



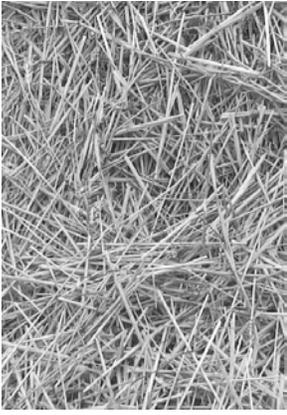
HAYBUSTER[®]

CMF-700[™]
VERTICAL
MIXER

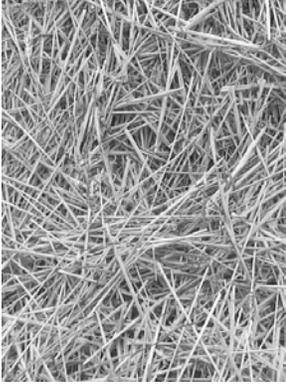
S.N. UP TO 0012

**Operating Instructions
and Parts Reference**





HAYBUSTER[®]
A Tradition of Innovation Since 1966



CMF-700TM **VERTICAL** **MIXER**

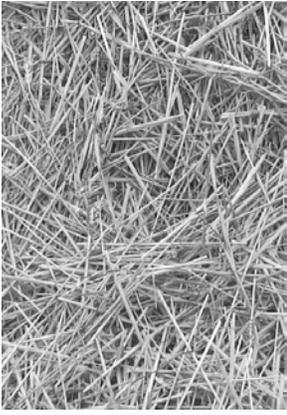
S.N. UP TO 0012

Operating Instructions and Parts Reference

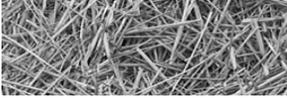
DuraTech Industries International Inc. (DuraTech Industries) has made every effort to assure that this manual completely and accurately describes the operation and maintenance of the *CMF-700TM* as of the date of publication. DuraTech Industries reserves the right to make updates to the machine from time to time. Even in the event of such updates, you should still find this manual to be appropriate for the safe operation and maintenance of your unit.

This manual, as well as materials provided by component suppliers to DuraTech Industries are all considered to be part of the information package. Every operator is required to read and understand these manuals, and they should be located within easy access for periodic review.

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A Tradition of Innovation Since 1966



Foreword

All personnel must read and understand the following sections before operating the *CMF-700 VERTICAL MIXER*.

Appropriate use of unit\Introduction

Your model CMF-700 is designed to cut, mix and distribute feed rations including baled forage. It is designed for all bale sizes and ration moisture contents.

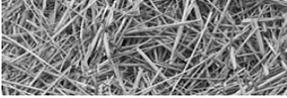


To avoid possible damage to the machine and risk of injury to the operator, consult with a DuraTech Industries International, Inc. (DuraTech Industries) representative before attempting to mix and distribute materials other than livestock forage.

The CMF-700 is used to mix hay and forage with grain and other supplements to feed livestock. The front conveyor with optional left, right or tandem discharge makes distribution of forage mix easier.

Statement of Misuse

This vertical mixer is not to be used for any purpose other than for which it is intended as explained in the operator's manual, advertising material and other pertinent written material prepared by DuraTech Industries. Any machine subject to misuse may cause personal injury or death, and void manufactures warranty.



FOREWORD

Purpose

The purpose of this owner's manual is to explain maintenance requirements and routine adjustments for the most efficient operation of your CMF-700. There is also a trouble shooting section that may help in case of problems in the field. Any information not covered in this manual may be obtained from your dealer.



Special Note: When reference is made as to front, rear, right hand or left hand of this machine, the reference is always made from standing at the rear end of the machine and looking towards the hitch. Always use serial number and model number when referring to parts or problems. Please obtain your serial number and write it below for your future reference.

MODEL: CMF-700 VERTICAL MIXER SERIAL NO _____

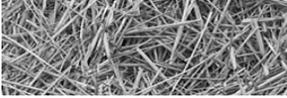
How to use this manual

Manual organization

This manual is organized into the following parts:

- **Part 1:** Operating Manual explains how to set up, use and maintain the CMF-700 VERTICAL MIXER.
 1. Section 1: Safety
 2. Section 2: Dealer Preparation
 3. Section 3: Operation
 4. Section 4: Lubrication
 5. Section 5: Troubleshooting
 6. Section 6: Options
 7. Section 7: Maintenance

- **Part 2:** Parts Reference contains diagrams of each assembly, with the part number of each part. A key on the facing page contains a description of the part and the quantity used.
 1. The **parts reference** section can be found towards the back of this manual behind **Appendix B**.

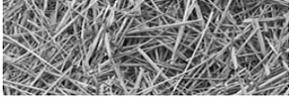


Dealer responsibilities

- Read Section 2, “Dealer Preparation,” and perform the tasks outlined. Also perform a pre-operation inspection as described in Section 3.
- Upon delivery of the unit to the customer, it is your responsibility to conduct a training session on the safe operation of the unit for primary operator(s). You must also conduct a “walk-around” inspection of all safety instructional decals on the machine itself. Decals are illustrated in **Part 2: Parts Reference**.
- Complete and return the Warranty Registration Card. Receipt of this form is required to activate the warranty. **Appendix A** provides details of the warranty.

Operator responsibilities

- Operator is responsible for his safety.
- Operator is also responsible for the safety of others near the machine.
- Review Section 2, “Dealer Preparation,” to verify that the machine has been prepared for use.
- Thoroughly review sections 1 and 3, which explain normal operation of the machine, and section 4, which explains maintenance requirements.
- Note the important safety information in the Forward and Section 1, “Safety”
- Keep copies of all manuals in a readily accessible location for future reference



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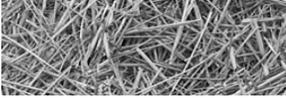


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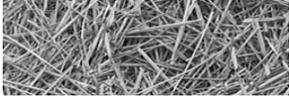
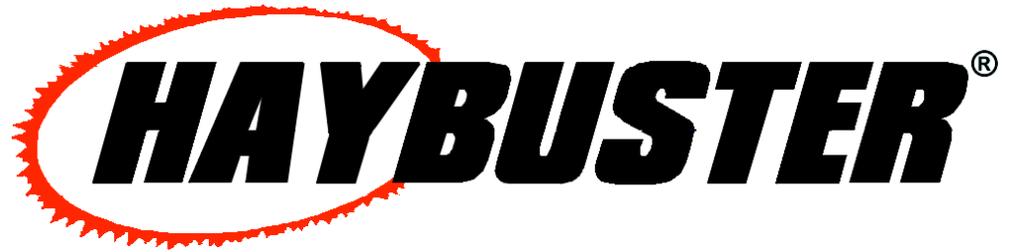
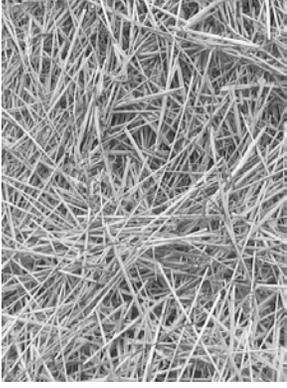


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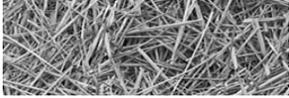
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CMF-700TM
VERTICAL
MIXER

S.N. UP TO 0012

**PART 1: Operating
Instructions**



Section 1: Safety

The safety of the operator is of great importance to DuraTech Industries. We have provided decals, shield and other safety features to aid you in using your machine safely. In addition, we ask you to be a careful operator who will properly use and service your Haybuster equipment.



WARNING: FAILURE TO COMPLY WITH SAFETY INSTRUCTIONS THAT FOLLOW WITHIN THIS MANUAL COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH. BEFORE ATTEMPTING TO OPERATE THIS MACHINE, CAREFULLY READ ALL INSTRUCTIONS CONTAINED WITHIN THIS MANUAL. ALSO READ THE INSTRUCTION MANUAL PROVIDED WITH YOUR TRACTOR.

THIS MACHINE IS NOT TO BE USED FOR ANY OTHER PURPOSE OTHER THAN THOSE EXPLAINED IN THE OPERATOR'S MANUAL, ADVERTISING LITERATURE OR OTHER DURATECH INDUSTRIES WRITTEN MATERIAL PERTAINING TO THE CMF-700.

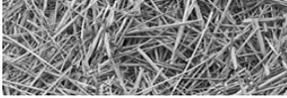
1.1 Safety-alert symbols

Decals are illustrated in **Part 2: Parts Reference**.

The safety decals located on your machine contain important and useful information that will help you operate your equipment safely.

To assure that all decals remain in place and in good condition, follow the instructions below:

- Keep decals clean. Use soap and water - not mineral spirits, adhesive cleaners and other similar cleaners that will damage the decal.
- Replace all damaged or missing decals. When attaching decals, surface temperature of the machine must be at least 40° F (5° C). The surface must be also be clean and dry.
- When replacing a machine component to which a decal is attached, be sure to also replace the decal.



DuraTech Industries uses industry accepted **ASAE** standards in labeling its products for safety and operational characteristics.



Safety-Alert Symbol

Read and recognize safety information. Be alert to the potential for personal injury when you see this safety-alert symbol.

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 the most extreme situations, typically for machine components that, 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.

This manual uses the symbols to the right to denote important safety instructions and information.

The **DANGER**, **WARNING** and **CAUTION** symbols are used to denote conditions as stated in the text above. Furthermore, the text dealing with these situations is surrounded by a box with a white background, will begin with **DANGER**, **WARNING**, or **CAUTION**.

The **INFORMATION** symbol is used to denote important information or notes in regards to maintenance and use of the machine. The text for this information is surrounded by a box with a light grey background, and will begin with either **Important** or **Note**.



DANGER:

Signal word - White Lettering/Red Background

Safety Alert Symbol - White Triangle/Red Exclamation Point



WARNING:

Signal word - Black Lettering/Orange Background

Safety Alert Symbol - Black Triangle/Orange Exclamation Point

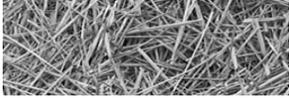


CAUTION:

Signal word - Black Lettering/Yellow Background

Safety Alert Symbol - Black Triangle/Yellow Exclamation Point





1.2 Operator - personal equipment

THE OPERATOR

Physical Condition

You must be in good physical condition and mental health and not under the influence of any substance (drugs, alcohol) which might impair vision, dexterity or judgment.

Do not operate a **CMF-700 VERTICAL MIXER** when you are fatigued. Be alert - If you get tired while operating your **CMF-700 VERTICAL MIXER**, take a break. Fatigue may result in loss of control. Working with any farm equipment can be strenuous. If you have any condition that might be aggravated by strenuous work, check with your doctor before operating

Proper Clothing



Clothing must be sturdy and snug-fitting, but allow complete freedom of movement. Avoid loosefitting jackets, scarfs, neckties, jewelry, flared or cuffed pants, unconfined long hair or anything that could become entangled with the machine.



Protect your hands with gloves when handling flail and sections. Heavyduty, nonslip gloves improve your grip and protect your hands.



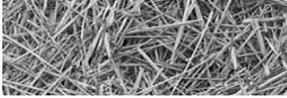
Good footing is most important. Wear sturdy boots with nonslip soles. Steel-toed safety boots are recommended.



To reduce the risk of injury to your eyes never operate a **CMF-700 VERTICAL MIXER** unless wearing goggles or properly fitted safety glasses with adequate top and side protection.



Tractor noise may damage your hearing. Always wear sound barriers (ear plugs or ear muffers) to protect your hearing. Continual and regular users should have their hearing checked regularly.



1.3 Machine safety labels

The safety decals located on your machine contain important information that will help you operate your equipment. Become familiar with the decals and their locations.

 **DANGER:** ROTATING DRIVELINE, CONTACT CAN CAUSE DEATH, KEEP AWAY!

DO NOT OPERATE WITHOUT

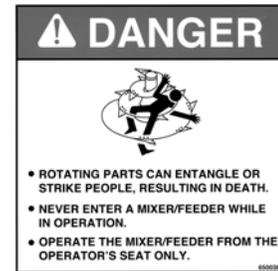
- ALL DRIVELINE GUARDS, TRACTOR AND EQUIPMENT SHIELDS IN PLACE
- DRIVELINES SECURELY ATTACHED AT BOTH ENDS
- DRIVELINE GUARDS THAT TURN FREELY ON DRIVELINE



6500085

 **DANGER**

- ROTATING PARTS CAN ENTANGLE OR STRIKE PEOPLE, RESULTING IN DEATH.
- NEVER ENTER A MIXER/FEEDER WHILE IN OPERATION.
- OPERATE THE MIXER/FEEDER FROM THE OPERATOR'S SEAT ONLY.



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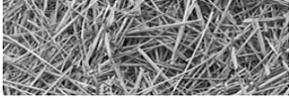
 **WARNING:** HIGH-PRESSURE FLUID HAZARD

To prevent serious injury or death:

- Relieve pressure on system before repairing or adjusting or disconnecting.
- Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.
- Keep all components in good repair.



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WARNING: PINCH POINT STAY BACK

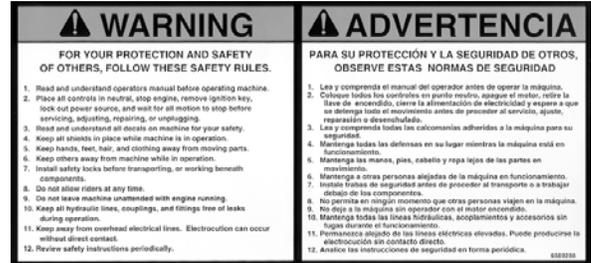


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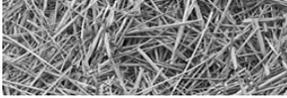


WARNING: FOR YOUR PROTECTION AND SAFETY OF OTHERS, FOLLOW THESE SAFETY RULES.

1. Read and understand operators manual before operating machine.
2. Place all controls in neutral, stop engine, remove ignition key, lock out power source, and wait for all motion to stop before servicing, adjusting, repairing, or unplugging.
3. Read and understand all decals on machine for your safety.
4. Keep all shields in place while machine is in operation.
5. Keep hands, feet, hair, and clothing away from moving parts.
6. Keep others away from machine while in operation.
7. Install safety locks before transporting, or working beneath components.
8. Do not allow riders at any time.
9. Do not leave machine unattended with engine running.
10. Keep all hydraulic lines, couplings, and fittings free of leaks during operation.
11. Keep away from overhead electrical lines. Electrocutation can occur without direct contact.
12. Review safety instructions periodically.

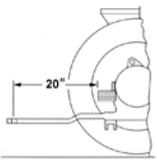


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CAUTION:

1. ADJUST TRACTOR DRAWBAR SO THAT THE DISTANCE FROM THE END OF THE P.T.O. SHAFT ON THE TRACTOR TO THE CENTER OF THE DRAWBAR HITCH PIN IS 20".
2. ADJUST THE HITCH CLEVIS SO THE MACHINE IS PARALLEL WITH THE GROUND WHEN HITCHED TO TRACTOR.
3. HITCH MACHINE TO TRACTOR WITH A 1" HITCH PIN AND SECURE TO PREVENT LOSS.
4. ADJUST PTO BEARING BRACKET SO THE SHAFT ON THE MACHINE IS LEVEL WITH THE PTO SHAFT ON THE TRACTOR.

| ⚠ CAUTION | ⚠ PRECAUCIÓN |
|---|--|
|  <ol style="list-style-type: none"> 1. ADJUST TRACTOR DRAWBAR SO THAT THE DISTANCE FROM THE END OF THE PTO SHAFT ON THE TRACTOR TO THE CENTER OF THE DRAWBAR HITCH PIN IS 20". 2. ADJUST THE HITCH CLEVIS SO THE MACHINE IS PARALLEL WITH THE GROUND WHEN HITCHED TO TRACTOR. 3. HITCH MACHINE TO TRACTOR WITH A 1" HITCH PIN AND SECURE TO PREVENT LOSS. 4. ADJUST PTO BEARING BRACKET SO THE SHAFT ON THE MACHINE IS LEVEL WITH THE PTO SHAFT ON THE TRACTOR. <p>SEE OWNERS MANUAL FOR MORE INFORMATION</p> | <ol style="list-style-type: none"> 1. AJUSTAR LA BARRA DE TRIS DEL TRACTOR DE MODO QUE LA DISTANCIA DEL EXTREMO DEL EJE DE LA TOP DEL TRACTOR AL CENTRO DEL PUNTO DE ENLACE DEL ENGANCHE DE LA BARRA DE TRIS SEA DE 20 pulg. (508 mm) 2. AJUSTAR LA HORQUILLA DEL ENGANCHE DE MODO QUE LA MAQUINA QUEDA PARALELA CON EL SUELO CUANDO ESTA ENGANCHADA AL TRACTOR. 3. ENGANCHAR LA MAQUINA AL TRACTOR CON UN PUNTO DE ENGANCHE DE 1 pulg (25.4 mm) Y FUNDILO PARA EVITAR LA DESCONEXION. 4. AJUSTAR LA ESCUDERA DEL COJINETE DE LA TOP DE MODO QUE EL EJE DE LA MAQUINA QUEDA AL MISMO NIVEL CON EL EJE DE LA TOP DEL TRACTOR. <p>VER EL MANUAL DEL OPERADOR PARA MAS INFORMACION.</p> |

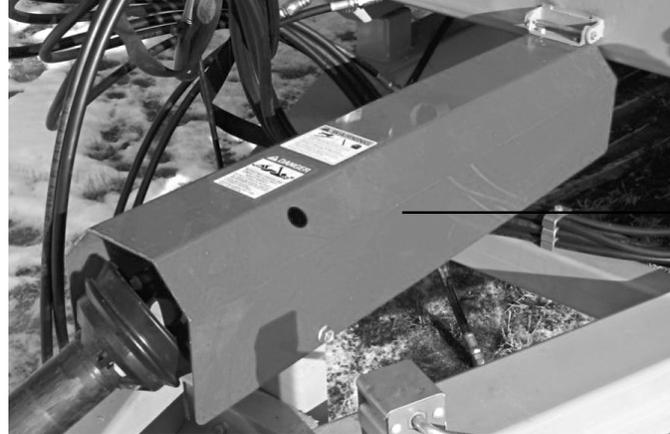
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- Replacement decals can be purchased from your Haybuster dealer.

1.4 Shielding

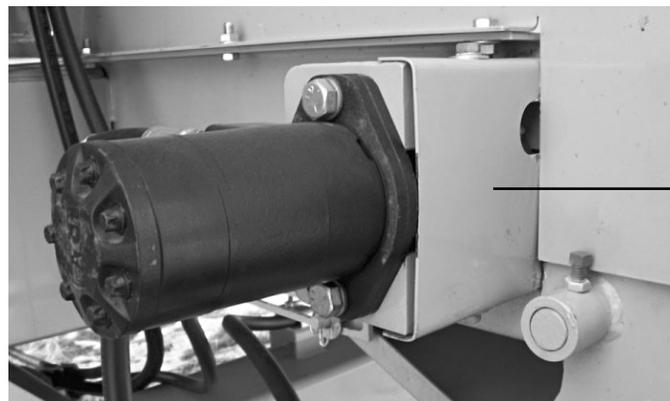
Shields are installed for your protection. Keep them in place, and replace damaged shields.

figure 1.1
PTO driveline shield

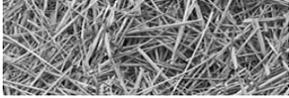


shield

figure 1.2
Orbit motor auger drive shield



shield



1.5 Safety review section

BEFORE OPERATING

- **Read and follow all instructions contained in:**
 1. This CMF-700 operator's manual
 2. Tractor operator's manual
 3. Decals on the CMF-700

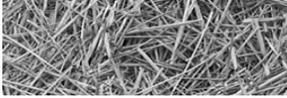


Note: Additional copies of the above mentioned materials can be obtained from your dealer.

- Allow only responsible, properly instructed individuals to operate your machine. Provide proper training and carefully supervise inexperienced operators.
- Use a tractor which meets the tractor requirement contained within this manual. Additional weights may be necessary.
- Make sure all bystanders and other workers are clear before starting the tractor and CMF-700.
- Make no modifications to the machine unless specifically recommended or requested by DuraTech Industries.
- Check periodically for breaks or unusual wear and make any necessary repairs.
- Securely attach to towing unit. Use high strength, appropriately sized hitch pin with a mechanical retainer.
- If required install P.T.O. safety chain, check local regulations regarding safety chain requirements.
- Be sure that there are no tools lying on or in the CMF-700.
- Because it is possible that your CMF-700 may be used in dry areas or the presence of combustibles, special precautions should be taken to prevent fires and fire fighting equipment should be readily available.
- Do not allow anyone to stand between the tongue or hitch and the towing vehicle when backing up to the CMF-700.

DURING OPERATION

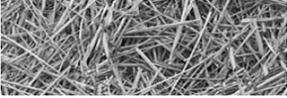
- Be sure the tractor operator is the only person riding on the tractor.
- Never allow riders on the machine at any time.
- Keep all bystanders, pets and livestock clear of work area.
- Keep hands and clothing clear of moving parts.
- Never enter the CMF-700 while in operation. Rotating parts can entangle or strike people, resulting in personal injury or death.
- Operate the CMF-700 from the operator's seat only.



- Power takeoff shafts must be locked in place with protective P.T.O. shields in place.
- Do not exceed load capacity of the CMF-700. (See **loading instructions in Section 3.7**)
- Do not clean, lubricate or adjust your CMF-700 while it is moving.
- Periodically clean the equipment to prevent buildup of dry combustible materials.
- Be especially observant of the operating area and terrain – watch for holes, rocks other hidden hazards. Always inspect the area prior to operation.
- Be extra careful when working on inclines.
- Pick the most level route possible when transporting across fields. Avoid the edges of ditches or gullies and steep hillsides.
- Never leave the CMF-700 running unattended.
- As a precaution, always check the hardware on the CMF-700 following every 100 hours of operation. Correct all problems. Follow the maintenance safety procedures.

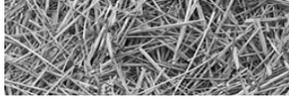
DURING SERVICE & MAINTENANCE

- Before working on or near the CMF-700 for any reason, including servicing, cleaning, unplugging or inspecting machine, use normal shut down procedures unless instructed differently in this manual.
- Never work on or near the CMF-700 unless engine is shut off, and all power drives and PTO are disengaged. Always follow normal shutdown procedures.
- Check periodically and tighten any loose bolts or connections.
- Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications. DuraTech Industries will not claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use. If equipment has been altered in any way from its original design, DuraTech Industries does not accept any liability for injury or warranty.
- If it is necessary to operate the tractor engine indoors for more than a few seconds, be sure to provide enough ventilation to remove the tractor exhaust fumes.
- Hydraulic fluid escaping under pressure can be invisible and have enough force to penetrate the skin. When searching for a suspected leak, use a piece of wood or cardboard rather than your hands. If injured, seek medical attention immediately to prevent serious infection.
- Relieve all pressure in the hydraulic system before disconnecting the hose or performing other work on the system. Make sure all connections are tight and the hose is in good condition before applying pressure to the system.
- Replace all shields and guards after servicing and before moving.



1.6 Towing/road transport

- Use good judgment and drive slowly over rough or uneven terrain.
- Avoid loose fill, rocks and holes; they can be dangerous for equipment operation or movement. Allow for unit length when making turns.
- Be sure tractor brakes are properly adjusted and foot pedals are locked together.
- Check your state laws regarding the use of light, slow moving vehicle signs, safety chain and other possible requirements.

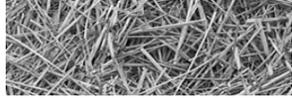


Section 2: Dealer Preparation

2.1 Pre-delivery inspection

Instructions: Before delivering the machine, check the following items carefully and make corrections when necessary. Place an “X” in the box after each item has been checked and found to be acceptable.

- Check machine for missing items or damage in transit.
- Check for loose bolts
- Check all hydraulic components for leaks or damage.
- Check lug bolts for tightness.
- Check tires for proper air pressure.
- Check condition of tire rims
- Check machine for proper lubrication.
- Check all shields for proper installation and condition.
- Check condition of all decals.
- Check all phases of operation.
- Check gearbox oil levels.



Section 3: Operation

To insure long life and economical operation, we highly recommend the operator of the CMF-700 be thoroughly instructed in the maintenance and operation of the machine. There is no substitute for a sound preventative maintenance program and well trained operator.

Prior to starting the engine of the tractor, we recommend the operator make a visual inspection of the unit. This can be done as the lubrication is being carried out. Any items that are worn, broken, missing or needing adjustment must be serviced accordingly before operating the CMF-700.

3.1 Pre-starting inspection instructions



WARNING: Before inspecting the machine, use the normal shut-down procedure in Section 3.11.

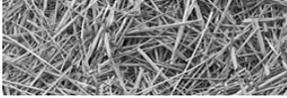
Check the following:

- Hydraulic components for leaks or damage.



Warning: Hydraulic fluid escaping under pressure can be almost invisible and can have sufficient force to penetrate the skin. When searching for suspected leaks, use a piece of wood or cardboard rather than your hands. If injured, seek medical attention immediately to prevent serious infection or reaction.

- Check for loose bolts, worn or broken parts.
- Lug nuts for tightness.
- Condition of tire rims.
- Tires for proper air pressure.
- Installation and condition of shields.
- Installations of slow moving vehicle (SMV) sign if required.
- Condition of decals.
- Gearbox oil levels.



3.2 Setup and Adjustments

3.2.1 Hitch Adjustments

The hitch is adjustable so that the machine is parallel to the ground when attached to the tractor drawbar. This is accomplished by removing the two mounting bolts and reinstalling them with the hitch at the proper height. The distance from the end of the P.T.O. shaft on the tractor to the center of the drawbar hitch pin hole should be 20" (51cm), and the height from the top of the drawbar to the centerline of the P.T.O, should be 8".

figure 3.1
Hitch adjustments



The hitch pin should be of proper diameter to prevent movement and length to extend through all components of the hitch. The pin should be secured with a hairpin clip or suitable device to prevent the loss of the pin.

3.2.2 Jack

An adjustable jack is provided with the machine to support the hitch when the machine is disconnected from the tractor. The jack must only be used on firm, level ground or similar base to prevent it from sinking.

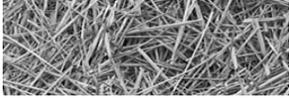


Warning: Never unhook the CMF-700 with material in tub.

When unhooking the machine remove the jack pin and move the jack from the storage location to the hitch position and reinstall the pin. Crank the jack until the hitch is no longer supported by the drawbar of the tractor. The hitch pin now can be removed.



Warning: Never use the jack without reinstalling the jack pin.



When hooking up the machine, install a proper hitch pin and secure it with a hairpin clip or comparable device, crank the jack until the foot of the jack is fully raised. Remove the jack pin and relocate the jack to the storage location. Reinstall the jack pin.

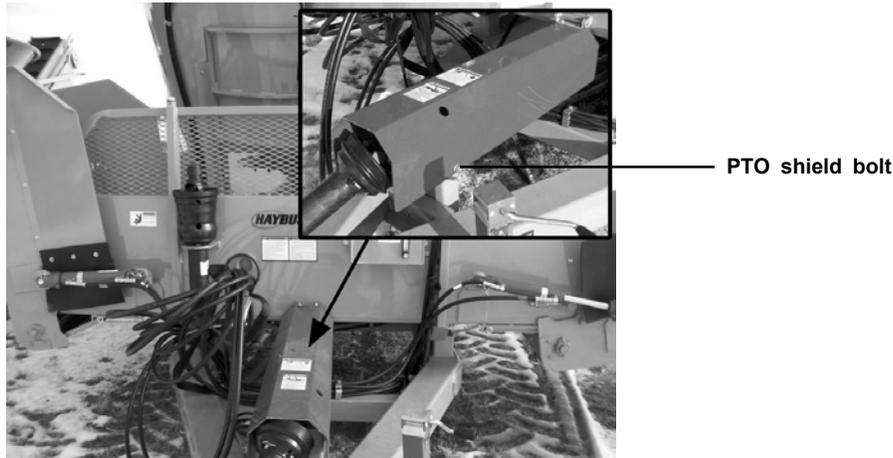
3.2.3 P.T.O. Shield



Warning: Before lifting the P.T.O. shield be sure to follow the normal shut down procedure. Be certain that the tractor is shut off and all rotating components of the machine have come to a complete stop before lifting shield. Loose clothing is discouraged, and long hair should be restrained whenever working on P.T.O. shafts.

To raise the P.T.O. shield, remove the bolts from the front of the shield and lift the shield. If it does not pivot freely look for build up of debris or other obstructions at the pivot point. Do not force the shield, as damage to the shield may occur.

figure 3.2
Raising the P.T.O.
shield

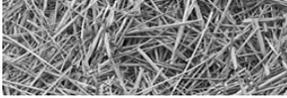


3.2.4 Hydraulic Cylinder and Valve

All cylinder and valve hose connections should be tight and leak free. If the area near a hose connection becomes oily or dirty, repairs should be made to seal the leak. Hoses should be free of cracks or cuts to ensure safe operation. Cylinder seal kits are available from your dealer to repair a leaky cylinder. Pin connections should be free of excessive wear. If pins become worn they should be replaced. Also check yokes and mounts for cracks and wear.



Warning: Hydraulic fluid escaping under pressure can be almost invisible and can have sufficient force to penetrate the skin. When searching for suspected leaks, use a piece of cardboard or wood rather than your hands. If injured seek qualified medical attention immediately to prevent serious infection or reaction.



3.2.5 Tires and Rims

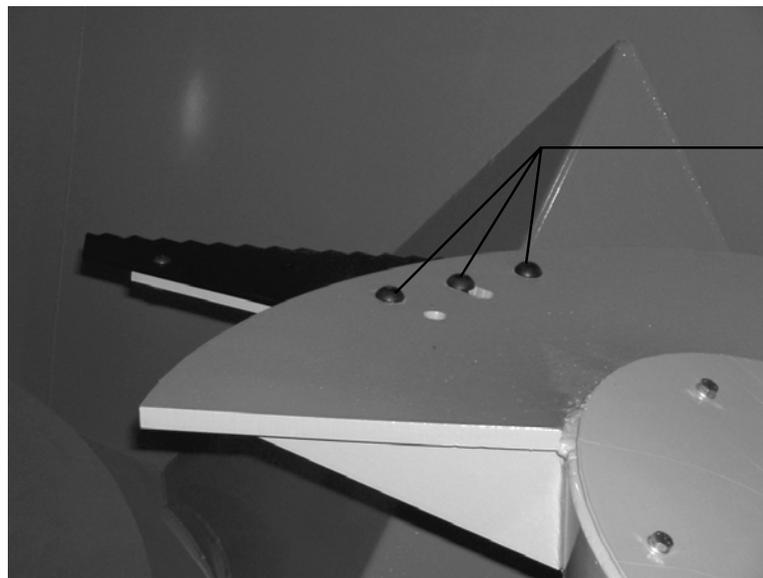
Tires should be inflated to 130 PSI and should be free of cuts or cracks. There should also be adequate tread and no visible cords, wires or tread separation. Tires must also be of proper load rating, speed rating and size.

Rims must be free of cracks and rust pitting. Lug bolts must also be tight. Inspect the area around the lug bolts. If rust develops this is a sign of loose lug bolts. Check wheel bearings and seals, replace and grease as use requires.

3.2.6 Knives

Your new CMF is setup with seven knives on each auger, the top two knives in each auger have two positions, in or out. When processing tough hay the knives should be in the out position to better attack the long stem hay. Having the knives in the out position increases the horsepower requirements. Alternatively, knives can be removed if the ration does not require much processing and/or over-processing is a possibility. Ingredient condition and rations will determine the optimum layout.

figure 3.3
Knife position
adjustments,
knives in the 'outside'
position



knife position adjustment bolts

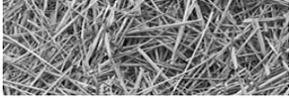
3.2.7 Vertical knives

The purpose of the vertical knives is to create restriction to the flow of material around the tub and provide a shear point for the auger knives. The further into the tub the vertical knives are set the shorter the final stem length will be. The vertical knives also can affect the horsepower demand, which may be important depending on tractor size. Start using your CMF with the knives at neutral or one hole in and adjust as necessary.

vertical knife adjuster



figure 3.4
Vertical knife
adjustments,
shown with knife in
the neutral position



3.2.8 Free motion automatic clutch

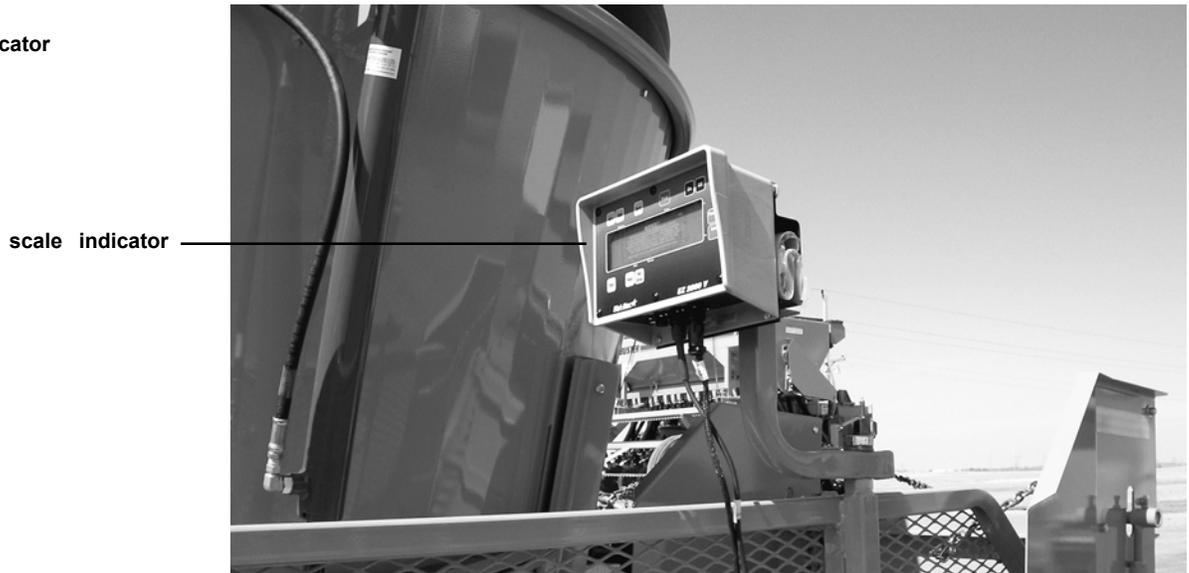
Torque protection is built into the PTO driveline with two free motion automatic clutches. These clutches are located on each driveline immediately before each gearbox. When overload occurs the clutch disengages and does not reengage until the driveline speed is reduced to near zero. The clutch makes a loud click when it disengages.



3.2.9 Scale Indicator

The indicator for the four-point scale should be mounted on the indicator mount located on top of the main conveyor. The mount can be mounted in the left or right side of the conveyor. The indicator is powered by a 12 volt battery located under the tub on the left side of the frame.

figure 3.5
EZ-2000 scale indicator

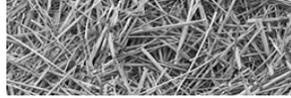


3.2.10 Two-Speed Gearbox (Option)

The two-speed gearbox is available on the CMF-700 for operators who want more control of their mixing speeds, want to reduce overall horsepower requirements, or prefer to turn off mixer while transporting a loaded mixer. The two-speed gearbox has two speeds, low and high. Pictures in **Section 6.5**, show lever in two positions in both gear selections.

3.2.11 Extension Conveyor Spouts (Option)

Spouts are available with or without magnets. Spouts are adjustable in three hole positions on sides. Point spout down further when running the conveyor extensions at higher angles to avoid material build up on the end of the conveyor. When running conveyor at lower angles, direct spouts so that the magnets are positioned further into the flow of material. Pictures of available spouts can be found in **Sections 6.2 and 6.3**.



3.3 Hitching the CMF-700



Warning: Do not operate the CMF-700 unless the tractor complies with the following requirements:

- Tractor has a minimum of 135 horsepower. (without two-speed option)
- Tractor has rollover protective structure and seatbelts.
- Tractor's hydraulic system has at least (2) two-way valves, and a minimum flow of 12 GPM @ 1500 psi.
- To assure adequate braking and steering control while in transport, the tractor must have a weight greater than or equal to $\frac{2}{3}$ weight of the CMF-700 and any mix it will transport at speeds more than 10 MPH. ((Max CMF 17,900 lbs. + max load 21,500 lbs) x (0.67) = 26,398 lbs.)
- 1-3/8" 21-spline P.T.O. shaft

To hitch the CMF-700 to the tractor, perform the following steps:

1. Adjust the tractor drawbar so that the distance from the end of the P.T.O. shaft on the tractor to the center of the drawbar hitch pin hole should be 20" (51 cm), and the height for the top of the centerline of the P.T.O. should be 8". Refer to figure 3.6

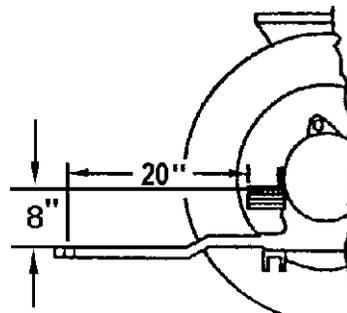
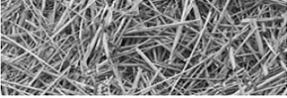


figure 3.6
Safe P.T.O. distance

2. Hitch the CMF-700 to the tractor drawbar. Adjust the hitch so the machine is parallel with the ground.
3. The hitch pin should be sized to prevent excessive movement, and should extend through all components of the hitch. The pin should be secured with a hairpin clip or suitable device to prevent the loss of the pin.
4. Raise the jack. Pull the lock pin and store in transport position.
5. Attach the P.T.O. shaft to the tractor P.T.O. shaft. Depress coupling and slide the coupling onto the splined shaft. Make sure the spring loaded safety catch is properly seated.



6. This machine is set up to operate on 1000 rpm only!
7. If required, install the safety chain. Check local regulations regarding safety chain requirements. Refer to figure 3.7

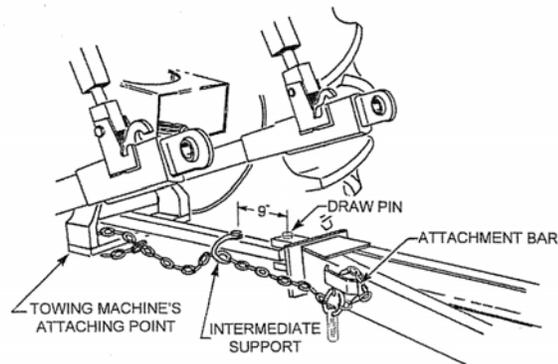


figure 3.7
Safety chain installation

8. Connect the two hydraulic hoses from the hydraulic door cylinder to one set of hydraulic couplers on the tractor. Connect the two hydraulic hoses from the discharge conveyor to the second set of hydraulic couplers on the tractor. Connect the two hydraulic hoses from the extension conveyor to the third set of hydraulic couplers on the tractor.
9. If equipped with a rear door and/or second extension conveyor, connect the two hydraulic hoses from each to the fourth and/or fifth hydraulic couplers on the tractor.

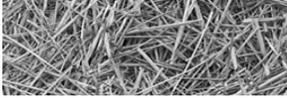
3.4 Unhitching the CMF-700

To unhitch the CMF-700, perform the following steps:



Warning: Never unhook the CMF-700 with material in tub.

1. Follow normal shut-down procedure.
2. Lower jack and secure. Raise the tongue off the tractor draw bar.
3. Place wheel chocks under wheels to keep from rolling.
4. Detach the P.T.O. shaft from the tractor.
5. Cycle the hydraulic control levers to release any pressure in the hydraulic hoses.
6. Detach the hydraulic hoses.
7. Remove the safety chain, if installed.
8. Remove the hitch pin.



3.5 Operation precautions and instructions

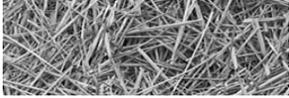
- Make sure there are no bystanders in the way.
- Before loading, run the mixer empty and check all operations.
- Do not overload the mixer. Maximum load is 21,500 lbs. Maximum load is determined by weight, not volume.
- Be sure all shields are in place before operation.
- Use common sense when operating.
- Never attempt to climb on the CMF while the tractor is running.

3.6 Starting the machine

1. Park machine on a hard level surface keeping the driveline as straight as possible.
2. Close the mixer door.
3. If the scale indicator is not at zero, re-zero indicator per the scale indicator manufacturer's instructions.
4. If equipped with two-speed gearbox option, select mixing gear desired.
5. Engage the tractor PTO and increase engine RPM to desired mixing speed.

3.7 Loading and processing

1. Load baled products and materials that require processing first. The center core of round bales will be the toughest to process. Allow enough processing time to adequately process roughage.
2. Set vertical knives per adjustment section.
3. Do not over process as processing continues through the mixing stage.
4. Load silage and/or other high moisture products next.
5. Load dry ingredients.
6. Load liquid supplements last.
7. Allow three to four minutes of mixing time after last ingredient.
8. ALL PROCESSING AND MIXING TIMES WILL VARY.
9. Do not overload the CMF, maximum capacity is 21,500 lbs.



3.8 Unloading

To unload the CMF-700, perform the following steps:

1. If possible, move the mixer to the unloading site while finishing the mixing stage to avoid the need for loaded PTO start-up.
2. Align CMF with bunk and lower the conveyor extension to desired angle (if equipped).
3. Engage the chain conveyor; chain speed is controlled using the auxiliary valve flow control on the tractor.
4. If the augers are not already engaged, engage the PTO.
5. Open the tub door and proceed along the bunk. Engine speeds around 1500 rpm are usually adequate when the tub is full, however engine should be run at rated speed to clean out the tub and provide even feed flow when the tub is near empty. If equipped with two-speed gearbox, turn off mixer and shift to high speed and re-engage to achieve maximum clean out RPM. Most new tractors have P.T.O. brakes which will require the tractor to be turned off before the two- speed can be shifted.

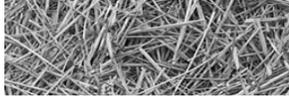
3.9 Storing the CMF-700 mixer/feeder



Warning: When preparing machine for storage, use normal shut-down procedure.

To prepare the CMF-700 for storage, perform the following steps:

1. Clean all mud, dirt, grease and other foreign material from the exterior and interior of the machine. Wash the complete machine. To inhibit rusting repaint places where bare metal is exposed.
2. Place the jackstand in the down and in locked position. Place wheel chocks under wheels if needed to keep machine from rolling. If possible, store the machine in a dry, protected place. (If it is necessary to store the machine outside, cover it with waterproof canvas, plastic, or other suitable protective material.)
3. Coat exposed lift cylinder rods with grease. Oil chains on conveyors. Lubricate thoroughly according to lubrication instructions. Repack wheel bearings.
4. Check the machine for any worn or broken parts. By ordering parts now, you will avoid delays when it is time to remove the machine from storage. When ordering parts always specify machine serial number and the part number of the replacement part. Part numbers can be found in the parts section of this manual.



3.10 Removing the CMF-700 from storage

To remove the CMF-700 from storage, perform the following steps:

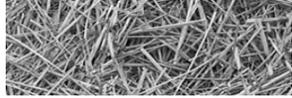
1. Remove all protective coverings.
2. Remove blockings from under the CMF-700. Check tire pressure.
3. Lubricate machine in accordance with lubrication instructions found in this manual.
4. Check the conveyor chain tension.
5. Check all hydraulic hoses for deterioration and, if necessary, replace. Tighten any loose bolts, nuts and hydraulic fittings.
6. Follow pre-starting inspection instructions.

3.11 Normal shut-down procedure



Warning: For your safety and the safety of others, you must use the following normal shut-down procedure before leaving the tractor controls unattended for any reason, including servicing, cleaning, or inspecting the CMF-700. A variation of the following procedure may be used if so instructed within this manual or your tractor manual or if an extreme emergency requires it.

1. Disengage P.T.O.
2. Place transmission in park or set park brake.
3. Shut off machine and remove key.
4. Wait for all movement to stop.
5. Engage tractor park brake, turnoff and remove key engine prior to entering the tub and/or making any adjustments to CMF.



Section 4: Lubrication

The operator should make a check of all grease fittings on the unit before beginning to operate it so as to become familiar with their location and correct service schedule.



Warning: Use normal shut-down procedure (Section 3.11) before lubricating the machine.

4.1 Lubrication

Use only a high quality, #2 multi-purpose grease when lubricating the unit. Make sure all fittings and the nozzle of the grease applicator are clean before applying the grease. If grease fittings are missing, replace them immediately.

Lubricate with grease every fifty (50) hours of operating time.

1. P.T.O. universal joints – 7 places
 - 1a. As many as seven (7) pumps of grease are required to purge all cross and bearing lube point with fresh grease.
2. Telescoping shafts – 2 places
 - 2a. Telescoping members require enough grease to maintain a smooth sliding action. When telescoping members become contaminated with dirty grease, they should be inspected and cleaned to insure smooth operation.
 - 2b. Shield components should be lubed and inspected to insure all components are in working condition or are replaced if damaged. A properly maintained shield will inhibit dirt from contaminating telescoping members.
3. P.T.O stand bearing – 1
4. Conveyor bearings - 2
5. Extension conveyor bearings – 2 each
6. Automatic clutches – Two places – 1 pump only. *Be careful **not** to over grease.*

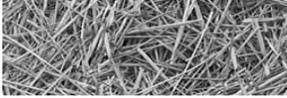
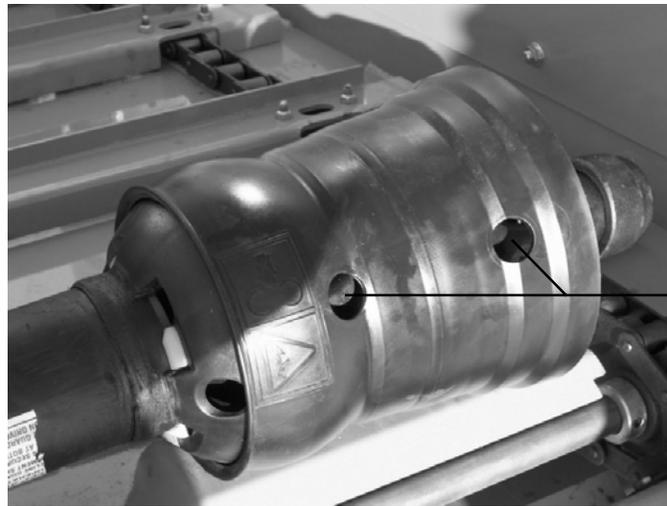


figure 4.1
P.T.O. Universal joint
(1 of 7)



P.T.O. universal joint
lubrication zerk

figure 4.2
P.T.O. Universal joint
(2 & 3 of 7)



P.T.O. universal joint
lubrication zerk

figure 4.3
P.T.O. Universal joint
(4 of 7), and P.T.O stand
bearing (1 of 1)



P.T.O. universal joint
lubrication zerk

P.T.O stand bearing
lubrication zerk

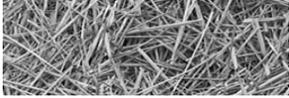
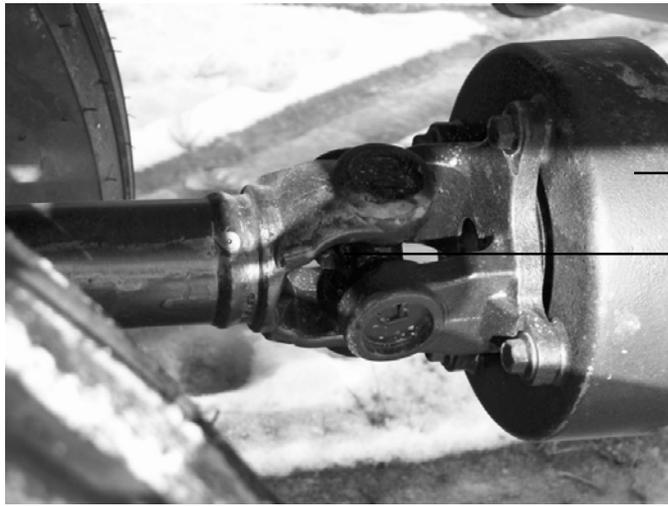


figure 4.4
P.T.O. Universal joint
(5 of 7), and automatic
clutch



automatic clutch

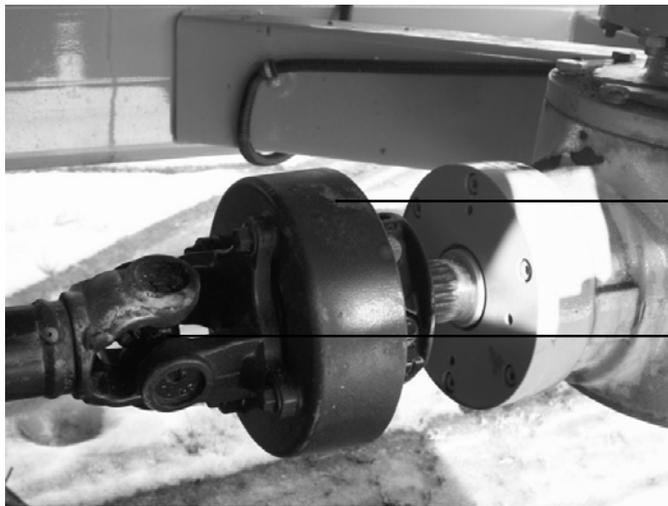
P.T.O. universal joint
lubrication zerk

figure 4.5
P.T.O. Universal joint
(6 of 7)



P.T.O. universal joint
lubrication zerk

figure 4.6
P.T.O. Universal joint
(7 of 7), and automatic
clutch



automatic clutch

P.T.O. universal joint
lubrication zerk

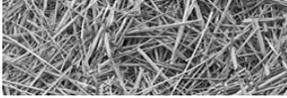
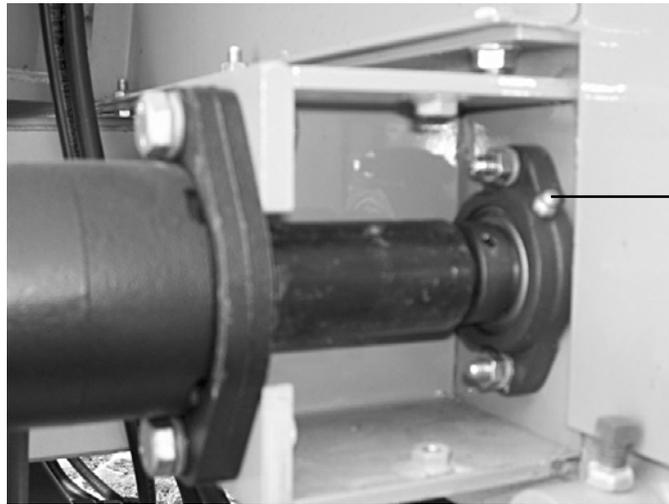
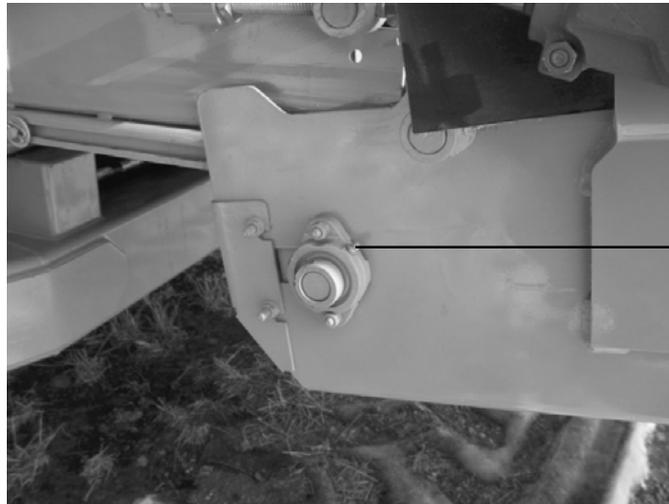


figure 4.7
Conveyor bearings
lubrication point (1 of 2)



conveyor bearings
lubrication zerk

figure 4.8
Extention conveyor
bearings lubrication point
(1 of 4)

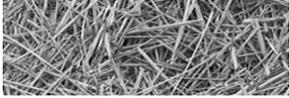


extention conveyor bearings
lubrication zerk

figure 4.9
Telescoping P.T.O. shaft



telescoping shaft



4.1 Lubrication cont.

Wheel bearings: repack annually

Gearbox: Grease 20-30 pumps every 250 hours (each gearbox), located on the bottom of the tub in front of the left tires.

Chains: Oil conveyor chains every 15 hours.

When to change oil in gearboxes:

- After the first 50-100 hours of operation, drain initial oil, preferably when box is warm. There after oil should be changed every 1500 hours or 12 months, whichever comes first. If machine usage is severe or more than 10 loads per day, it is advisable to change the oil every 1000 hours or 6 months. Inspect and wash oil reservoir breather cap as needed. Air dry before reinstalling. Fill each gearbox with approximately 5 ½ gallons of EP150 or 80w-90 GL-5 weight Gear Lube. ***RR-USA recommends using synthetic oil in their gearbox.*** Monitor the oil level in the reservoir daily. Oil level should be in the middle of the sight gauge. The working temperature must not exceed (90 degrees C) 194 degrees F max. Proper lubrication is essential for efficient running and long life of the unit as a whole. It is also important to select the correct type of oil to ensure the long life of the gear reducer.

Procedure for changing oil in gearboxes (see chart 4.1 on the following page):

1. Remove magnetic drain plug from the bottom of the right angle gearbox and clean the magnet if it has any metal on it. Return plug to the gearbox before filling.
2. Disconnect the lube lines from the top of the gearboxes at the tee fitting. Disconnect the other lube lines from the bottom of the gearboxes at the other tee.
3. To fill, connect (-8)3/4" MJIC fitting to hose connected to the right angle box and place overflow hose in a pan. Pump oil into the gearbox until it runs out of the overflow hose. Reconnect hoses to the correct tee fittings. Repeat for rear gearbox. The tee fitting to the right angle will need to be capped after the front gearbox is filled.
4. Fill reservoir and continue to monitor reservoir levels during operation so that oil remains half-way up in sight gauge or higher, allow for more expansion in warmer climates.
5. Two-speed gearbox should be half full of oil so that oil is present in sight gauge. Follow same maintenance schedule and use the same oils as recommended above for vertical gearboxes.
6. Any brand of 80w-90 gear oil with a GL-5 rating may also be used; *RR_USA recommends use of synthetic oils.*

Recommendation: Prior to starting each day it is advisable to check the oil level of gearboxes at the sight gauge.

Contact information for:

ConocoPhillips Lubricants: Telephone: 1-800-255-9556 (Technical Hotline)
Email: conocolubricants@conophillips.com

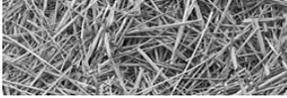
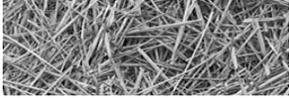


chart 4.1
lubrication chart for reduction gears

| | | | | |
|----------------------------|------------------------------|-------------------------------|----------------------------------|---------------------------------|
| Ambient Temperature | -4 F - +41 F -20 C - +5 C | -41 F - +104F +5 C - +40 C | +86 F - +149 F +30 C - ++65 C | +104 F- +149 F +40 C - +65 C |
| Viscosity | | | | |
| ISO VG | 100 | 150 | 220 | 320 |
| E/50 C | 7.3 | 10.8 -12.5 | 15 -18 | 22 - 26 |
| AGIP | BLASIA 100 | BLASIA 150 | BLASIA 220 | BLASIA 320 |
| BP-MACH | ENERGOL | ENERGOL | ENERGOL | ENERGOL |
| | GR-HP100 | GR-HP150 | GR-HP220 | GR-HP320 |
| CASTROL | ALPHA SP 100 | ALPHA SP 150 | ALPHA SP 220 | ALPHA SP 320 |
| CHEVRON | NL GEAR | NL GEAR | NL GEAR | NL GEAR |
| | COMPOUND | COMPOUND | COMPOUND | COMPOUND |
| | 100 | 150 | 220 | 320 |
| ELF | REDUCTELF SP 100 | REDUCTELF SP 150 | REDUCTELF SP 220 | REDUCTELF SP 320 |
| ESSO | SPARTAN EP 100 | SPARTAN EP 150 | SPARTAN EP 220 | SPARTAN EP 320 |
| FINA | GIRAN 100 | GIRAN 150 | GIRAN 220 | GIRAN 320 |
| IP | MELLANA 100 | MELLANA 150 | MELLANA 220 | MELLANA 320 |
| MOBIL | ---- | MOBILGEAR 629 | MOBILGEAR 630 | MOBILGEAR 632 |
| SHELL | OMALA EP 100 | OMALA EP 150 | OMALA EP 220 | OMALA EP 320 |
| TOTAL | CARTER EP 100 | CARTER EP 150 | CARTER EP 220 | CARTER EP 320 |

4.2 General appearance

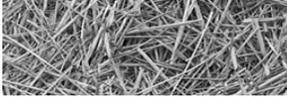
Clean all mud, dirt, grease and other foreign material from the exterior of the machine. Wash the entire machine. Repaint places where bare metal is exposed.



Section 5: Troubleshooting

chart 5.1
Troubleshooting chart

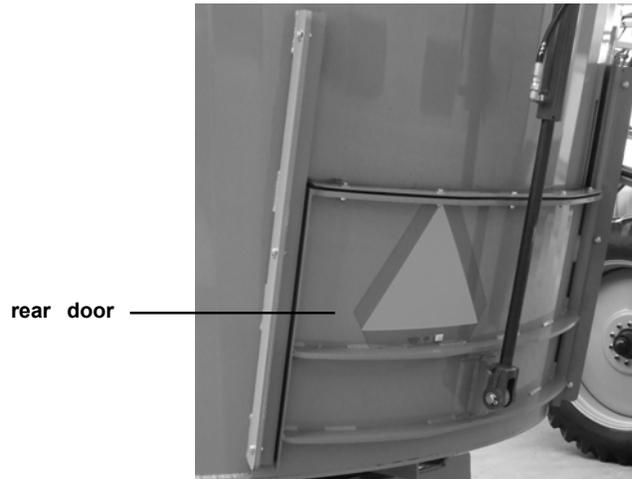
| Problem | Cause | Remedy |
|---|--|--|
| 1. Spillage over tub | 1. Vertical knives are in too far. | 1. Pull knives out one notch at a time until material stops spilling. |
| | 2. Auger speed is too fast. | 2. Slow engine speed |
| | 3. Tub is overfilled | 3. Wait longer while processing first bale, before adding more hay or other ingredients. Allow more time to process bulky materials. 4. Park on level ground. |
| 2. Augers stopped turning | 1. Automatic clutch disengaged because of shock loading | 1. Disengage tractor PTO. Wait till driveshaft stops and reengage PTO. Clutch automatically reengages when driveline slows to near zero rpm. May need to shift Gearbox to low. |
| | 2. Verify two-speed is engaged | 2. Check lever position on two-speed gearbox, Forward -high speed Middle -neutral Back -low speed |
| 3. Conveyor does not move | 1. Conveyor plugged | 1. Look for obstruction |
| | 2. Chains too tight | 2. Reduce chain tension |
| | 3. Hoses uncoupled. | 3. Make sure hoses are coupled properly. |
| 4. Conveyor plugged at transition to extension | 1. Extension conveyor running at too steep of an incline | 1. Run extension conveyor at lowest height possible to reach the necessary bunk height. |
| | 2. Conveyor stalls. | 2. Running conveyor at steep angle, move spout to a more downward position. |
| 5. Ration over processed | 1. Processing continues through mixing stage | 1. Add secondary ingredients that don't require processing to the batch sooner. |
| | 2. Too many knives | 2. Take knives out. |
| | 3. Vertical knives in too far | 3. Pull vertical knives out further, |
| | 4. Auger speed too fast | 4. Reduce tractor engine rpm |
| 6. Ration under processed | 1. Not enough knives on the augers | 1. Add knives |
| | 2. Knives are dull | 2. Replace knives |
| | 3. Auger speed not fast enough | 3. Increase auger speed, careful not to cause spillage. |
| | 4. Vertical knives not in far enough | 4. Push vertical knives in one notch. |
| 7. Scale does not power up | 1. Battery not charged | 1. Charge the battery/replace if necessary. |
| | 2. Loose battery connection | 2. Tighten/clean connections at battery post. |
| | 3. Battery power cable damaged | 3. Repair/replace cable. |
| (Consult scale manufacturer's manual for all other information) | For 24 hour Tech service, Go to digi-star.com or call 1-800-225-7695 | |
| 8. Door is loose/does not seal | 1. Door clamps out of adjustment | 1. Readjust door clamps |



Section 6: Options

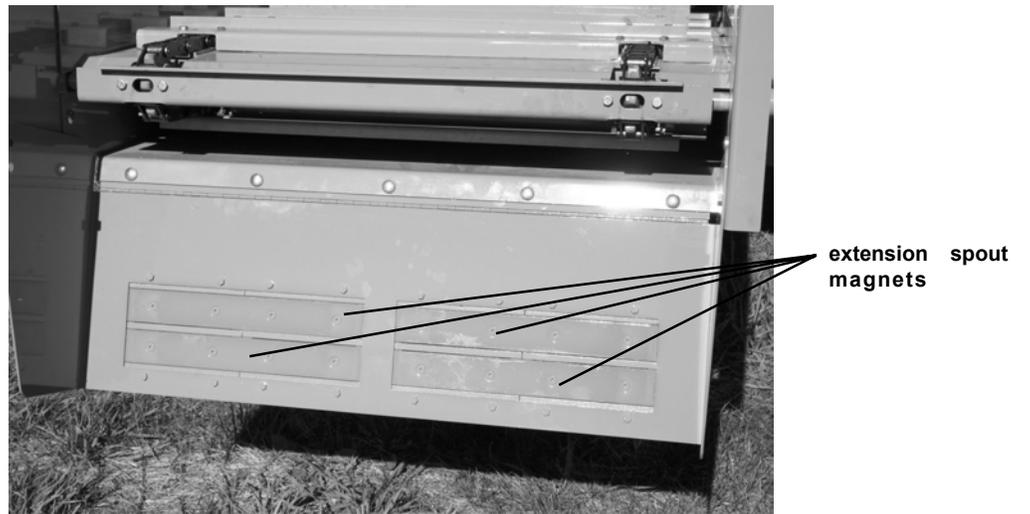
6.1 Rear bay door

figure 6.1
Optional rear door



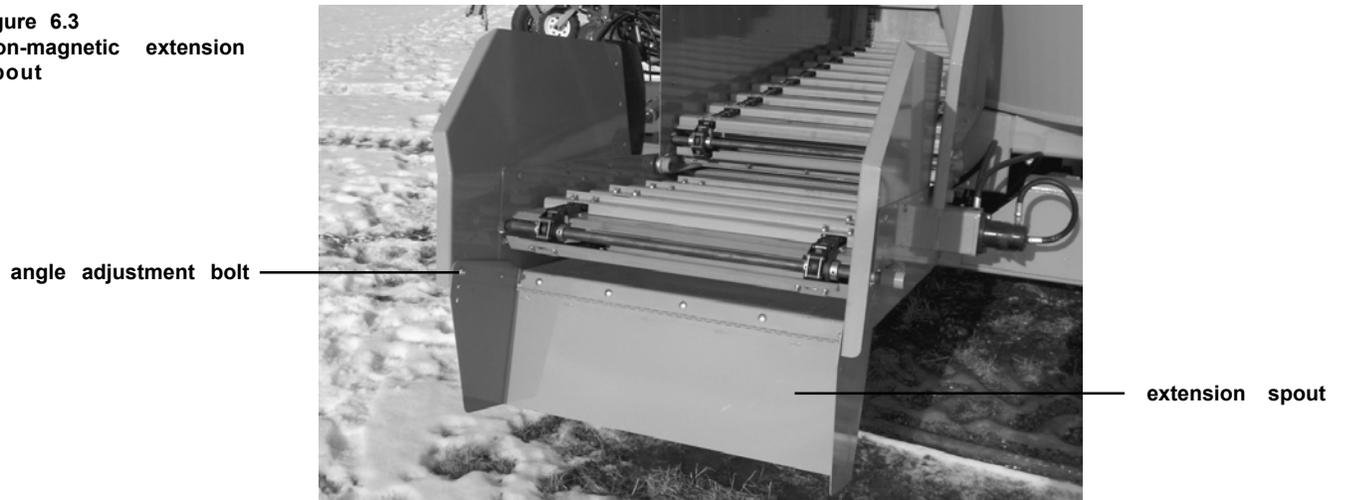
6.2 Magnetic extension spouts

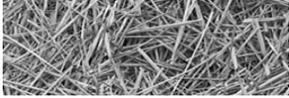
figure 6.2
Magnetic extension spout



6.3 Non-magnetic extension spout

figure 6.3
Non-magnetic extension spout





6.4 Light Kit

figure 6.4
Optional light kit for the
CMF-700



6.5 Two-Speed Gearbox

figure 6.5
Two speed gearbox
in low speed
position

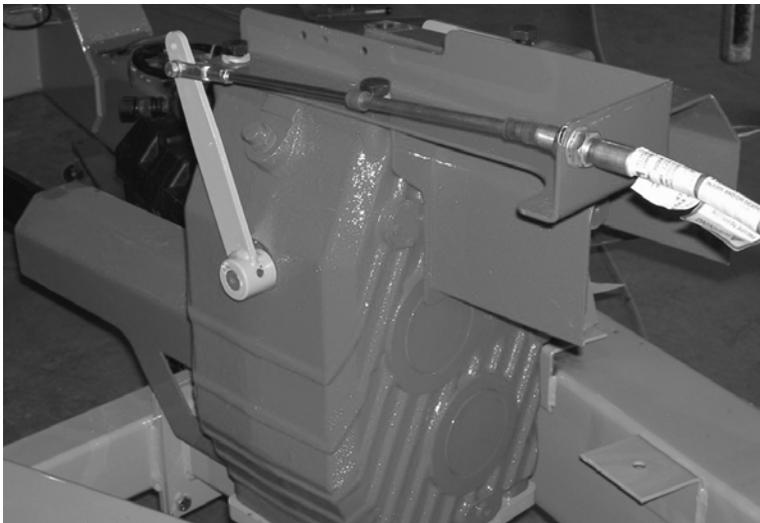
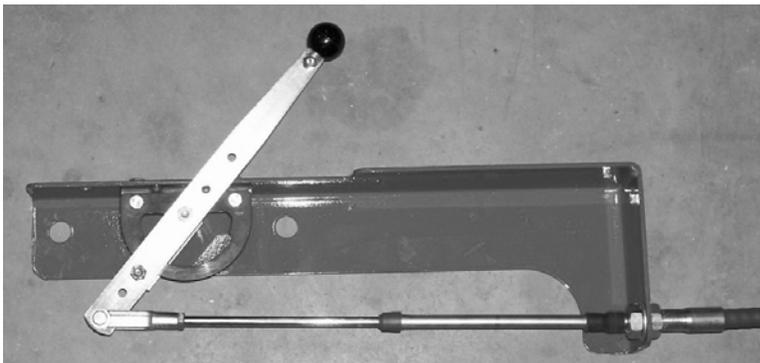


figure 6.6
Handle for two speed
gearbox in low position



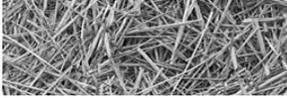
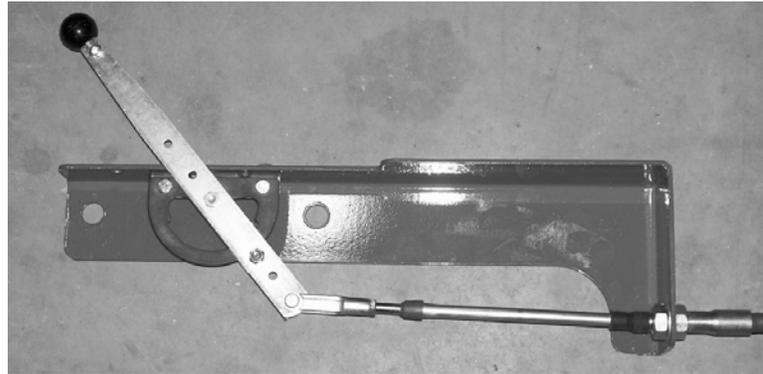
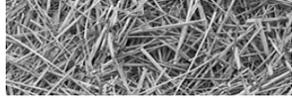


figure 6.7
Two speed gearbox in
high position



figure 6.8
Handle for two speed
gearbox in high position





Section 7: Maintenance

7.1 Welding Procedure

CMF-700 welding procedures for machines with a weight scale

Precautions are required for welding on machines with electronic components. Electronic components including but not limited to: electronic scales.

Proper welding procedures are necessary with in order to avoid damage to the components, their sensors, and associated components.

When possible, remove the parts to be welded from the machine.

If not possible to remove the parts, follow the following procedure:



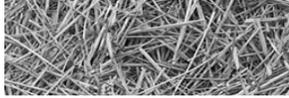
Note: Do not ground the welder to electrical components listed above, sensors, or wiring. Improper grounding can also damage bearings of hydraulic components. Clamp the ground cable from the welder to the part that will be welded. Place the clamp as close as possible to the weld. This will help reduce the possibility of damage.

1. Unhitch the CMF-700 from the tractor.
2. Disconnect the connectors from the electronic scale. Move the connectors to a position that will not allow the connectors to accidentally move back and make contact with any of the pins.
3. Connect the welding ground cable directly to the part that will be welded. Place the ground cable as close as possible to the weld in order to reduce the possibility of welding current damage to bearings, hydraulic components, and electrical components.



Note: If the electrical/electronic components are used as a ground for the welder, or electrical/electronic components are located between the welder ground and the weld, current flow from the welder could damage the components.

4. Protect the wiring harnesses and hydraulic lines from welding debris and spatter.
5. Use standard techniques to weld the materials.



Appendix A: Warranty

DuraTech Industries International Inc., warrants to the original purchaser for one year from purchase date that this product will be free from defects in material workmanship when used as intended and under normal maintenance and operating conditions. This warranty is limited to the replacement of any defective part or parts if DuraTech Industries is notified within thirty (30) days of failure.

This warranty shall become void if in DuraTech Industries International, Inc.'s, judgment the machine has been subject to misuse, negligence, alterations, damaged by accident or lack of required maintenance, or if the product has been used for a purpose for which it was not designed.

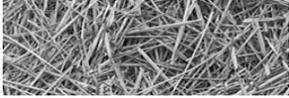
All claims for warranty must be made through the dealer which originally sold the product and all warranty adjustments must be made through same.

This warranty does not apply to tires or bearings or any other trade accessories not manufactured by DuraTech Industries International Inc.'s. Buyer must rely solely on the existing warranty, if any, of these respective manufactures.

DuraTech Industries International Inc., shall **not** be held liable for damages of any kind, direct, contingent, or consequential to property under this warranty. DuraTech Industries International Inc., cannot be held liable for any damages resulting from causes beyond its control. DuraTech Industries International Inc., shall **not** be held liable under this warranty for loss of crops, or rental costs or any expense or loss for labor or supplies.

DuraTech Industries International Inc., reserves the right to make changes in material and/or design of this product at any time without notice.

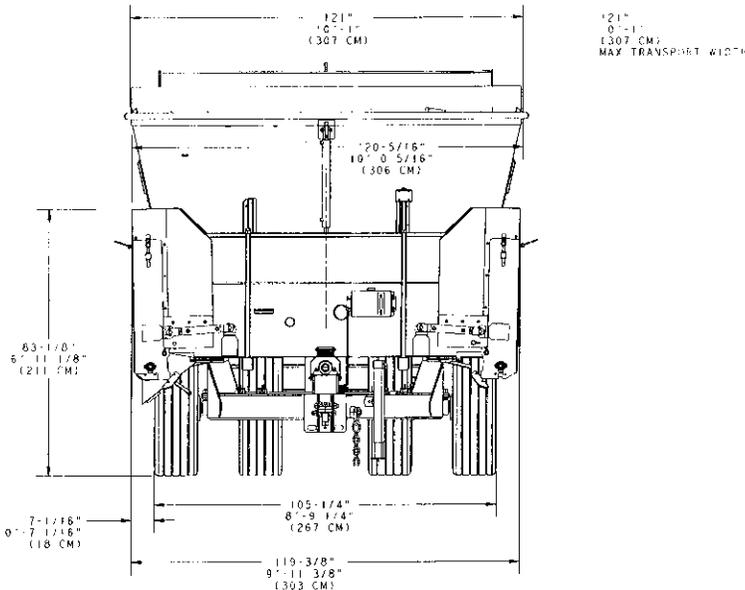
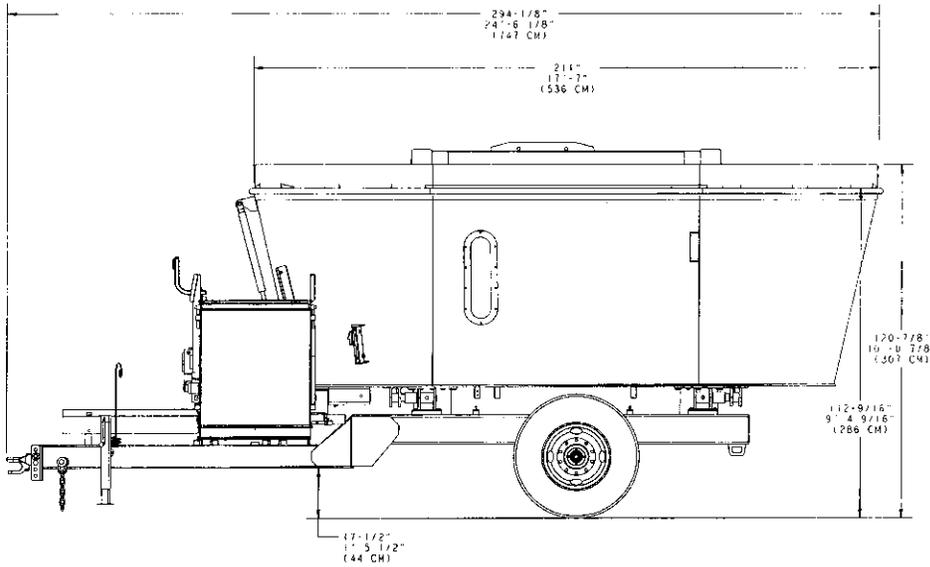
All other warranties made with respect to this product, either expressed or implied, are hereby disclaimed by DuraTech Industries International.

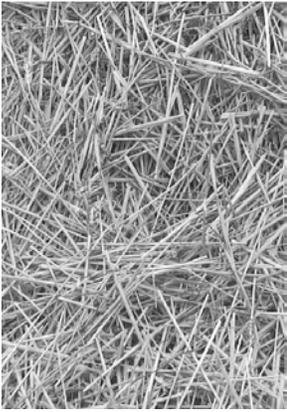


Appendix B: CMF-700 Specifications

General specifications

| | |
|--|--------------------|
| Max. Weight | 17,000 LBS |
| Overall length, including trailer | 294 1/8" |
| Overall width | 121" |
| Tractor P.T.O speed ... (1-3/8" 21 spline) | 1000 |
| Minimum horsepower required | 135 |
| Mixing capacity, cu. ft | 705/830 |
| Max. Gross Weight | 39,400 LBS |
| Tires – size | 315/80R22.5 20 PLY |
| Loading height with extensions | 120 7/8" |
| Loading height without extensions | 112 9/16" |





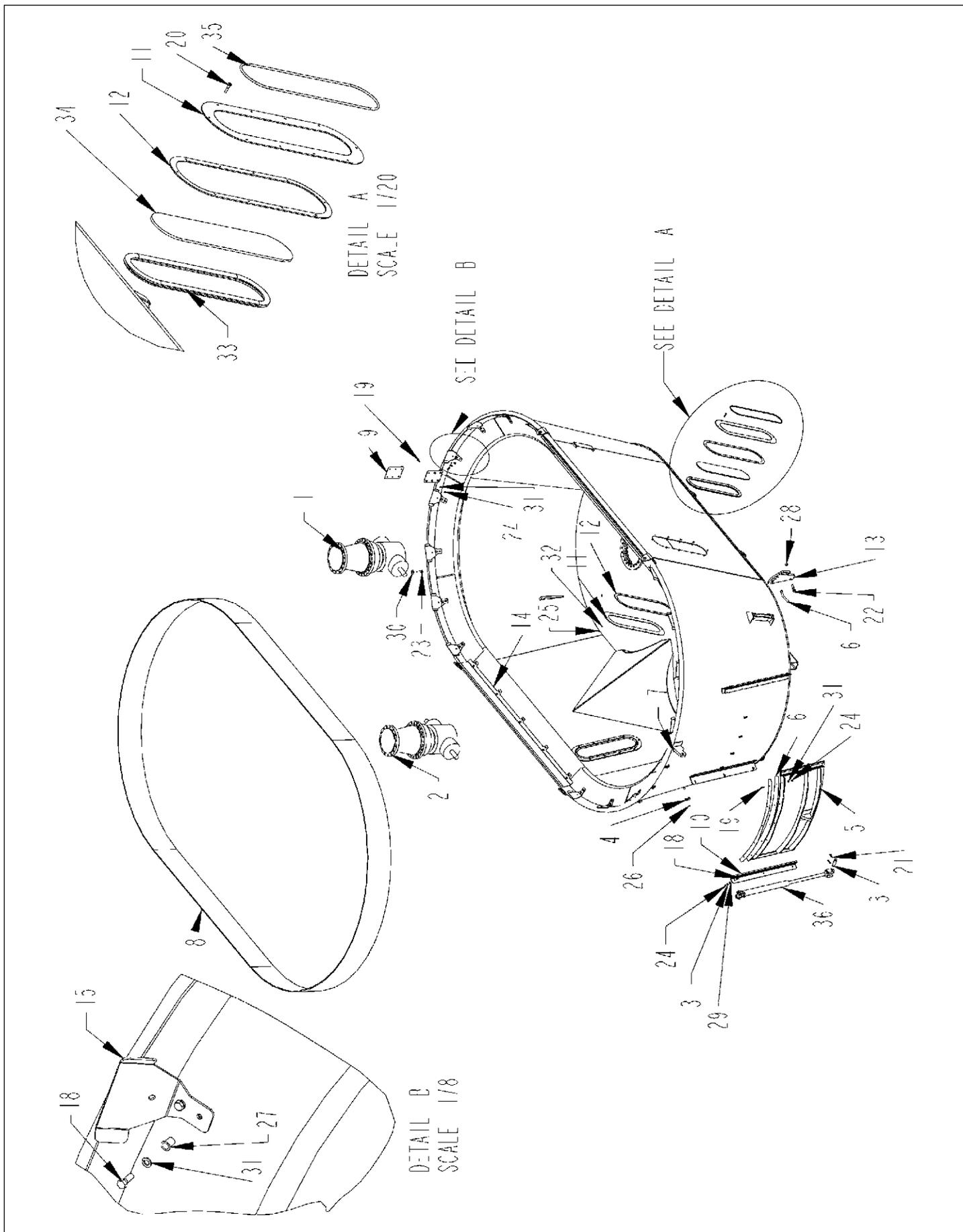
HAYBUSTER[®]

CMF-700[™]
VERTICAL
MIXER

S.N. UP TO 0012

Part 2:
Parts Reference

TUB ASSEMBLY

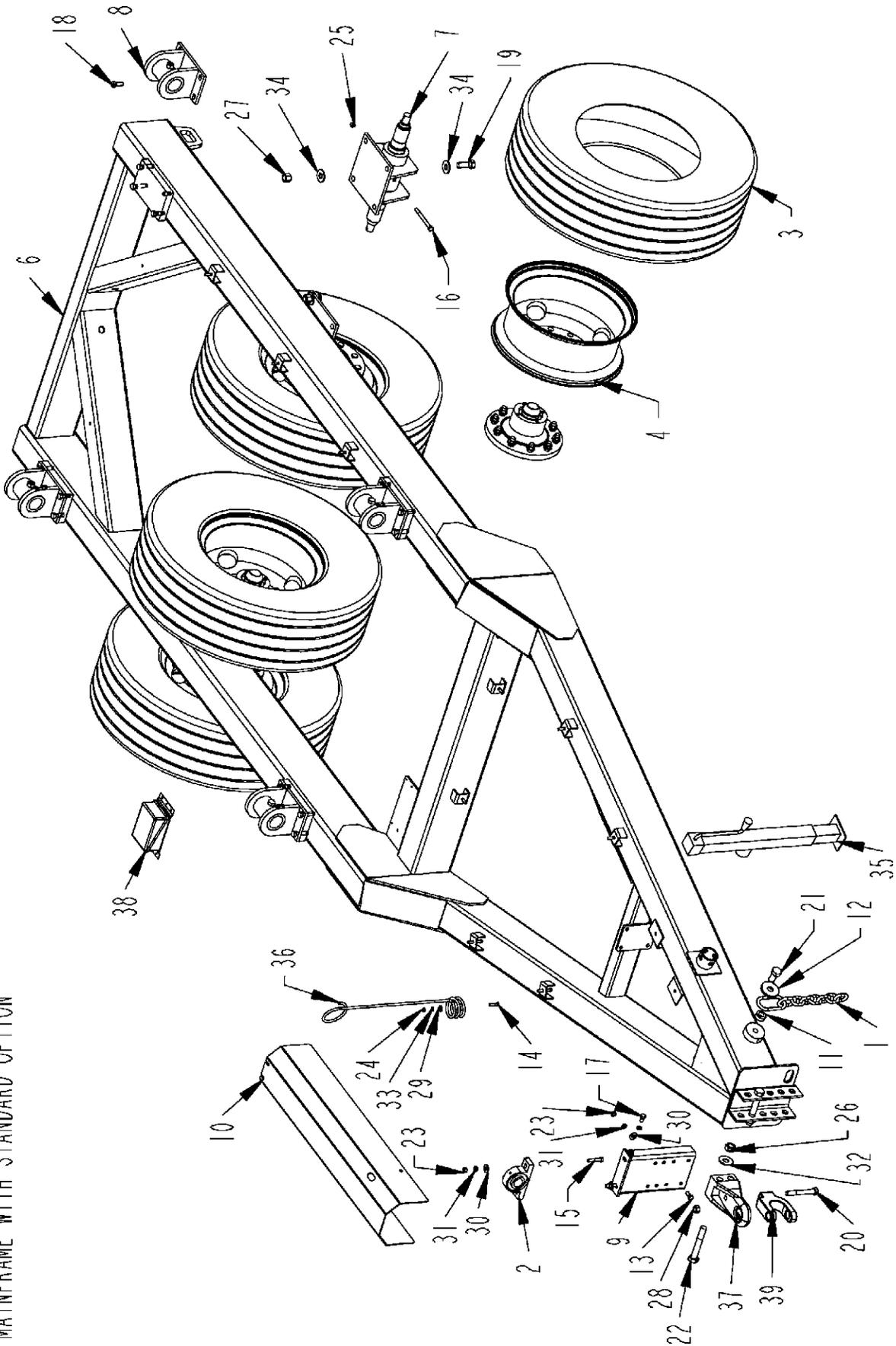


TUB ASSEMBLY

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------------|
| 1 | 3100207 | 1 | GRBX\PLANETARY\SNGL\1750 |
| 2 | 3100208 | 1 | GRBX\PLANETARY\DBL\1750 |
| 3 | 4100030 | 2 | PIN 1" X 3-1/2" HYD. CYL. |
| 4 | 4700776 | 6 | CLMP\HOSE\3/8 |
| 5 | 4704161 | 1 | DOOR\CNVYR\ASSY |
| 6 | 4704181 | 2 | PIN\LOCK\3/4X2-1/2 |
| 7 | 4704189 | 1 | MNT\CYL\DOOR\FRT\TUB\TMR |
| 8 | 4704312 | 1 | BELT\12"EXT\TMR |
| 9 | 4704340 | 2 | PL\CLMP\EXT\TUB |
| 10 | 4704359 | 2 | BRKT\DOOR\ASSY |
| 11 | 4704372 | 4 | PL\COVER\WNDW\CMF |
| 12 | 4704373 | 4 | PL\SPACER\COVER\WNDW\CMF |
| 13 | 4704397 | 2 | KNIFE\VERT\ASSY |
| 14 | 4704536 | 2 | CLAMP\SIDE\BELT\TUB |
| 15 | 4704537 | 16 | CLAMP\END\BELT\TUB |
| 16 | 4704538 | 1 | BELT\DOOR\CMF700 |
| 17 | 4704556 | 1 | SHWIPER\DOOR\700 |
| 18 | 4800003 | 64 | BOLT\HEX\3/8X1 |
| 19 | 4800034 | 11 | BOLT\HEX\3/8X1-1/2 |
| 20 | 4800081 | 20 | BOLT\HEX\5/16X1-1/2 |
| 21 | 4800107 | 4 | PIN\HAIR\1/8(#9) |
| 22 | 4800115 | 2 | BOLT\HEX\3/4X2-1/2 |
| 23 | 4800948 | 48 | BOLT\HEX\M16XM60 |
| 24 | 4900002 | 17 | NUT\HEX\3/8\NC |
| 25 | 4900003 | 20 | NUT\HEX\5/16\NC |
| 26 | 4900076 | 6 | NUT\FLG\SERR\3/8\NC |
| 27 | 4900082 | 52 | NUT\INSERT\3/8\027X.150GR |
| 28 | 4900139 | 2 | NUT\TPLCK\3/4\GR8\NC |
| 29 | 5000001 | 6 | WASH\FLAT\3/8 |
| 30 | 5000002 | 48 | WASH\FLAT\5/8 |
| 31 | 5000019 | 69 | WASH\LOCK\3/8 |
| 32 | 5000022 | 21 | WASH\LOCK\5/16 |
| 33 | 7501138 | 2 | WEATHERSTRIP\2PC\1/4X3/8X69 |
| 34 | 7501139 | 2 | WNDW\POLYCARB\8X30X3/8 |
| 35 | 7501223 | 2 | WITHRTRP\1/4X3/8\LOCK |
| 36 | 4100241 | 1 | CYL\HYD\2"X24"1-1/4"ROD |

MAINFRAME WITH SINGLE SPEED GEAR BOX (STANDARD)

MAINFRAME WITH STANDARD OPTION



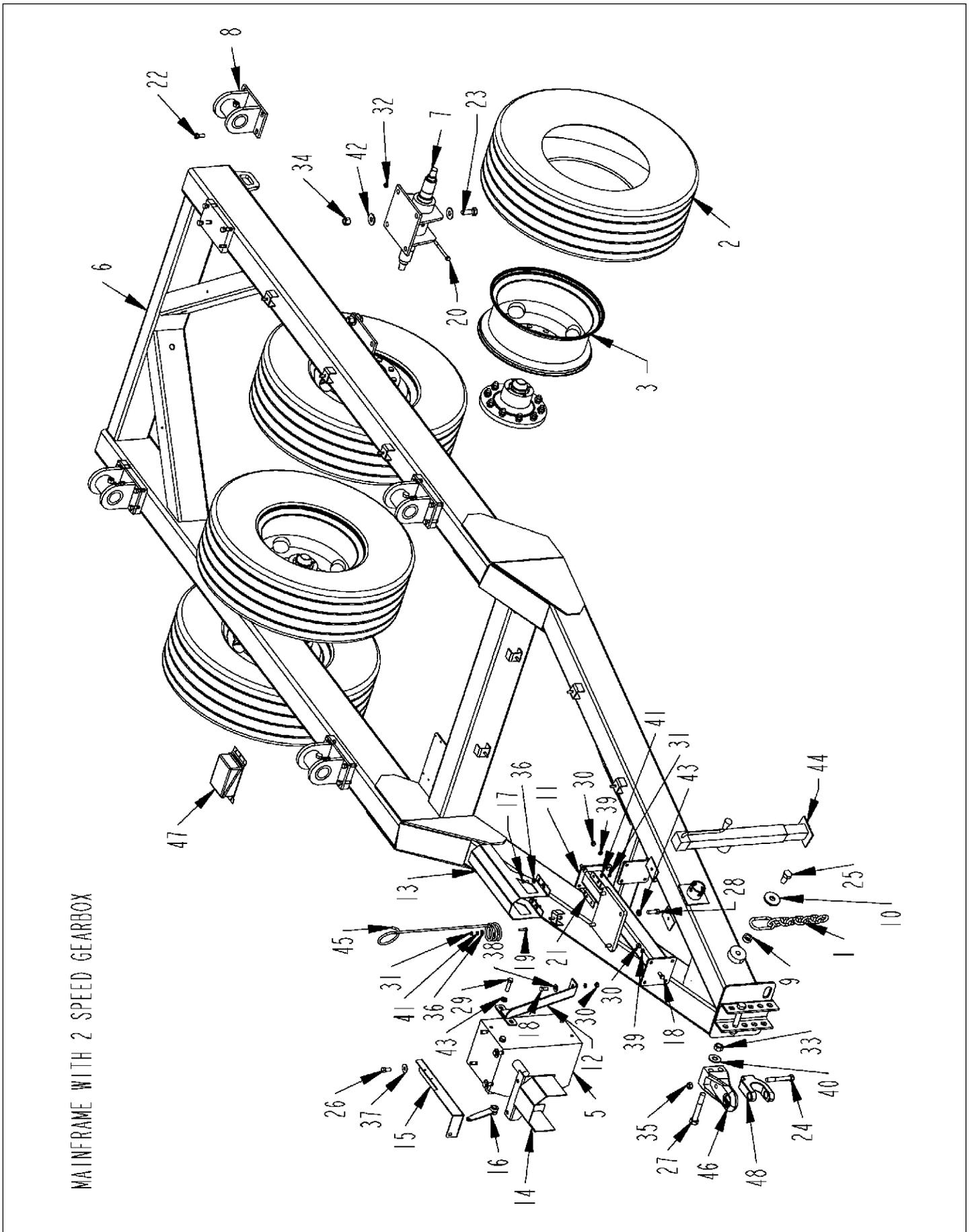
MAINFRAME WITH SINGLE SPEED GEAR BOX (STANDARD)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---------------------------------|
| 1 | 1100255 | 1 | CHAIN\SAFETY\AG\1/2"40K_CAP |
| 2 | 2000514 | 1 | BRG\PB\1-3/4\2BOLT\MALLEABLE |
| 3 | 2600049 | 4 | TIRE\315\80R22.5\20PLY\KUMHO |
| 4 | 2600646 | 4 | WHL\10-BOLT\22.5X9 |
| 5 | 2900145 | 4 | HUB\10-BOLT\11.25"BC |
| 6 | 4703985 | 1 | FRAME\TUB |
| 7 | 4703986 | 2 | MNT\AXLE |
| 8 | 4703989 | 4 | MNT\LOADCELL\FRAME |
| 9 | 4704173 | 1 | MNT\BRG\D/S |
| 10 | 4704177 | 1 | PL\SHIELD\D/S |
| 11 | 4704337 | 1 | BUSHING\MNT\CHAIN\SAFETY |
| 12 | 4704338 | 1 | WASHER\CHAIN\SAFETY |
| 13 | 4800018 | 4 | BOLT\HEX\1/2X1-1/4 |
| 14 | 4800034 | 1 | BOLT\HEX\3/8X1-1/2 |
| 15 | 4800070 | 2 | BOLT\HEX\1/2X2-1/2 |
| 16 | 4800077 | 2 | BOLT\HEX\1/2X5-1/2 |
| 17 | 4800085 | 2 | BOLT\HEX\1/2X1 |
| 18 | 4800106 | 16 | BOLT\HEX\5/8X1-1/2 |
| 19 | 4800470 | 8 | BOLT\HEX\7/8X2-1/2\NC |
| 20 | 4800492 | 1 | BOLT\HEX\3/4X5-1/2\GR8\NC |
| 21 | 4800547 | 1 | BOLT\HEX\1X2\NC |
| 22 | 4800919 | 2 | BOLT\HEX\1X6-1/2\GR5\NC |
| 23 | 4900001 | 6 | NUT\HEX\1/2\NC |
| 24 | 4900002 | 1 | NUT\HEX\3/8\NC |
| 25 | 4900014 | 2 | NUT\TPLCK\1/2\NC |
| 26 | 4900015 | 2 | NUT\NYLCK\1\NC |
| 27 | 4900136 | 8 | NUT\NYLCK\7/8\NC |
| 28 | 4900139 | 1 | NUT\TPLCK\3/4\GR8\NC |
| 29 | 5000001 | 1 | WASH\FLAT\3/8 |
| 30 | 5000004 | 8 | WASH\FLAT\1/2 |
| 31 | 5000006 | 8 | WASH\LOCK\1/2 |
| 32 | 5000014 | 2 | WASH\FLAT\1 |
| 33 | 5000019 | 1 | WASH\LOCK\3/8 |
| 34 | 5000098 | 16 | WASH\FLAT\7/8 |
| 35 | 5800627 | 1 | JACK\5000LB\SWIVEL-STYLE |
| 36 | 7500170 | 1 | HOSE MINDER |
| 37 | 7500641 | 1 | HITCH\BASE#\3\PPI\1"PIN |
| 38 | 7500978 | 1 | 2620 LOADCELL JUCTION BOX, 2000 |
| 39 | 7501216 | 1 | HITCH\CLEVIS\PPI\1.25"PIN |

DRIVELINES (NOT SHOWN)

| | |
|---------|---------------------------------------|
| 3600493 | PTO\252-2264\144EW\21K\FREEMTN\CLTCH |
| 3600530 | PTO\251-23026\44E\1-3/4\CV |
| 3600551 | PTO\242-23429\35EW\CLTCH\12K FREE MTN |

MAINFRAME WITH 2 SPEED GEAR BOX (OPTION)

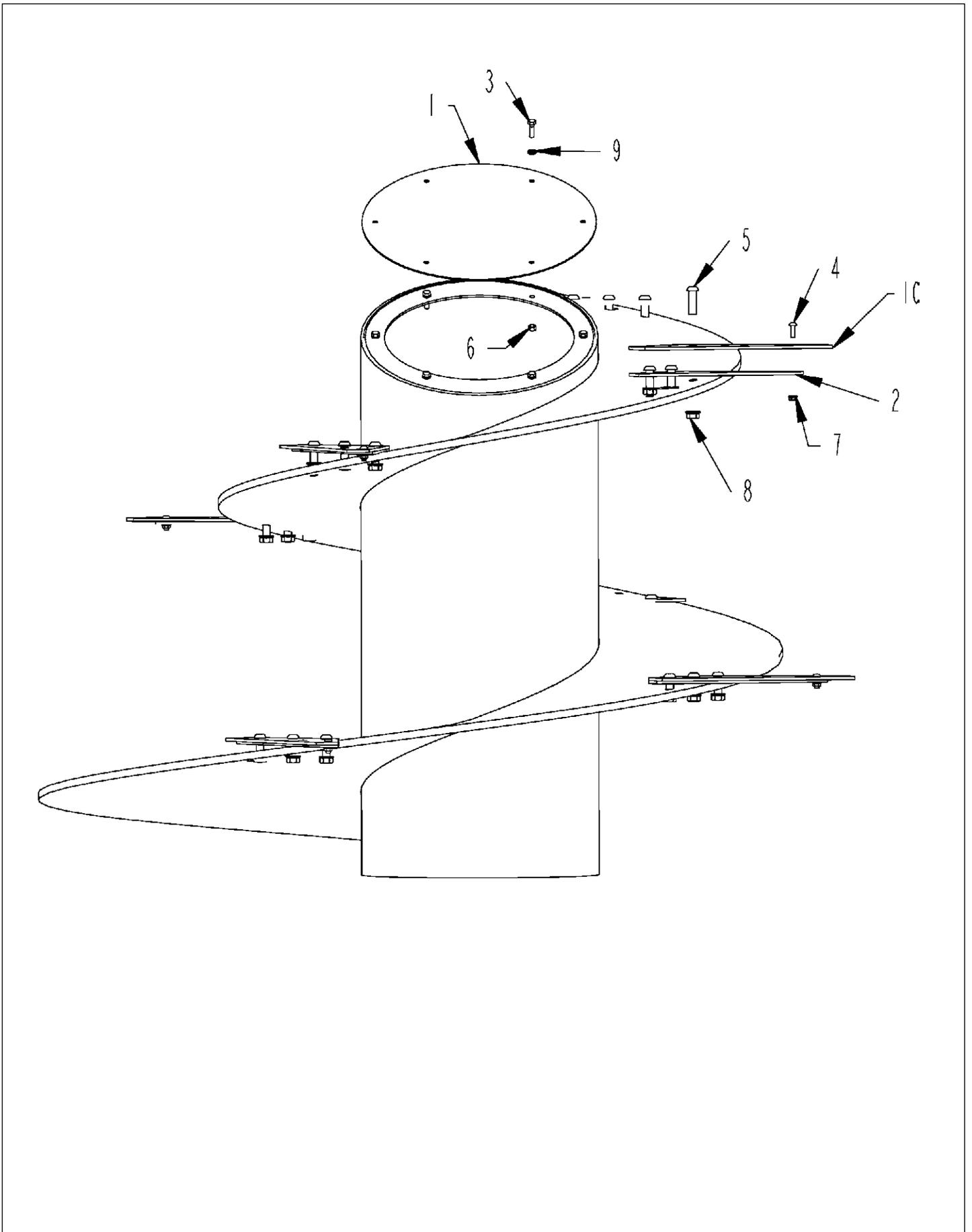


MAINFRAME WITH 2 SPEED GEARBOX

MAINFRAME WITH 2 SPEED GEAR BOX (OPTION)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--------------------------------------|
| 1 | 1100255 | 1 | CHAIN\SAFETY\AG\1/2"40K_CAP |
| 2 | 2600049 | 4 | TIRE\315\80R22.5\20PLY\KUMHO |
| 3 | 2600646 | 4 | WHL\10-BOLT\22.5X9 |
| 4 | 2900145 | 4 | HUB\10-BOLT\11.25"BC |
| 5 | 3100212 | 1 | GRBX\2SPD\1.8:1\RRUSA |
| 6 | 4703985 | 1 | FRAME\TUB |
| 7 | 4703986 | 2 | MNT\AXLE |
| 8 | 4703989 | 4 | MNT\LOADCELL\FRAME |
| 9 | 4704337 | 1 | BUSHING\MNT\CHAIN\SAFETY |
| 10 | 4704338 | 1 | WASHER\CHAIN\SAFETY |
| 11 | 4704543 | 1 | BRKT\2-SPD\GRBX |
| 12 | 4704544 | 1 | BRKT\SIDE2-SPD\GRBX |
| 13 | 4704545 | 1 | SHLD\DRV\LN\2SPD\GRBX |
| 14 | 4704546 | 1 | SHLD\DRV\LN\2SPD\GRBX\FRNT |
| 15 | 4704552 | 1 | BRKT\CBL\SHFT\2SPD\CMF |
| 16 | 4704553 | 1 | LNK\2SPD\CMF |
| 17 | 4800003 | 4 | BOLT\HEX\3/8X1 |
| 18 | 4800018 | 5 | BOLT\HEX\1/2X1-1/4 |
| 19 | 4800034 | 1 | BOLT\HEX\3/8X1-1/2 |
| 20 | 4800077 | 2 | BOLT\HEX\1/2X5-1/2 |
| 21 | 4800082 | 4 | BOLT\HEX\1/2X1-1/2 |
| 22 | 4800106 | 16 | BOLT\HEX\5/8X1-1/2 |
| 23 | 4800470 | 8 | BOLT\HEX\7/8X2-1/2\NC |
| 24 | 4800492 | 1 | BOLT\HEX\3/4X5-1/2\GR8\NC |
| 25 | 4800547 | 1 | BOLT\HEX\1X2\NC |
| 26 | 4800565 | 3 | BOLT\HEX\M16XM35 |
| 27 | 4800919 | 2 | BOLT\HEX\1X6-1/2\GR5\NC |
| 28 | 4800944 | 4 | BOLT\HEX\M16XM50 |
| 29 | 4800948 | 2 | BOLT\HEX\M16XM60 |
| 30 | 4900001 | 9 | NUT\HEX\1/2\NC |
| 31 | 4900002 | 5 | NUT\HEX\3/8\NC |
| 32 | 4900014 | 2 | NUT\PLCK\1/2\NC |
| 33 | 4900015 | 2 | NUT\NYLCK\1\NC |
| 34 | 4900136 | 8 | NUT\NYLCK\7/8\NC |
| 35 | 4900139 | 1 | NUT\PLCK\3/4\GR8\NC |
| 36 | 5000001 | 5 | WASH\FLAT\3/8 |
| 37 | 5000002 | 3 | WASH\FLAT\5/8 |
| 38 | 5000004 | 1 | WASH\FLAT\1/2 |
| 39 | 5000006 | 9 | WASH\LOCK\1/2 |
| 40 | 5000014 | 2 | WASH\FLAT\1 |
| 41 | 5000019 | 5 | WASH\LOCK\3/8 |
| 42 | 5000098 | 16 | WASH\FLAT\7/8 |
| 43 | 5000114 | 6 | WASH\FLAT\5/8\EXTRTHK\GR8 |
| 44 | 5800627 | 1 | JACK\5000LB\SWIVEL-STYLE |
| 45 | 7500170 | 1 | HOSE MINDER |
| 46 | 7500641 | 1 | HITCH\BASE#3\PP\1"PIN |
| 47 | 7500978 | 1 | 2620 LOADCELL JUCTION BOX, 2000 |
| 48 | 7501216 | 1 | HITCH\CLEVIS\PP\1.25"PIN |
| | | | DRIVELINES (NOT SHOWN) |
| | 3600551 | | PTO\242-23429\35E\W\CLTCH 12K MNT |
| | 3600553 | | PTO\251-23460\44E\1-3/4CV\2SPD OPT |
| | 3600554 | | PTO\252-23461\44E\2SPD\OPT\W21KCLTCH |

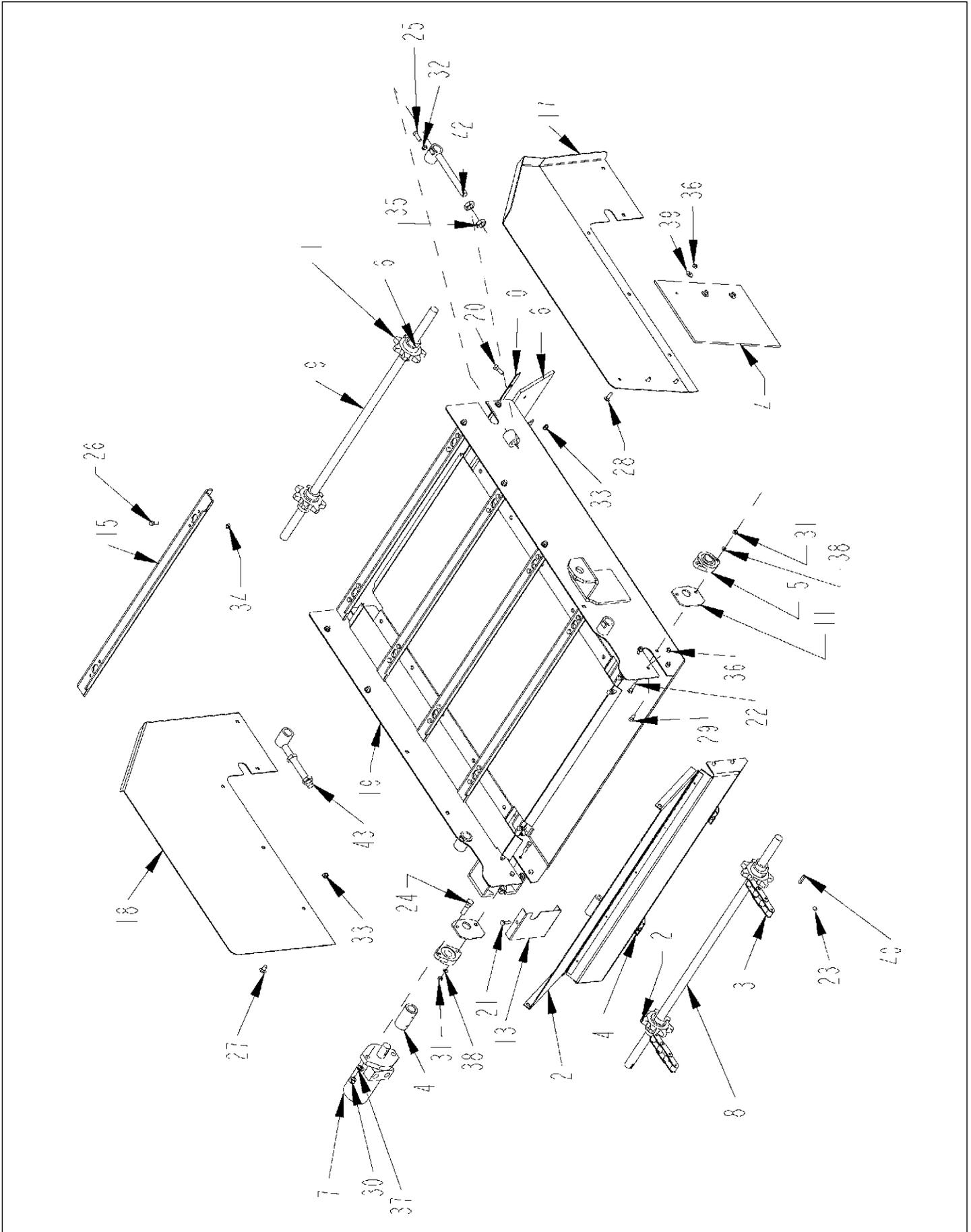
AUGER ASSEMBLY



AUGER ASSEMBLY

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------|
| 1 | 4704314 | 1 | PL\CAP\CYLAUGER |
| 2 | 4704365 | 7 | PL\BACK\BLADE |
| 3 | 4800098 | 6 | BOLT\HEX\3/8X1-1/4\NC |
| 4 | 4800244 | 7 | SCR\BUT\ALN\3/8X1\NC |
| 5 | 4800659 | 21 | SCR\BUT\ALN\5/8X2\NC |
| 6 | 4900002 | 6 | NUT\HEX\3/8\NC |
| 7 | 4900090 | 7 | NUT\FLG\3/8\NC |
| 8 | 4900110 | 21 | NUT\FLG\SERR\5/8\NC |
| 9 | 5000019 | 6 | WASH\LOCK\3/8 |
| 10 | 7501161 | 7 | BLADE\CMF |

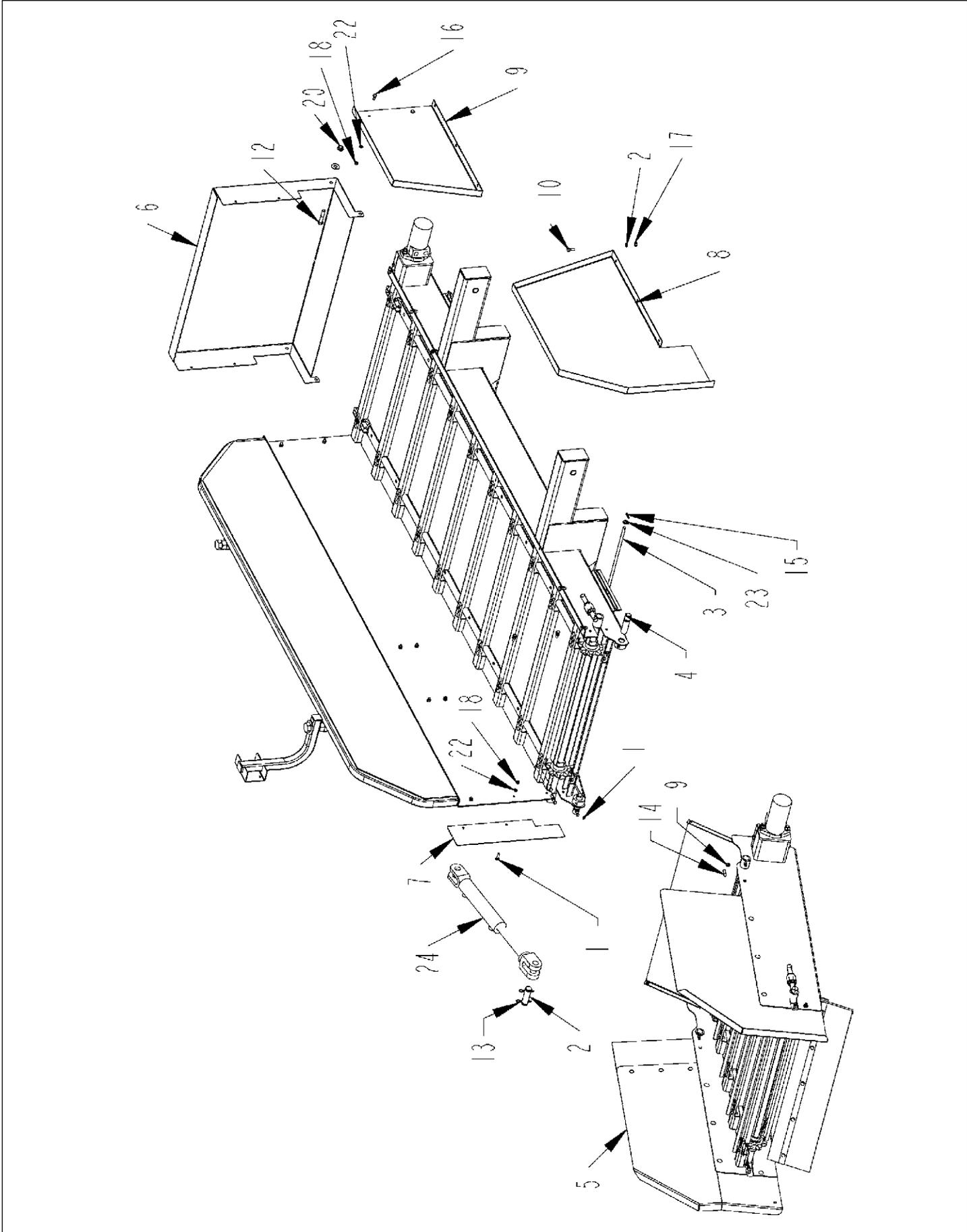
LEFT HAND DISCHARGE CONVEYOR ASSEMBLY



LEFT HAND DISCHARGE CONVEYOR ASSEMBLY

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------------|-----------------|-------------|---------------------------------|
| 1 | 1000088 | 2 | SPKT\662\7\1\IDLER\CA |
| 2 | 1000089 | 2 | SPKT\662\7\1\1/4KW\DR |
| 3 | 1100150 | 2 | CHAIN\620CA\53W\ATTCH |
| 4 | 1400586 | 1 | COUPLER\SHAFT\1" ID\3" LONG |
| 5 | 2000310 | 2 | BRG\FLG\CAST\1/2BOLT |
| 6 | 2000809 | 8 | CLLOR\SHFT\1\SET |
| 7 | 3900025 | 1 | MTR\HYD\17.9\HA;MNT\7/8FOR\1SFT |
| 8 | 4704319 | 1 | SHFT\DRV\CNVYR |
| 9 | 4704320 | 1 | SHFT\DLR\CNVYR |
| 10 | 4704325 | 1 | FLATWIPER\CNVYR |
| 11 | 4704327 | 2 | GUARD\CNVYR |
| 12 | 4704328 | 1 | PAN\TRANS\CNVYR |
| 13 | 4704349 | 1 | SHLD\CPLR\CNVYR |
| 14 | 4704376 | 1 | BELT\1/4X10X15-1/2 |
| 15 | 4704387 | 9 | SLAT\CHAIN\EXT\CNVYR |
| 16 | 4704391 | 1 | BELT\DEFL\EXT\CNVYR |
| 17 | 4704510 | 1 | EXT\SIDE\CNVYR\IH |
| 18 | 4704511 | 1 | EXT\SIDE\CNVYR\LH |
| 19 | 4704525 | 1 | SIDE\LH\CNVYR\WELD\CMF |
| 20 | 4800003 | 5 | BOLT\HEX\3/8X1 |
| 21 | 4800013 | 2 | BOLT\HEX\5/16X1 |
| 22 | 4800071 | 4 | BOLT\HEX\5/16X1-1/4 |
| 23 | 4800143 | 4 | SCR\SET\ALN\3/8X3/8\NC |
| 24 | 4800178 | 2 | BOLT\HEX\1/2X1-3/4 |
| 25 | 4800307 | 1 | SCR\SET\SQ\3/8X1\NC |
| 26 | 4800393 | 36 | BOLT\HEX\5/16X7/8\GR8 |
| 27 | 4800394 | 8 | BOLT\CRG\3/8X3/4\NC |
| 28 | 4800473 | 3 | BOLT\CRG\5/16X1\NC |
| 29 | 4800643 | 4 | BOLT\HEX\5/16X3/4 |
| 30 | 4900001 | 2 | NUT\HEX\1/2\NC |
| 31 | 4900003 | 4 | NUT\HEX\5/16\NC |
| 32 | 4900026 | 1 | NUT\JAM\3/8\NC |
| 33 | 4900090 | 13 | NUT\FLG\3/8\NC |
| 34 | 4900099 | 36 | NUT\TPLCK\5/16\GR8\NC |
| 35 | 4900104 | 4 | NUT\JAM\3/4\NC |
| 36 | 4900142 | 7 | NUT\TPLCK\5/16\NC |
| 37 | 5000006 | 2 | WASH\LOCK\1/2 |
| 38 | 5000022 | 4 | WASH\LOCK\5/16 |
| 39 | 5000023 | 3 | WASH\FLAT\5/16 |
| 40 | 6200014 | 2 | KEY\SQ\1/4X1-1/4 |
| 41 | 7501218 | 2 | LATCH\DRAW\200LB |
| 42 | 8100783 | 1 | BRKT\SHAFT\IDLER\CNVYR |
| 43 | 8101022 | 1 | BRKT\SHAFT\IDLER\NO-TAP |

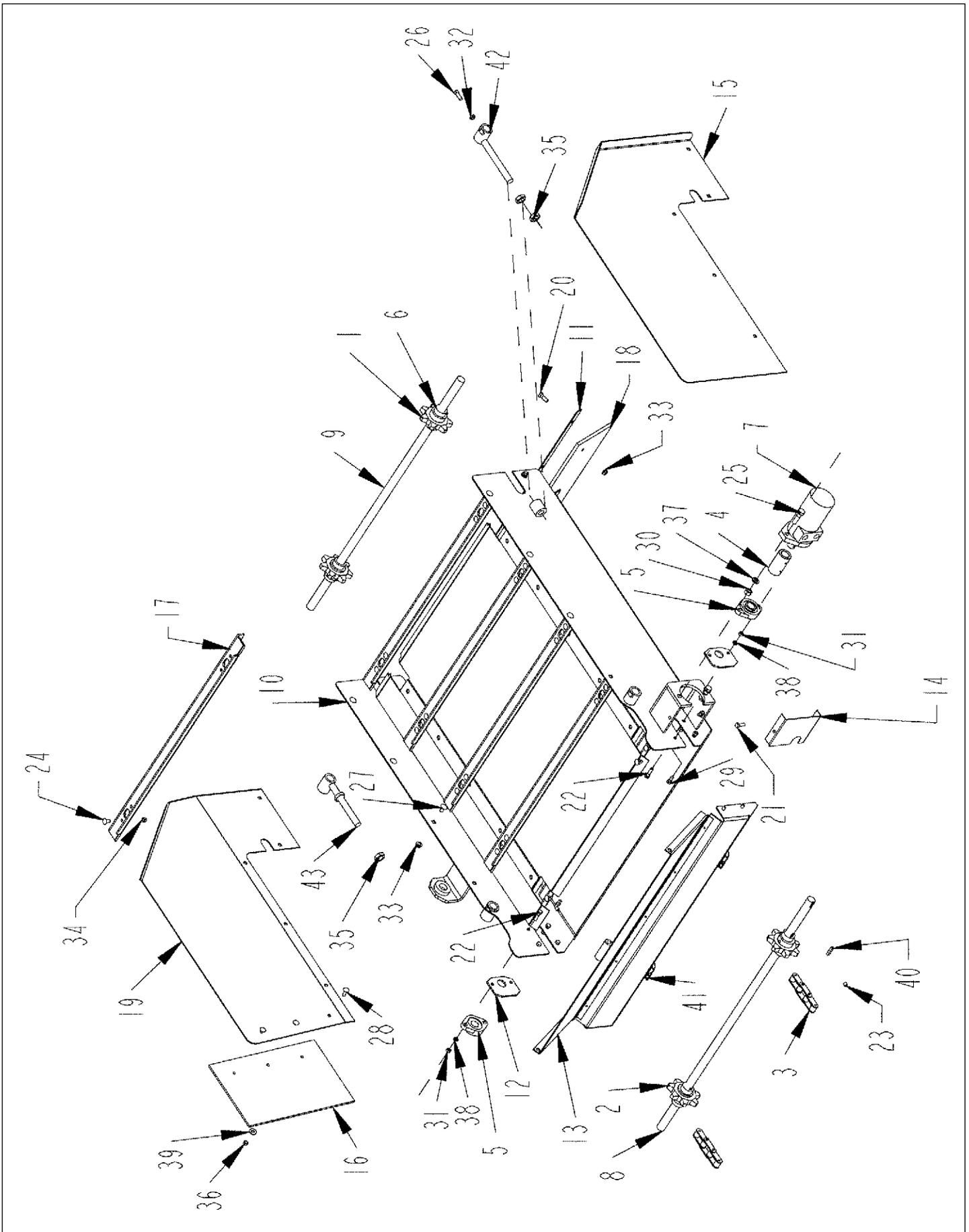
COMPLETE LEFT HAND DISCHARGE CONVEYOR ASSEMBLY



COMPLETE LEFT HAND DISCHARGE CONVEYOR ASSEMBLY

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------------|-----------------|-------------|----------------------------|
| 1 | 3800043 | 4 | FTG\LUB\1\8MPXZRK\SHORT |
| 2 | 4100030 | 2 | PIN 1" X 3-1/2" HYD. CYL. |
| 3 | 4704329 | 2 | ROD\TRANS\CNVYR |
| 4 | 4704330 | 2 | PIN\SIDE\CNVYR |
| 5 | 4704335 | 1 | SIDE\LH\CNVYR\ASSY |
| 6 | 4704368 | 1 | GUARD\WIND\CNVYR |
| 7 | 4704375 | 1 | PL\SHIELD\EXT\CNVYR |
| 8 | 4704509 | 1 | SHLD\TRANSITION\LEFT |
| 9 | 4704519 | 1 | EXT\RIGHT\SIDE\CNVYR |
| 10 | 4800003 | 11 | BOLT\HEX\3\8X1 |
| 11 | 4800013 | 14 | BOLT\HEX\5\16X1 |
| 12 | 4800070 | 2 | BOLT\HEX\1\2X2-1\2 |
| 13 | 4800107 | 4 | PIN\HAIR\1\8(#9) |
| 14 | 4800307 | 4 | SCR\SET\SQ\3\8X1\NC |
| 15 | 4800531 | 4 | PIN\COT\3\16X3\4 |
| 16 | 4800643 | 6 | BOLT\HEX\5\16X3\4 |
| 17 | 4900002 | 17 | NUT\HEX\3\8\NC |
| 18 | 4900003 | 20 | NUT\HEX\5\16\NC |
| 19 | 4900026 | 4 | NUT\JAM\3\8\NC |
| 20 | 4900133 | 2 | NUT\FLG\1\2\NC |
| 21 | 5000019 | 17 | WASH\LOCK\3\8 |
| 22 | 5000022 | 20 | WASH\LOCK\5\16 |
| 23 | 5000123 | 2 | WASH\FLAT\7\16\EXTRTHK\GR8 |
| 24 | 4100210 | 1 | CYL\HYD\2X8\1-1\4RD\WELDE |

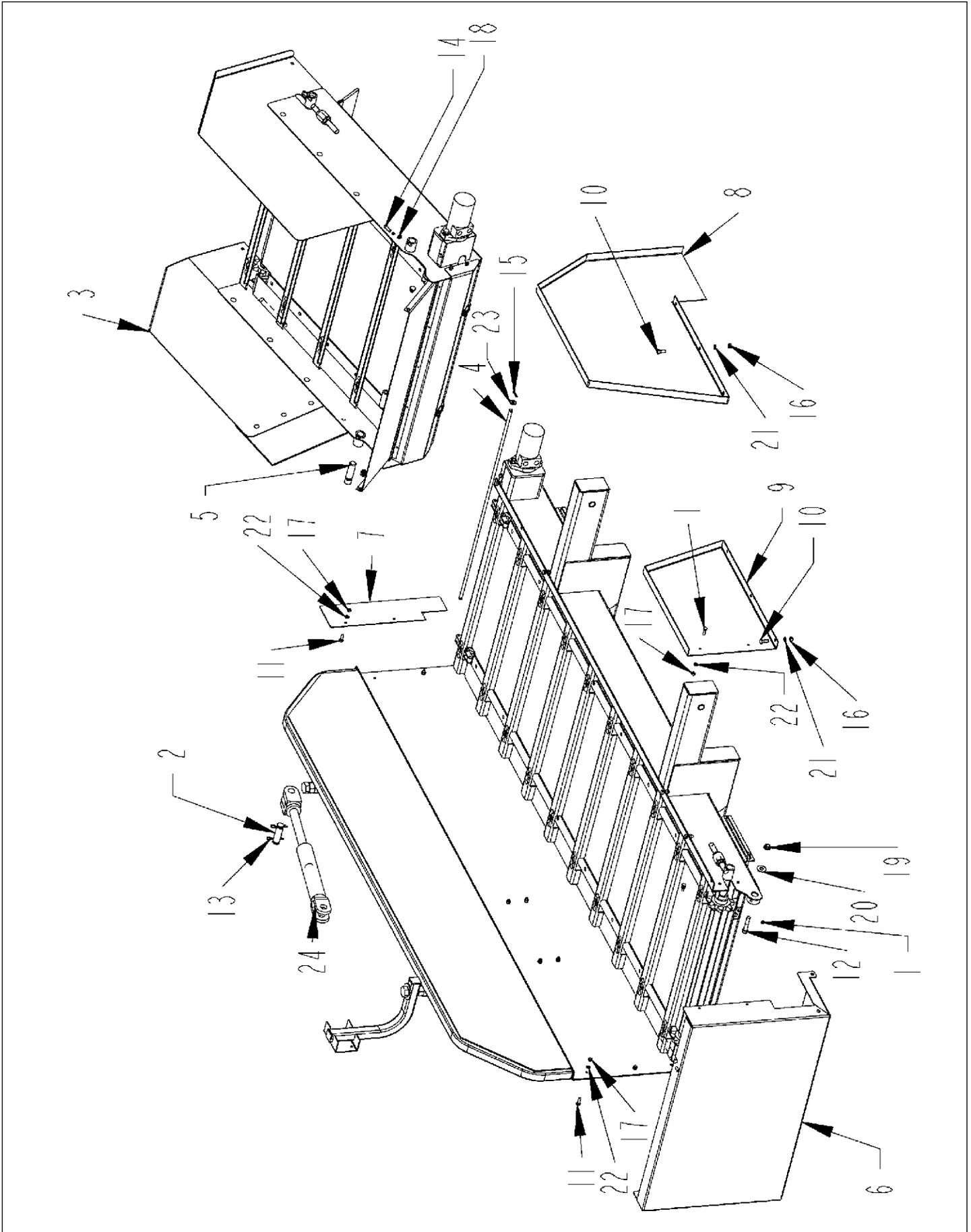
RIGHT HAND DISCHARGE CONVEYOR ASSEMBLY



RIGHT HAND DISCHARGE CONVEYOR ASSEMBLY

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------------|-----------------|-------------|---------------------------------|
| 1 | 1000088 | 2 | SPKT\662\7\1\IDLER\CA |
| 2 | 1000089 | 2 | SPKT\662\7\1\1\4\K\WDR |
| 3 | 1100150 | 2 | CHAIN\620CA\53W\ATTCH |
| 4 | 1400586 | 1 | COUPLER\SHAFT\1" ID\3" LONG |
| 5 | 2000310 | 2 | BRG\FLG\CAST\1\2BOLT |
| 6 | 2000809 | 8 | CLLOR\SHFT\1\SET |
| 7 | 3900025 | 1 | MTR\HYD\17.9\HA;MNT\7\8FOR\1SFT |
| 8 | 4704319 | 1 | SHFT\DRV\CNVYR |
| 9 | 4704320 | 1 | SHFT\IDL\R\CNVYR |
| 10 | 4704323 | 1 | SIDE\RH\CNVYR\WELD\CMF |
| 11 | 4704325 | 1 | FLAT\WIPER\CNVYR |
| 12 | 4704327 | 2 | GUARD\CNVYR |
| 13 | 4704328 | 1 | PAN\TRANS\CNVYR |
| 14 | 4704349 | 1 | SHLD\CPLR\CNVYR |
| 15 | 4704374 | 1 | EXT\SIDE\CNVYR\RH |
| 16 | 4704376 | 1 | BELT\1\4X10X15-1\2 |
| 17 | 4704387 | 9 | SLAT\CHAIN\EXT\CNVYR |
| 18 | 4704391 | 1 | BELT\DEFL\EXT\CNVYR |
| 19 | 4704508 | 1 | EXT\SIDE\CNVYR\RH |
| 20 | 4800003 | 5 | BOLT\HEX\3\8X1 |
| 21 | 4800013 | 2 | BOLT\HEX\5\16X1 |
| 22 | 4800071 | 4 | BOLT\HEX\5\16X1-1\4 |
| 23 | 4800143 | 4 | SCR\SET\ALN\3\8X3\8\NC |
| 24 | 4800153 | 36 | BOLT\CRG\5\16X3\4\NC |
| 25 | 4800178 | 2 | BOLT\HEX\1\2X1-3\4 |
| 26 | 4800307 | 1 | SCR\SET\SQ\3\8X1\NC |
| 27 | 4800394 | 8 | BOLT\CRG\3\8X3\4\NC |
| 28 | 4800473 | 3 | BOLT\CRG\5\16X1\NC |
| 29 | 4800643 | 4 | BOLT\HEX\5\16X3\4 |
| 30 | 4900001 | 2 | NUT\HEX\1\2\NC |
| 31 | 4900003 | 4 | NUT\HEX\5\16\NC |
| 32 | 4900026 | 1 | NUT\JAM\3\8\NC |
| 33 | 4900090 | 13 | NUT\FLG\3\8\NC |
| 34 | 4900099 | 36 | NUT\TPLCK\5\16\GR8\NC |
| 35 | 4900104 | 4 | NUT\JAM\3\4\NC |
| 36 | 4900142 | 7 | NUT\TPLCK\5\16\NC |
| 37 | 5000006 | 2 | WASH\LOCK\1\2 |
| 38 | 5000022 | 4 | WASH\LOCK\5\16 |
| 39 | 5000023 | 3 | WASH\FLAT\5\16 |
| 40 | 6200014 | 2 | KEY\SQ\1\4X1-1\4 |
| 41 | 7501218 | 2 | LATCH\DRAW\200LB |
| 42 | 8100783 | 1 | BRKT\SHAFT\IDLER\CNVYR |
| 43 | 8101022 | 1 | BRKT\SHAFT\IDLER\NO-TAP |

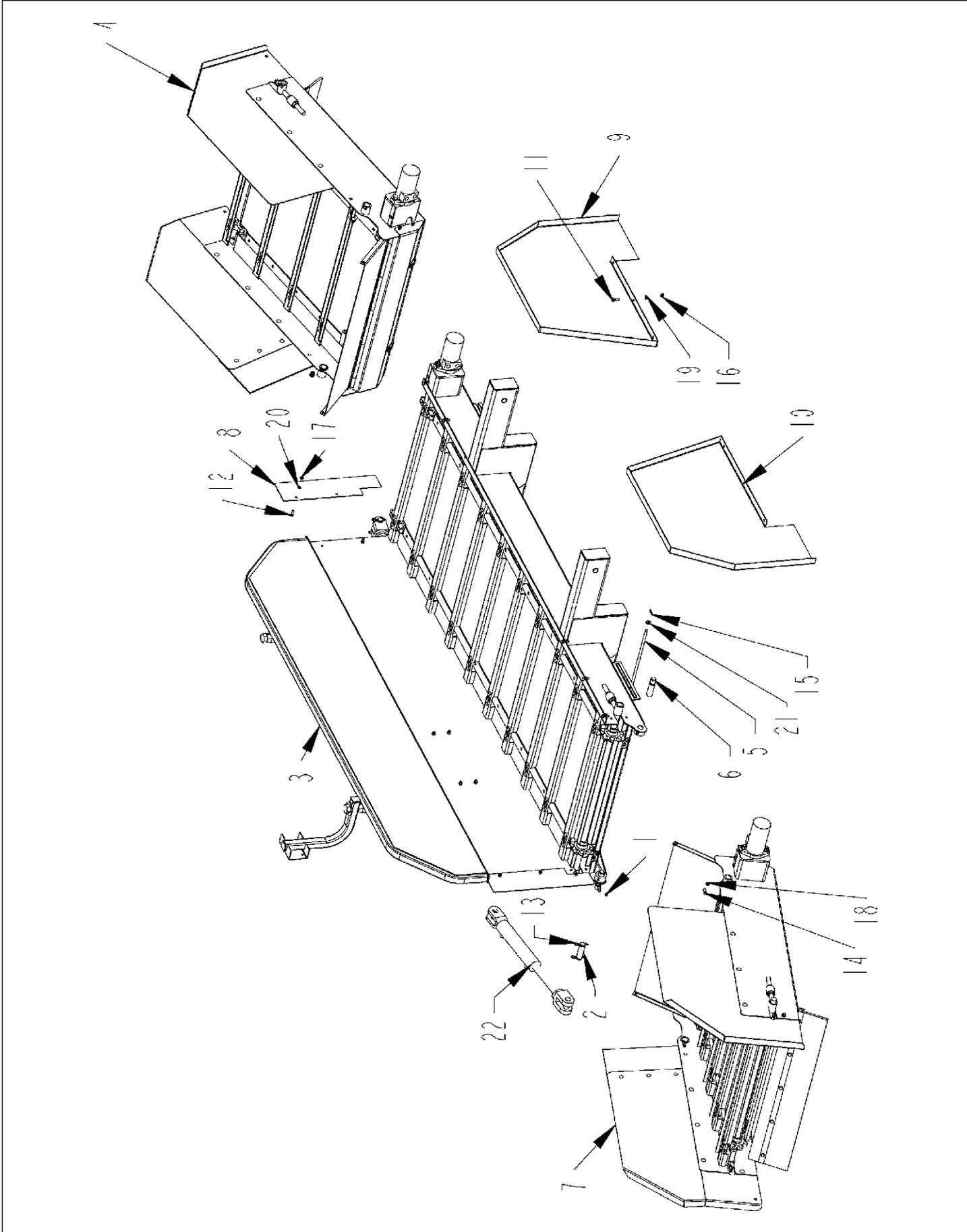
COMPLETE RIGHT HAND DISCHARGE CONVEYOR ASSEMBLY



COMPLETE RIGHT HAND DISCHARGE CONVEYOR ASSEMBLY

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------------|-----------------|-------------|----------------------------|
| 1 | 3800043 | 4 | FTG\LUB\1/8MPXZRK\SHORT |
| 2 | 4100030 | 2 | PIN 1" X 3-1/2" HYD. CYL. |
| 3 | 4704321 | 1 | SIDE\RH\CNVYR\ASSY |
| 4 | 4704329 | 3 | ROD\TRANS\CNVYR |
| 5 | 4704330 | 2 | PIN\SIDE\CNVYR |
| 6 | 4704368 | 1 | GUARD\WIND\CNVYR |
| 7 | 4704375 | 1 | PL\SHIELD\EXT\CNVYR |
| 8 | 4704377 | 1 | SHLD\TRANSITION\RIGHT |
| 9 | 4704378 | 1 | EXT\LEFT\CNVYR |
| 10 | 4800003 | 11 | BOLT\HEX\3/8X1 |
| 11 | 4800013 | 14 | BOLT\HEX\5/16X1 |
| 12 | 4800070 | 2 | BOLT\HEX\1/2X2-1/2 |
| 13 | 4800107 | 4 | PIN\HAIR\1/8(#9) |
| 14 | 4800307 | 4 | SCR\SET\SQ\3/8X1\NC |
| 15 | 4800531 | 6 | PIN\COT\3/16X3/4 |
| 16 | 4900002 | 17 | NUT\HEX\3/8\NC |
| 17 | 4900003 | 18 | NUT\HEX\5/16\NC |
| 18 | 4900026 | 4 | NUT\JAM\3/8\NC |
| 19 | 4900133 | 2 | NUT\FLG\1/2\NC |
| 20 | 5000004 | 2 | WASH\FLAT\1/2 |
| 21 | 5000019 | 17 | WASH\LOCK\3/8 |
| 22 | 5000022 | 18 | WASH\LOCK\5/16 |
| 23 | 5000123 | 2 | WASH\FLAT\7/16\EXTRTHK\GR8 |
| 24 | 4100210 | 1 | CYL\HYD\2X8\1-1/4RD\WELDE |

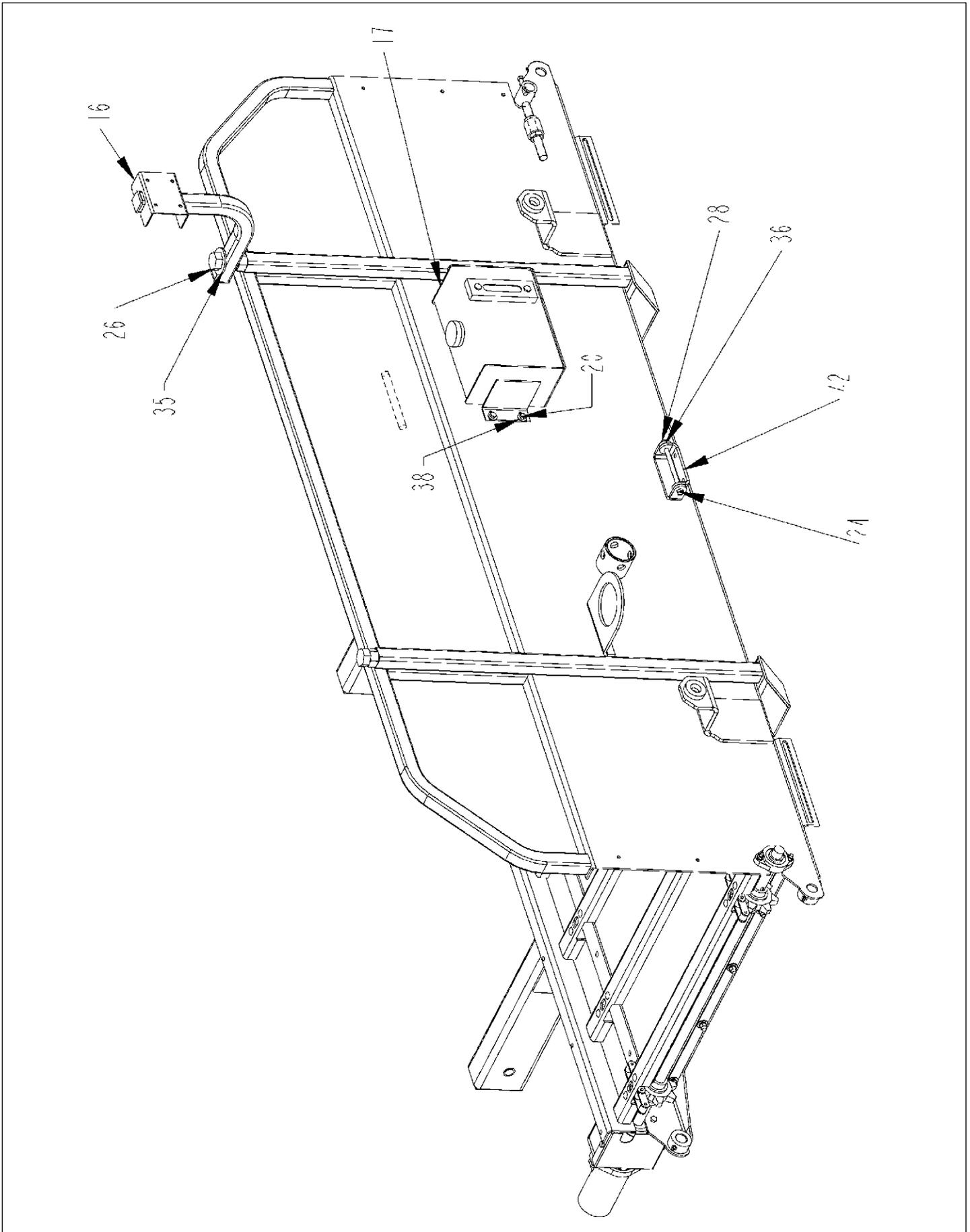
DUAL DISCHARGE CONVEYOR ASSEMBLY (OPTION)



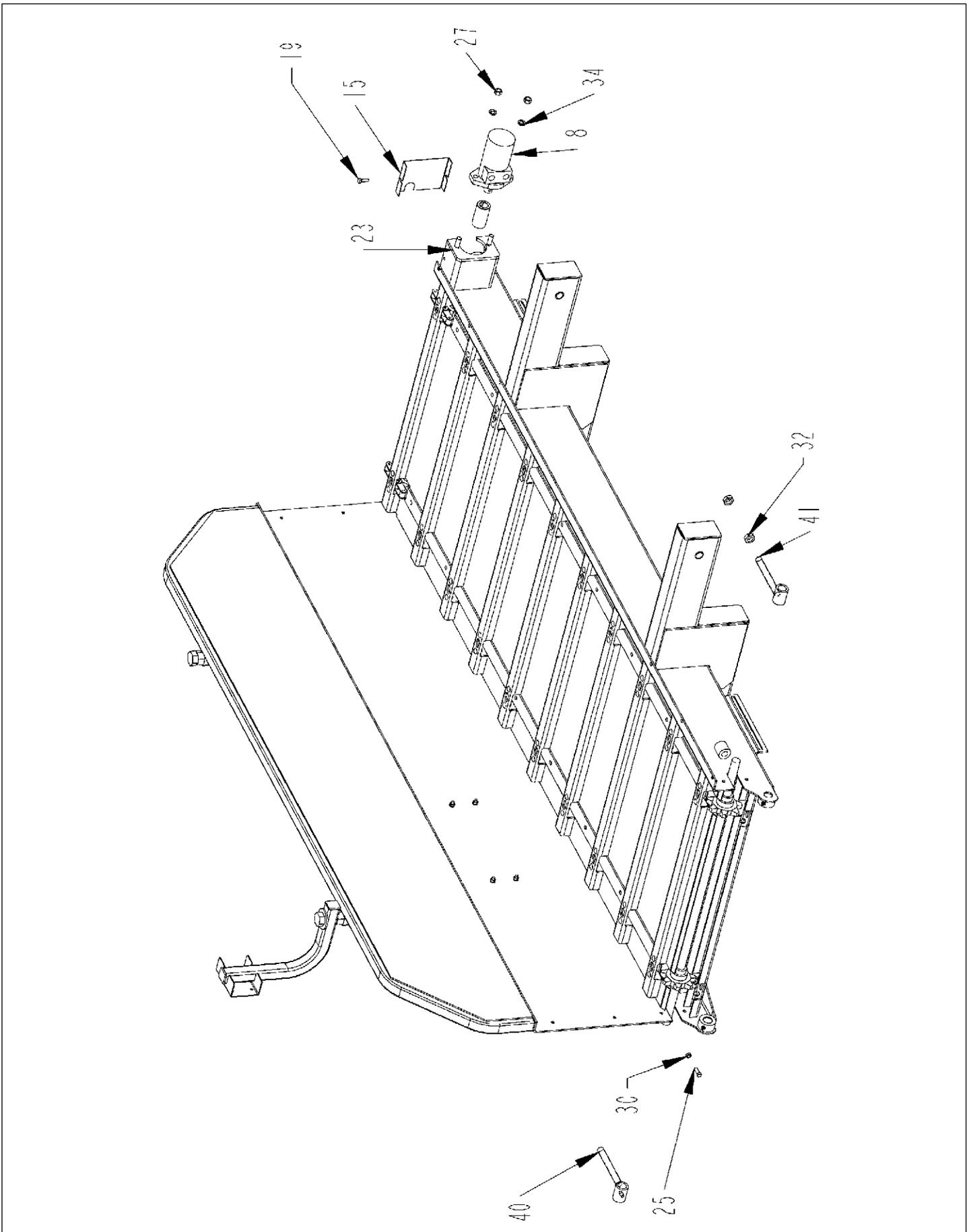
DUAL DISCHARGE CONVEYOR ASSEMBLY (OPTION)

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------------|-----------------|-------------|----------------------------|
| 1 | 3800043 | 4 | FTG\LUB\1\8MPXZRK\SHORT |
| 2 | 4100030 | 4 | PIN 1" X 3-1/2" HYD. CYL. |
| 3 | 4704154 | 1 | CNVYR\ASSY\TMR |
| 4 | 4704321 | 1 | SIDE\RH\CNVYR\ASSY |
| 5 | 4704329 | 2 | ROD\TRANS\CNVYR |
| 6 | 4704330 | 4 | PIN\SIDE\CNVYR |
| 7 | 4704335 | 1 | SIDE\LH\CNVYR\ASSY |
| 8 | 4704375 | 2 | PL\SHIELD\EXT\CNVYR |
| 9 | 4704377 | 1 | SHLD\TRANSITION\RIGHT |
| 10 | 4704509 | 1 | SHLD\TRANSITION\LEFT |
| 11 | 4800003 | 16 | BOLT\HEX\3\8X1 |
| 12 | 4800013 | 14 | BOLT\HEX\5\16X1 |
| 13 | 4800107 | 8 | PIN\HAIR\1\8(#9) |
| 14 | 4800307 | 7 | SCR\SET\SQ\3\8X1\NC |
| 15 | 4800531 | 4 | PIN\COT\3\16X3\4 |
| 16 | 4900002 | 17 | NUT\HEX\3\8\NC |
| 17 | 4900003 | 20 | NUT\HEX\5\16\NC |
| 18 | 4900026 | 7 | NUT\JAM\3\8\NC |
| 19 | 5000019 | 17 | WASH\LOCK\3\8 |
| 20 | 5000022 | 20 | WASH\LOCK\5\16 |
| 21 | 5000123 | 4 | WASH\FLAT\7\16\EXTRTHK\GR8 |
| 22 | 4100210 | 2 | CYL\HYD\2X8\1-1\4RD\WELDE |

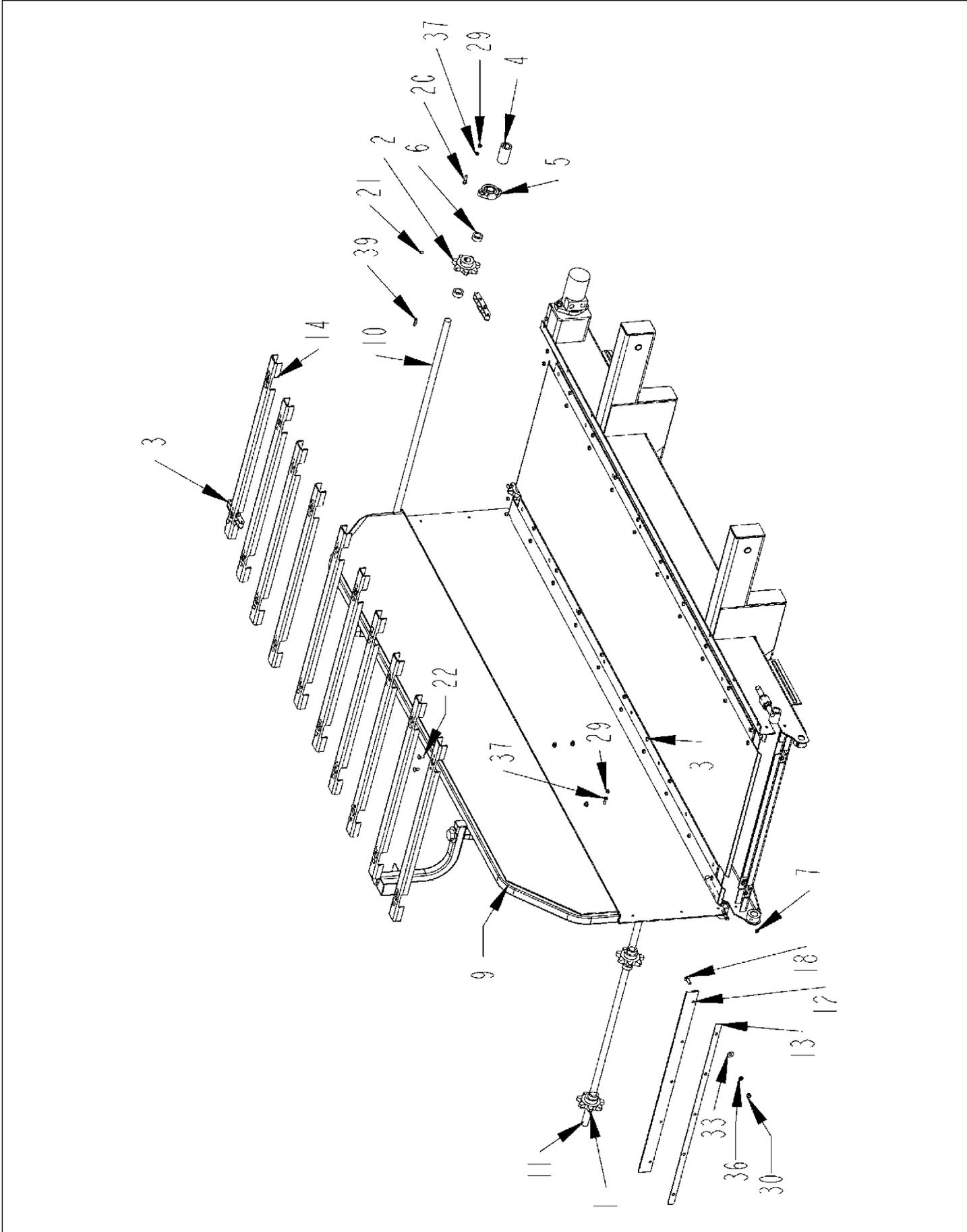
MAIN CONVEYOR ASSEMBLY (SUB-ASSEMBLY 1)



MAIN CONVEYOR ASSEMBLY (SUB-ASSEMBLY 2)



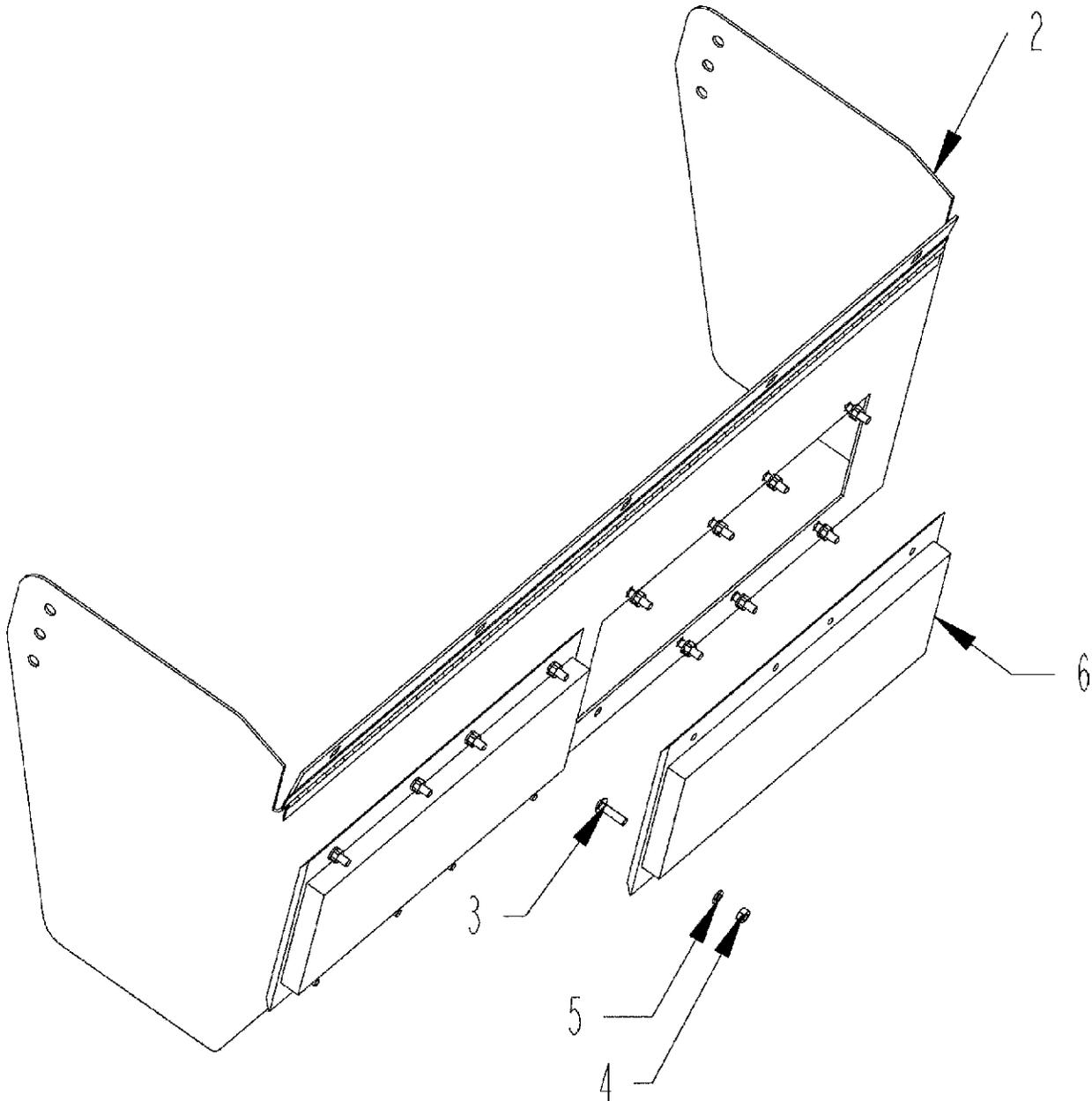
MAIN CONVEYOR ASSEMBLY (SUB-ASSEMBLY 3)



MAIN CONVEYOR ASSEMBLY PARTS LIST

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|------------------------------------|
| 1 | 1000088 | 2 | SPKT\662\7\1\IDLER\CA |
| 2 | 1000089 | 2 | SPKT\662\7\1\1/4KW\DR |
| 3 | 1100256 | 2 | CHAIN\620CA\120W\ATTCH |
| 4 | 1400586 | 1 | COUPLER\SHAFT\1" ID\3" LONG |
| 5 | 2000310 | 2 | BRG\FLG\CAST\1/2BOLT |
| 6 | 2000809 | 8 | CLLOR\SHFT\1\SET |
| 7 | 3800043 | 4 | FTGL\LUB\1/8MPXZRK\SHORT |
| 8 | 3900032 | 1 | MOTOR\HYD\2.6\H\AMNT\7/8\FOR\1SHFT |
| 9 | 4703994 | 1 | CNVYR\ASSY\TMR |
| 10 | 4704319 | 1 | SHFT\DRV\CNVYR |
| 11 | 4704320 | 1 | SHFT\IDLR\CNVYR |
| 12 | 4704324 | 2 | WIPER\CNVYR |
| 13 | 4704325 | 2 | FLAT\WIPER\CNVYR |
| 14 | 4704326 | 20 | SLAT\CHAIN\CNVYR\TMR |
| 15 | 4704349 | 1 | SHLD\CPLR\CNVYR |
| 16 | 4704388 | 1 | BRKT\IND\SCALE |
| 17 | 4704506 | 1 | TANK\HYD\ASSY\CMF |
| 18 | 4800012 | 14 | BOLT\CRG\3/8X1-1/4\NC |
| 19 | 4800013 | 6 | BOLT\HEX\5/16X1 |
| 20 | 4800071 | 4 | BOLT\HEX\5/16X1-1/4 |
| 21 | 4800143 | 4 | SCR\SET\ALN\3/8X3/8\NC |
| 22 | 4800153 | 80 | BOLT\CRG\5/16X3/4\NC |
| 23 | 4800178 | 2 | BOLT\HEX\1/2X1-3/4 |
| 24 | 4800210 | 1 | BOLT\HEX\3/8X6 |
| 25 | 4800307 | 1 | SCR\SET\SQ\3/8X1\NC |
| 26 | 4800647 | 2 | BOLT\HEX\1X4\NC |
| 27 | 4900001 | 2 | NUT\HEX\1/2\NC |
| 28 | 4900002 | 15 | NUT\HEX\3/8\NC |
| 29 | 4900003 | 8 | NUT\HEX\5/16\NC |
| 30 | 4900026 | 1 | NUT\JAM\3/8\NC |
| 31 | 4900099 | 80 | NUT\TPLCK\5/16\GR8\NC |
| 32 | 4900104 | 4 | NUT\JAM\3/4\NC |
| 33 | 5000001 | 10 | WASH\FLAT\3/8 |
| 34 | 5000006 | 2 | WASH\LOCK\1/2 |
| 35 | 5000014 | 1 | WASH\FLAT\1 |
| 36 | 5000019 | 15 | WASH\LOCK\3/8 |
| 37 | 5000022 | 8 | WASH\LOCK\5/16 |
| 38 | 5000023 | 4 | WASH\FLAT\5/16 |
| 39 | 6200014 | 2 | KEY\SQ\1/4X1-1/4 |
| 40 | 8100783 | 1 | BRKT\SHAFT\IDLER\CNVYR |
| 41 | 8101022 | 1 | BRKT\SHAFT\IDLER\NO-TAP |
| 42 | 8101076 | 1 | MNT\SHLD\DRV |

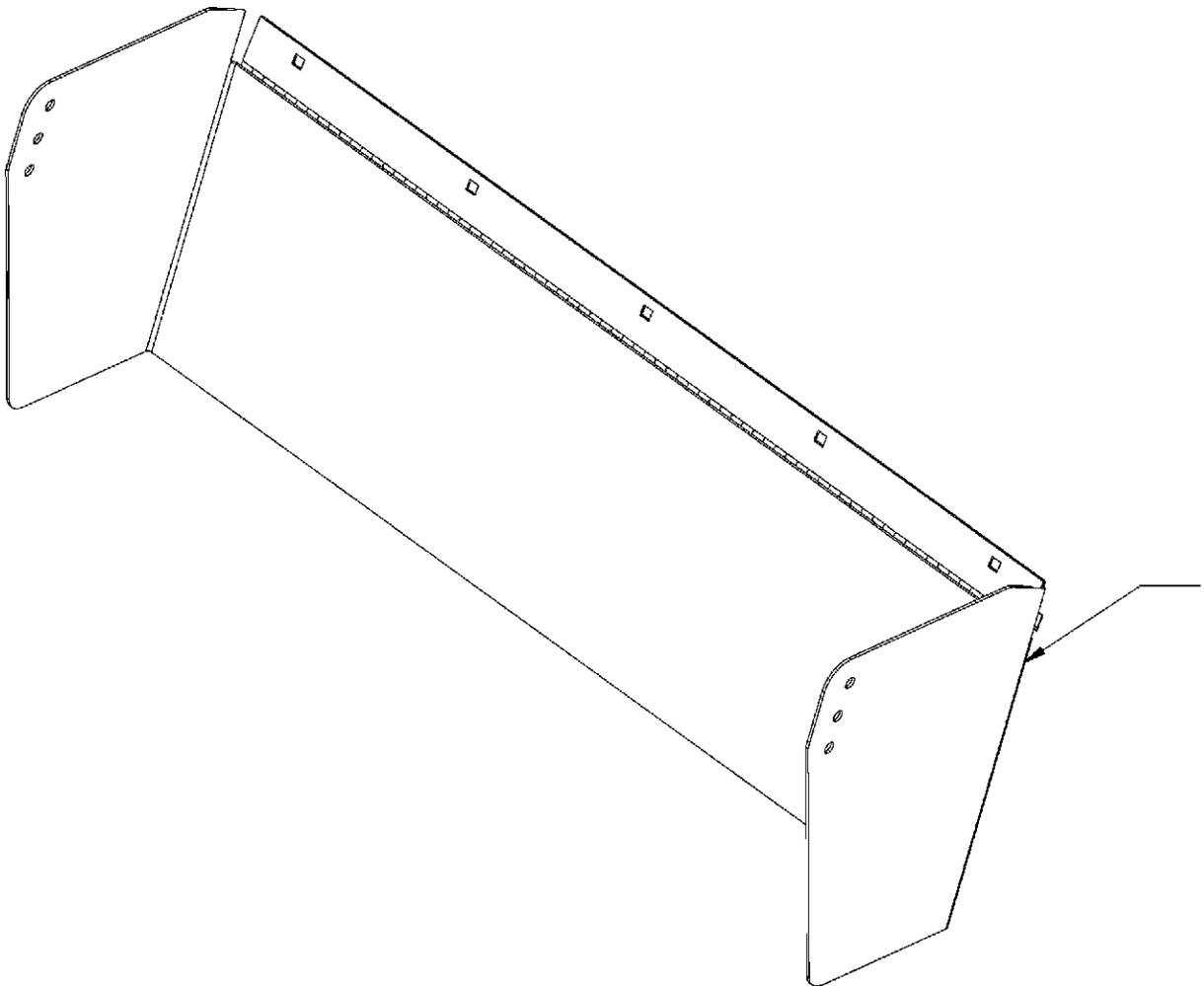
MAGNETIC CONVEYOR CHUTE ASSEMBLY



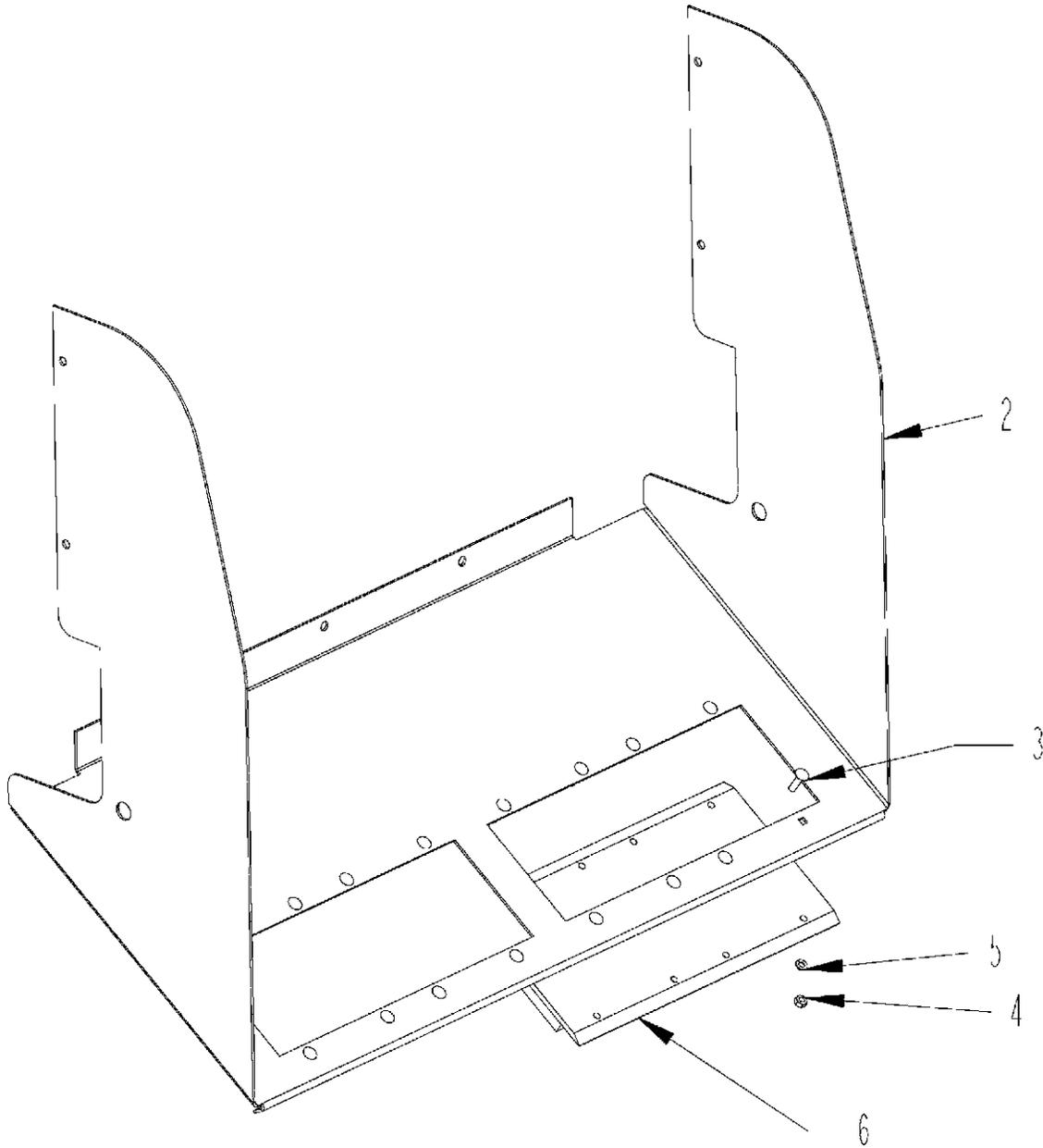
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|----------------------|
| 1 | 4704355 | 1 | KIT\MAG\CNVYR\CMF |
| 2 | 4704357 | 1 | CHUTE\MAG\CNVYR\WELD |
| 3 | 4800214 | 16 | BOLT\CRG\1/4X1\NC |
| 4 | 4900009 | 16 | NUT\HEX\1/4\NC |
| 5 | 5000024 | 16 | WASH\LOCK\1/4 |
| 6 | 7501149 | 2 | MAG\CNVYR\CMF\7.5X15 |

NON-MAGNETIC CONVEYOR CHUTE ASSEMBLY

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|---|
| 1 | 4704535 | 1 | CHUTE NON-MAGIC NVYR WELD EXTENSION CNVYR |



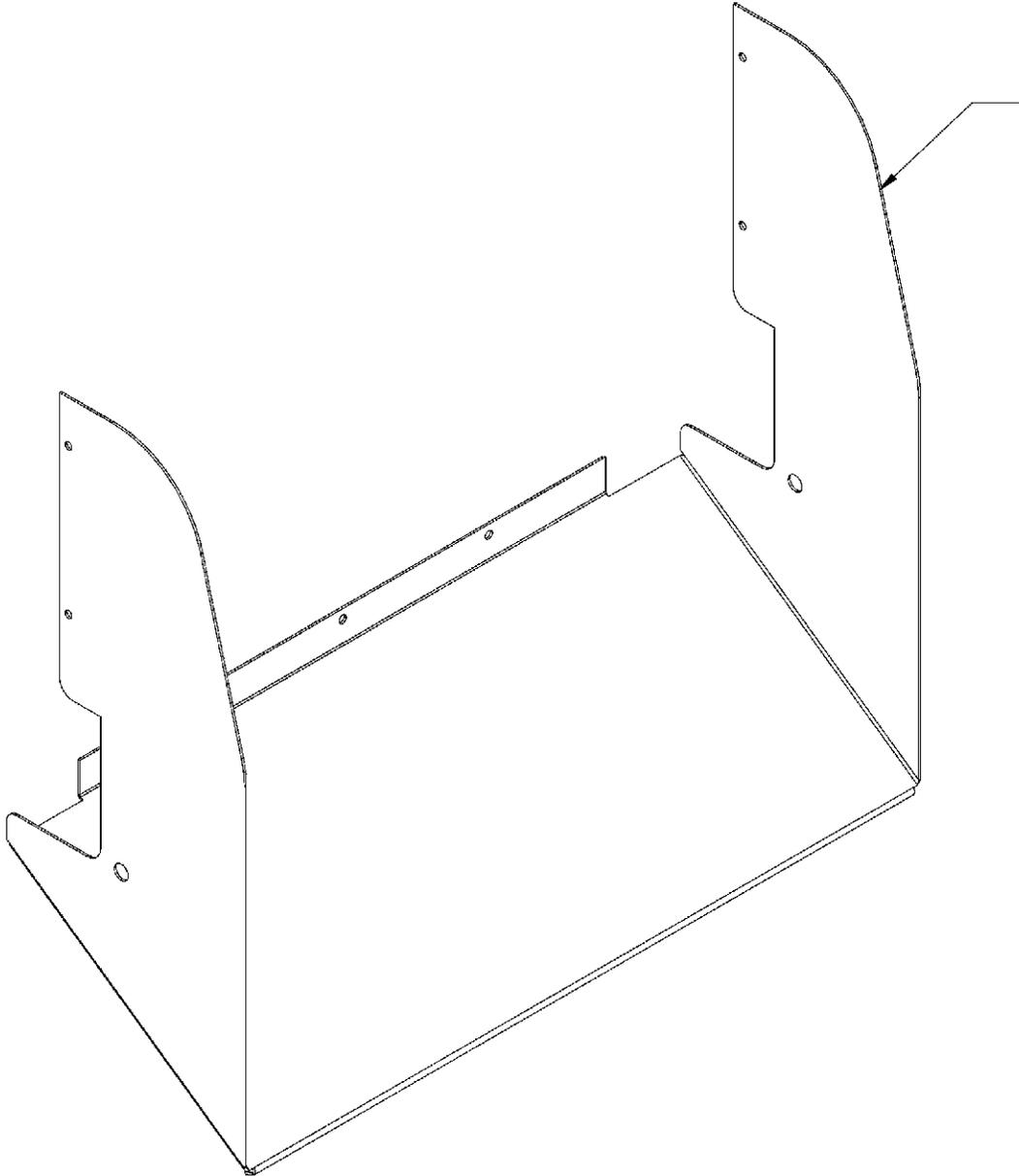
MAIN MANGNETIC CONVEYOR CHUTE ASSEMBLY



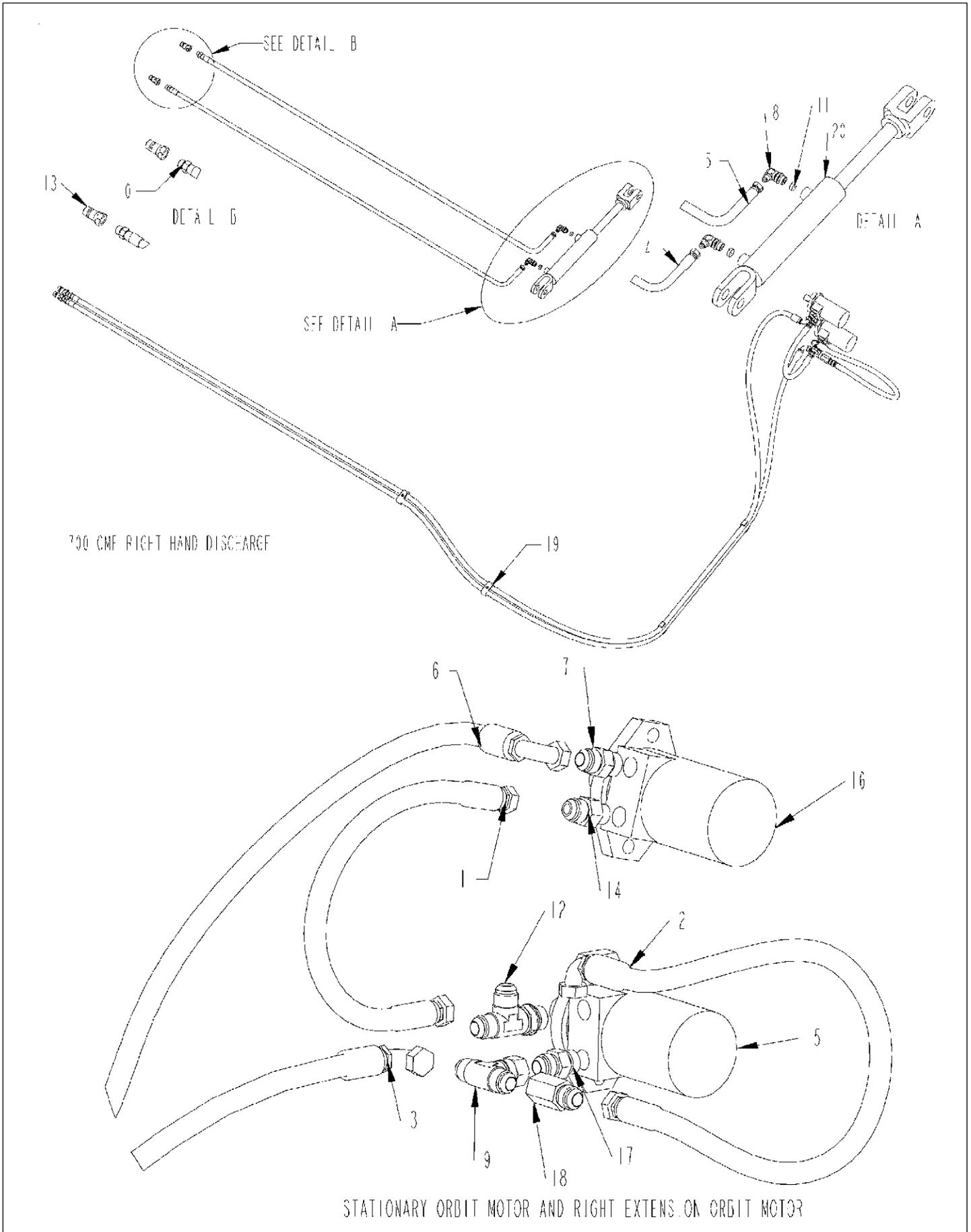
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------|
| 1 | 4704366 | 1 | CHUTEVASSY\MAIN_CNVYR |
| 2 | 4704548 | 1 | PL\CHUTEMAIN_CNVYR |
| 3 | 4800214 | 16 | BOLT\CRG\1/4X1\NC |
| 4 | 4900009 | 16 | NUT\HEX\1/4\NC |
| 5 | 5000024 | 16 | WASH\LOCK\1/4 |
| 6 | 7501149 | 2 | MAG\CNVYR\CMF\7.5X15 |

MAIN NON-MANGNETIC CONVEYOR CHUTE ASSEMBLY

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|--------------------|
| 1 | 4704554 | 1 | PLICHUTEIMAIN_CNVR |



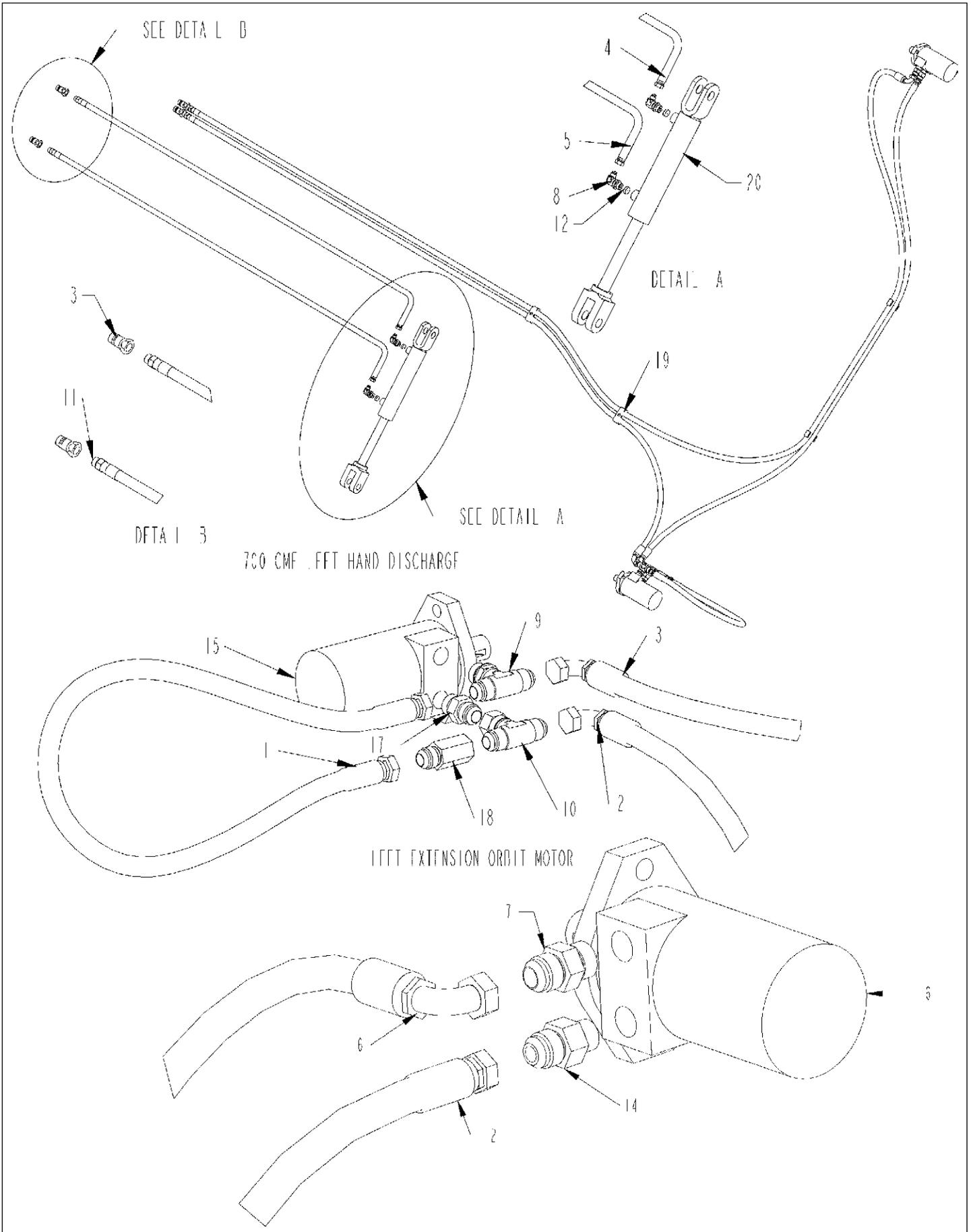
RIGHT HAND DISCHARGE CONVEYOR HYDRAULICS



RIGHT HAND DISCHARGE CONVEYOR HYDRAULICS

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|--------------------|------|---|
| 1 | 700_TMR_RH_HOSE_12 | 1 | BOTTOM OF STATIONARY PORT TO TOP PORT OF RIGHT EXT. CONVEYOR ORBIT MOTOR |
| 2 | 700_TMR_RH_HOSE_13 | 1 | TOP PORT OF RIGHT EXTENSION CONVEYOR ORBIT MOTOR TO BOTTOM PORT OF RIGHT EXTENSION CONVEYOR ORBIT MOTOR |
| 3 | 700_TMR_RH_HOSE_14 | 1 | BOTTOM PORT OF RIGHT EXTENSION ORBIT MOTOR TO TRACTOR |
| 4 | 700_TMR_RH_HOSE_7 | 1 | CYLINDER CAP END TO TRACTOR |
| 5 | 700_TMR_RH_HOSE_8 | 1 | CYLINDER ROD END TO TRACTOR |
| 6 | 700_TMR_RH_HOSE_9 | 1 | TOP PORT OF STATIONARY ORBIT MOTOR TO TRACTOR |
| 7 | 3800448 | 1 | FTG\7\8MORX7\8MJIC\ST |
| 8 | 3800453 | 2 | FTG\3\4MORX9\16MJIC\90 |
| 9 | 3800461 | 1 | FTG\7\8MJIC7\8MJIC7\8FJICS\BR;TEE |
| 10 | 3800681 | 4 | FTG\3\4MORSX1\2BARB\PARKER |
| 11 | 3800683 | 2 | FTG\3\4MOR\ORFICE\0.0490" |
| 12 | 3800686 | 1 | FTG\7\8MORX7\8MJICX7\8MJICRUN;TEE |
| 13 | 3800694 | 4 | FTG\3\4FOR\QUICK;CPLR\MALE |
| 14 | 3800849 | 1 | FRG\3\4MORX7\8MJIC\ADPT |
| 15 | 3900025 | 1 | MOTOR\HYD\17.9\HAMNT\7\8FOR\1SHFT |
| 16 | 3900032 | 1 | MOTOR\HYD\22.6\HAMNT\7\8FOR\1SHFT |
| 17 | 4000288 | 1 | FTG\7\8MORX7\8MJIC\ST\CHCK |
| 18 | 4000293 | 1 | VALVE\CHECK\7\8FJICX7\8MJIC |
| 19 | 4700776 | 4 | CLMP\HOSE\3\8 |
| 20 | 4100210 | 1 | CYL\HYD\2X8\1-1\4RD\WELDE |

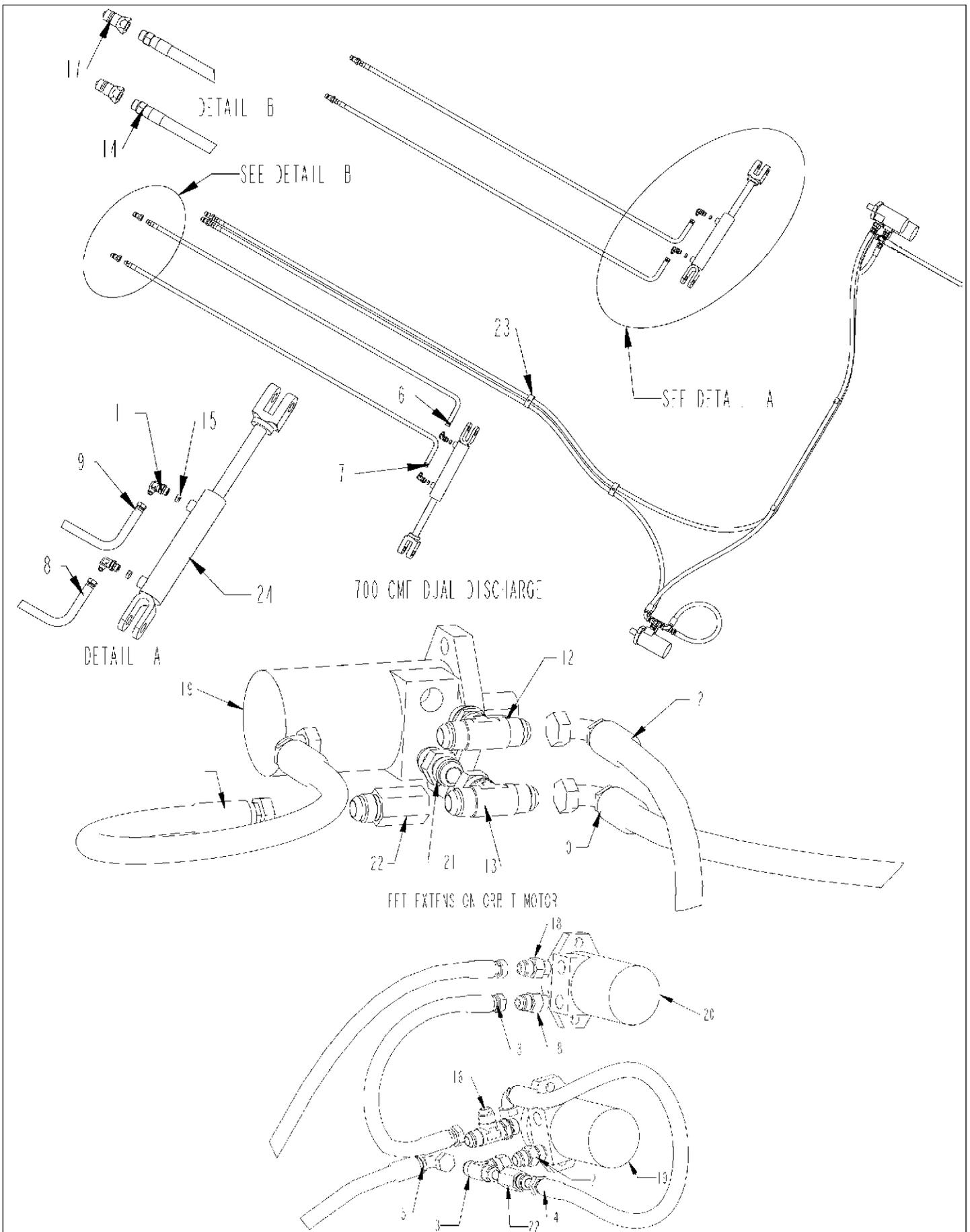
LEFT HAND DISCHARGE CONVEYOR HYDRAULICS



LEFT HAND DISCHARGE CONVEYOR HYDRAULICS

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------------|--------------------|-------------|---|
| 1 | 700_TMR_LH_HOSE_10 | 1 | TOP PORT OF LEFT EXTENSION CONVEYOR ORBIT MOTOR BOTTOM PORT OF LEFT EXTENSION CONVEYOR ORBIT MOTOR |
| 2 | 700_TMR_LH_HOSE_11 | 1 | BOTTOM PORT OF LEFT EXTENSION CONVEYOR ORBIT MOTOR TO BOTTOM PORT OF STATIONARY ORBIT MOTOR |
| 3 | 700_TMR_LH_HOSE_14 | 1 | TOP PORT OF LEFT EXTENSION CONVEYOR ORBIT MOTOR TO TRACTOR |
| 4 | 700_TMR_LH_HOSE_5 | 1 | CYLINDER CAP END TO TRACTOR |
| 5 | 700_TMR_LH_HOSE_6 | 1 | CYLINDER ROD END TO TRACTOR |
| 6 | 700_TMR_LH_HOSE_9 | 1 | TOP PORT OF STATIONARY ORBIT MOTOR TO TRACTOR |
| 7 | 3800448 | 1 | FTG\7/8MORX7/8MJIC\ST |
| 8 | 3800453 | 2 | FTG\3/4MORX9/16MJIC\90 |
| 9 | 3800460 | 1 | FTG\7/8MJICX7/8MJICX7/8MOR\BR;TEE |
| 10 | 3800461 | 1 | FTG\7/8MJIC7/8MJIC7/8FJICS\BR;TEE |
| 11 | 3800681 | 4 | FTG\3/4MORSX1/2BARB\PARKER |
| 12 | 3800683 | 2 | FTG\3/4MOR\ORFICE0.0490" |
| 13 | 3800694 | 4 | FTG\3/4FOR\QUICK;CPLR\MALE |
| 14 | 3800849 | 1 | FRG\3/4MORX7/8MJIC\ADPT |
| 15 | 3900025 | 1 | MOTOR\HYD\17.9\HAMNT\7/8FOR\1SHFT |
| 16 | 3900032 | 1 | MOTOR\HYD\22.6\HAMNT\7/8FOR\1SHFT |
| 17 | 4000288 | 1 | FTG\7/8MORX7/8MJIC\ST\CHCK |
| 18 | 4000293 | 1 | VALVE\CHECK\7/8FJICX7/8MJIC |
| 19 | 4700776 | 4 | CLMP\HOSE\3/8 |
| 20 | 4100210 | 1 | CYL\HYD\2X8\1-1/4RD\WELDE |

DUAL DISCHARGE HYDRAULICS

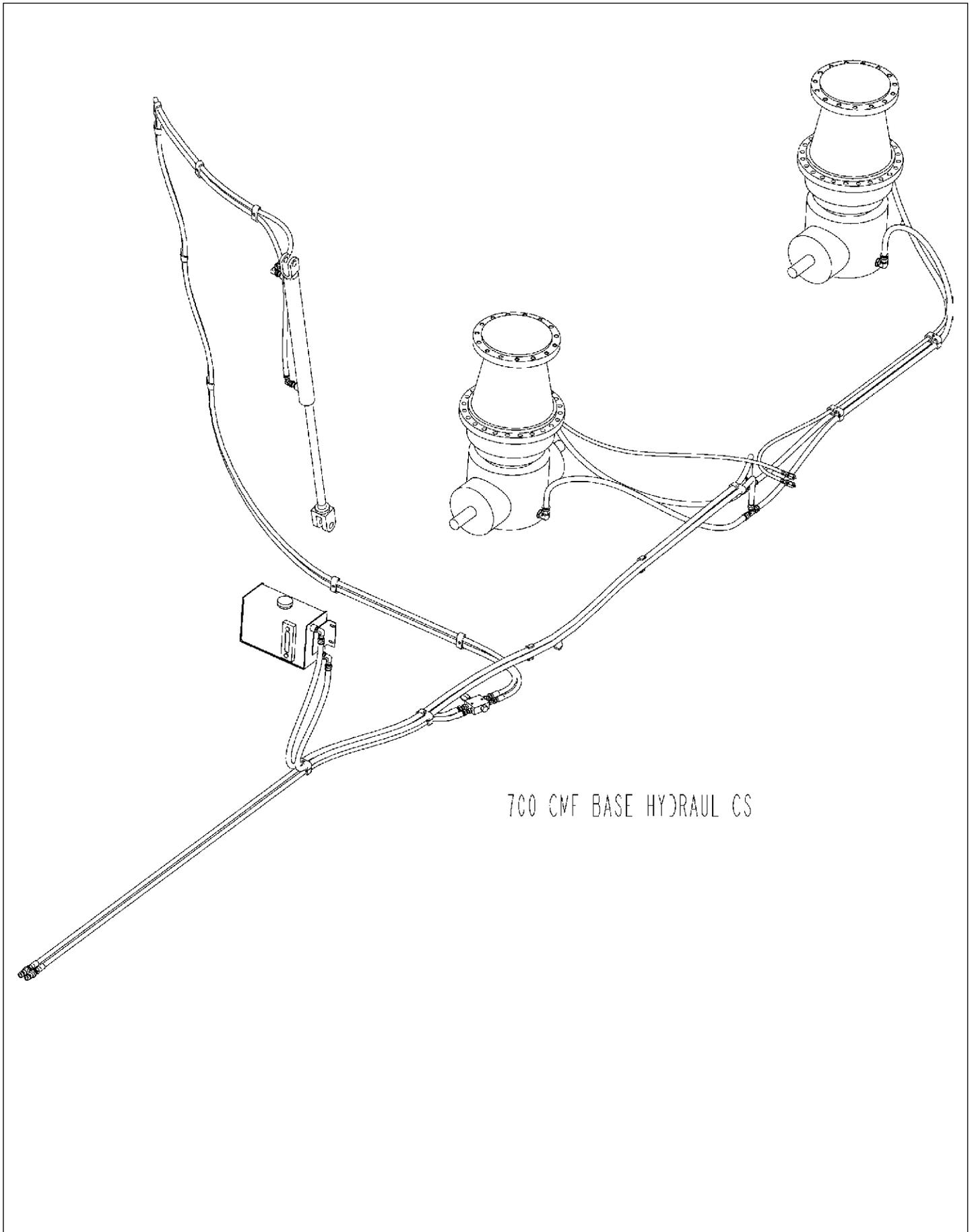


DUAL DISCHARGE HYDRAULICS

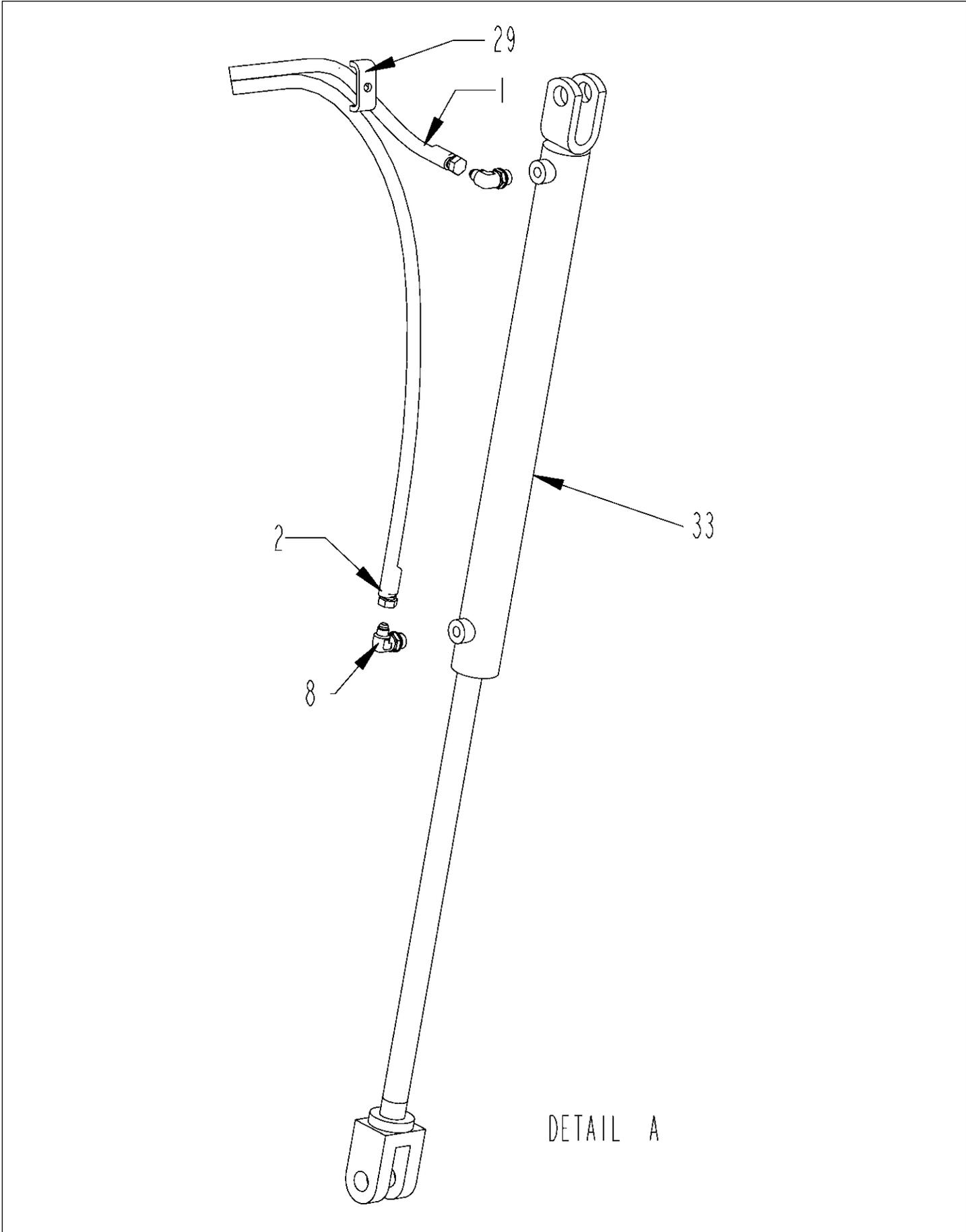
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------------------|------|--|
| 1 | 700_TMR_DUAL_HOSE_10 | 1 | TOP PORT TO BOTTOM PORT OF LEFT EXTENSION ORBIT MOTOR |
| 2 | 700_TMR_DUAL_HOSE_11 | 1 | TOP PORT OF LEFT EXTENSION ORBIT MOTOR TO TOP PORT OF STATIONARY ORBIT MOTOR |
| 3 | 700_TMR_DUAL_HOSE_12 | 1 | BOTTOM PORT OF STATIONARY ORBIT MOTOR TO TOP PORT OF RIGHT EXTENSION ORBIT MOTOR |
| 4 | 700_TMR_DUAL_HOSE_13 | 1 | TOP PORT OF RIGHT EXTENSION ORBIT MOTOR TO BOTTOM PORT OF RIGHT EXTENSION ORBIT |
| 5 | 700_TMR_DUAL_HOSE_14 | 1 | BOTTOM PORT OF RIGHT EXTENSION ORBIT TO TRACTOR |
| 6 | 700_TMR_DUAL_HOSE_5 | 1 | LEFT CYLINDER OF CAP END TO TRACTOR |
| 7 | 700_TMR_DUAL_HOSE_6 | 1 | LEFT CYLINDER OF ROD END TO TRACTOR |
| 8 | 700_TMR_DUAL_HOSE_7 | 1 | RIGHT CYLINDER OF CAP END TO TRACTOR |
| 9 | 700_TMR_DUAL_HOSE_8 | 1 | RIGHT CYLINDER OF ROD END TO TRACTOR |
| 10 | 700_TMR_DUAL_HOSE_9 | 1 | BOTTOM PORT LEFT EXTENSION ORBIT MOTOR TO TRACTOR |
| 11 | 3800453 | 4 | FTG\3/4MORX9/16MJIC\90 |
| 12 | 3800460 | 1 | FTG\7/8MJICX7/8MJICX7/8MOR\BR;TEE |
| 13 | 3800461 | 2 | FTG\7/8MJIC7/8MJIC7/8FJICS\BR;TEE |
| 14 | 3800681 | 6 | FTG\3/4MORSX1/2BARB\PARKER |
| 15 | 3800683 | 4 | FTG\3/4MOR\ORFICE\0.0490" |
| 16 | 3800686 | 1 | FTG\7/8MORX7/8MJICX7/8MJICRUN;TEE |
| 17 | 3800694 | 6 | FTG\3/4FOR\QUICK;CPLR\MALE |
| 18 | 3800849 | 2 | FRG\3/4MORX7/8MJIC\ADPT |
| 19 | 3900025 | 2 | MOTOR\HYD\17.9\HAMNT\7/8FOR\1SHFT |
| 20 | 3900032 | 1 | MOTOR\HYD\22.6\HAMNT\7/8FOR\1SHFT |
| 21 | 4000288 | 2 | FTG\7/8MORX7/8MJIC\ST\CHCK |
| 22 | 4000293 | 2 | VALVE\CHECK\7/8FJICX7/8MJIC |
| 23 | 4700776 | 4 | CLMP\HOSE\3/8 |
| 24 | 4100210 | 2 | CYL\HYD\2X8\1-1/4RD\WELDE |



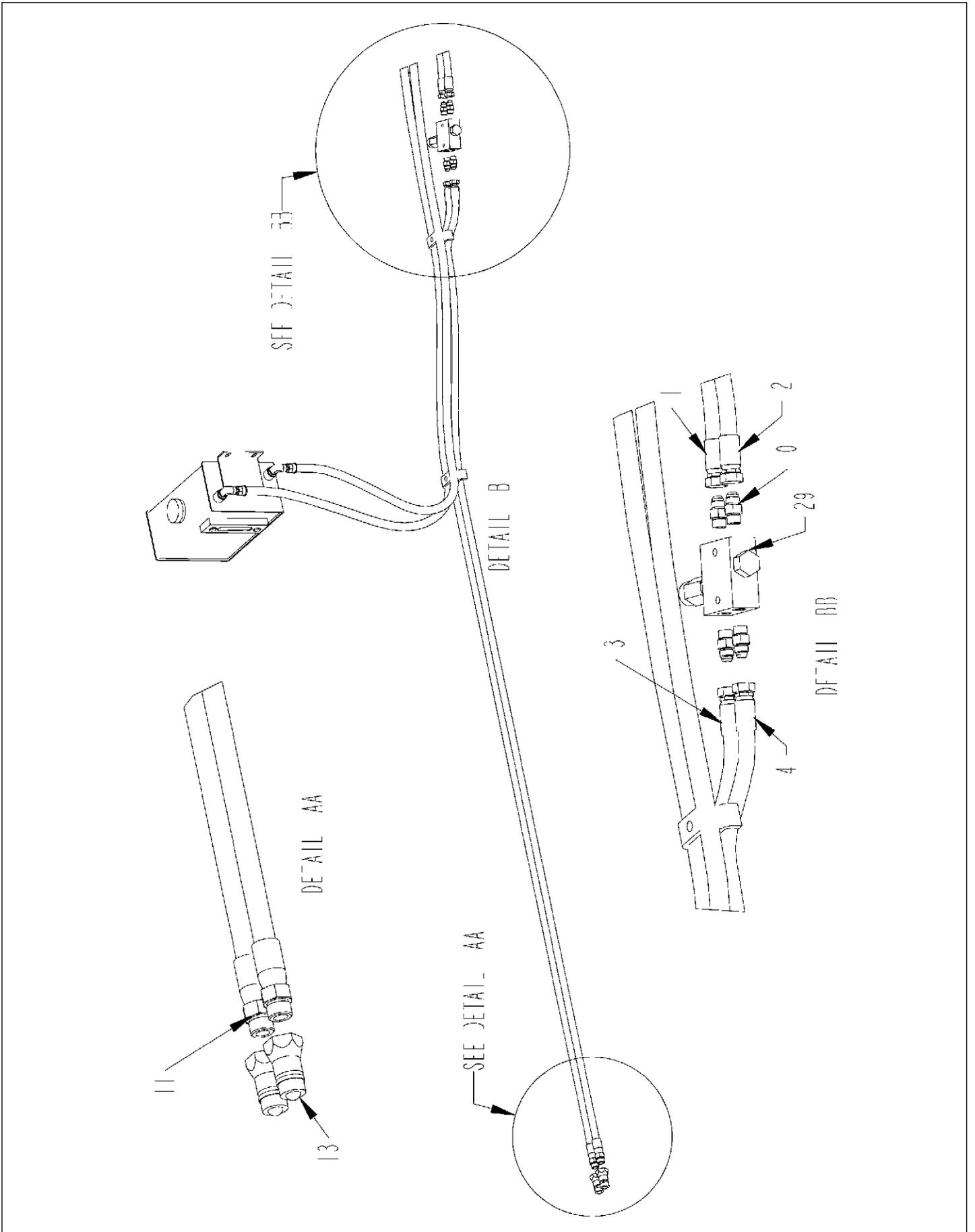
BASE HYDRAULIC SCHEMATIC



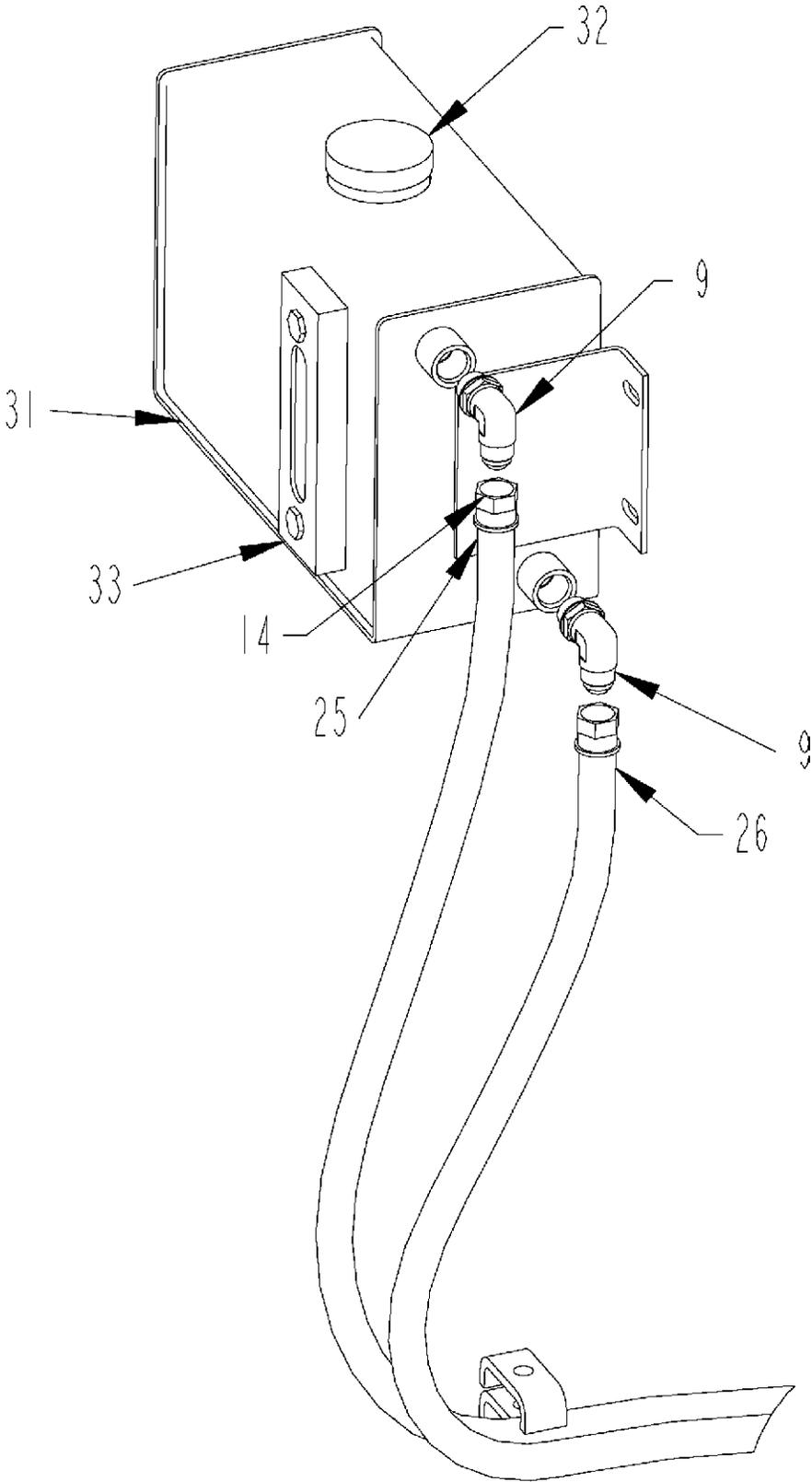
BASE HYDRAULICS - DETAIL A



BASE HYDRAULICS - DETAIL B

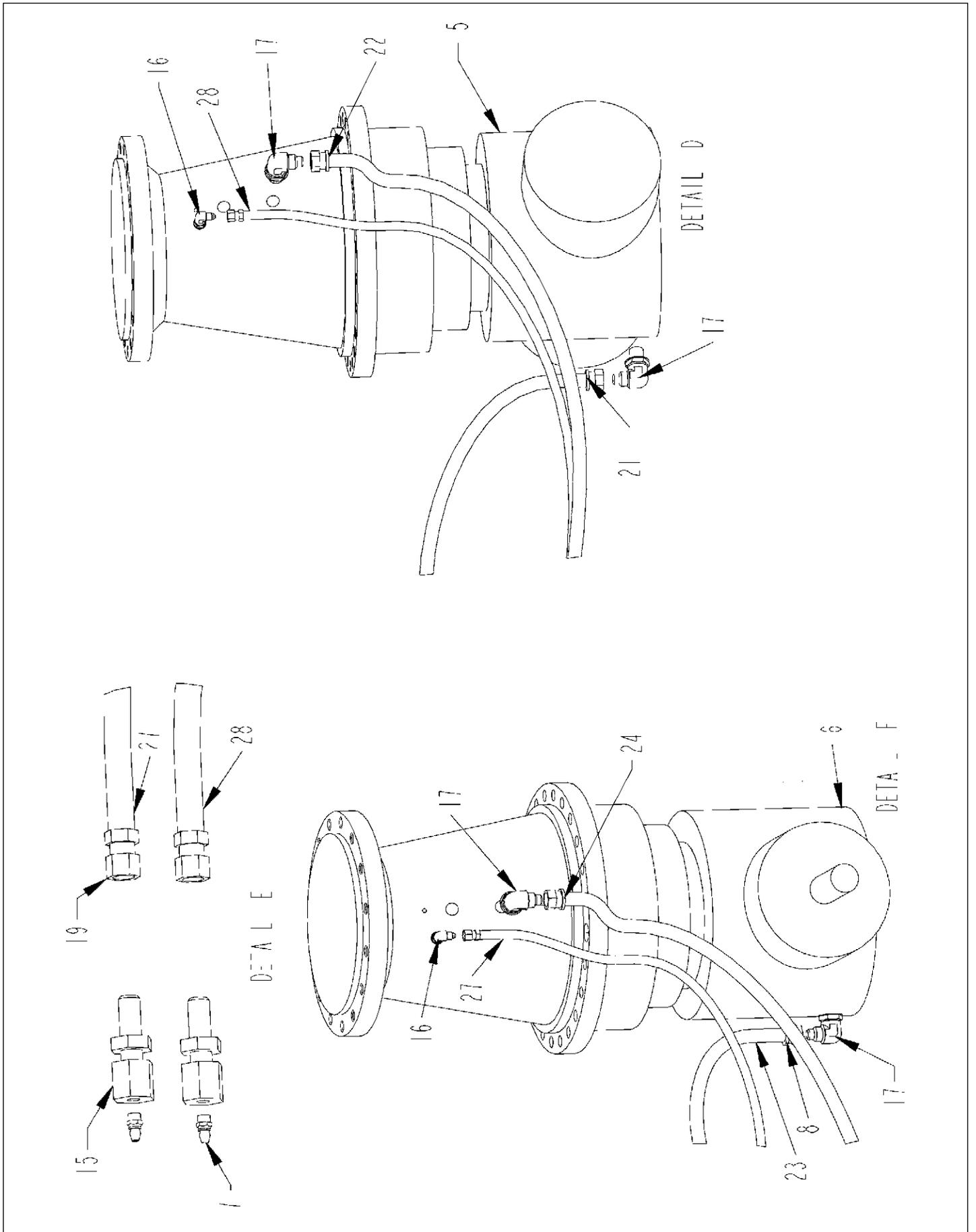


BASE HYDRAULICS - DETAIL C

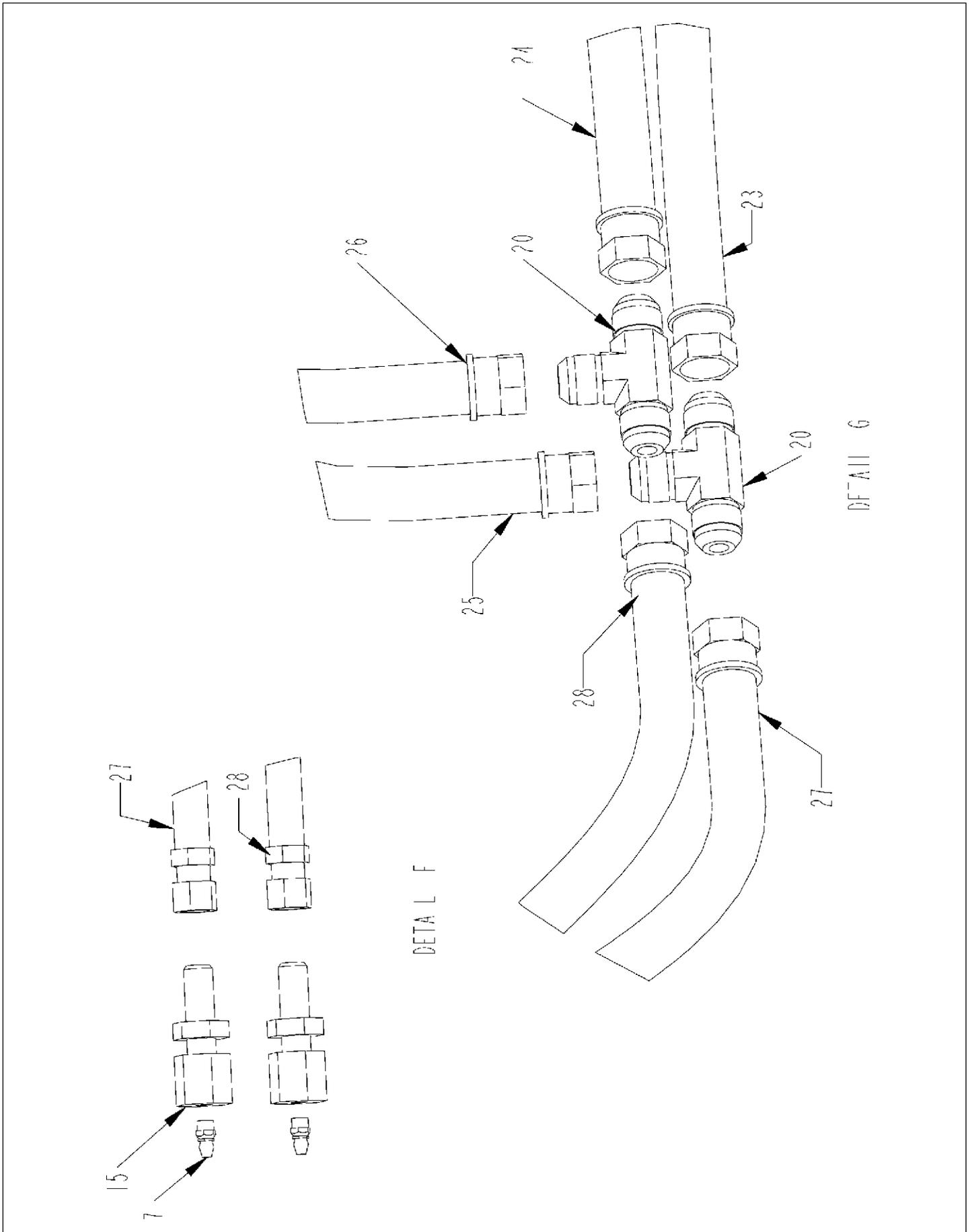


DETAIL C

BASE HYDRAULICS - DETAIL D

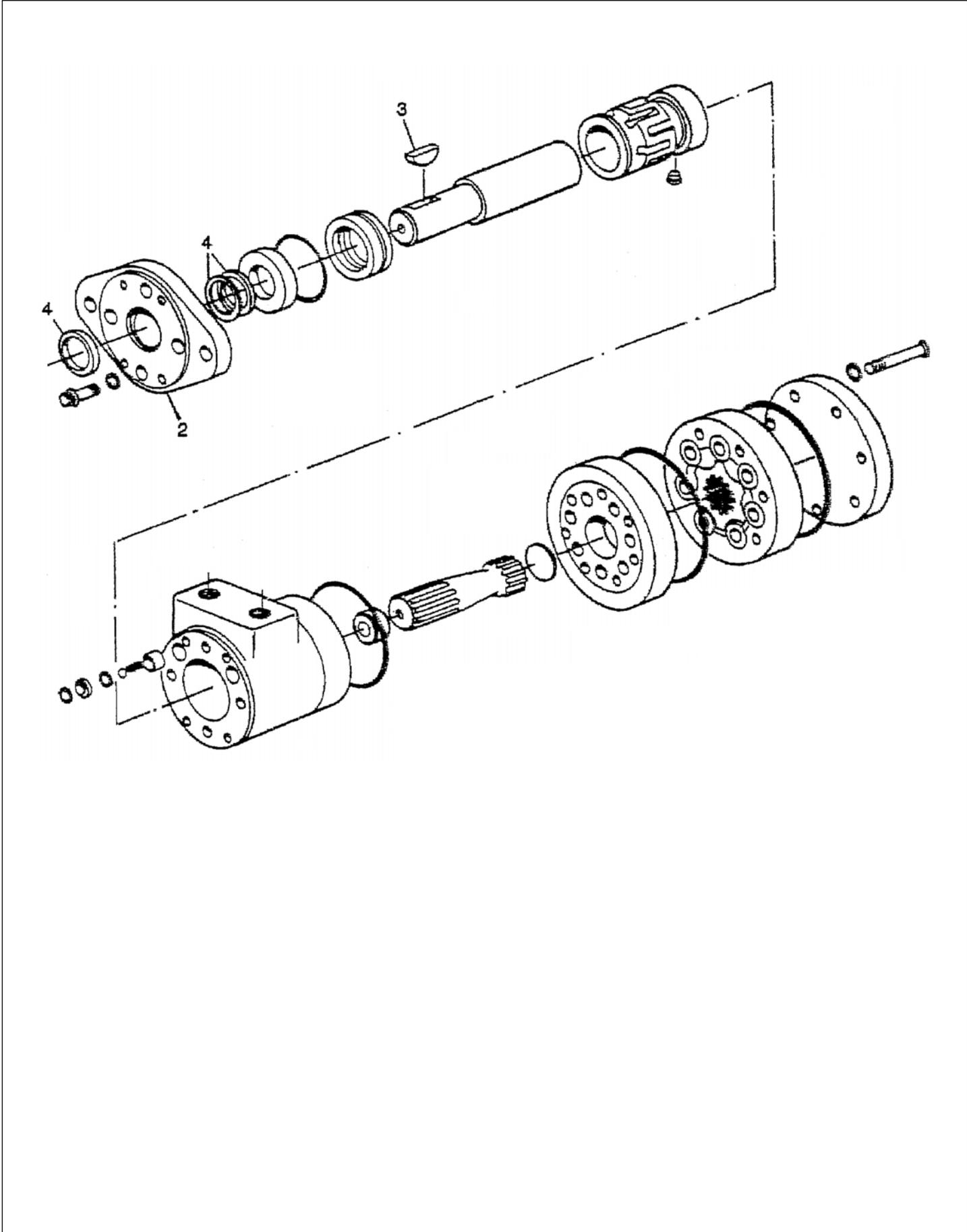


BASE HYDRAULICS - DETAIL E



BASE HYDRAULICS PARTS LIST

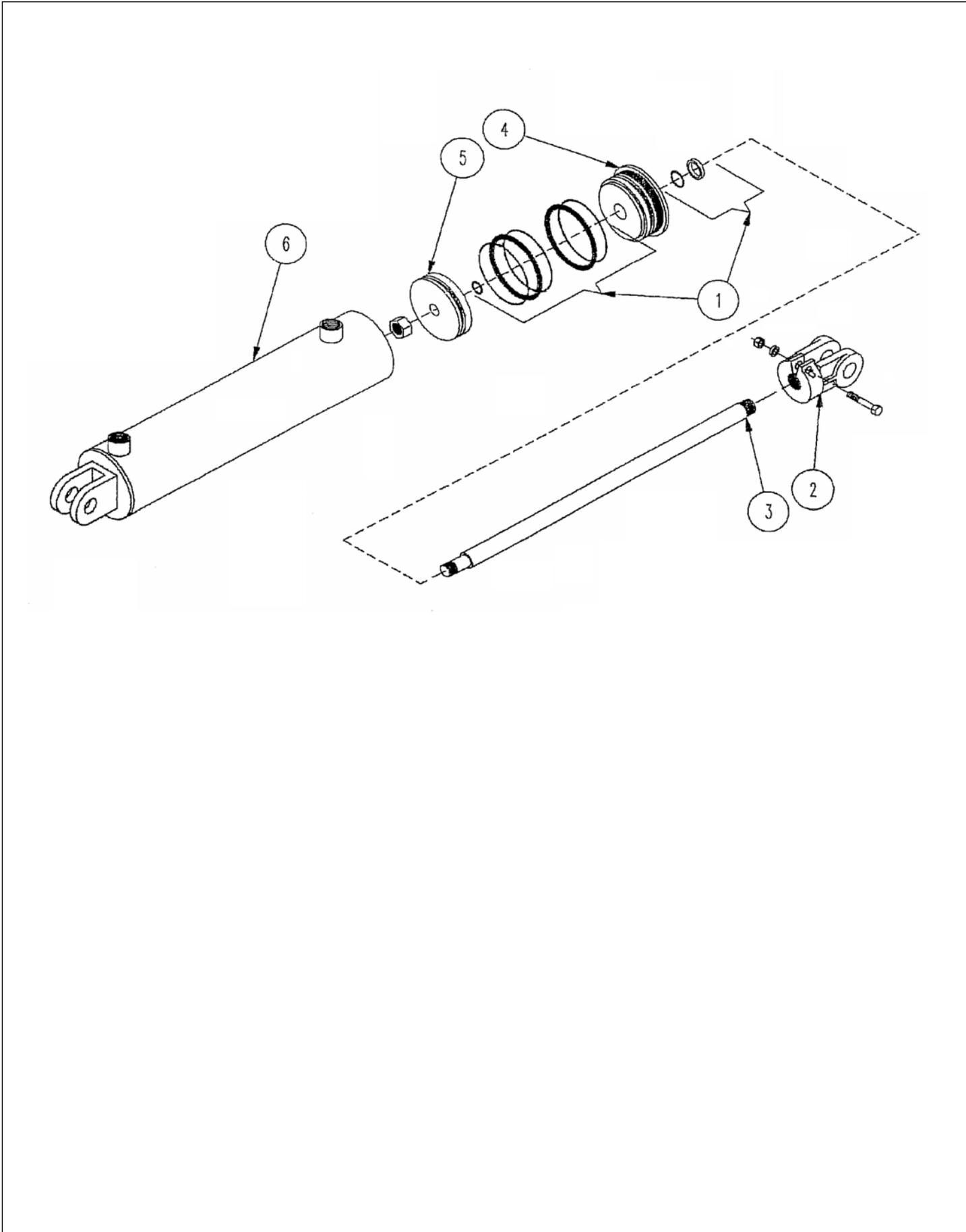
| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|---------------------|------|--|
| 1 | 700_TMR_BASE_HOSE_1 | 1 | CYLINDER CAP END TO PRESSURE VALVE |
| 2 | 700_TMR_BASE_HOSE_2 | 1 | CYLINDER ROD END TO PRESSURE VAVLE |
| 3 | 700_TMR_BASE_HOSE_3 | 1 | PRESSURE VALVE TO TRACTOR |
| 4 | 700_TMR_BASE_HOSE_4 | 1 | PRESSURE VALVE TO TRACTOR |
| 5 | 3100207 | 1 | GRBX\PLANETARY\SNGL\1750 |
| 6 | 3100208 | 1 | GRBX\PLANETARY\DBL\1750 |
| 7 | 3800082 | 2 | FTG\LUB\1/4NFXZERK\ADAPT |
| 8 | 3800453 | 2 | FTG\3/4MORX9/16MJIC\90 |
| 9 | 3800537 | 2 | FTG\3/4MORX3/4MJIC\90 |
| 10 | 3800631 | 4 | FTG\9/16MORX9/16MJIC\ST |
| 11 | 3800681 | 2 | FTG\3/4MORSX1/2BARB\PARKER |
| 12 | 3800694 | 2 | FTG\3/4FOR\QUICK\CPLR\MALE |
| 13 | 3800826 | 8 | FTG\3/4FJICX1/2SHLCK |
| 14 | 3800861 | 2 | FTG\7/8MJICX1/2FP\BULKHEAD |
| 15 | 3800862 | 2 | FTG\7/16MJICX#4BSPP |
| 16 | 3800863 | 4 | FTG\1-1/16MJICX#10BSPP |
| 17 | 3800864 | 4 | FTG\7/8FJICX1/2SHLCK |
| 18 | 3800865 | 4 | FTG\7/16FJICX1/8BARB\HEW/FERRULE |
| 19 | 3800866 | 2 | FTG\3/4MJICX3/4MJIC3/4MJIC\TEE |
| 20 | 3800875 | 1 | FROM BOTTOM OF REAR GEARBOX TO BOTTOM OIL LINE UNION |
| 21 | 3800876 | 1 | FROM TOP OF BACK GEARBOX TO TOP OIL LINE UNION |
| 22 | 3800877 | 1 | FROM BOTTOM OF FRONT GEARBOX TO BOTTOM OIL LINE UNION |
| 23 | 3800878 | 1 | FROM TOP OF FRONT GEARBOX TO TOP OIL LINE UNION |
| 24 | 3800879 | 1 | FROM TOP OIL LINE UNION TO TOP PORT OF OIL RESERVOIR |
| 25 | 3800880 | 1 | FROM BOTTOM OIL LINE UNION TO BOTTOM PORT OF OIL RESERVOIR |
| 26 | 3800881 | 1 | FRONT GEARBOX GREASE LINE TO TOP OF BRACKET |
| 27 | 3800882 | 1 | BACK GEARBOX GREASE LINE TO BOTTOM OF BRACKET |
| 28 | 4000245 | 1 | VALVE\RELIEF\CROSS\SINGLE |
| 29 | 4700776 | 20 | CLMP\HOSE\3/8 |
| 30 | 4704506 | 1 | TANK\HYD\ASSY\CMF |
| 31 | 7500275 | 1 | CAP\VENTED\TANK\OIL |
| 32 | 7501242 | 1 | GAUGE\LEVEL\5M12\NOTHERMOMETER |
| 33 | 4100241 | 1 | CYL\HYD\2"X24"1-1/4"ROD |



ORBIT MOTORS 3900025-3900032

| ITEM | PART NO. | QTY. | DESCRIPTION |
|-------------|-----------------|-------------|--|
| 1 | 3900025 | | MTR\HYD\17.9\HA;MNT\7\8FOR O-RING THREAD |
| | 3900032 | | MTR\HYD\101-1040\22.6CI O-RING |
| 2 | 3900002 | 1 | MOUNTING FLANGE |
| 3 | 6200011 | 1 | KEY\WDF\1\4X1\#15\808 |
| 4 | 7501038 | 1 | UNISEAL KIT 007-009 |

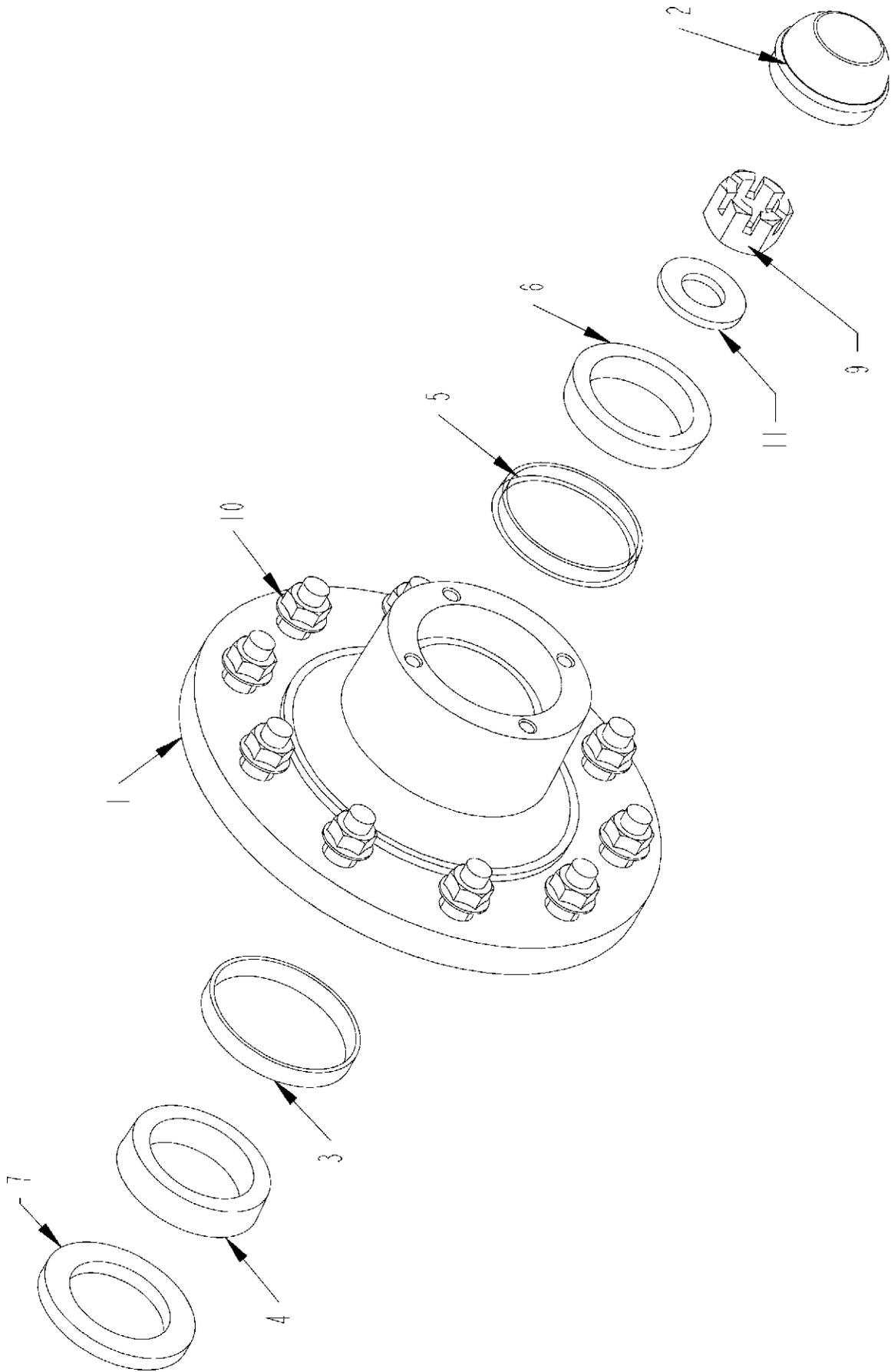
HYDRAULIC CYLINDER ASSEMBLY



HYDRAULIC CYLINDER ASSEMBLY

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|--------------------|------|---|
| 1 | 4100210 4100093 | | CYL HYD 2X8 1-1/4RD WELDED CYL HYD SEA KIT 2X8 |
| 1 | 4100241 4100228 | | CYL HYD 2X2 1-1/4RD 3000PSI SEAL KIT 2 1-1/4RD CTD |

HUB ASSEMBLY



HUB ASSEMBLY

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------|------|-----------------------|
| 1 | 2900145 | 1 | HUB\10-BOLT\11.25"BC |
| 2 | 2900146 | 1 | CAP\DUST\H1010 |
| 3 | 2900147 | 1 | BRG\CUP\INNER\H1010 |
| 4 | 2900148 | 1 | HUB\H1010 |
| 5 | 2900149 | 1 | HUB\H1010 |
| 6 | 2900150 | 1 | HUB\H1010 |
| 7 | 2900151 | 1 | SEAL\GREASE\H1010 |
| 8 | 4900053 | 1 | NUT\CASTLE\1-1/4\NF |
| 9 | 4900176 | 10 | NUT\WHL\FLG\3/4-16 |
| 10 | 5000065 | 1 | WASH\2.5OD\1.25ID\224 |

DECALS



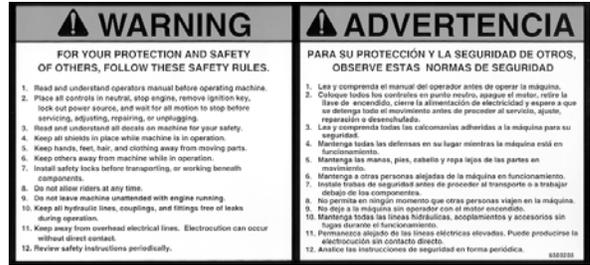
1.



2.



3.



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10.



11.



12.



13.

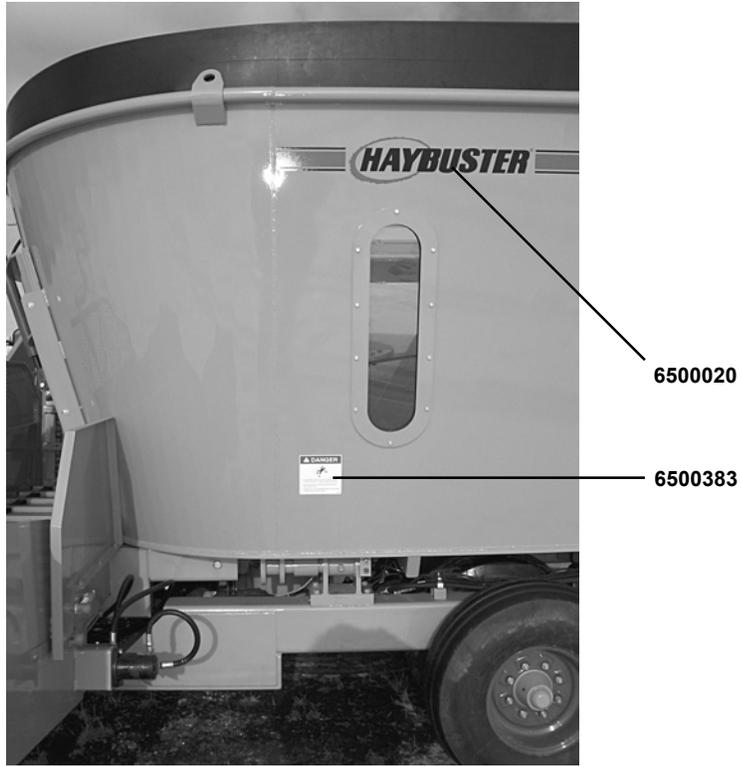
CMF-700

14.

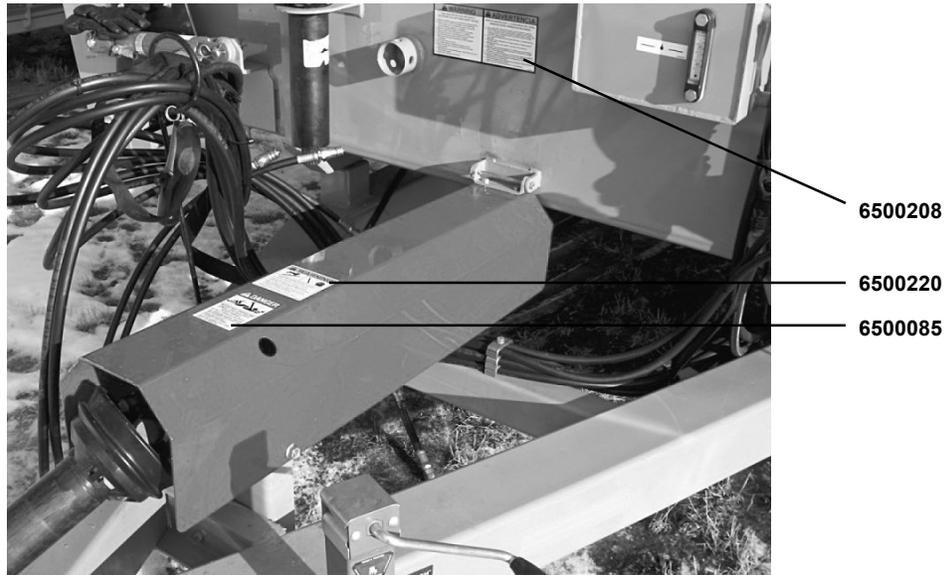
DECALS

| ITEM | PART NO. | QTY. | DESCRIPTION |
|------|----------------|--------|-------------------------------|
| 1 | 6500020 | 4 | DECAL\LOGO\HYBSTR\SNBRS\3 |
| 2 | 6500039 | 1 | DECAL\INFO\SN\NDURATECH |
| 3 | 6500085 | 1 | DECAL\DNGR\ROTATING;DR-LNE |
| 4 | 6500208 | 1 | DECAL\WARN\GENERAL |
| 5 | 6500220 | 1 | DECAL\WARN\HI;PRESS;FLUID |
| 6 | 6500253 | 1 | DECAL\INFO\FLUID;LEVEL\ |
| 7 | 6500302 | 5'-8" | DECAL\LOGO\STRIP\3\RD&BLK |
| 8 | 6500391 | 1 | DECAL\CAUTION\ADJ.DRAWBAR\20" |
| 9 | 6500339 | 2 | DECAL\WARN\PINCH;POINT |
| 10 | 6500366 | 1 | DECAL\SMV |
| 11 | 6500376 | 1'-6" | DECAL\MISC\TAPE\RED |
| 12 | 6500377 | 4'-6" | DECAL\MISC\TAPE\AMBER |
| 13 | 6500383 | 2 | DECAL\WARN\UGER\MIXER |
| 14 | 6500384 | 2 | DECAL\LOGO\CMF700 |
| | 6500387 | | DECAL\KIT\CMF\700 |
| | 7500077 | 12 oz | Yellow Spray Paint |
| | 7500092 | Quart | Yellow Paint |
| | 7500091 | Gallon | Yellow Paint |
| | 7500078 | 12 oz | Red Spray Paint |
| | 7500105 | Quart | Red Paint |
| | 7500104 | Gallon | Red Paint |

DECAL LOCATIONS



DECAL LOCATIONS





Please fill out the delivery report on the following pages. The white copy is to be returned to:

**DuraTech Industries International Inc.
P.O. Box 1940
Jamestown, ND
58402-1940**

The yellow copy is the dealer copy; the pink copy is to be retained by the customer.