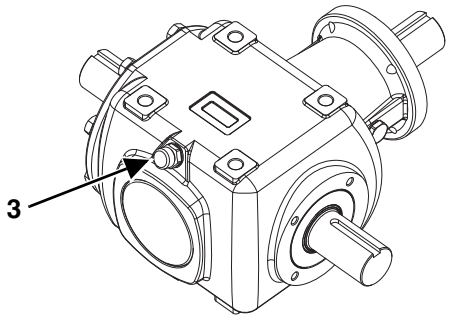
UPPER GEARBOX PRIOR TO SN 18VM0585230



KEY	PART NUMBER	DESCRIPTION
0	619-0010-SYN	Gearbox
1	619-0010-1	Casting, Machined (Tapped Hole) 1.35:1
2	619-0010-2	Casting, Machined (Thru Holes) 1.35:1
3	619-0010-3	Pinion Shaft Gear Assembly 1.35:1
4	619-0010-4	Cross Shaft Gear Assembly 1.35:1
5	19-0029-7	Bearing Cone 1-3/4”
6	19-0029-8	Bearing Cup
7	19-0029-5	Bearing Cone
8	19-0029-6	Bearing Cup
9	19-0029-9	Seal 1-3/4”
10	19-0029-11	Retaining Ring 1-3/4”
11	19-0016-11	Bolt, 3/8-16 x 2-1/4” SHCS
12	19-0016-5	Plug 1/2” NPT
13	19-0024-17	Bushing 1/2” to 1/8” NPT
14	19-0002-17	5 PSI Vent Plug
15	19-0029-16	Bearing Cup

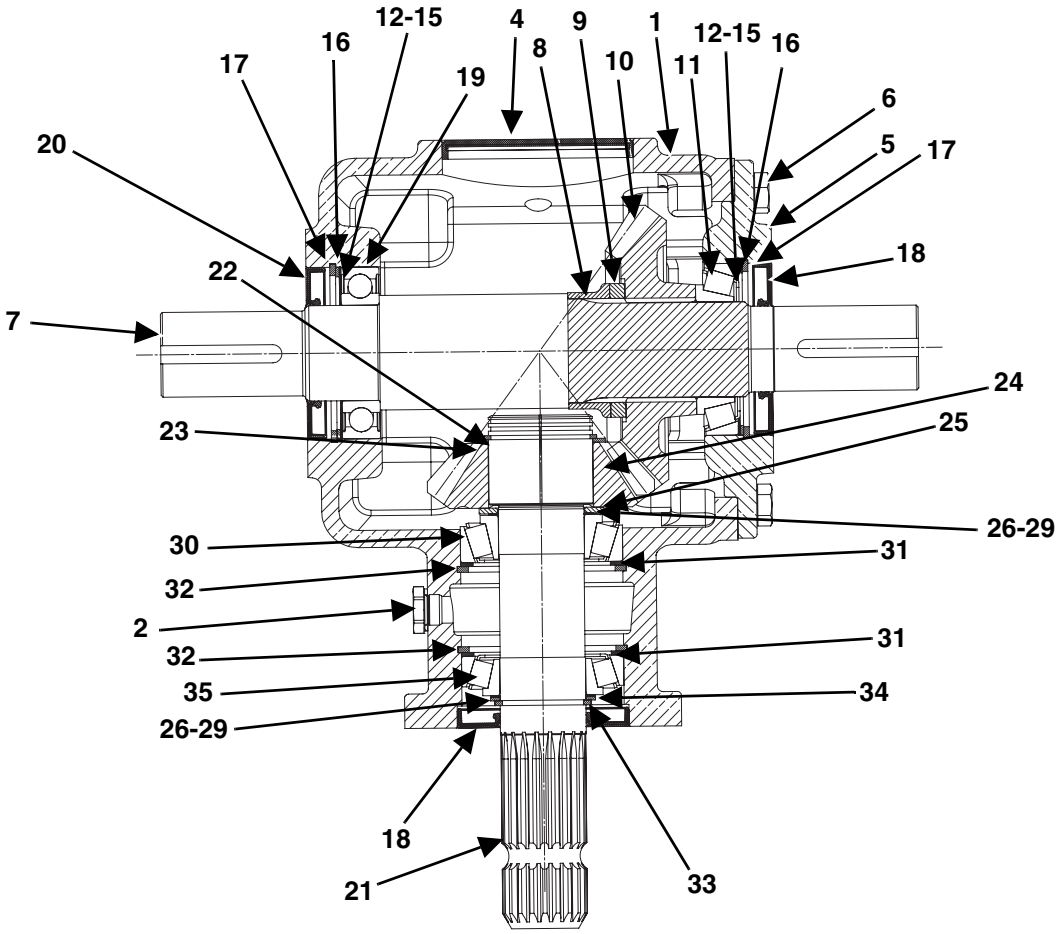
LOWER GEARBOX SN 18VM(0585230, 0700212) & LATER

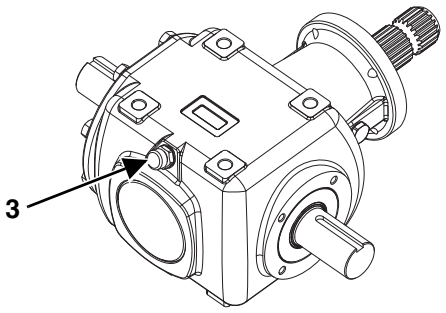




KEY	PART NUMBER	QTY	DESCRIPTION
0	119-R160-1.35-1	1	Gearbox
1	119-B-01	1	Casing
2	119-B-02	2	Oil Level / Drain Plug
3	119-B-03	1	Breather Plug
4	119-B-04	1	Cap
5	119-B-05	1	Top
6	119-B-06	8	M12-30 Bolt
7	119-B-07	1	Round Shaft
8	119-B-08	1	Spacer
9	119-B-09	1	Spacer
10	119-B-10	1	Bevel Gear
11	119-B-11	1	Taper Bearing
12	119-B-12	2	Shim
13	119-B-13	2	Shim
14	119-B-14	2	Shim
15	119-B-15	2	Shim
16	119-B-16	2	Washer
17	119-B-17	2	Circlip
18	119-B-18	2	Seal Ring
19	119-B-19	1	Roller Bearing
20	119-B-20	1	Seal Ring
21	119-B-21	1	Round Shaft
22	119-B-22	1	Circlip
23	119-B-23	1	Washer
24	119-B-24	1	Bevel Gear
25	119-B-25	1	Spacer
26	119-B-26	2	Shim
27	119-B-27	2	Shim
28	119-B-28	2	Shim
29	119-B-29	2	Shim
30	119-B-30	1	Taper Bearing
31	119-B-31	2	Washer
32	119-B-32	2	Circlip
33	119-B-33	1	Circlip
34	119-B-34	1	Washer
35	119-B-35	1	Taper Roller Bearing

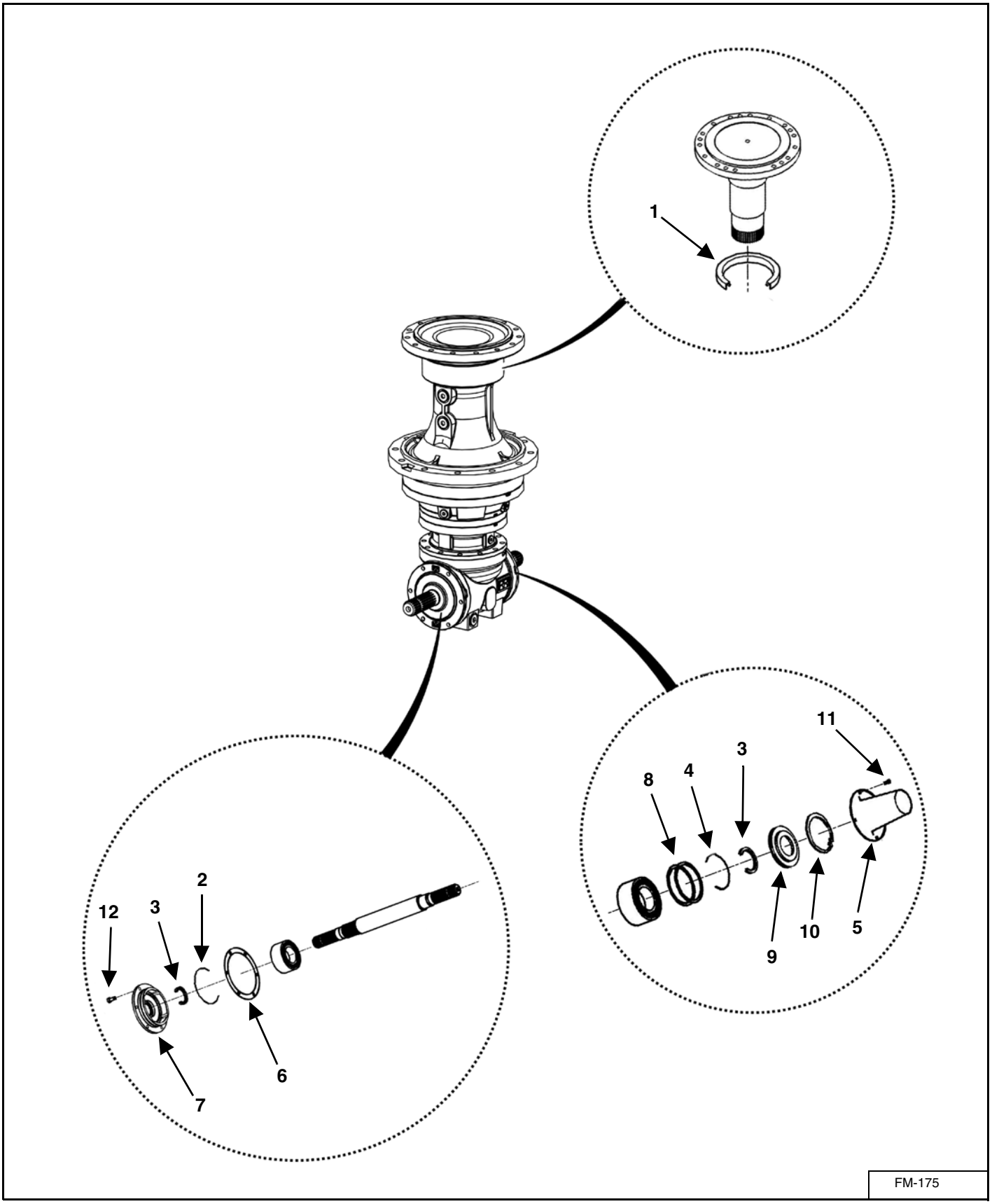
UPPER GEARBOX SN 18VM(0585230, 0700212) & LATER





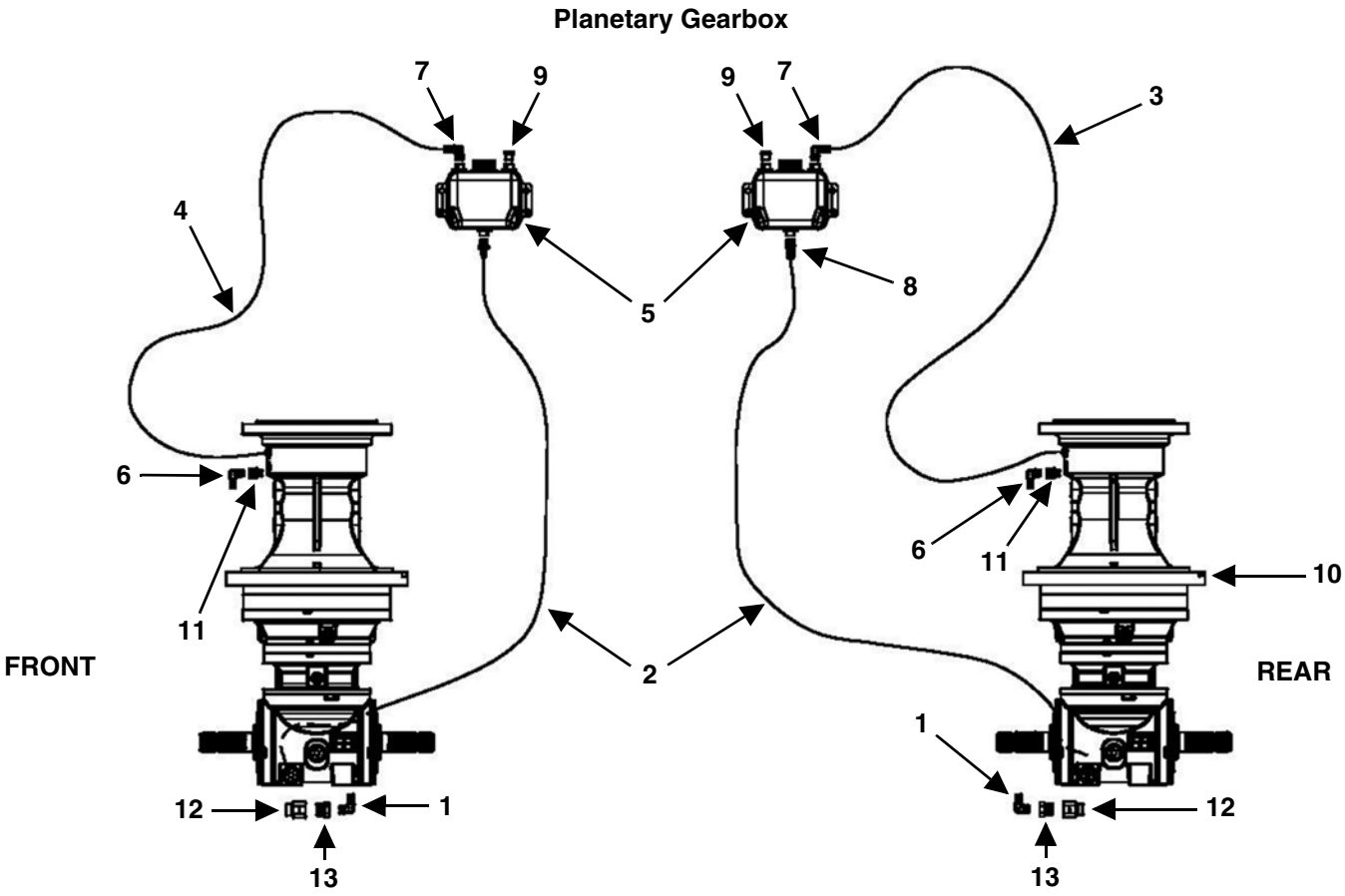
KEY	PART NUMBER	QTY	DESCRIPTION
0	119-R160-1.35-2	1	Gearbox
1	119-B-01	1	Casing
2	119-B-02	2	Oil Level / Drain Plug
3	119-B-03	1	Breather Plug
4	119-B-04	1	Cap
5	119-B-05	1	Top
6	119-B-06	8	M12-30 Bolt
7	119-B-07	1	Round Shaft
8	119-B-08	1	Spacer
9	119-B-09	1	Spacer
10	119-B-10	1	Bevel Gear
11	119-B-11	1	Taper Bearing
12	119-B-12	2	Shim
13	119-B-13	2	Shim
14	119-B-14	2	Shim
15	119-B-15	2	Shim
16	119-B-16	2	Washer
17	119-B-17	2	Circlip
18	119-B-18	2	Seal Ring
19	119-B-19	1	Roller Bearing
20	119-B-20	1	Seal Ring
21	119-B-36	1	Round Shaft
22	119-B-22	1	Circlip
23	119-B-23	1	Washer
24	119-B-24	1	Bevel Gear
25	119-B-25	1	Spacer
26	119-B-26	2	Shim
27	119-B-27	2	Shim
28	119-B-28	2	Shim
29	119-B-29	2	Shim
30	119-B-30	1	Taper Bearing
31	119-B-31	2	Washer
32	119-B-32	2	Circlip
33	119-B-33	1	Circlip
34	119-B-34	1	Washer
35	119-B-35	1	Taper Roller Bearing

1800 SERIES PLANETARY (119-18-13.92-1)



KEY	PART NUMBER	QTY	DESCRIPTION
1	119-P-RR-1	1	Oil Seal
2	119-P-RR-5	1	O-Ring
3	119-P-RR-6	2	Oil Seal
4	119-P-RR-7	1	O-Ring
5	119-P-RR-13	1	Shaft Protection Shield
6	119-P-RR-14	2	Thickness Kit
7	119-P-RR-15	1	Cover
8	119-P-RR-16	2	Thickness Kit
9	119-P-RR-17	1	Cover
10	119-P-RR-18	1	Snap Ring
11	851-M5-.8-10-YZ	4	Cap Screw
12	851-M10-1.5-25-Z	6	Machine Bolt

HOSE FITTING HYDRAULIC SYSTEM

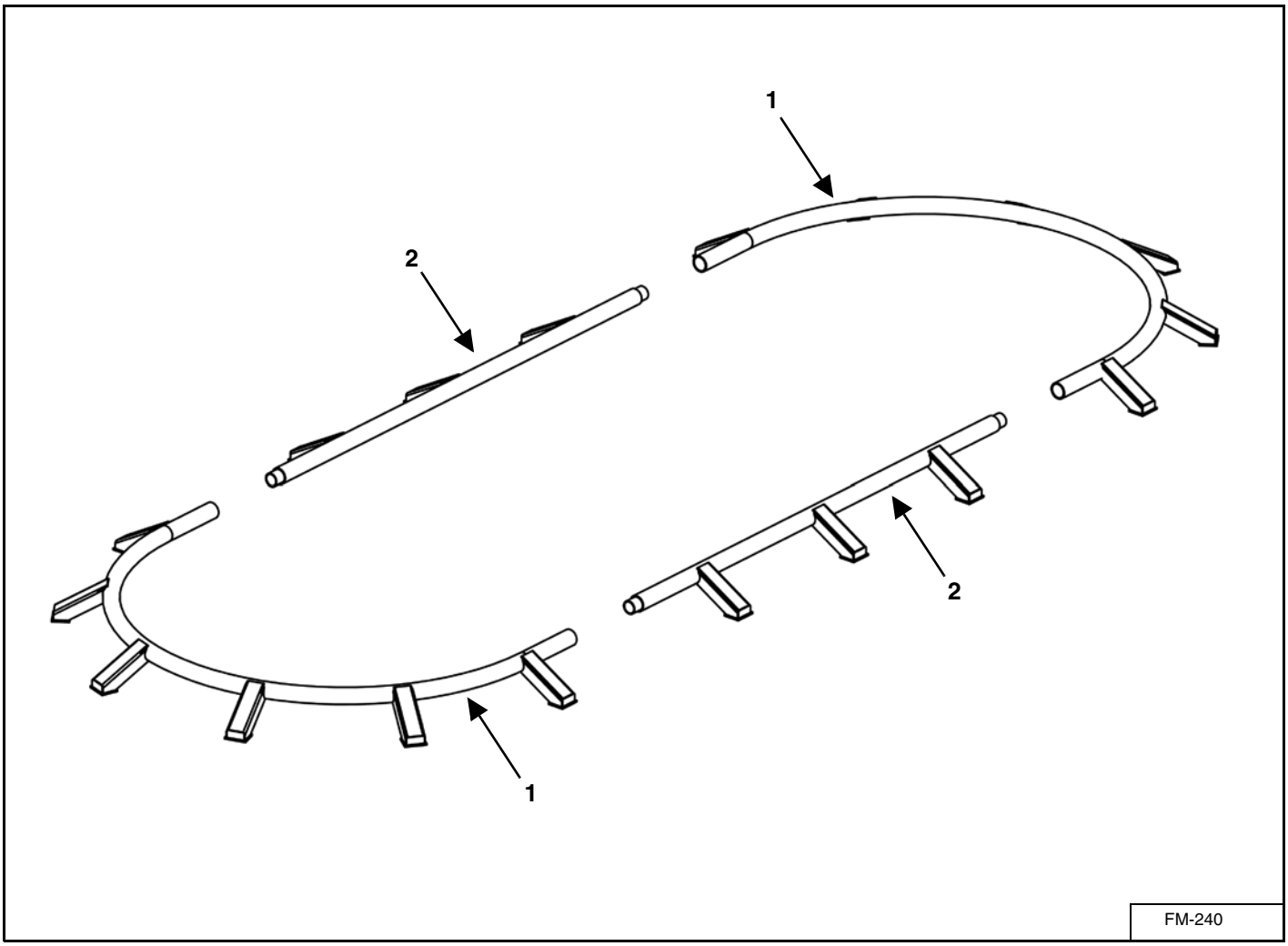


Use #48-0081 Synthetic ISO220 or Equivalent For Planetary Gearboxes.

KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	55-0404	2	1/2” x 3/8” BRS 90° Elbow Barb	585/700
2	155-2231-08	108”	1/2 ID x 3/4” OD Push On Hose, Rear (2 Places)	585/700
3	155-2231-08	121”	1/2 ID x 3/4” OD Push On Hose	585/700
4	155-2231-08	130”	1/2” ID x 3/4” OD Push On Hose	585/700
5	952-0003	2	2 QT Plastic Tank With Vented Cap	585/700
6	55-0403	2	1/2” x 1/4” BRS 90° Elbow	585/700
7	55-0404	2	1/2” x 3/8” BRS MA Barb Hose	585/700
8	55-0405	2	1/2” x 3/8” BRS MA Barb Hose	585/700
9	55-0307	2	Breather Vent 3/8” Pipe x 11/16” Hex 150 PSI	585/700
10	See Page 76	2	1800 Planetary Gearbox 13.92:1 Ratio 1.75-20 SPL	585/700
11	155-PB4-4	2	#4NPT FEMx4BSPP Adapter With BSP Bonded Seal	585/700
12	155-PB12-12	2	#12NPT FEMx12BSPP Adapter W/BSP Bonded Seal	585/700
13	155-5406-12-6	2	12MP-6FP Pipe Reducer Bushing 3/4”-3/8”	585/700
NS	32-0048	AR	Hose Clamps	585/700

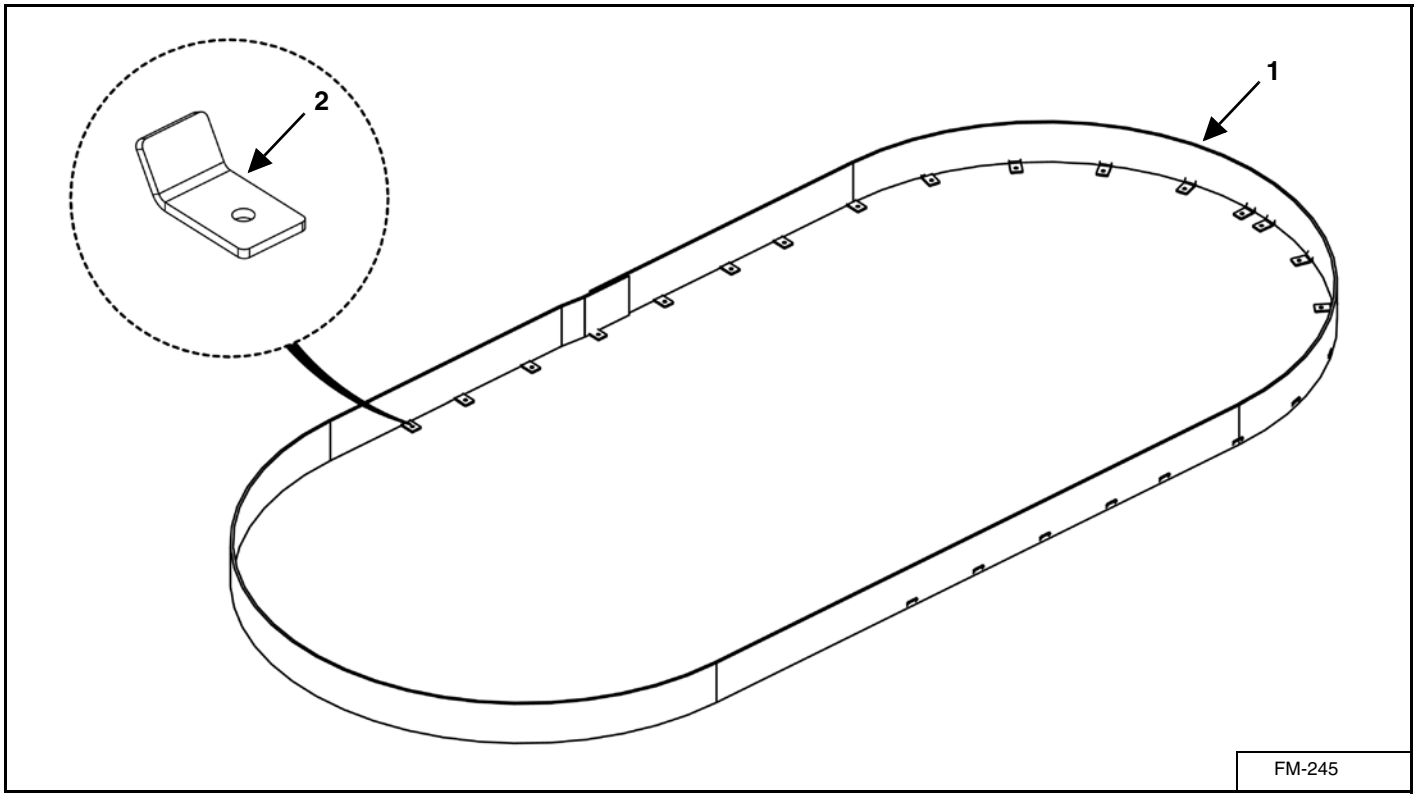
OPTIONAL EQUIPMENT

HAY RETAINING RING



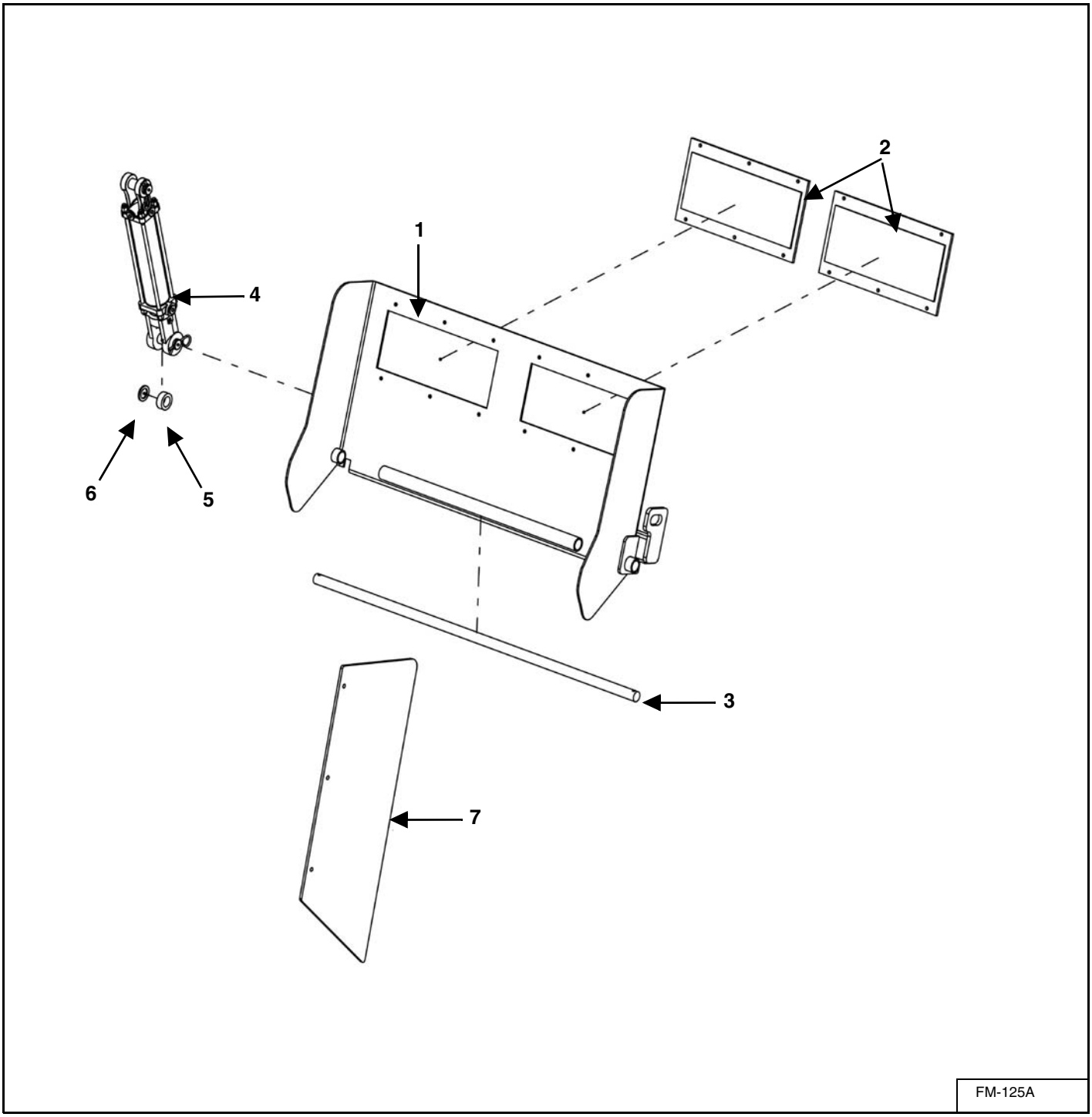
KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	M4-1-5-0001	2	Hay Retention Ring End Weldment	585
	M4-1-7-0001	2	Hay Retention Ring End Weldment	700
2	M4-1-7-0002	2	Hay Retention Ring Side Weldment	585/700
NS	851-5013-1.25Z	AR	1/2”-13 x 1-1/4” Bolt	585/700
NS	805-0050-Z	AR	1/2” Flat Washer	585/700
NS	810-5013-Z	AR	1/2” Spin Lock Nut	585/700

8” CAPACITY EXTENSION



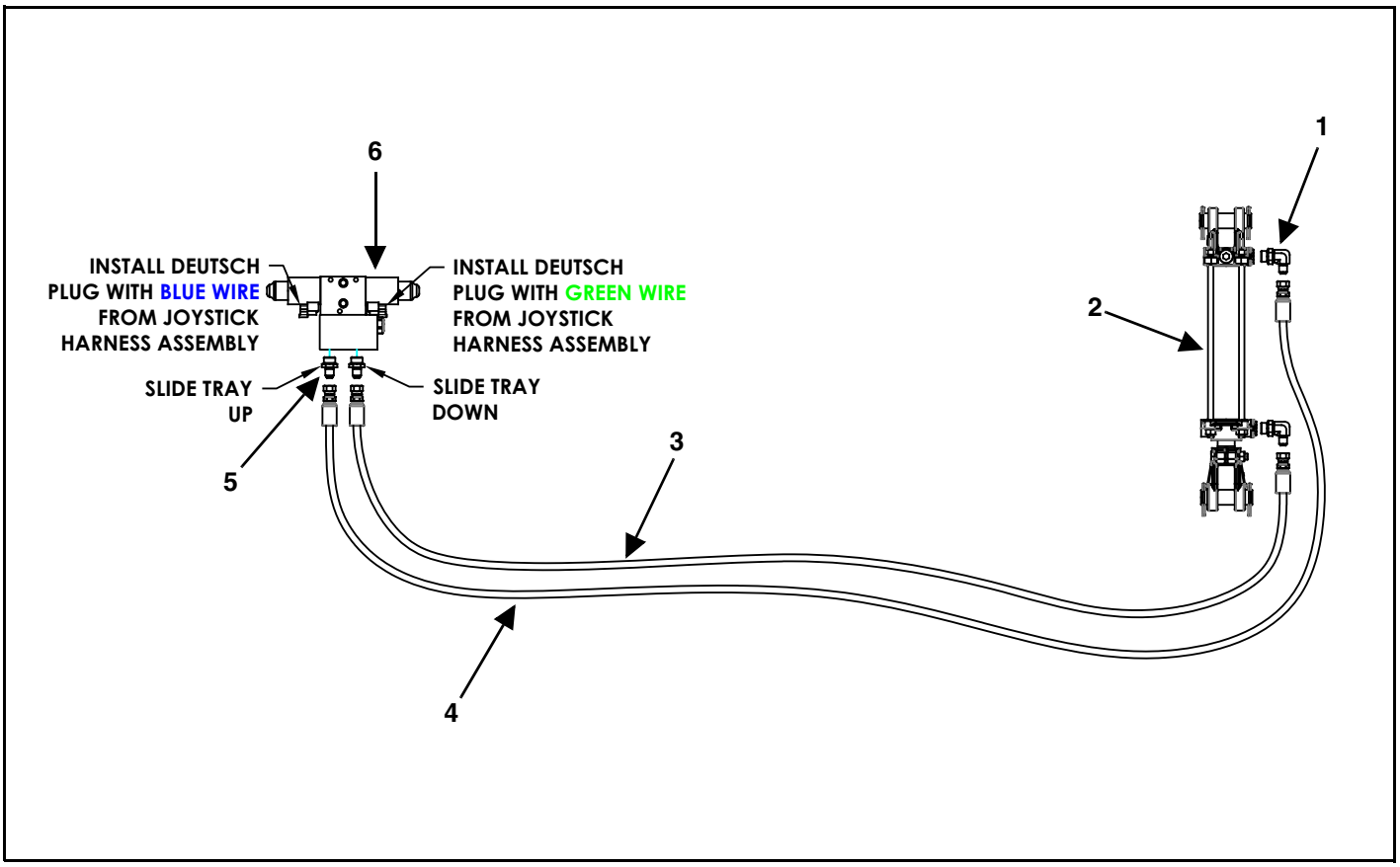
KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
0	VA-0585-CE-8	1	8” Capacity Extension Assembly	585
	VA-0700-CE-8	1	8” Capacity Extension Assembly	700
1	M11-5-0001	1	8” Capacity Extension .453” x 8” x 45 FT	585
	M11-7-0001	1	8” Capacity Extension .453” x 8” x 46 FT	700
	805-0038-Z	4	3/8 Flat Washer	585/700
	815-3816-Z	2	3/8-16 Nylon Insert Lock Nut	585/700
	851-3816-1.25Z	2	3/8-16 x 1-1/4 Grade 5 Machine Bolt	585/700
2	M4-1-8-0006	38	Belt Extension Mounts	585/700
	805-0050-Z	38	1/2 Flat Washer	585/700
	814-5013-Z	38	1/2-13 Indented Lock Nut	585/700
	851-5013-1.5Z	38	1/2-13 x 1-1/2 Grade 5 Machine Bolt	585/700

SIDE DISCHARGE SLIDE TRAY



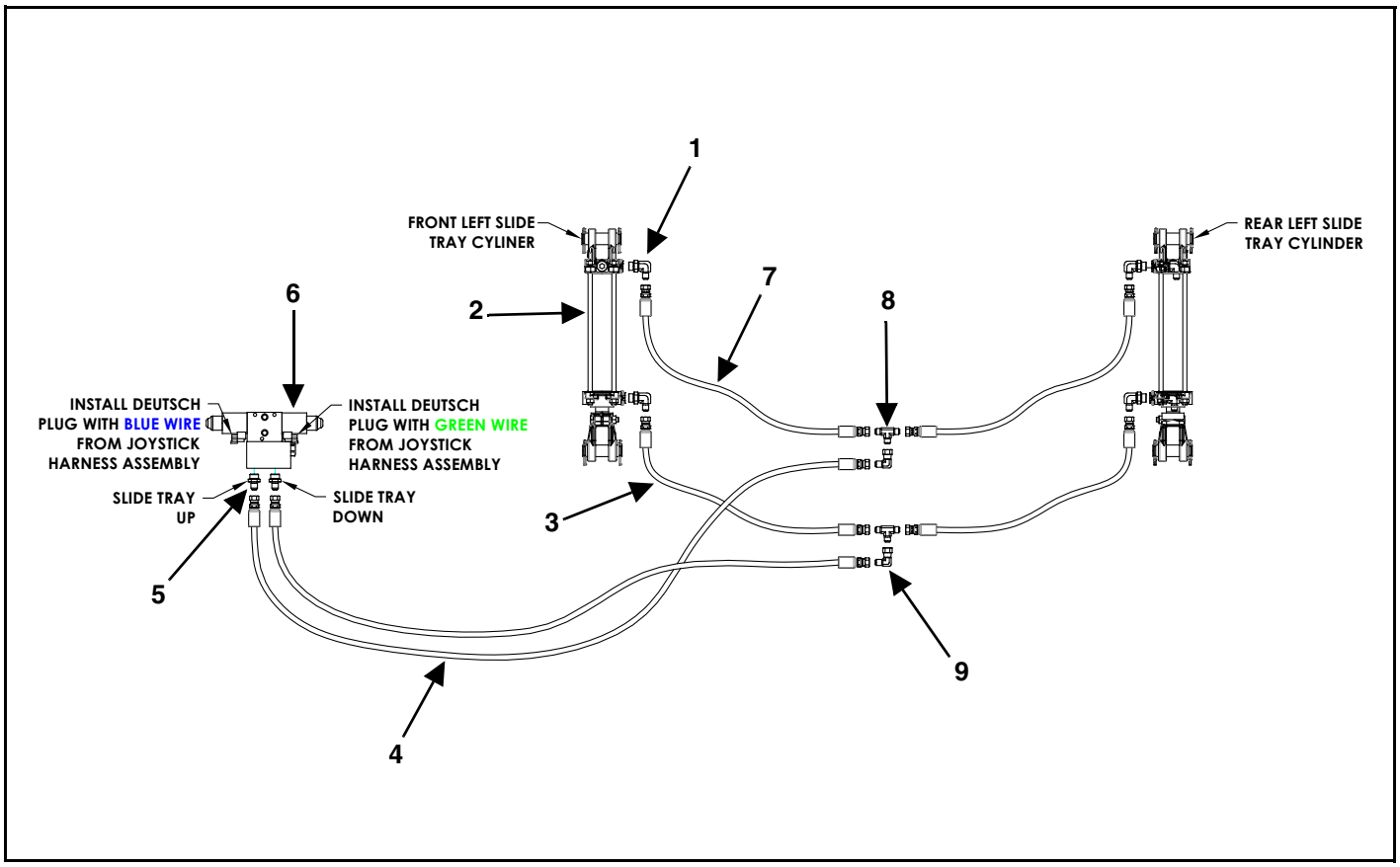
KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	M3-1-12-0006	1	42” Slide Tray Weldment	585/700
2	M11-1-0009	2	18-1/2” Discharge Magnet	585/700
	802T-3118-.75Z	16	5/16-18 x 3/4” Screw	585/700
	810-3118-Z	16	5/16-18 Spin Lock Nut	585/700
3	M3-1-12-0008	1	Chute Pivot Rod 1” x 47-3/4”	585/700
4	155-2-8-1.125-1	1	2” x 8” x 1-1/8” Hydraulic Cylinder #8 SAE Ports	585/700
5	33-0309	1	Cylinder Pin Spacer	585/700
6	808-1-1.5-10-Z	1	10GA 1” ID x 1-1/2” OD MB	585/700
7	M3-1-4-0044	1	Slide Tray Deflector Belting	585/700
	805-0038-Z	3	3/8” Flat Washer	585/700
	815-3816-Z	3	3/8-16 Nylon Insert Lock Nut	585/700
	850-3816-1Z	3	3/8-16 x 1” Bolt	585/700

SLIDE TRAY HYDRAULIC SCHEMATIC



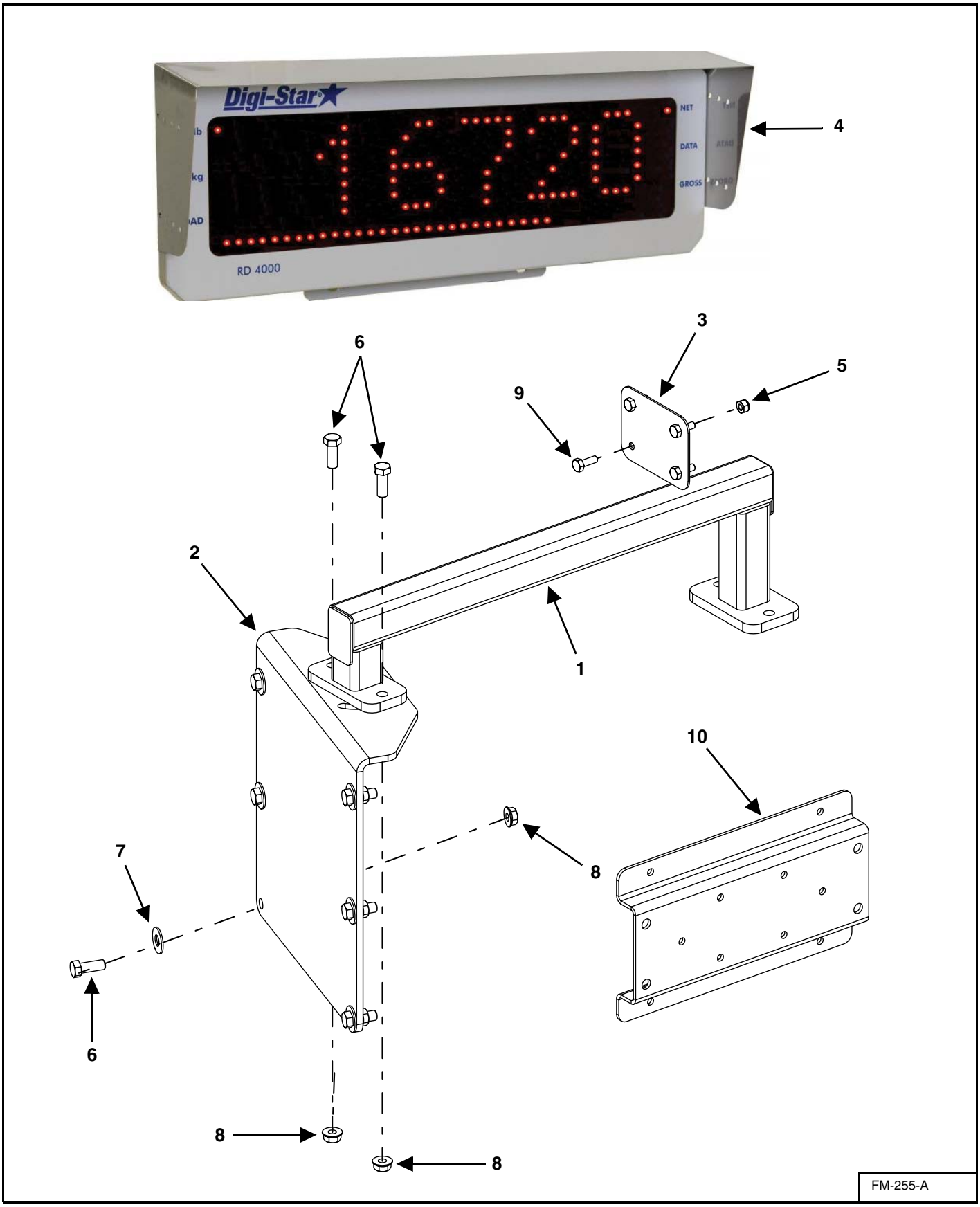
KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	155-6801-6-8	2	90 Degree Adapter	585/700
2	155-2-8-1.125-1	1	2” x 8” x 1-1/8” Hydraulic Cylinder	585/700
3	155-04R17-173-1	1	1/4” x 173” Hose Assembly	585/700
4	155-04R17-185-1	1	1/4” x 185” Hose Assembly	585/700
5	155-6400-6-8	2	Straight Adapter	585/700
6	155-M-0002	1	Cylinder Valve Bank	585/700

DUAL SLIDE TRAY HYDRAULIC SCHEMATIC



KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
1	155-6801-6-8	2	90 Degree Adapter	585/700
2	155-2-8-1.125-1	2	2” x 8” x 1-1/8” Hydraulic Cylinder	585/700
3	155-04R17-59-1	2	1/4” x 59” Hose Assembly	585/700
4	155-04R17-144-1	2	1/4” x 144” Hose Assembly	585/700
5	155-6400-6-8	2	Straight Adapter	585/700
6	155-M-0002	1	Cylinder Valve Bank	585/700
7	155-04R17-70-1	2	1/4” x 70” Hose Assembly	585/700
8	155-2603-06-06-06	2	Tee Connector	585/700
9	155-6500-06-06	2	90 Degree Connector	585/700

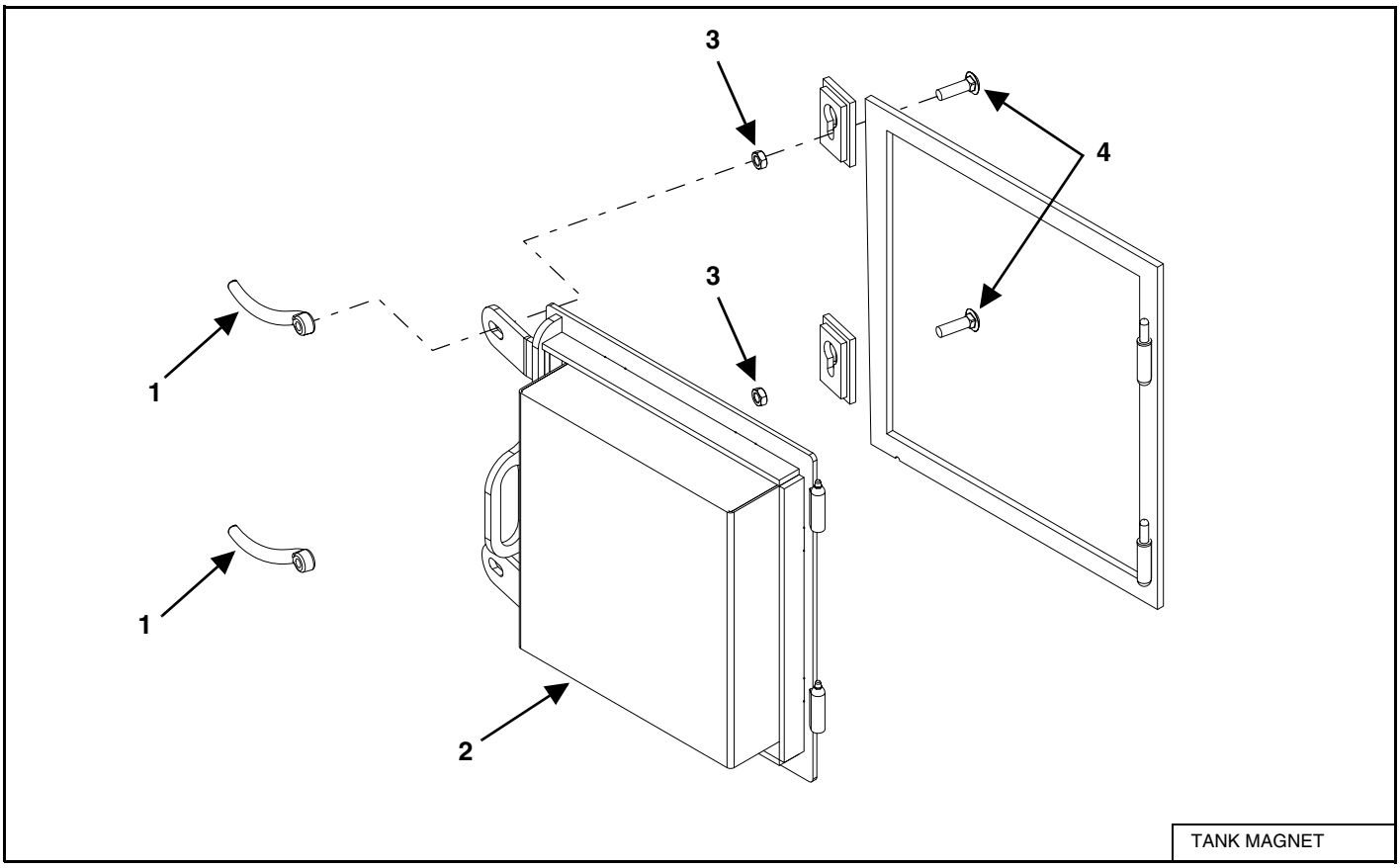
REMOTE SCALE MOUNT



FM-255-A

KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
0	VMSCM-405180	1	Remote Display Kit RD400 With TR Kit & 33’ Cable/Visor	585/700
	VMSCM-405200	1	Remote Display Kit RD400 With 33’ Cable/Visor	585/700
	VMSCM-407227	1	Remote Display Kit RD250 With 25’ Cable	585/700
1	M9-1-10-0001	1	Remote Scale Mount Bracket Weldment	585/700
2	M9-1-10-0002	1	Remote Scale Mount Bracket	585/700
3	M9-1-10-0003	1	Remote Scale Mount Belt Gusset	585/700
4	58-0010-407227	1	RD2500V Remote Display Kit W/25’ Cable/Visor	585/700
	58-0010-405200	1	RD4000 Remote Display Kit W/33’ Cable/Visor	585/700
5	815-2520-Z	4	1/4-20 Nylon Insert Lock Nut	585/700
6	851-3816-1Z	8	3/8-16 x 1” Grade 5 Machine Bolt	585/700
7	805-0038-Z	6	3/8” Flat Washer	585/700
8	810-3816-Z	8	3/8” Spin Lock Nut	585/700
9	851-2520-.75Z	4	1/4-20 x 3/4” Grade 5 Machine Bolt	585/700
10	M9-1-8-0010	1	Adapter Plate	585/700
NS	58-0010-1	1	Remote Cable, Y-Harness For Dual Remote	585/700 (Optional)

TANK MAGNET



KEY	PART NUMBER	QTY	DESCRIPTION	MIXER MODEL
0	VAM-TM-KIT	1	Tank Magnet Install Kit	585/700
1	33-0028	2	1/2-13 Handle Nut	585/700
2	M11-10-0012-2	1	Tank Magnet Door Weldment	585/700
3	826-5013	2	1/2-13 Jam Nut	585/700
4	850-5013-1.75Z	2	1/2-13 x 1-3/4" Carriage Bolt	585/700

10.0 SPECIFICATIONS

10.1 MODELS F585, F700

DIMENSIONS	F585	F700
Overall Length - side door	270”	288”
Mixing Chamber Length	212”	217”
Max Discharge Reach - Side Slide Tray	21”	21”
Max Discharge Height - Side Slide Tray	15”	15”

SPECIFICATIONS	F585	F700
Mixing Capacity - no extensions	585 Cu. Ft.	693 Cu. Ft.
Mixing Capacity - extensions	647 Cu. Ft.	760 Cu. Ft.
Unit Weight - side discharge - lbs (Option Sensitive)	~12,020	N/A
Maximum Net Load - lbs	19,410	22,800
Auger Qty.	2	2
Auger Diameter	88”	88”
Auger Speed - standard / high speed	27 / 40 RPM	27 / 40 RPM
Auger - Upper Flighting Thickness	5/8”	5/8”
Auger - Lower Flighting Thickness	5/8”	5/8”
Auger - Knives - adjustable - per auger	5	6
Planetary Drive	straight-drive	straight-drive
PTO Drive	1800 RPM	1800 RPM
Drive Protection	torque-disconnect	torque-disconnect
Discharge Door Opening - Side	42” x 40”	42” x 40”
Discharge Door Opening - Rear	42” x 40”	42” x 40”
Tub - Floor Thickness	5/8”	5/8”
Tub - Sidewall Thickness	1/4”	1/4”
Tub / Truck - Scale System	4-point	4-point
Min. Truck Requirement - HP	300	300


MEYER
FORMULA

MAINTENANCE RECORD

MODEL NO. _____ **SERIAL NO.** _____

DATE	SERVICE PERFORMED

DATE	SERVICE PERFORMED

Manufactured by:

Meyer Manufacturing Corporation
674 W. Business Cty Rd A
Dorchester, WI 54425
Phone: 1-800-325-9103
Fax: 715-654-5513
Email: sales@meyermfg.com
Website: www.meyermfg.com

MEYER MFG. CORP.

PRODUCT MANUALS

Meyer Manufacturing Corporation
674 W. Business Cty Rd A
Dorchester, WI 54425
Phone: 1-800-325-9103
Fax: 715-654-5513
Email: sales@meyermfg.com
Website: www.meyermfg.com