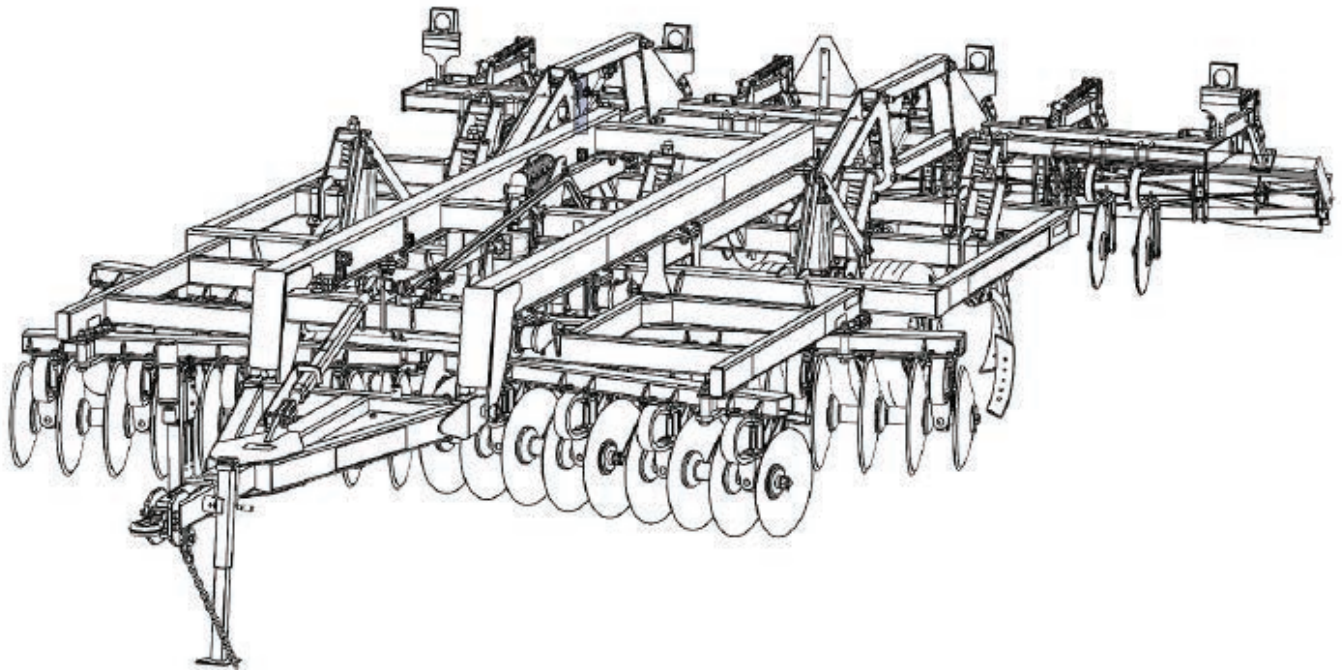


OPERATION AND PARTS MANUAL

QUADRA-TILL™ 200 SERIES



Read and understand the manual. This manual provides information and procedures to safely operate and maintain the Quadra-Till 200 series.



PART NUMBER: 16311— Serial Number 24000 and up

Learn more at www.mcfarlaneag.com

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Introduction

Thank you for purchasing the McFarlane Quadra-Till Primary Vertical Tillage System. We know that you will get many years of dependable service because McFarlane has been manufacturing quality agricultural equipment since 1936.

A single pass in the fall with the Quadra-Till will leave the soil and residue in a condition that requires only a light pass with a Reel Disk or vertical tillage tool. Using both implements will create the perfect seedbed, saving time, expense, and preparing your fields for spring planting.

The Quadra-Till incorporates field residue up to a ten inch depth for quick breakdown and nutrient deposit. It also prepares the soil so spring field preparation and planting can be done quicker and easier. The Quadra-Till also prepares the ground to promote strong root growth for higher yields.

Quadra-Till provides four tillage functions in a single field pass.

1. Size Residue – Cuts residue into small pieces for faster breakdown.
2. Shatter Soil – Full width fracture of the soil to eliminate compaction layers.
3. Mix Residue – Spreads residue uniformly throughout the profile, ensuring good seed to soil contact in the spring.
4. Levels the Seedbed – Eliminating the need for multiple field finishing passes.

Contact Information

If you have questions not answered in this manual, require additional copies, or the manual is damaged, please contact your local dealer or:

McFarlane Mfg. Co., Inc.
1330 Dallas Street
P.O. Box 100
Sauk City, WI 53583
Phone: (608) 643-3322
Toll Free: (888) 627-8569
Fax: (608) 643-3976
E-mail: info@mcfarlanemfg.com
Web: mcfarlaneag.com

Product Registration:

All McFarlane Ag products need to be registered to the owner prior to use.

The dealer is required to submit the product registration through the McFarlane dealer portal.

Failure to register the product may result in future warranty claims being rejected.

Register at:
mcfarlaneag.com/product-registration

Scan to
Register:



Safety

General

Safety of the operator and bystanders is one of the main concerns in designing and developing a new piece of equipment. Designers and manufacturers build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling the equipment.

Most work related accidents are caused by failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing potentially hazardous situations before an accident occurs. As you assemble, operate, tow, or maintain the Quadra-Till (unit), you must be alert to potential hazards. You should also have the necessary training, skills, and tools to perform any assembly or maintenance procedures.

Improper operation and maintenance of this unit could result in a dangerous situation that could cause injury or death.

WARNING



Do not use or tow the unit until you read and understand the information contained in this manual.



Safety precautions and warnings are provided in this manual and on the unit. If these hazard warnings are not heeded, bodily injury or death could occur to you or to other persons.

McFarlane cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this manual and on the product are, therefore, not all-inclusive. If a method of operation not specifically recommended by us is used, you must satisfy yourself that it is safe for you and for others. You should also ensure that the unit will not be damaged or be made unsafe by the methods that you choose.

The information, specifications, and illustrations in this manual are based on the information that was available at the time this material was written and can change at any time.

Safety Alert Symbols



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

This manual contains DANGERS, SAFETY INSTRUCTIONS, CAUTIONS, IMPORTANT NOTICES, and NOTES which must be followed to prevent the possibility of improper service, damage to the equipment, personal injury, or death. The following key words call the readers attention to potential hazards.

Hazards are identified by the “Safety Alert Symbol” and followed by a signal word such as “DANGER”, “WARNING”, or “CAUTION”.

DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations.

WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE

Indicates that equipment or property damage can result if instructions are not followed.

SAFETY INSTRUCTIONS

Safety instructions (or equivalent) signs indicate specific safety-related instructions or procedures.

NOTE: Contains additional information important to a procedure.

Safety Icons Nomenclature

This manual and the equipment has numerous safety icons. These safety icons provide important operating instructions which alert you to potential personal injury hazards.

Personal Protection/Important Information

-  Read the manual
-  Maintenance procedure
-  Crush hazard
-  Eye protection
-  Hand protection
-  Head protection
-  Hearing protection
-  Inspect equipment
-  OEM parts only
-  Place in neutral
-  Protective shoes
-  Remove key
-  Damaged hazard label
-  Set parking brake
-  Slow vehicle placard
-  Stop engine
-  Support stand usage
-  Use proper tools
-  Visually inspect

Prohibited Actions

-  Do not alter or modify
-  Do not leave out tools
-  Do not weld
-  No alcohol
-  No children
-  No drugs
-  No open flame
-  No passengers
-  No riders
-  No smoking

Hazard Avoidance

-  Block wheels
-  Crushing hazard (body)
-  Crush hazard (foot)
-  Crush hazard (rolling over)
-  Defective or broken part
-  Entanglement hazard
-  Explosive separation hazard
-  Falling hazard
-  Fire hazard
-  High-pressure fluid hazard
-  Hose damage
-  Hot surface

-  Maintain safe distance
-  Overturn hazard
-  Pinch point hazard
-  Pressure alert / check pressure
-  Projectile hazard
-  Safety alert symbol
-  Sharp object hazard
-  Slipping injury
-  Tripping injury
-  Zero pressure

General Operating Safety

WARNING



Read And Understand Manual

To prevent personal injury or even death, be sure you read and understand all of the instructions in this manual and other related OEM equipment manuals! This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained in this equipment's operations. Do not allow persons to operate or assemble this unit until they have read this manual and have developed a thorough understanding of the safety precautions and how it works.

This unit was designed for a specific application; **DO NOT** modify or use this unit for any application other than which it was designed.

Units operated improperly or by untrained personnel can be dangerous!



Hazard And Information Signs

Replace any missing or hard-to-read decals. Decal placement and part numbers can be found in the Nomenclature section of this manual.



Damaged Parts Hazard

Do not use this unit if it is in need of repair. If you believe the unit has a defect which could cause damage, injury, or death, you should immediately stop using the unit.



Fall Hazard

Do not use the unit as a work platform. Do not stand on top of the unit at any time. Do not ride on the unit or allow others to ride on it.



Entanglement Hazard

Do not wear loose fitting clothing which may become entangled in moving parts.



Crush Hazard (Rolling Over)

When disconnecting the unit or leaving the operator's seat:

1. Stop the tractor or towing vehicle.
2. Shut off the engine and remove the ignition key.
3. Set the brakes.
4. Make sure wheel cylinder transport locks are attached.
5. Relieve hydraulic fluid pressure.
6. If parking the unit, make sure jack stand is lowered and retaining pin is installed.



Injury Hazard

Do not permit children to play on or around the stored unit.

WARNING



Impaired Operator Hazard

Do not attempt to operate this unit under the influence of drugs or alcohol. Review the safety instructions with all users annually.

Personal Protection Equipment

When working around or operating this unit, wear appropriate personal protective equipment. This list includes but is not limited to:



- A hard hat
- Protective shoes with slip resistant soles
- Protective goggles, glasses, or face shield
- Heavy gloves and protective clothing



Safe Distance

Keep all bystanders, especially children, away from the unit while in operation.

SAFETY INSTRUCTIONS



To prevent injury, use a tractor equipped with a Roll Over Protective System (ROPS).



Visually Inspect

Visually inspect the unit for any loose bolts, worn parts, or cracked welds, and make necessary repairs before using the unit.

Towing Safety

For towing safety information, refer to the Towing section.

Operation Safety

For operating safety information, refer to the Operation section.

Assembly Safety

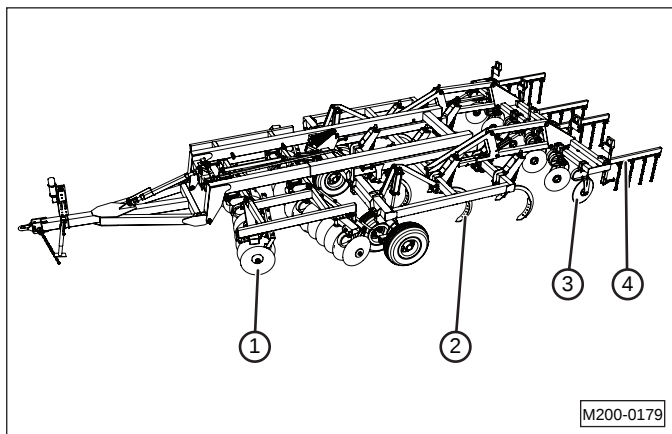
For assembly safety information, refer to the separate Assembly manual.

Maintenance Safety

For maintenance safety information, refer to the Maintenance section.

Component Nomenclature

Component Locations



The Quadra-Till is comprised of four components: the double disk gangs (1), the chisel shanks (2), the leveler disks (3), and the four-bar harrow (4).

Component Description

Disk Gangs (1)

The disk gangs cut the residue, open the soil surface, and begin the process of incorporating the residue into the soil up to four inches deep. Adjusting the angle and depth of the disk gangs is the first step in sizing and incorporating the residue.

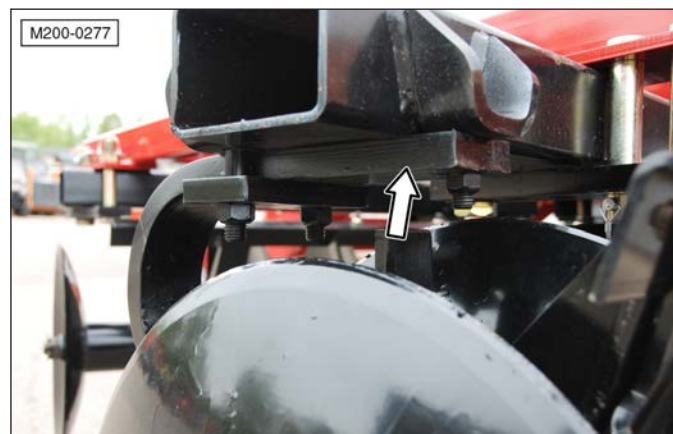


The depth of the disk gang is adjusted hydraulically with a cylinder. The disk gang depth ranges from 0 to 4 inches. The depth of the disk is normally determined by the amount of residue and the field conditions. The deeper the setting the more residue is incorporated into the soil.

The angle of the disk gang can be set in any one of three settings. To incorporate the maximum amount of residue, set the disk gang angle to the most aggressive setting of #3. If residue and sizing are not an issue (like soybean ground) then the disks should be set to the #1 setting and the disks set as shallow as possible.

NOTICE

In high residue situations, maximum down pressure on the disks is required to more completely cut the residue. Make sure the C-spring stop does not constantly contact the frame, as this will cause equipment damage.



Chisel Shanks (2)



The chisel shanks perform two tasks; they shatter the soil and incorporate the residue. The chisel shanks incorporate the residue evenly in the top of the profile, which is extremely important in vertical tillage. Too much residue in the top two to three inches of the profile causes poor soil-to-seed contact, which results in uneven germination.

The chisel shanks are also designed to shatter the soil evenly across the profile so any compaction layers are broken up. The shank configuration and spacing are set to provide the best soil breakup and uniformity.

Depth adjustment for the chisel shanks uses a depth stop which contacts a control valve located at the front of the machine on the main frame. This valve controls the position of the wheel lift cylinders. Since this moves the whole machine up or down, the other components need to be checked and possibly readjusted any time the shank depth changes. The optimum working depth of the chisel shanks is 6 to 12 inches.

Besides the depth setting, the operating characteristics of the chisel shanks can be changed by the use of different points or shovels. The unit is shipped with three inch twisted shovels as standard equipment. An optional four inch twisted shovel is available which will move more dirt and incorporate more residue. Also, an optional two inch straight point is available which incorporates less residue and requires less horsepower.

Spring Protection

Each chisel shank is equipped with a spring to protect it from breaking in the event it hits something, such as a rock. The spring tension is preset at the factory and no adjustment is necessary.



Rear Leveler Disk Attachment (3)



The rear leveler disks are designed to level the ridges left by the chisel shanks. They should be set low enough to level the ridges, but not too deeply as they can create furrows.

The rear leveler disks are adjusted with dual hydraulic cylinders that move the rear section of the unit up or down. Controls within the tractor cab allow the operator to adjust the depth while moving across the field.

Four-Bar Harrow (4)



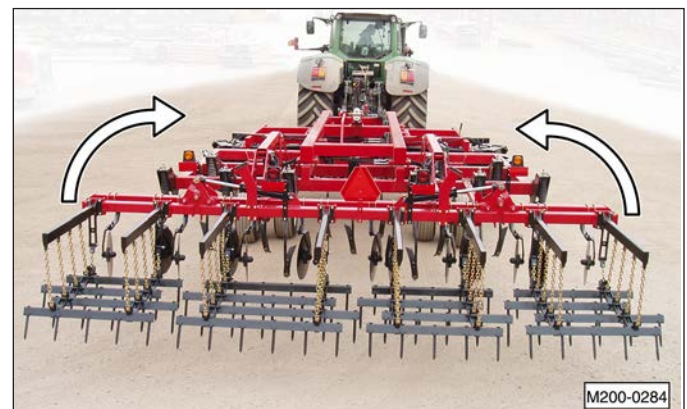
The four-bar harrow is used to break up clods of soil and disperse the residue evenly across the work area.

There are three attachment points for the pull chains on the harrow section. Moving it up will cause the section to lay more flat (less aggressive) and moving it down will cause the teeth to stand up more straight (more aggressive).

In some situations that do not require the extra leveling of the harrow section, such as heavy fall residue, the sections can be removed.

QT-213F Disk Gang and Leveler Disk Toolbar

The model QT-213F is equipped with a fold-out disk gang and leveler disk toolbar which decreases the transport width to 16'4" (4.98 m).



QT-215F and QT-217F Disk Gang and Leveler Disk Toolbar

The QT-215F and QT-217F models are equipped with a fold-out disk gang and leveler disk toolbar which decreases the transport width to 16'2" (4.93 m).



Disk Gang Gauge Wheels (215F and 217F)



The gauge wheels help to carry the weight of the chisel frame wing. They are not designed to limit or set the working depth of chisel.

Specifications

Hydraulic Requirements

This unit operates with hydraulic pressures of 2500 to 3000 psi (170 to 205 bars).

Number of Shanks

QT-207 — 7
QT-209 — 9
QT-211 — 11
QT-213 — 13
QT-213F — 13
QT-215F — 15
QT-217F — 17

Horsepower Range

QT-207 — 175 to 210
QT-209 — 225 to 270
QT-211 — 275 to 330
QT-213 — 325 to 390
QT-213F — 325 to 390
QT-215F — 375 to 450
QT-217F — 425 to 510

Tillage Depths

- Disk gang depth up to 4" (10.2 cm)
- Chisel shank depth 6 to 12" (15.2 to 30.5 cm)
- Rear Leveler disk depth is hydraulically adjustable to match operating depth

Tongue Weight

Tongue weight of the unit is approximately 700 lbs. (318 kgs)

Overall Weight (GVWR)

QT-207 — 13,291 (6029 kg)
QT-209 — 14,497 (6576 kg)
QT-211 — 16,763 (7604 kg)
QT-213 — 18,309 (8305 kg)
QT-213F — 19,089 (8559 kg)
QT-215F — 24,840 (11,267 kg)
QT-217F — 26,500 (12,020 kg)

Transport Width

QT-207 — 12'8" (3.86 m)
QT-209 — 13'8" (4.17 m)
QT-211 — 17'3" (5.26 m)
QT-213 — 19'1" (5.82 m)
QT-213F — 16'4" (4.98 m)
QT-215F — 16'2" (4.93 m)
QT-217F — 16'2" (4.93 m)

Working Tillage Width (Cut Width)

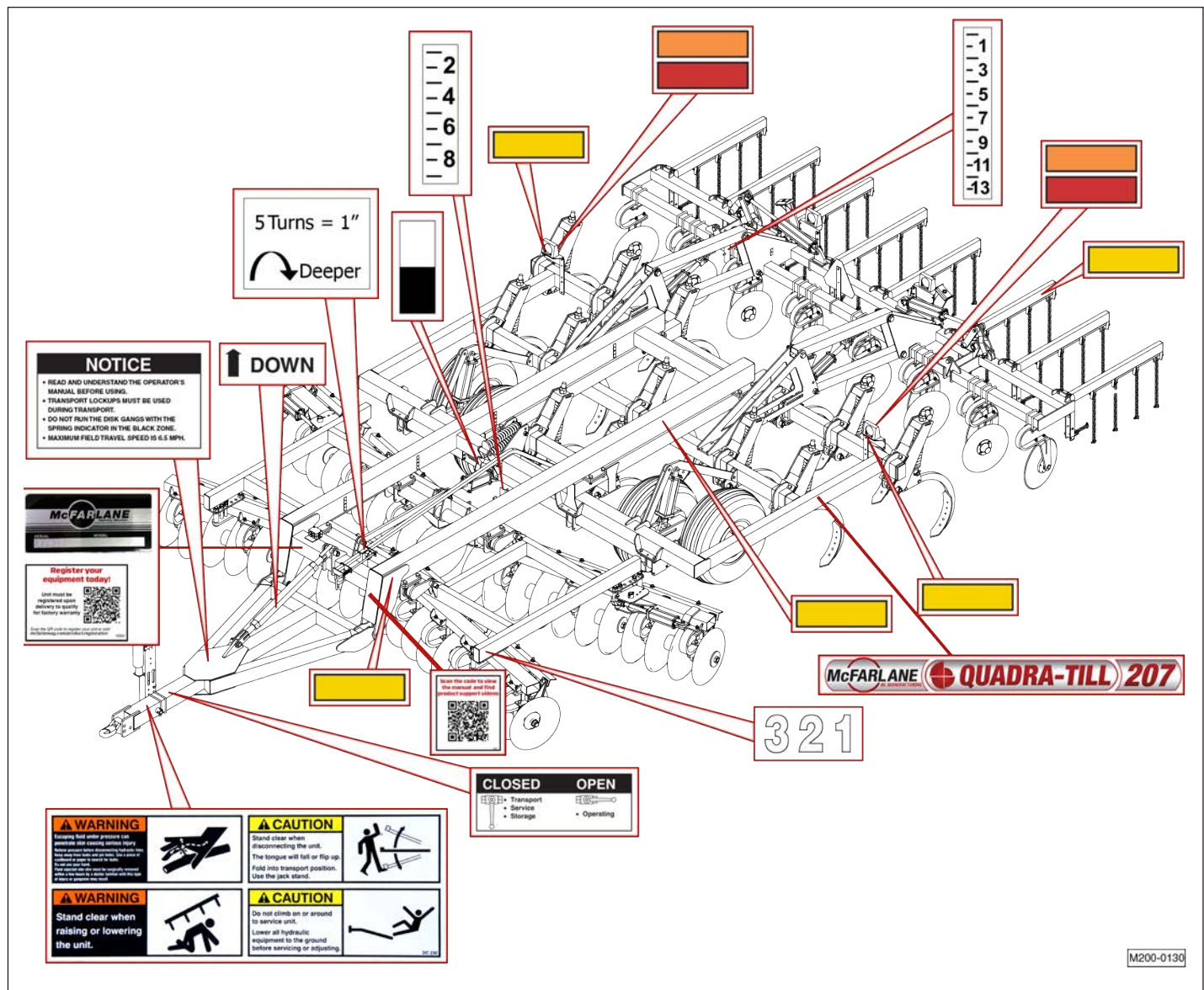
QT-207 — 8'9" (2.67 m)
QT-209 — 11'3" (3.43 m)
QT-211 — 13'9" (4.19 m)
QT-213 — 16'3" (4.95 m)
QT-213F — 16'3" (4.95 m)
QT-215F — 18'9" (5.72 m)
QT-217F — 21'3" (6.48 m)

Towing Speed

Towing speeds should not exceed 20 MPH (32 KPH)
Field operating speeds should be 5 to 6-1/2 MPH (8 KPH to 10-1/2 KPH)

Instructions for Display of Hazard and Informational Signs

- It is the responsibility of the customer to know the lighting and marking requirements of the local highway authorities and to install and maintain the equipment to provide compliance with the regulations. Add extra lights when transporting at night or during periods of limited visibility.
- Keep safety signs clean and legible at all times. Replace safety signs that are missing or have become illegible.
- Do not paint over, remove, or deface any safety signs or warning decals on your equipment. Observe all safety signs and practice the instructions on them.
- Replacement parts that display a safety sign should display the same sign.
- Make sure the hazard warning labels or other information decals are legible and attached to the unit before use.
- Safety signs are available from your Distributor, Dealer Parts Department, or the factory.



⚠ WARNING

Escaping fluid under pressure can penetrate skin causing serious injury. Relieve pressure before disconnecting hydraulic lines. Keep away from leaks and pin holes. Use a piece of cardboard or paper to search for leaks. Do not use your hand. Fluid injected into skin must be surgically removed within a few hours by a doctor familiar with this type of injury or gangrene may result.



⚠ WARNING

Stand clear when raising or lowering the unit.



⚠ CAUTION

Stand clear when disconnecting the unit. The tongue may fall or flip up. Fold into transport position. Use the jack stand.



⚠ CAUTION

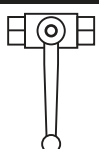
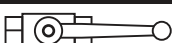
Do not climb on or around to service unit. Lower all hydraulic equipment to the ground before servicing or adjusting.



DC 230

NOTICE

- READ AND UNDERSTAND THE OPERATOR'S MANUAL BEFORE USING.
- TRANSPORT LOCKUPS MUST BE USED DURING TRANSPORT.
- DO NOT RUN THE DISK GANGS WITH THE SPRING INDICATOR IN THE BLACK ZONE.
- MAXIMUM FIELD TRAVEL SPEED IS 6.5 MPH.

CLOSED	OPEN
 - Transport - Service - Storage	 Operating

DC230b

Assembly

Refer to the Quadra-Till Assembly manual for complete instructions.

Towing

General Safety

SAFETY INSTRUCTIONS

 Towing the Quadra-Till requires care! Both the unit and tow vehicle must be in good working condition. Securely attach to towing unit. Use a high strength, appropriately sized hitch pin with a mechanical retainer and attach safety chain.

 Make sure the hitch and coupling on the towing vehicle are rated equal to, or greater than, the unit's "gross vehicle weight rating" (GVWR). Refer to the specification section.

 Make sure the safety chain is securely fastened to the tow vehicle.

 Check the tires for tread wear, inflation pressure, and overall condition.

 Inspect the hitch and coupling for wear or damage. DO NOT tow the unit using a defective hitch or coupling!

 Make sure directional, brake, and running lights are connected and working properly.

 Make sure the lug nuts holding the wheels are tight (torque to specifications) and that none are missing.

 When towing the unit on the highway, make sure the "Slow Moving Vehicle" placard is clearly visible.

 Do not allow anyone to stand between the tongue or hitch and the towing vehicle when backing up to the equipment.

 Make sure that the area is clear of children, animals, and other obstacles before using.

Safety Chain

SAFETY INSTRUCTIONS

- If the unit will be transported on a public highway, the safety chain must be attached to the tow vehicle.
-  Always follow state and local regulations regarding a safety chain when towing farm equipment on a public highway.
-  Be sure to check with local law enforcement agencies for any local regulations or restrictions.
- Do not use any device other than the safety chain that was supplied with the unit. Only a safety chain (not an elastic or nylon/plastic tow strap) should be used to retain the connection between the tow vehicle and the unit in the event of separation of the primary attaching system.

Bystanders

SAFETY INSTRUCTIONS

-  Beware of physical surroundings and especially bystanders, particularly children, before moving the unit! This is particularly important with higher noise levels and quiet cabs, as you may not hear people shouting.
-  NO PASSENGERS ALLOWED - Do not carry passengers anywhere on or in the tractor, except as required for operation.
-  Do not allow anyone to ride on the unit while it is moving.

Towing and Maximum Towing Speed

SAFETY INSTRUCTIONS

- Operate the towing vehicle from the operator's seat only.
- Do not exceed a towing speed of more than 20 mph (0.5 KPH) on a public roadway.
-  Remember, tires supplied by the manufacturer are designed to operate LESS THAN 20 mph. Do not exceed or tire failure may occur.

Highway and Transport Operations

SAFETY INSTRUCTIONS

- Make sure the wheel cylinder transport locks are installed and the jack stand is in its storage position before transporting the unit.

SAFETY INSTRUCTIONS

- Never use independent braking with unit in tow as loss of control and/or upset of unit may result.
- Always drive at a safe speed relative to local conditions and ensure that your speed is low enough for an emergency stop to be safe and secure. Keep speed to a minimum.
- Reduce speed prior to turns to avoid the risk of overturning.
- Avoid sudden uphill turns on steep slopes.
- Always keep the tractor or towing vehicle in gear to provide engine braking when going downhill. Do not coast.
- Use approved accessory lighting flags and necessary warning devices to protect operators of other vehicles on the highway during daylight and nighttime transport. Various safety lights and devices are available from your dealer.
- The use of flashing amber lights is acceptable in most localities. However, some localities prohibit their use. Local laws should be checked for all highway lighting and marking requirements.
- When driving the tractor and equipment on the road or highway, use flashing amber warning lights and a slow moving vehicle (SMV) identification emblem.
- Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc. Plan your route to avoid heavy traffic.
- Be observant of bridge loading ratings. Do not cross bridges rated lower than the gross weight at which you are operating.
- Watch for obstructions overhead and to the side while transporting.
- Always operate equipment in a position to provide maximum visibility at all times. Make allowances for increased length and weight of the equipment when making turns, stopping, etc.

Pre-towing Checklist

1. Before towing, make sure the maintenance on the tractor and the unit are current. This is very important because towing puts additional stress on the tow vehicle.
2. Check and correct the tire pressures on the tow vehicle and the unit. Refer to the Tire and Lug Torque specification chart in the manual.
3. Make sure the hitch, coupler, and any other equipment that connects the unit and the tow vehicle are properly secured and adjusted. Always inspect the hitch and tongue for cracks when hooking up.

! WARNING

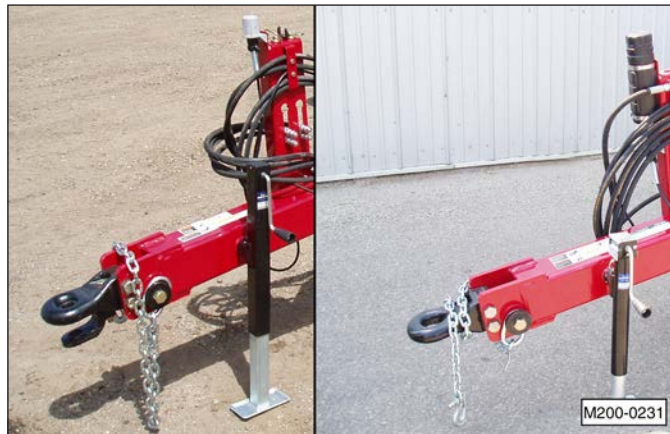


Substandard Parts Hazard

If towing the unit with a draw bar, use only an **OEM certified, hardened drawbar pin with a retainer clip**. Do not use homemade pins, bolts, or any other type of retaining device. Always install the retainer clip, making sure the hitch and unit are securely fastened to the tow vehicle.

Using a pin not intended for this type of towing, can result in unexpected separation of the unit from the tow vehicle resulting in equipment damage and personal injury.

4. Verify the appropriate Category 3 (7 shank) or Category 4 (9, 11, 13, 15, 17 shank) hitch is installed.



Model 207

Models 209 - 217F

WARNING



Unexpected Separation Hazard

If the safety chains do not have a current certification tag, do not use the unit until properly certified chains are installed. Substandard safety chains could allow the unit to separate from the tow vehicle resulting in equipment damage and personal injury.

5. Attach the safety chain from the unit to the tow vehicle. The safety chain should be long enough for tight turns. Don't allow the chain to drag on the pavement because it will wear the chain links causing an unsafe condition.
6. Make sure the electrical wiring harness for the running and taillights is properly connected and not touching the road, but loose enough to make turns without disconnecting or damaging the wires.
7. Have an observer confirm all running lights, brake lights, turn signals, and hazard lights are working on both the tow vehicle and the unit.
8. Verify the brakes on the tow vehicle are operating correctly.
9. Make sure transport locks are securely fastened to the cylinders and the hydraulic lock valve is in the closed position.
10. Make sure the jack stand is raised and locked in the storage position.
11. Check mirrors of the tow vehicle to make sure you have good visibility.
12. Check routes and restrictions on bridges and tunnels.

Hook-Up to Tractor



Safety

SAFETY INSTRUCTIONS



Make sure that anyone who will be operating the unit or working on or around the unit reads and understands all the operating, maintenance, and safety information in the operator's manual and other related OEM equipment manuals before using or towing the unit.

Prior to Connecting Unit

Make sure the unit is resting on the ground or the transport locks are securely installed over the wheel cylinders before attaching the unit to the tractor.



SAFETY INSTRUCTIONS



If the unit is not resting on the ground, make sure wheel chocks are securely fitted on both sides of each wheel.

! WARNING



Crush Hazard

The tongue weight of the unit is approximately 700 lbs. (318 kgs.). Use care when lifting or attaching the unit to the tractor. Never place any part of your body under the tongue or hitch assembly.



Hydraulic Pressure

This unit operates with hydraulic pressures of 2500 to 3000 psi (170 to 205 bars).



High-Pressure Fluids

1. Check or tighten all connections BEFORE pressurizing system.
2. Release all pressure before removing hoses and/or valves by:
 - a. Stopping engine.
 - b. Holding hydraulic control levers in float or neutral position.
3. DO NOT use your bare hand to check for potential leaks. Always use a board or cardboard when checking for a leak.



Escaping hydraulic fluid under pressure, even a pinhole size leak, can penetrate body tissue, causing serious injury and possible death. If fluid is injected into your skin, it must be treated immediately by a doctor familiar with this type of injury.

Tow Chain



A certified tow chain is supplied with each unit. This chain must be attached to the tractor during towing or operation of the unit.

SAFETY INSTRUCTIONS



Inspect the chain annually for wear or damage.



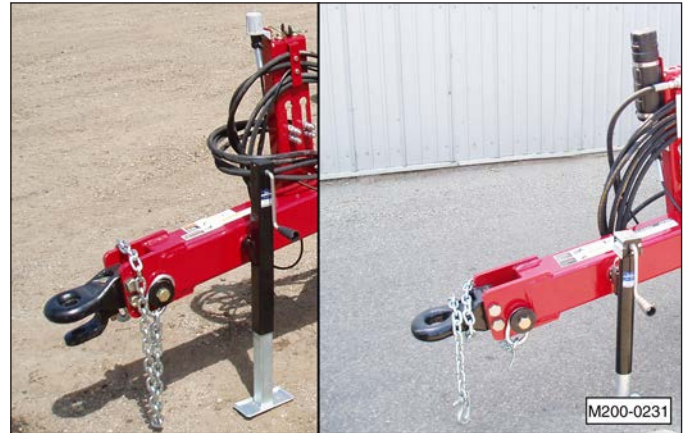
Do not replace the chain with anything other than an OEM certified replacement.

Connecting to the Tractor

1. Raise the jack stand and connect the tongue to the tractor. The tongue weight of the unit is approximately 700 lbs. (318 kgs).



Note: If a drawbar pin is used, it should be an OEM certified pin and retainer clip. On Model QT-207, category 3 pintle hitch use a 1-1/2" (38 mm) pin. On Model QT-207, category 3 clevis hitch use a 1-1/4" (32 mm) pin. On Models QT-209, QT-211, QT-213, QT-213F, QT-215F, and QT-217F category 4 pintle hitch use a 2" (51 mm) pin.



Model 207

Models 209 - 217F

2. Connect the hitch of the unit to the tractor. Attach the tow chain to the tractor's draw bar cage.



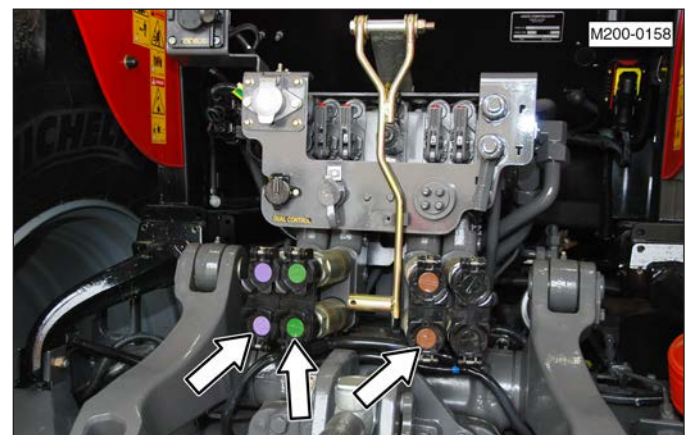
Note: When connected, make sure the retaining plate securely locks the chain link in place.

4. Remove the six hydraulic hoses from their storage position.



3. Remove the jack stand in place it in its storage position inside the frame, as shown.

5. Connect the six hydraulic hoses to the tractor.



Note: The most commonly used function of the unit is the “main lift” cylinders, which raises and lowers the wheels. Connect the hydraulic hoses for this function into the port (control lever) used most commonly.

6. Disconnect the electrical connection for the rear lights from the storage socket.



- a. Rotate the plug.



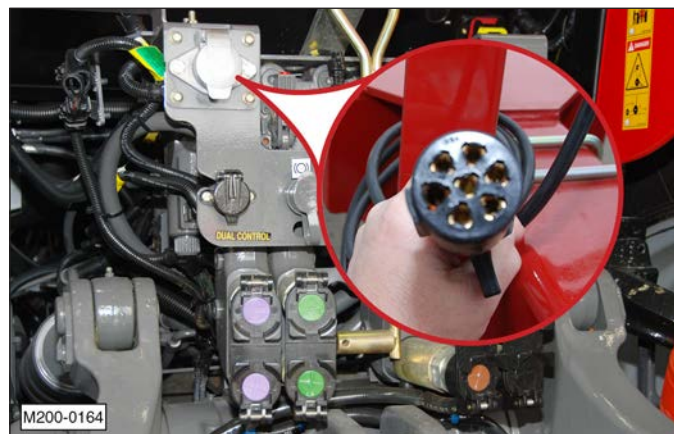
- b. Push the plug upward and slightly rotate it again to release it from the socket.



- c. Pull the plug downward.



- d. Connect the plug into the tractor's electrical socket.



7. Make sure all the hydraulic cylinders are functioning properly.
8. Make sure the amber and red indicator lights are working properly.
9. Move the unit to the desired location and position it for operation following the towing recommendation provided in this manual and/or any other local, State, or Federal regulations that may apply.

Operation

Safety

WARNING

To prevent serious injury or death, follow these safety instructions



Entanglement Hazard

Keep hands and clothing clear of moving parts.



Crush Hazard (Rolling Over)

Do not clean, lubricate, or make adjustments while the unit is moving.



Crush Hazard (Rolling Over)

When making adjustments to the unit or leaving the operator's seat:

1. Stop the tractor.
2. Shut off the engine and remove the ignition key.
3. Set the brakes.



Overturn Hazard

Pick the levellest possible route when transporting across fields. Avoid the edges of ditches or gullies and steep hillsides.



Safe Distance

Keep all bystanders, pets, and livestock clear of the work area, particularly when raising or lowering the unit.

SAFETY INSTRUCTIONS



Periodically clear the unit of brush, twigs, or other materials to prevent buildup of dry, combustible materials.

NOTICE

DO NOT turn while the unit is in the ground.

DO NOT operate the unit in frozen ground.

Initial Setup

The McFarlane Quadra-Till is a tool that is designed to handle a wide variety of field conditions. It has many adjustments that can be made to change the performance of each component on the unit as well as its overall performance. Achieving the best results over the widest range of circumstances can be accomplished by making adjustments to match the field conditions.

Note: It is important to make one adjustment at a time in order to see the results of each change. If several adjustments are made at the same time, the operation of the machine can change dramatically, creating confusion and frustration.

1. If necessary, remove the transport locks from both wheel cylinders. Store the transport locks in their storage positions on the frame, as shown.



⚠ WARNING



Pinch Point Hazard
Do not place hands or fingers between moving and/or stationary parts. The weight of the unit will easily cause serious bodily injury.



Sharp Object Hazard
Do not place any part of your body under the disk gang during the adjustment process. Severe injury will occur if a person contacts or falls under the disk gang.

2. Adjust the disk gang angle by repositioning the retainer bolts (1) and moving the disk gang into the desired position using the following procedure. The photo shows the disk gang set in the #2 position.



Note: On QT-213F, QT-215F, and QT-217F models, make sure the disk gang wing is unfolded before starting the adjustment procedure.

- a. Lower the disk gang close to the ground but not touching.



Do not place any part of your body under the disk gang.

- b. Move the handle of shut-off valve (2) to the closed position, as shown. The shut off valve helps prevent the wheel cylinders from retracting, due too bleed off within the hydraulic system, resulting in the disk gang lowering to the ground.



⚠ WARNING

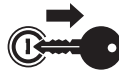
To prevent serious injury or death from rolling over or crushing during the setup procedure:



Stop tractor's engine.



Set parking brake.

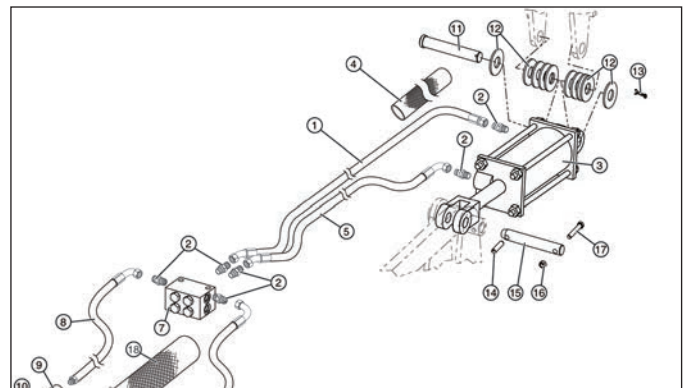


Remove ignition key.



Block wheels of unit.

- c. Stop the tractor, shut off the engine, set the parking brake, and remove the ignition key from the tractor.
- d. Block the wheels of the unit to prevent movement during repositioning of the disk gangs.
- e. Remove two retainer clips (3) from the castle nuts and remove the castle nuts using the wrench supplied with the unit.



Adjustments for rear disk gang.



- f. Adjust the disk gang to the desired angle.

The #2 position is a neutral setting and a good place to start the initial setup.

The #1 position is the least aggressive setting and is typically used with higher speeds and smaller amounts of residue.

The #3 position is the most aggressive setting and is used for heavy or difficult residue. This setting also requires the most horsepower. It may also be necessary to reduce the speed at this steeper gang angle to prevent ridging.

- g. Set the remaining disk gangs to the same position. Replace two retaining bolts (1), install and tighten the castle nuts to a snug fit, and install two retainer clips (3).



Adjustments for front disk gang.

3. Start the tractor and use the control lever to raise the complete unit (lower wheels).
4. Use the control lever for the front disk unit and raise the disk to the maximum height. On QT-213F, QT-215F, and QT-217F models unfold the disk gang wing, if not already extended.

5. Using the tractor's control lever for the leveler disk and harrow assembly, raise it to the maximum height. On QT-213F, QT-215F, and QT-217F models lower the leveler disk wings, if not already lowered.
6. Begin to pull the unit through the field.
7. Using the tractor's control lever for the main lift (controls wheel depth), slowly raise the wheels until the chisel shanks contact the ground.



8. Continue raising the wheels (lowering the unit) until the chisel shanks are approximately 6 to 12 inches (15.2 to 30.5 cm) in the ground.

Note: On the initial set up of the QT-215F and QT-217F, raise the gauge wheels to the highest position. Once the chisel depth is set, the gauge wheels can be adjusted into the working position.

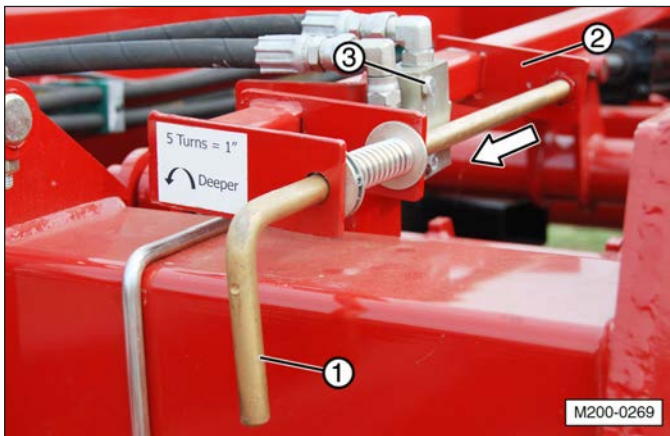
9. Stop the tractor with the unit still in the ground.



Before leaving the tractor, shut off the engine, set the parking brake, and remove the ignition key.

10. Measure the depth the chisel shank is cutting into the ground.
11. Adjust the chisel shank stop mechanism (1) until stop plate (2) contacts the plunger of the hydraulic flow shut off valve (3).

Note: The desired depth of the chisel shanks is controlled by hydraulic valve (3). When the wheels of the unit are raised, stop plate (2) attached to the frame actuates the valve, stopping oil flow. Each time the wheels are raised and lowered, the valve will consistently position the depth of the chisel shanks.



12. If the chisel shanks need to be set lower, adjust the stop mechanism accordingly. Five full turns of the crank equals 1 inch of depth adjustment.

Note: Since the wheels position the height of the entire frame of the unit, the depth setting of the other components also needs to be checked and possibly readjusted any time the chisel shank depth is changed.

13. Continue pulling the unit through the field and raise and lower the chisel shanks to allow the hydraulic control valve to stop at the set depth. Stop the tractor and check the depth of the chisel shanks, making sure they are the desired depth. Readjust the depth control device, if necessary.

⚠ WARNING

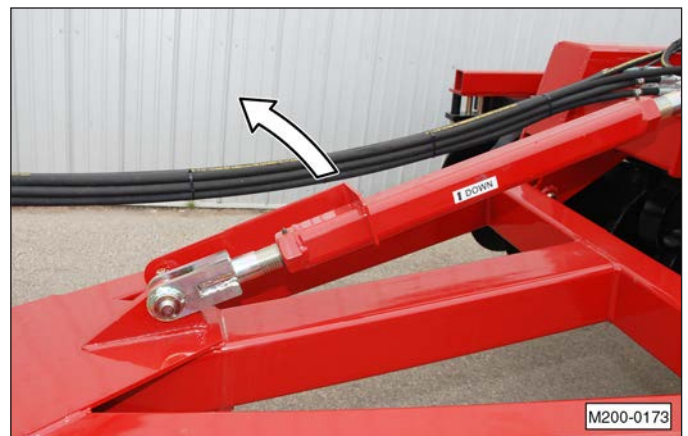


Before leaving the tractor, shut off the engine, set the parking brakes, and remove the ignition key.

14. Once the desired depth is reached for the chisel shanks, the unit must be leveled by adjusting the frame leveling turnbuckle. Stop the unit with the chisel shanks in the ground.



- a. Raise the locking mechanism from the turnbuckle.



- b. Use the wrench (stored on a bracket on the main frame) to make the adjustment.



- c. As viewed from the front of the unit, turning the turnbuckle counterclockwise will raise the hitch end and lower the harrow end.



- d. Check for level. Adjust the turnbuckle as needed.



- e. Once the unit is level from front to back, place the locking mechanism over the turnbuckle.



Note: When a major change is made to the depth of the front gang disks, the chisel shanks, or the rear leveler disks, make sure the frame is still level.

15. Position the chisel shank frame gauge wheels (QT-215F and QT-217F only).

- a. With the chisel shanks in the ground at the desired depth, lower the gauge wheels to SLIGHTLY carry the weight of the chisel frame wings.

Note: The gauge wheels are not designed to prevent the chisel from working deeper than originally set.

- b. Once both gauge wheels have been set to the same depth, install the lock pin.

Note: The gauge wheels must be readjusted whenever the chisel depth is changed.



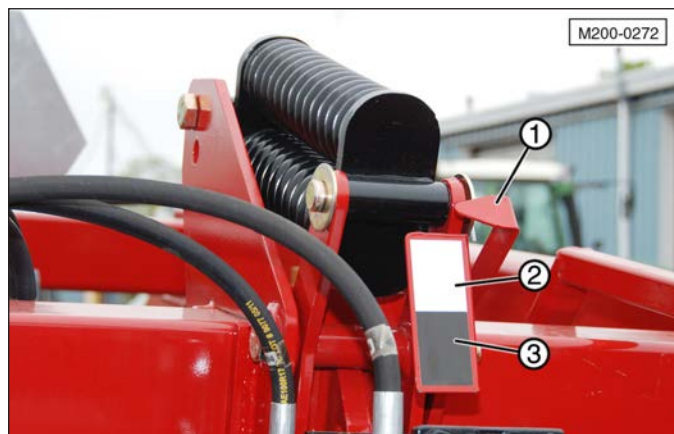
16. Continue pulling the unit through the field and using the disk gang depth control lever, begin lowering the disk gangs until they start cutting 1 to 2 inches (25 to 50 mm) into the ground. Adjust the position of the disk gangs to the desired depth using the depth gauge (1) (one through nine) and depth indicator (2).



Note: If depth gauge (1) indicates a level of four and you need to lower the unit an additional 2 inches (51 mm), move indicator (2) down to number six.

Note: The disk gangs should not be run deeper than 4 inches (102 mm). If more soil loosening is required, increase the aggressiveness of the disk gang angle.

The disk gangs and their frame are protected by a heavy-duty spring protection device with a down-pressure indicator. If indicator arrow (1) is in the “black” zone (3) (too much pressure), raise the disk gang or change the angle until the indicator is in the “white” zone (2) (proper operating pressure).



17. Using the leveler disk control lever and the leveler disk indicator (1 through 11), lower the leveler disks to approximately a finished grade level.



18. Once the proper height of the leveler disk is set, insert the cylinder rod stops from their storage location and place them on the cylinder rod between the body of the cylinder and the clevis, as shown.



Note: Inserting the cylinder rod stop collars allows the leveler disks to be raised and then lowered again to the exact same position every time. They also prevent the cylinders from retracting due to bleed off within the hydraulic system.

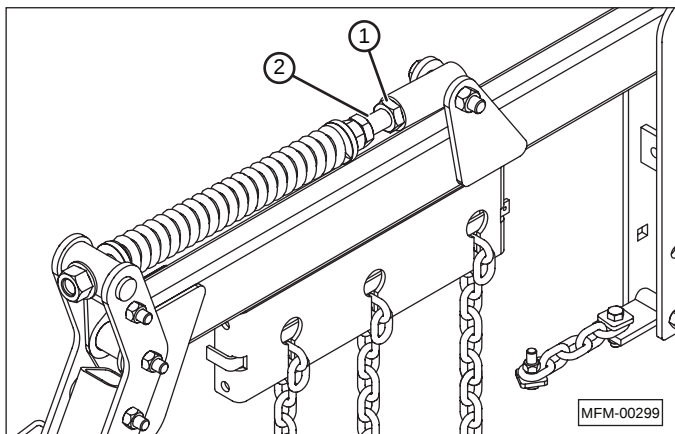
19. Finally, once the front disk gangs, chisel shanks, and rear leveler disks have been set to the desired depth, recheck the frame for level. Adjust the turnbuckle, if necessary.

20. Adjust chain length for harrow.

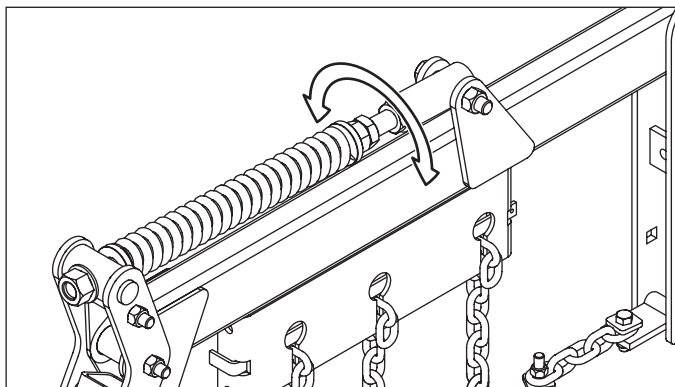


21. Adjust the rolling basket height and tension, if equipped.

- a. Place the rolling basket on a flat, level surface.
- b. Loosen jam nut (1) at the front of adjusting bolt (2).



- c. Turn the adjusting bolt to either raise or lower the rolling basket. Do not change the tension on the spring. Set the rolling basket height so it just touches the ground.



- d. Make sure all the rolling baskets are adjusted to the same height. Failure to do so will result in uneven seedbed conditions and could damage the rolling basket arms and/or bearings.

22. Rolling Basket Hydraulic Down Pressure (if equipped)

- a. The McFarlane rolling basket is designed to condition the soil, pulverize large clods, remove soil from exposed root balls and firm the soil surface.

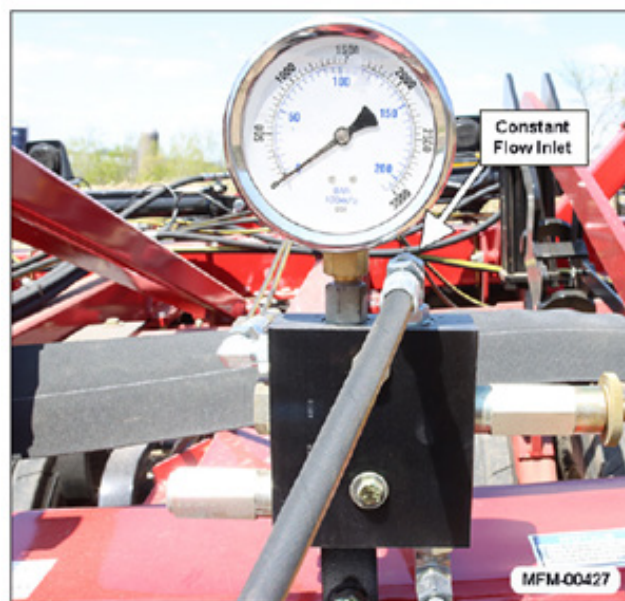
23. The Hydraulic Cylinder Support with constant down pressure is self-adjusting for unit depth and will maintain a uniform pressure over rolling terrain. As the unit is lowered, the rolling basket will find its working position based on the set pressure applied. When the unit is raised, the rolling baskets will lower to the maximum down position. We recommend hydraulically raising the rolling baskets for transport and going in and out of driveways or waterways.

Operating with Constant Hydraulic Flow

1. The tractor SCV for the rolling basket function must be set to constant hydraulic flow. Refer to your tractor manual to set your tractor hydraulics to this mode. This may also be referred to in your tractor manual as the setting required for hydraulic motors. If your tractor does not have this feature, the tractor SCV for the rolling baskets must be run in the float position. Make sure the tractor constant flow port is connected to the blue grip that leads to the pressure reducing valve port just ahead of the gauge.

2. Lowering the flow rate to 25% of full flow will reduce heat buildup in the hydraulic oil.

3. Check the pressure gauge reading with the unit connected to the tractor and operating in the constant flow mode. It should be set initially at 200 psi. To increase rolling basket down pressure, the valve pressure can be increased by loosening the locking nut and rotating the knob clockwise. Be sure to lock the nut after finishing the adjustment. The pressure should not exceed 250 psi.



Note: To maximize the unit's performance, it should be operated at speeds ranging from 5 to 6-1/2 mph (8 to 10-1/2 kph). This keeps the field debris moving through the harrow sections and avoids clogging.

24. The unit should now be ready.

Maintenance

Safety

WARNING

To prevent serious injury or death:



Rolling Over / Crush Hazard

To prevent serious injury or death, before servicing, adjusting, repairing, or performing other work on the unit, always make sure the tractor or towing vehicle engine is stopped, the ignition key is removed, the unit is lowered to the ground, all controls are placed in neutral, the parking brake is set, and all hydraulic fluid pressure is relieved (zero pressure).



Rolling Over Hazard

Block the wheels before performing maintenance or repairs.



Use Properly Rated Tools

Use sufficient tools, jacks, and hoists that have the capacity for the job.



Crush Hazard

Use support blocks or safety stands rated to support the load when changing tires or performing maintenance.



High-Pressure Fluids

Never use your hands to locate a hydraulic leak. Use a piece of cardboard or wood. Wear proper hand and eye protection when searching for a high-pressure hydraulic leak.

Hydraulic fluid escaping under pressure can penetrate the skin. Openings in the skin and minor cuts are susceptible to infection from hydraulic fluid. If injured by a concentrated high-pressure stream of hydraulic fluid, seek medical attention immediately. Without immediate medical treatment, serious infection or toxic reaction can develop if hydraulic fluid penetrates the surface of the skin.



Entanglement Hazard

Keep hands, feet, clothing, jewelry, and long hair away from any moving parts to prevent them from getting caught.

SAFETY INSTRUCTIONS

Follow all operating, maintenance, and safety instructions found in this manual.



Understand the service procedure before performing the work. Keep area clean and dry.



Replace all worn or damaged safety and instruction decals.



Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts.



Do not leave tools lying on the unit.



Do not modify machine or safety devices. Do not weld on the unit. Unauthorized modifications may impair its function and safety.

If equipment has been altered in any way from the original design, the manufacturer does not accept any liability for injury or warranty.



Never replace hex bolts with less than Grade 5 bolts unless otherwise specified.



Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore the unit to original specifications. The manufacturer will not claim responsibility for damages as a result of the use of unapproved parts.

Tire and Lug Torque Specifications

Model	Tire Size	Tire Pressure	Lug Size	Lug Torque (lb.ft.)		Weight (lbs.)
				Min	Max	
QT-207	440/55R 15	46 psi	5/8"	85	100	120
QT-209	320/70R 15	38 psi	9/16"	80	90	102
QT-211	320/70R 15	52 psi	5/8"	85	100	102
QT-213F	360/65R 17.5	46 psi	5/8"	85	100	124
QT-215F	440/55R 18	41 psi	5/8"	85	100	120
QT-217F	440/55R 18	46 psi	5/8"	85	100	120
QT-215F and QT217F Gauge Wheel	9.5L-15 8 ply	44 psi	1/2"	75	85	78

Bolt Torque Chart

Bolt Head Markings	 No Marking		 3 Radial Lines		 6 Radial Lines	
Bolt Diameter	SAE Grade 2 N·m (ft-lbs)		SAE Grade 5 N·m (ft-lbs)		SAE Grade 8 N·m (ft-lbs)	
1/4"	8	(6)	12	(9)	17	(12)
5/16"	13	(10)	25	(19)	36	(27)
3/8"	27	(20)	45	(33)	63	(45)
7/16"	41	(30)	72	(53)	100	(75)
1/2"	61	(45)	110	(80)	155	(115)
9/16"	95	(70)	155	(115)	220	(165)
5/8"	128	(95)	215	(160)	305	(220)
3/4"	225	(165)	390	(290)	540	(400)
7/8"	230	(170)	570	(420)	880	(650)
1"	345	(225)	850	(630)	1320	(970)

Maintenance Schedule

1. After the first 12 hours of use, check the tightness of the bolts, especially those on the C-springs. Torque specifications are listed in the Bolt Torque Chart in this manual.
2. Prior to each use, check for loose bolts and replace lost or worn parts.
3. Grease hinge pins every 15 hours.
4. Grease wheel bearings every 50 hours (sparingly) and check for endplay. Repack annually.
5. On units equipped with individual disk hubs, grease disk hub bearings every 50 hours (sparingly) and check for endplay. Repack annually.

Note: Clean grease fittings and replace those that are broken or missing. Over greasing may damage bearing seals and cause premature bearing failure.

Lubrication

Wheel Bearings

Wheel bearings and disk hub bearings only require lubrication every 50 hours of service. These bearings should be greased sparingly every 50 hours of service. Check for end play in the bearings, prior to adding grease.

Clean, repack, and adjust the wheel bearings and leveler disk bearings annually. Use only wheel bearing grease when repacking these units.

Lubrication Points

Add grease to the locations shown on the following page.

When greasing a pin and bushing, add grease until it is visibly forced out of the joint.

Hydraulic Components

Safety

WARNING



Trapped Air Hazard

When installing, replacing, or repairing hydraulic system cylinders or parts, make sure that the entire system is charged and free of air before resuming operations. Failure to bleed the system of all air can result in improper machine operation, causing severe injury.



Zero Pressure

Relieve pressure from the hydraulic system before servicing or disconnecting from the tractor.



High-Pressure Fluid Hazard

Keep all hydraulic lines, fittings, and couplers tightly secured and free of leaks.



Explosive Separation Hazard

Replace any worn, cut, abraded, flattened, or crimped hoses.



High-Pressure Hazard

Do not make any temporary repairs to the hydraulic lines, fittings, or hoses using tape, clamps, or cement. The hydraulic system operates under extremely high pressure and temporary repairs may fail suddenly and create a hazardous/dangerous situation.



Personal Protection Equipment

Wear proper hand and eye

protection when searching for a high-pressure hydraulic leak. Use a piece of wood or cardboard as a backstop instead of hands to identify and isolate a leak. If injured by a concentrated high-pressure stream of hydraulic fluid, seek medical attention immediately. Serious infection or toxic reaction can develop if hydraulic fluid penetrates the surface of the skin.



High-Pressure Fluid Hazard

Before applying pressure to the system, make sure all components are tight and that the hydraulic lines, hoses, and couplings are not damaged.

NOTICE

Make sure components in the hydraulic system are kept clean and in good working condition.

Wheel Lift Cylinders, Disk Gang, and Leveler Disk Wing Cylinders

There are no setup procedures or maintenance items on these cylinders.

Rear Disk Leveler Cylinders

The rear disk leveler cylinders use a rephasing or sequencing circuit. This type of hydraulic circuit allows both cylinders to raise and lower simultaneously.

If the cylinders do not extend and retract together, use the following procedure to put them back in phase with one another.

1. Raise the leveler disk unit completely and hold the control valve lever in the raise position for approximately 20 seconds.
2. Lower the leveler disks.
3. Repeat Step 1 and Step 2 until both cylinders raise and lower at the same time.

Tire Safety

WARNING



Explosive Separation Hazard

Do not attempt to mount tires unless you have the proper equipment and experience to do the job. Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosive separation, which may result in serious injury or death.



Explosive Hazard

Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure, resulting in a tire explosion. Welding can structurally weaken or deform the wheel.



Flying Objects Hazard

Inflating or servicing tires can be dangerous. Whenever possible, trained personnel should be called to service and/or mount tires.

When inflating tires, use a clip-on chuck and extension hose. Always stand to the side of the tire when inflating, and NOT in front of or over the tire assembly.

Make sure the tires are inflated evenly.



Crush Hazard

Make sure the unit is completely supported with suitable stands before removing a wheel assembly.

SAFETY INSTRUCTIONS



Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure.



Check tires for low pressure, cuts, bubbles, damaged rims, or missing lug bolts and nuts.



Always install tires and wheels with appropriate capacity to meet or exceed the weight of the unit.



Do not exceed 20 mph or tire failure will occur.



Keep wheel lug nuts or bolts tightened.

Disk Gang Disks

1. Replace the disk blades when the diameter is 22 inches or less.
2. It will also be necessary to check and tighten the disk gang arbor bolts to prevent excessive wear.

Tighten the gang arbor bolts to 600 to 800 ft-lb.

Note: A torque of 600 ft-lb would be equivalent to using a 4 foot wrench with a 150 pound person hanging freely on the end.

A torque of 800 ft-lb would be equivalent to a 200 pound person using a 4 foot wrench.

Front Disk Gang Coil Spring System

⚠ WARNING

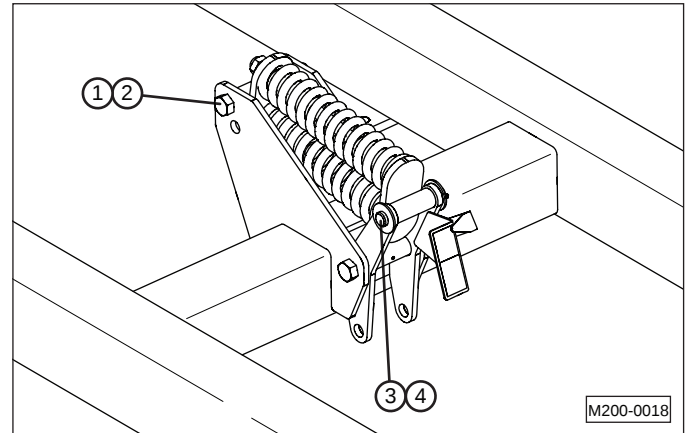


Spring Tension Hazard

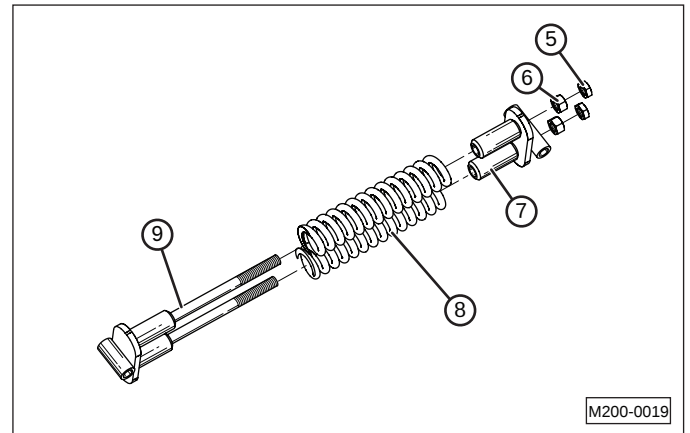
Compressed springs can contain enough energy to cause serious bodily injury and even death. Do not remove retainer (3) until all spring tension is released. Use extreme caution when working around broken springs that are compressed.

1. Place blocks under the disk gang frame or disk gangs to support the unit. This will remove the pressure from the spring assembly, allowing it to be removed.

2. Attach a lifting device to the spring assembly. Make sure there is no tension on the bolt and remove lock nut (2) from bolt (1) and remove bolt. Then remove cotter pin (4) from clevis pin (3) and remove the pin.



3. Remove the spring assembly.
4. Remove two lock nuts (5) from spring retainer shaft (9). Slowly remove two retainer nuts (6) to release the spring tension. Alternately turn the nuts to evenly release the spring pressure.



Note: Retainer nuts (6) can be removed using the wrench supplied/attached to the frame of the unit.

5. Remove retainer (7) and springs (8). If necessary, replace spring mount (9).
6. Reassemble all parts.
7. Tighten retainer nuts (6) until the springs are compressed to 15.0" (38.1 cm). Install and tighten locknuts (5).
8. Reinstall the spring assembly.

Chisel Shank Spring Replacement

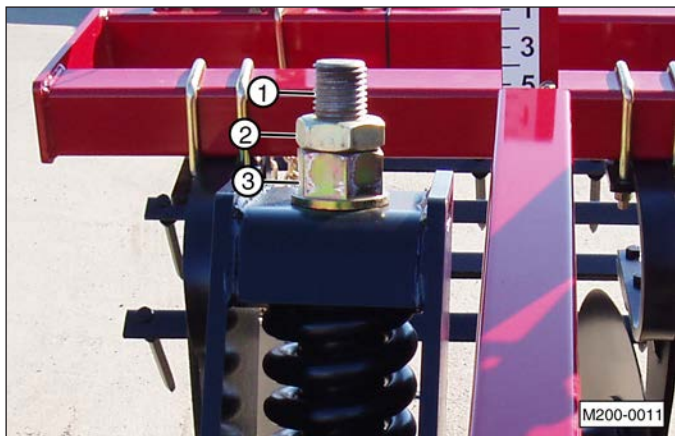
WARNING



Spring Tension Hazard

Compressed springs can contain enough energy to cause serious bodily injury and even death. Do not remove the chisel shank retainer bracket until all spring tension is released. Use extreme caution when working around broken springs that are compressed.

1. If necessary, remove the chisel shank. The chisel shank assembly and shovel weigh approximately 165 lbs. Refer to the Assembly Manual for additional information on removal and installation procedures.
2. Loosen the set screw and remove lock nut (2) from spring retainer shaft (1). Slowly remove retainer nut (3) and release the spring tension.



Note: Retainer nut (3) can be removed using the wrench supplied/attached to the frame of the unit.

3. Remove bolt (4), lock nut (5), and pivot pin (6). Replace the worn or broken parts.



4. Install and tighten removed bolts. Do not overtighten bolt (4).

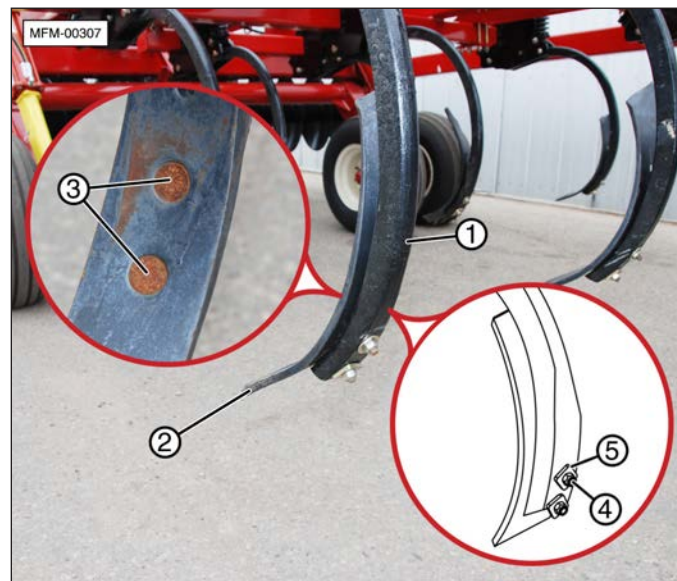
5. Tighten retainer nut (3) until the spring is compressed to 15.25" (38.735 cm). Install locknut (2) and tighten the setscrew.



Chisel Shank Point/Shovel Replacement

The chisel points/shovels (2) are reversible. When the point becomes less effective, reverse or replace the shovel.

1. Remove plow bolts (3), square washers (5), and locknuts (4) from shank (1).



2. Install the twisted shovels with plow bolts (3), square washers (5) and lock nuts (4).

Note: A straight point, a three inch twisted shovel, or a four inch twisted shovel are interchangeable on the chisel shank.

Troubleshooting

Problem	Cause	Solution
Disk gang is not tilling to desired depth or the soil is not fully worked to desired depth.	Disk gang is not set deep enough.	Increase the depth of the disk gang up to a 4 inch maximum depth. Whenever you are making a change to any setting, make sure the unit remains level as it is pulled through the field.
	Disk gang angle is not set properly for the soil conditions.	Increase disk gang angle to loosen more soil.
The ground is not level behind the leveler disk and harrow.	The rear leveler disks are set too shallow or too deep into the ground.	Raise the leveler disk until the ground levels out. When set too deep, the disks cut furrows in the ground that the harrow cannot level out.
The residue is not being turned into the ground.	The front gang disk is not set at an aggressive enough angle.	Increase the angle of the front disk gang.
	The front gang disk is not set deeply enough.	Increase the depth of the disk gang up to a 4 inch maximum depth. Whenever you are making a change to any setting, make sure the unit remains level as it is pulled through the field.
The residue is not being sized correctly.	The front disk gang may not be set deep enough.	Increase the depth of the disk gang up to a 4 inch maximum depth. Whenever you are making a change to any setting, make sure the unit remains level as it is pulled through the field.
The disk gang indicator is pointing to the black area.	Too much force is being placed on the disk gangs or the soil conditions are too hard for the depth or the angle the disk gangs are set.	Raise the disk gang.
		Set the angle of the disk to be less aggressive.
		Reduce the speed. A speed of 5 to 6-1/2 miles per hour is recommended.
Ridging is occurring.	Front disk gang is not set correctly.	Raise the disk gang.
		Set the angle of the disk to be less aggressive.
		Reduce the speed. A speed of 5 to 6-1/2 miles per hour is recommended.
Residue buildup on harrow bars.	Front disk gang is not set correctly.	Set the disk gang to a more aggressive angle in order to size the residue into smaller pieces.
	The harrow angle is not set correctly.	Change the angle of the teeth. Using the linkage settings that
		the harrow to the steepest angle is usually recommended for spring work or light residue.

Storage

Safety

SAFETY INSTRUCTIONS

Follow all operating and safety instructions found in this manual when storing this equipment.



Store the unit in an area away from human activity.



Do not permit children to play on or around

the stored unit at any time.

Make sure the unit is stored in an area with a firm and level base to prevent it from tipping or sinking into the ground.



Block the wheels to prevent the unit from rolling.

Placing Into Storage (Disk Coatings)

Apply a thin layer of grease to all exposed metal surfaces of the disks, points, and shanks.

Disposal of Equipment at End of Useful Life

The McFarlane Quadra-Till has been designed for the specific purpose of tilling agricultural farm land. When this unit is no longer capable of doing its designed purpose, it should be dismantled and scrapped. Do not use any materials or components from this unit for any other purpose.

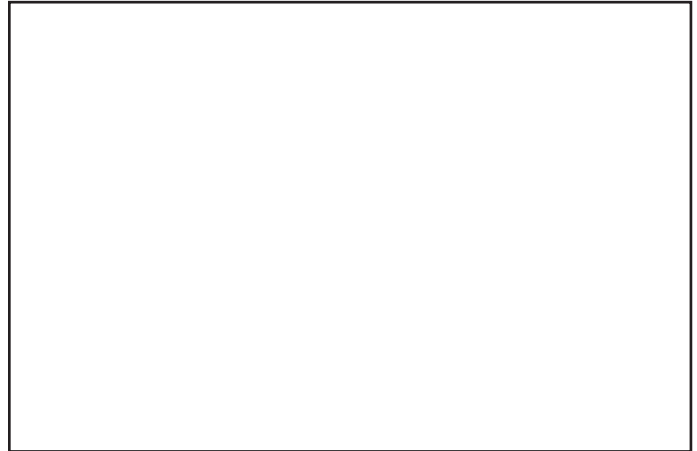
Parts Section

Ordering Parts

We manufacture a quality product that requires very little maintenance or repair. However, should a part break or become damaged, our knowledgeable staff can make sure you receive the part(s) to put your unit back into operation.

Dealer Contact Information

For replacement decals, questions, or to order parts, contact your dealer:



Decals



WARNING

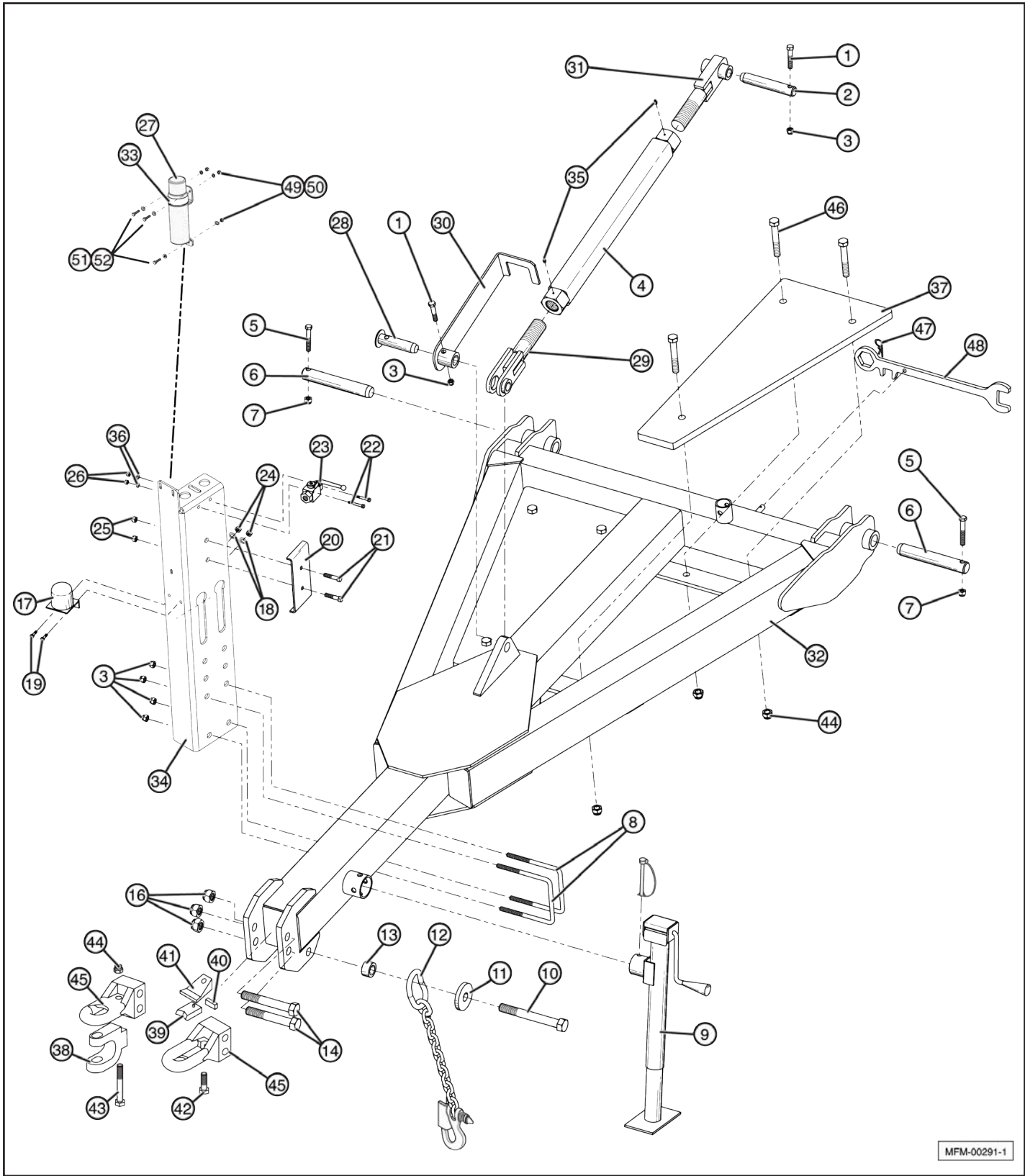


Make sure all decals are attached to the unit and are legible at all times. Safety decals and reflective tape provide a vital role in helping to reduce injuries and/or possibly even death.

To ensure the greatest level of safety, all decals must be in place and legible at all times. Remember, it is the users' responsibility to maintain these decals.

Parts Drawings

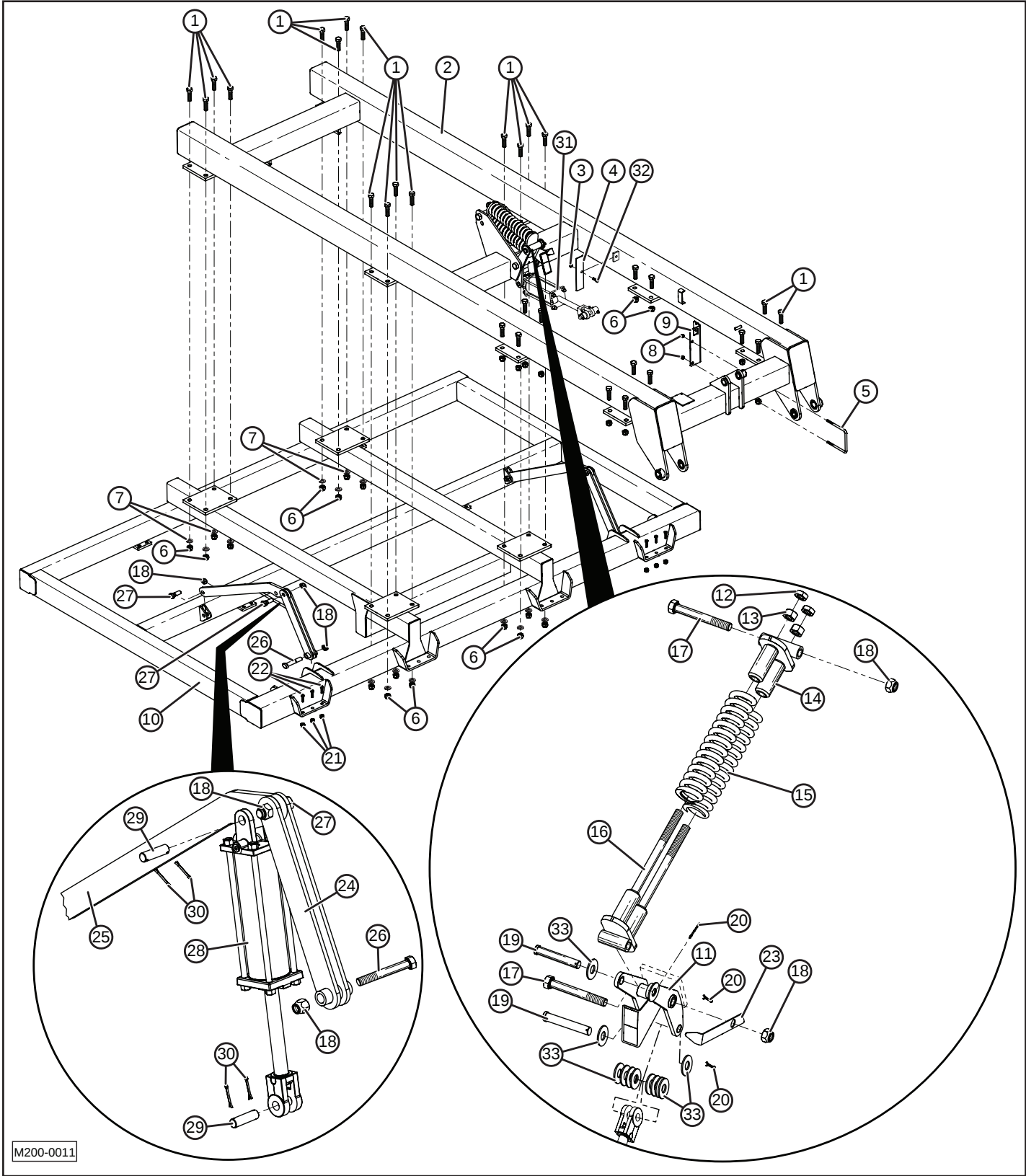
Hitch Frame Assembly



Item	Part Number	Description
1	BH-5028	SCREW, CAP, HEX, 1/2-13 x 2-3/4", GRADE 5
2	RT-2124	LEVEL LIFT TUBE PIN
3	NLT-5013	NUT, LOCK, HEX, 1/2-13
4	RT-3145	TURNBUCKLE TUBE ASSY
5	BHY-5635	SCREW, CAP, HEX, 9/16-12 x 3-1/2, GRADE 8
6	RT-2107	LINKAGE PIN
7	NLT-5612	NUT, LOCK, HEX, 9/16-12
8	BU-1267	U-BOLT, 1/2 x 6 x 7-1/4"
9	QT-1243	JACK, 15" SQ., 8,000 LB
10	BHY-1085	SCREW, CAP, HEX, 1-8 x 8-1/2", GRADE 8
11	RT-3103	SAFETY CHAIN WASHER
12	CH-1816 CH-1820 CH-1830	SAFETY CHAIN, 16,100 LBS (7, 9 SHANK) SAFETY CHAIN, 20,200 LBS (11 SHANK) SAFETY CHAIN, 30,400 LBS (13, 15, 17 SHANK)
13	RT-2054	SAFETY CHAIN BUSHING
14	BHY-1070	SCREW, CAP, HEX, 1-8 x 7", GRADE 8
15		
16	NLT-1008	NUT, LOCK, HEX, 1-8
17	LB-1110	BRACKET, LIGHT PLUG
18	LW-0025	WASHER, LOCK, 1/4
19	BH-2510	SCREW, CAP, HEX, 1/4-20 x 1, GRADE 5
20	RD-4309	HYDRAULIC HOSE RACK CLAMP
21	BH-4420	SCREW, CAP, HEX, 7/16-14 x 2, GRADE 5
22	BH-2520	SCREW, CAP, HEX, 1/4-20 x 2, GRADE 5
23	QT-1172	VALVE, BALL, 3/4"
24	NH-2520	NUT, HEX, 1/4-20
25	NLT-4414	NUT, LOCK, HEX, 7/16-14
26	NH-2520	NUT, HEX, 1/4-20
27	14493	MANUAL STORAGE TUBE
28	RT-2113	HITCH TURNBUCKLE PIN
29	RT-2111	TURNBUCKLE HITCH END
30	RT-2114	HITCH TURNBUCKLE LOCK
31	RT-2112	TURNBUCKLE PIVOT END

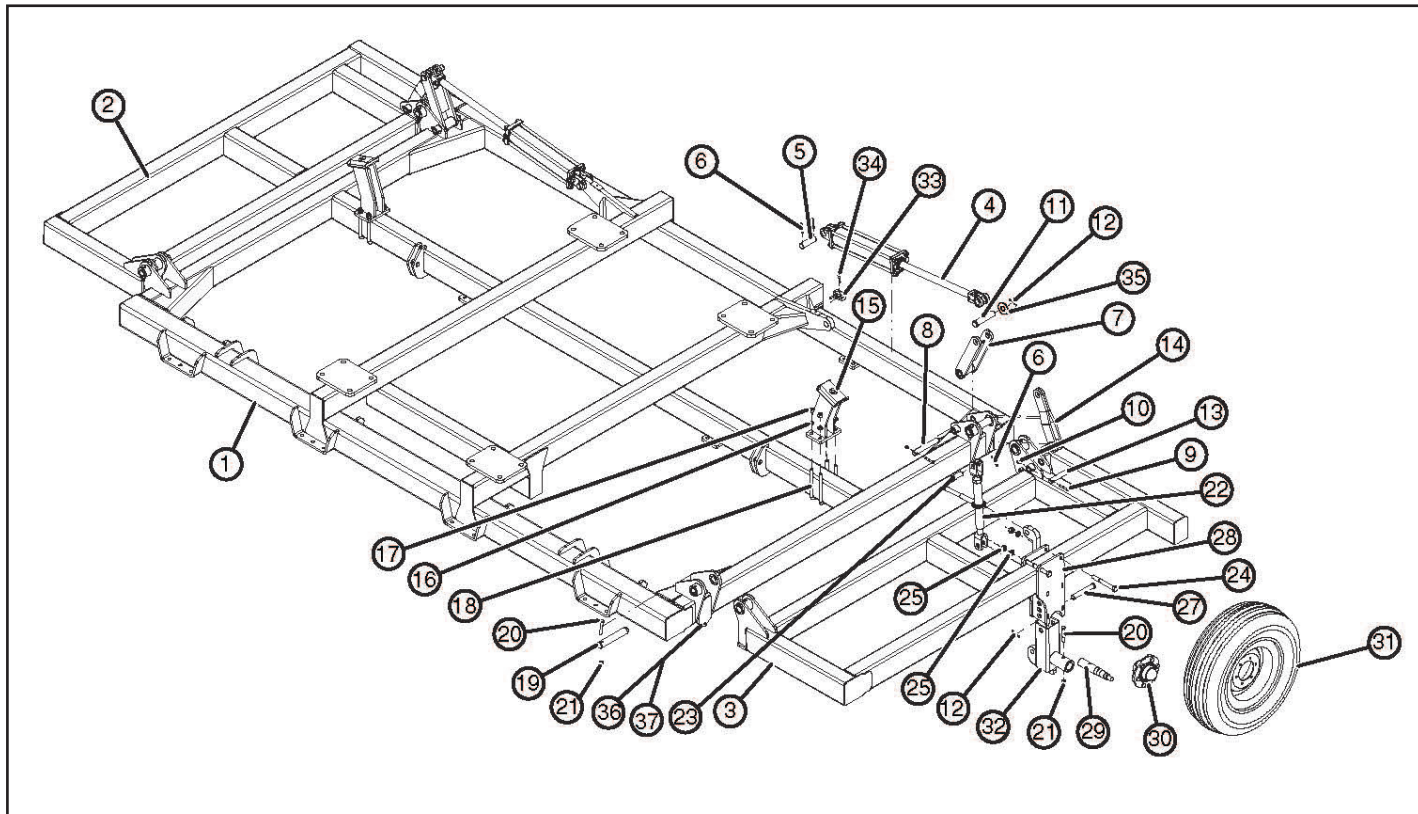
Item	Part Number	Description
32	QT-1244 QT-1228	HITCH FRAME (7, 9, 11 SHANK) HITCH FRAME (13, 15, 17 SHANK)
33	—	—
34	10294	BRACKET, STORAGE, HITCH
35	GZ-2528	ZERK, GREASE
36	LW-0025	WASHER, LOCK, 1/4
37	10772	WEIGHT, 108 LB. (207-IRB, 207-RB) WEIGHT, 108 LB. (209-IRB, 209-RB) WEIGHT, 108 LB. (211-IRB, 211-RB) WEIGHT, 108 LB. (213F-IRB, 213F-RB) WEIGHT, 108 LB. (215F-IRB, 215F-RB) WEIGHT, 108 LB. (217F-IRB, 217F-RB)
38	15759	KIT,CLEVIS HITCH,CAT 3 (QT -207 ONLY)
39	PPI-203	V -PLATE, QT-207 only
40	PPI-201	CUSHION, QT-207 only
41	PPI-302	TOP PLATE, QT-207 only
42	BHY-7525	BOLT, 3/4 - 10 x 2-1/2 GD 8, QT-207 only
43	BHY-7555	BOLT, 3/4 - 10 x 5-1/2 GD 8, QT-207 only
44	NLT-7510	NUT, TOP LOCK, 3/4 - 10, QT-207 only
45	15758 12336	HITCH,PINTLE,CATIII (QT-207 ONLY) HITCH,PINTLE,ARTICULATING BALL,CAT 4 (QT-209 THRU QT-217F)
46	BHY-7535 BH-7545 BHY-7590 BHY-7580	BOLT, 3/4 - 10 x 3-1/2" (QT-207) BOLT, 3/4 - 10 x 4-1/2" (QT-209, QT-211) BOLT, 3/4 - 10 x 9" (QT-213F) BOLT, 3/4 - 10 x 8" (QT-215F, QT-217F)
47	PB-0009	PIN, BRIDGE, #9
48	10273	WRENCH, TURNBUCKLE
49	LW-0025	1/4 LOCK WASHER
50	NH-2520	1/4 HEX NUT
51	BH-2510	1/4 X 1 HEX BOLT
52	12100	WASHER,FLAT,1/4

Main Frame Assembly



Item	Part Number	Description
1	BH-8830	BOLT, HEX, 7/8-9 x 3 GD 5
2	10904 10905 10773 10660	MAIN FRAME (QT-207 - QT211) MAIN FRAME (QT-213) MAIN FRAME (QT-213F) MAIN FRAME (QT-215F and QT-217F)
3	NLT-3816	NUT, TOP LOCK, 3/8-16
4	QT-1245	DISK DEPTH GAUGE
5	BU-1267	U-BOLT, 1/2 X 6 x 7
6	NH-8809	NUT, HEX, 7/8-9
7	LW-0088	WASHER, LOCK, 7/8
8	NLT-5013	NUT, TOP LOCK, 1/2-13
9	QT-1140	HYD STOP FRAME BRACKET
10	QT-1193 QT-1194 QT-1195 QT-1196	CHISEL FRAME ASSY 7 CHISEL FRAME ASSY 9 CHISEL FRAME ASSY 11 CHISEL FRAME ASSY 13/13F
11	QT-1118 QT-1266	DISK SPRING BRACKET ASSY DISK SPRING BRACKET, 215F, 217F
12	NHJ-1008 NHJ-1506	NUT, JAM 1-8 NUT, JAM 1 1/2 - 6, 215F, 217F
13	NH-1008 NH-1506	NUT 1-8 NUT 1 1/2 - 6, 215F, 217F
14	QT-1121 QT-1269	SPRING SYSTEM ADJUSTMENT ASSY SPRING SYSTEM ADJUSTMENT ASSY, 215F, 217F
15	QT-1001 QT-1182	SPRING SPRING, 4.375 x 17, 215F, 217F
16	QT-1120 QT-1268	SPRING SYSTEM MOUNT ASSY SPRING SYSTEM MOUNT, 215F, 217F
17	BHY-1080	BOLT, 1-8 x 8 GD 8
18	NLT-1008	NUT, TOP LOCK 1-8
19	CL-1006	CLEVIS PIN 1 x 6
20	CP-3620	COTTER, 3/16 x 2
21	NLT-6311	NUT, TOP LOCK 5/8-11
22	BH-6320	BOLT, 5/8-11 x 2 GD 5
23	QT-1119	SPRING SYSTEM GAUGE INDICATOR
24	QT-1201	AXLE TRUSS ASSY
25	QT-1202 QT-1271	AXLE CYL ARM AXLE CYL ARM, 215F, 217F
26	BHY-1065	BOLT, 1-8 x 6-1/2 GD 8
27	BHY-1033	BOLT, 1-8 x 3-1/4 GD 8
28	HYC-34012	HYDRAULIC CYLINDER, 4 x 12
29	HYO-2103	CYLINDER CLEVIS PIN, 1 x 3
30	CP-3620	3/16 x 2 COTTER PIN
31	HYA-34008	HYDRAULIC CYLINDER
32	BH-3810	BOLT, HEX 3/8-16 x 1 GD 5
33	FW-0100	FLAT WASHER, 1"

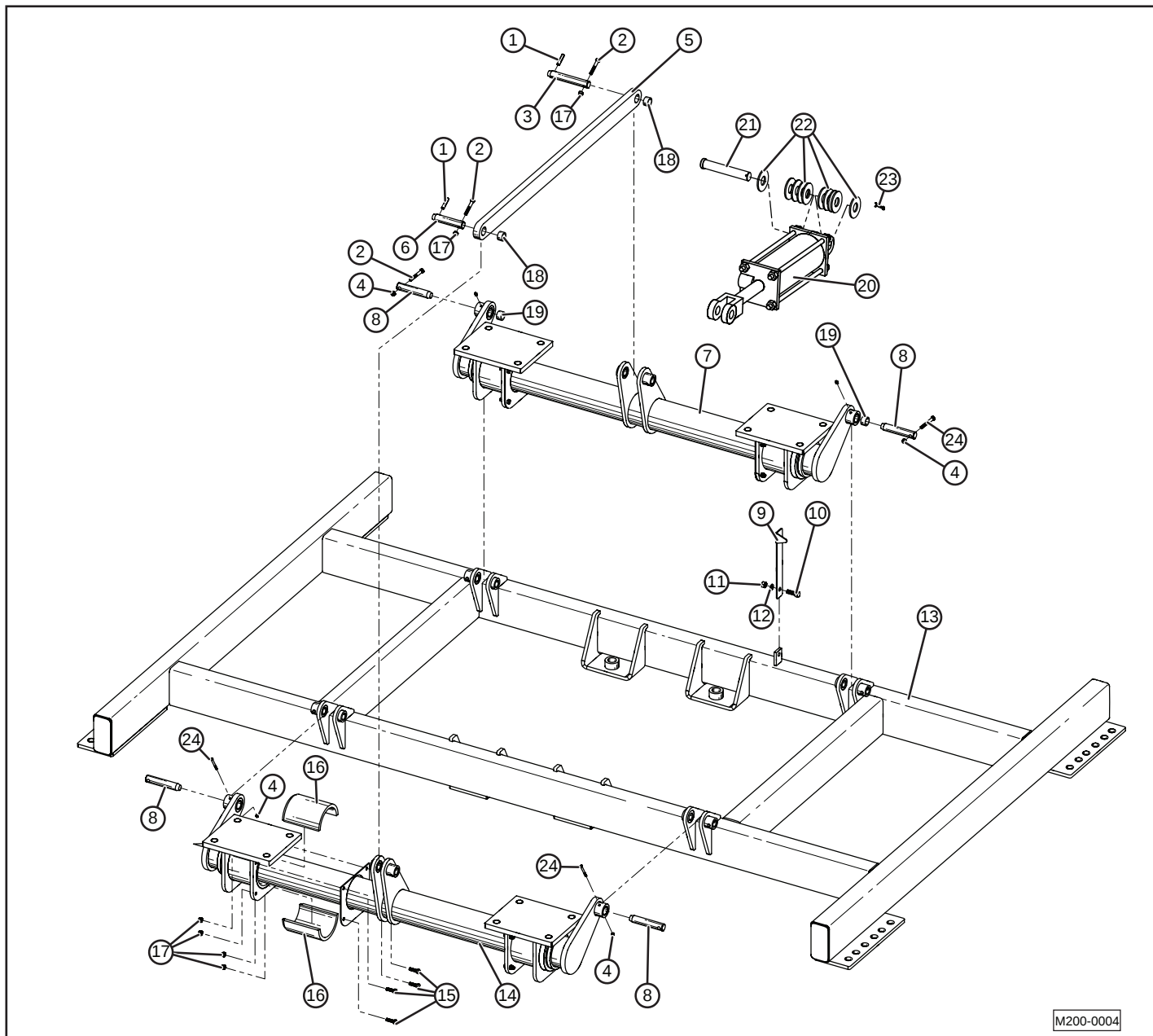
QT-215F and QT-217F Chisel Frame



Item	Part Number	Description
1	QT-1249	CF ASSY CENTER 215F, 217F
2	QT-1251 QT-1253	CHISEL FRAME, WING, RT, QT-215F CHISEL FRAME, WING, RT, QT-217F
3	QT-1250 QT-1252	CHISEL FRAME, WING, LT, QT-215F CHISEL FRAME, WING, LT, QT-217F
4	HYA-33516	CYLINDER 3-1/2 x 16
5	HYO-2103	CYLINDER PIN 1 x 3-1/2
6	CP-3620	COTTER PIN 3/16 x 2
7	QT-1263	CHISEL CENTER LINKAGE ASSY
8	QT-1276	CHISEL CENTER LINKAGE PIN
9	BH-3823	BOLT 3/8-16 x 2-1/4
10	NLT-3816	NUT TOP LOCK 3/8-16
11	CL-1305	CLEVIS PIN 1-1/4 x 5
12	CP-1820	COTTER PIN 1/8 x 2
13	QT-1057	DF HITCH PIN
14	QT-1264	CHISEL WING LINKAGE ASSY
15	QT-1265	CHISEL WING REST ASSY
16	LW-0063	LOCK WASHER 5/8
17	NH-6311	HEX NUT 5/8-11
18	BU-5848	U-BOLT 5/8 x 4 x 8
19	SPR-2712	HINGE PIN 8

Item	Part Number	Description
20	BH-5635	BOLT 9/16-12 x 3-1/2
21	NLT-5612	NUT TOP LOCK 9/16-12
22	HYO-2008	RATCHET, 8"
23	HD-1149	CLEVIS PIN 1 x 2-1/2
24	BH-7565	BOLT 3/4-10 x 6-1/2
25	LW-0075	LOCK WASHER 3/4
26	NH-7510	NUT 3/4-10
27	CL-1006	CLEVIS PIN 1 x 6
28	QT-1278	GAUGE WHEEL MOUNT ASSY
29	WDL-2505	SPINDLE
30	HD-1371	HUB ASSY 6 HOLE
31	9.5L-15 8TR	TIRE/WHEEL 6 HOLE
32	QT-1280	GAUGE WHEEL VERTICAL ASSY
33	HYO-1201	HOSE CLAMP SET
34	BH-3118	BOLT 5/16 x 1-3/4
35	FW-0125	FLAT WASHER, 1-1/4"
36	QT-1307	CF WING SHIM, 1/8
37	QT-1308	CF WING SHIM, 3/16

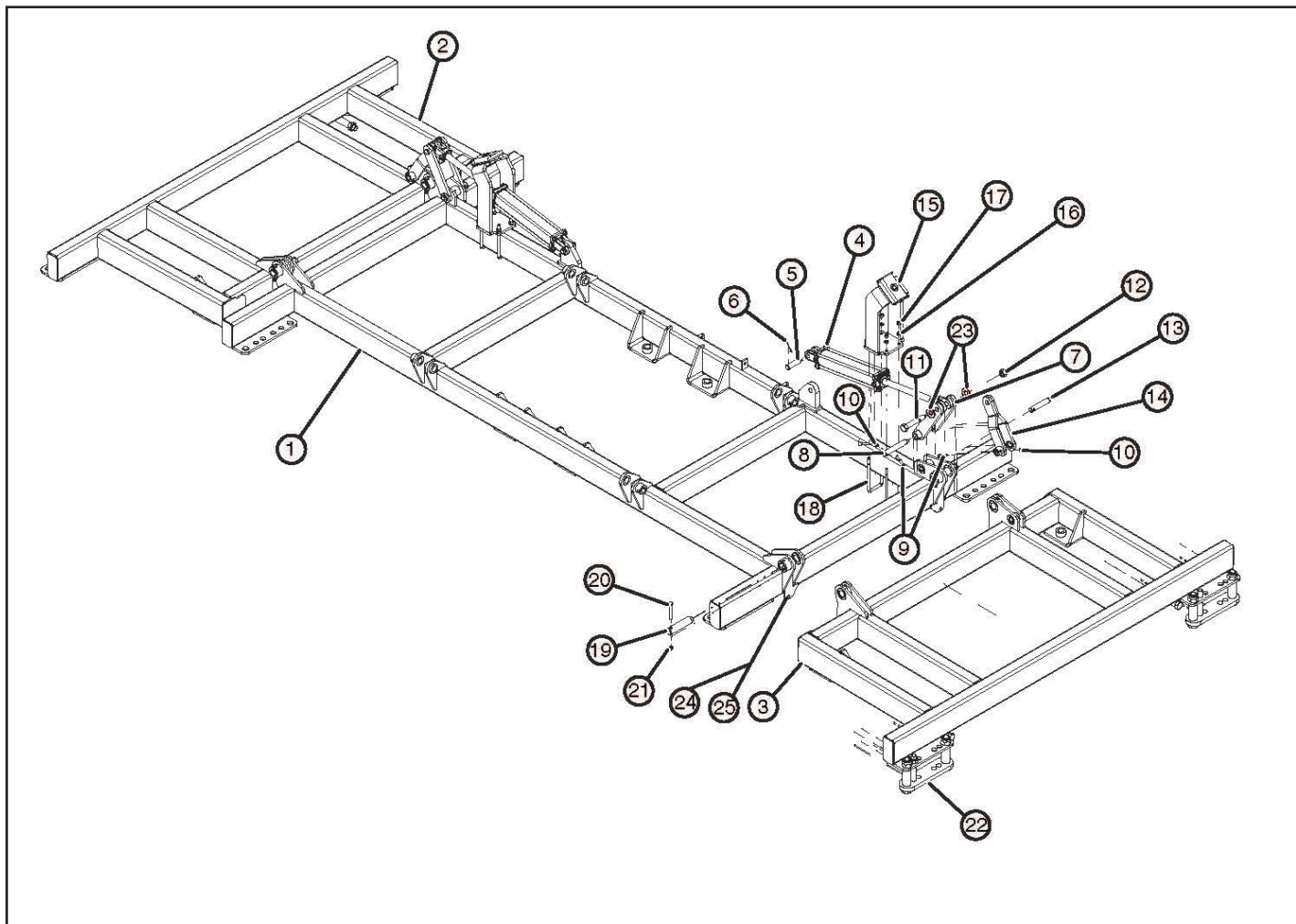
Disk Gang Frame Assembly (QT-207 - QT-213F)



Item	Part Number	Description
1	QT-1149	PIN, SPRING ROLL, 7/16 x 1-3/4
2	BH-3823	BOLT, 3/8-16 x 2-1/4 GD 5
3	QT-1148	DISK HITCH PIVOT PIN REAR
4	NLT-5013	NUT, TOP LOCK, 1/2-13
5	QT-1017	DISK HITCH LINKAGE
6	QT-1125	DISK HITCH PIVOT PIN FRONT
7	QT-1274	DISK HITCH PIVOT REAR ASSEMBLY
8	QT-1277	DISK FRAME HITCH PIN
9	QT-1048	DISK DEPTH INDICATOR
10	BH-5013	BOLT, 1/2-13 X 1-1/4
11	NH-5013	NUT, 1/2-13
12	LW-0050	LOCK WASHER, 1/2

Item	Part Number	Description
13	11103	DISK FRAME, 7 & 9 SHANK
	11104	DISK FRAME, 11 & 13 SHANK
	11105	DISK FRAME, 13F SHANK
14	QT-1273	DISK HITCH PIVOT ASSY
15	BH-3813	BOLT, 3/8-16 X 1-1/4
16	QT-1129	DISK HITCH MOUNT INSERT
17	NLT-3816	NUT, TOP LOCK, 3/8-16
18	QT-1150	SPLIT BUSHING, 1.25 X 1 - 1
19	QT-1179	SPLIT BUSHING, 1.5 X 1.25 - 1
20	HYA-34008	HYDRAULIC CYLINDER
21	CL-1006	CLEVIS PIN, 1 x 6
22	FW-0100	FLAT WASHER, 1"
23	CP-3620	COTTER PIN, 3/16 x 2
24	BH-5028	BOLT, 1/2-13 x 2 3/4 GD 5

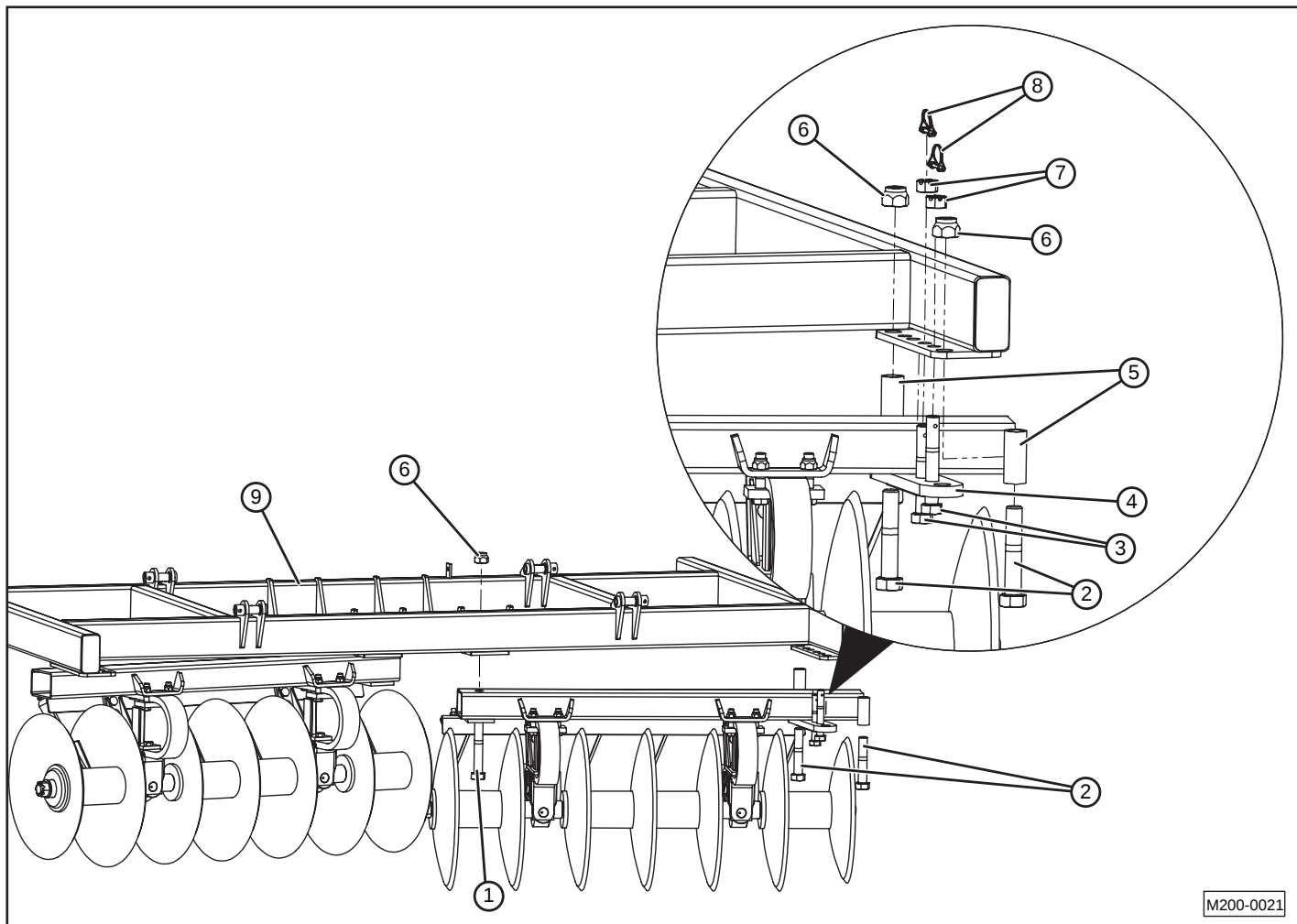
QT-215F and QT-217F Disk Frame



Item	Part Number	Description
1	11173	QT-215F and QT-217F DISK FRAME
2	10589	RH WING DISK FRAME
3	10588	LH WING DISK FRAME
4	HYC-34014	CYLINDER 4 x 14
5	HYO-2103	CYLINDER PIN 1 x 3-1/2
6	CP-3620	COTTER PIN 3/16 x 2
7	QT-1211	DISK CENTER LINKAGE ASSY
8	QT-1148	DISK HITCH PIVOT PIN REAR
9	BH-3823	BOLT 3/8-16 x 2-1/4
10	NLT-3816	NUT TOP LOCK 3/8-16
11	10673	BOLT, 1 x 7, GRADE 8 LONG SHOULDER
12	NLT-1008	NUT, TOP LOCK, 1 - 8
13	QT-1057	DF HITCH PIN

Item	Part Number	Description
14	QT-1212	DISK WING LINKAGE ASSY
15	QT-1267	DISK WING REST ASSY
16	LW-0050	LOCK WASHER 1/2
17	NH-5013	HEX NUT 1/2-13
18	BU-1237	U-BOLT 1/2 x 3 x 7
19	WD-2915	CONNECTOR PIN
20	BH-5635	BOLT 9/16-12 x 3-1/2
21	NLT-5612	NUT TOP LOCK 9/16-12
22	QT-1272	DISK ADJUST CLAMP WING ASSY
23	FW-0100	WASHER, FLAT, 1"
24	QT-1309	DF WING SHIM, 3/16
25	QT-1310	DF WING SHIM, 1/8

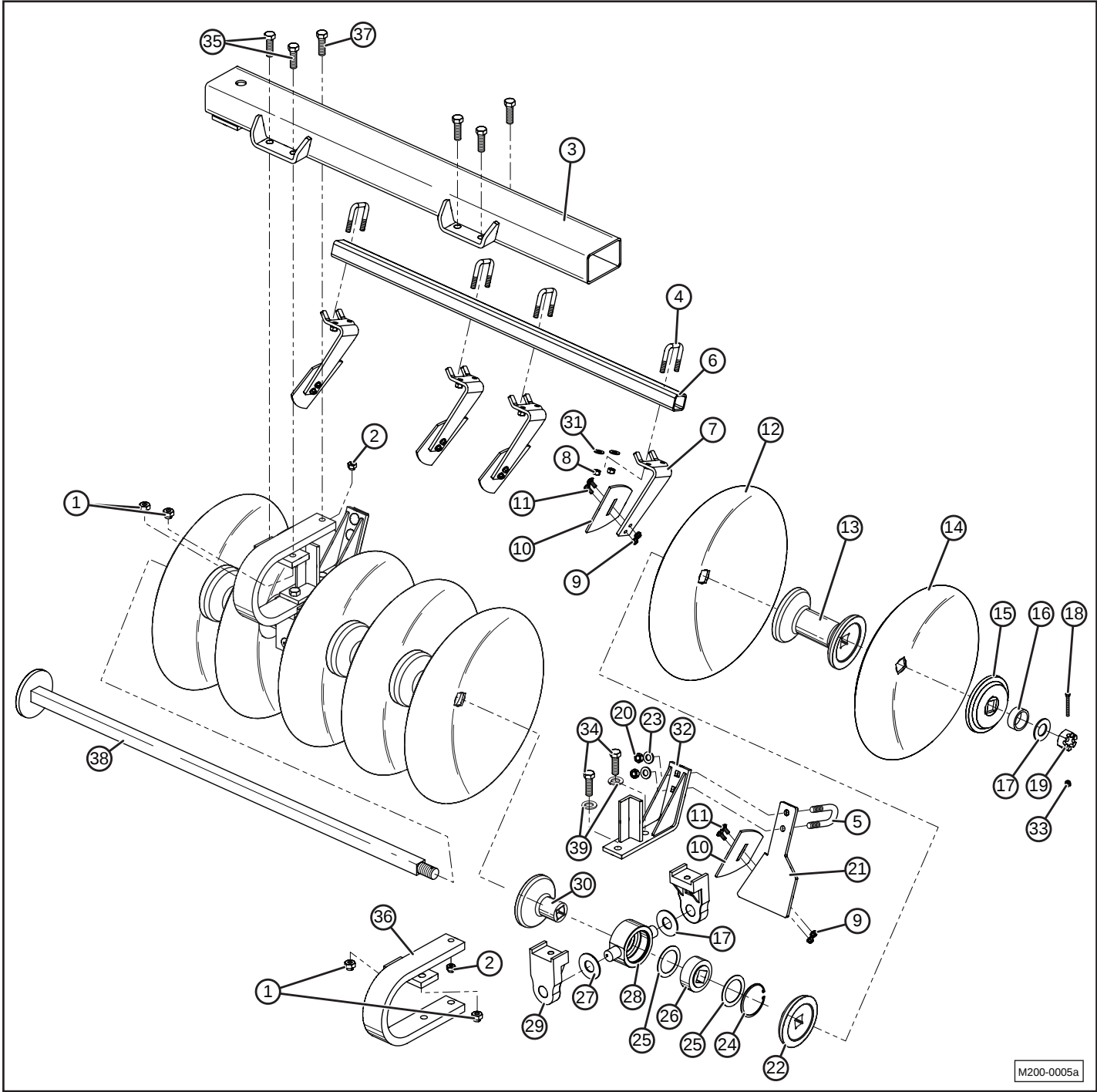
Disk Gang Mounting Hardware



M200-0021

Item	Part Number	Description
1	BHY-1380	BOLT, HEX, 1-1/4-7 x 8, GD 8
2	10707	BOLT, HEX, 1-1/4-7 x 7-1/4, GD 8
3	RD-4431	BOLT, W/ CROSS HOLE 1-8 x 7 GD 8
4	QT-1186	CLAMP ASSY, DISK ADJUST
5	QT-1209	BUSHING, DISK ADJUST PIVOT STOP
6	NY-1307	NUT, NYLON LOCK 1-1/4 - 7
7	NC-1008	NUT, CASTLE 1-8
8	PC-1913	PIN, CLICK, 3/8 x 1.56
9	11103 11104 11105	DISK FRAME, 7 & 9 DISK FRAME, 11 & 13 DISK FRAME, 13F

Disk Gang Assembly (All Models)

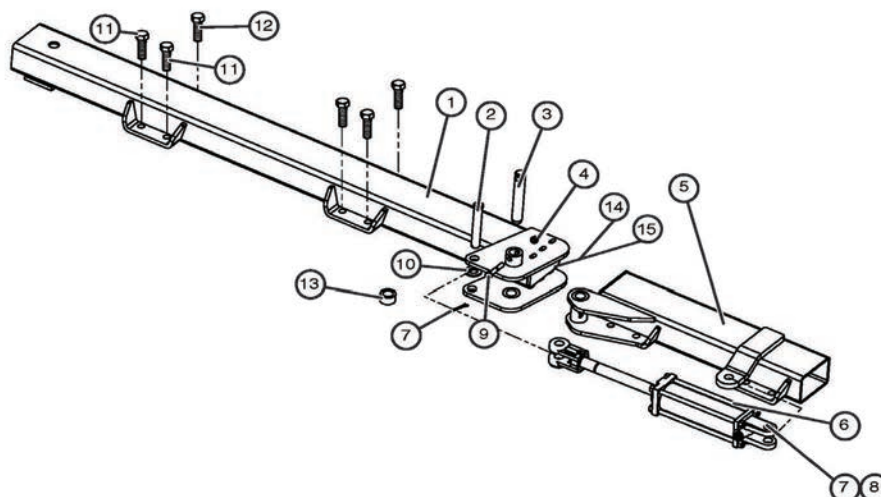


Item	Part Number	Description
1	NLT-7510	NUT, TOP LOCK 3/4-10
2	NLT-6311	NUT, TOP LOCK 5/8-11
3	QT-1059	DISK MNT TUBE, FRONT LT 7
	QT-1060	DISK MNT TUBE, FRONT RT 7
	QT-1165	DISK MNT TUBE, REAR LT 7
	QT-1166	DISK MNT TUBE, REAR RT 7
	10499	DISK MNT TUBE, FRONT LT 9
	10500	DISK MNT TUBE, FRONT RT 9
	QT-1061	DISK MNT TUBE, REAR LT 9
	QT-1062	DISK MNT TUBE, REAR RT 9
	12931	DISK MNT TUBE, FRONT LT 11
	12932	DISK MNT TUBE, FRONT RT 11
	QT-1065	DISK MNT TUBE, REAR LT 11
	QT-1066	DISK MNT TUBE, REAR RT 11
	QT-1067	DISK MNT TUBE, FRONT LT 13
	QT-1068	DISK MNT TUBE, FRONT RT 13
	QT-1069	DISK MNT TUBE, REAR LT 13
	QT-1070	DISK MNT TUBE, REAR RT 13
	10559	DISK MNT TUBE, FRONT LT CNTR, 215F, 217F
	10560	DISK MNT TUBE, FRONT RT CNTR, 215F, 217F
	11340	DISK MNT TUBE, FRONT LT WING, 215F
	11408	DISK MNT TUBE, FRONT LT WING, 217F
	11342	DISK MNT TUBE, FRONT RT WING, 215F
	11409	DISK MNT TUBE, FRONT RT WING, 217F
	11284	DISK MNT TUBE, REAR LT CNTR, 215F, 217F
	11285	DISK MNT TUBE, REAR RT CNTR, 215F, 217F
	11278	DISK MNT TUBE, REAR LT WING, 215F
	11410	DISK MNT TUBE, REAR LT WING, 217F
	11279	DISK MNT TUBE, REAR RT WING, 215F
	11411	DISK MNT TUBE, REAR RT WING, 217F
4	BU-1223	U-BOLT 1/2 x 2 x 3
5	BU-5824	U-BOLT 5/8 x 2 x 3
6	10541	SCRAPER TUBE, FRONT 7, FRONT 11, FRONT INSIDE 13, FRONT WING 17
	10542	SCRAPER TUBE, REAR 7, FRONT 9, REAR CENTER 13F, REAR WING 17
	10543	SCRAPER TUBE, REAR 9
	10545	SCRAPER TUBE, REAR OUTSIDE 11, REAR WING 15
	10546	SCRAPER TUBE, FRONT 11, REAR INSIDE 11, FRONT INSIDE 13, REAR INSIDE 13, REAR WING 13F
	10547	SCRAPER TUBE, REAR OUTSIDE 13
	10548	SCRAPER TUBE, FRONT CENTER 15
	10549	SCRAPER TUBE, FRONT WING 15, REAR CENTER 15
7	10493	SCRAPER ARM, LT
	10494	SCRAPER ARM, RT
8	NH-5013	1/2-13 FLANGED LOCK NUT

Item	Part Number	Description
9	NLF-3816	NUT, LOCK, FLANGE, 3/8-16
10	QT-1084	SCRAPER WIDE
11	BC-3810	BOLT, CARRIAGE, 3/8-16 x 1"
12	QT-1003	DISK BLADE 24 x 2-1/4
13	QT-1136	DISK GANG SPACER
14	QT-1004	DISK BLADE 22 x 2-1/2
15	RD-4471	DISK GANG TENSION WASHER
16	RD-4843	DISK END SPACER
17	RD-4842	DISK GANG WASHER
18	BH-2525	BOLT, 1/4 - 20 X 2 1/2 GD 5
19	NC-1406	NUT, CASTLE 1-3/8
20	NH-6311	NUT, HEX, 5/8-11
21	10539	SCRAPER SPRING GUARD, LT
	10540	SCRAPER SPRING GUARD, RT
22	QT-1138	DISK BEARING SPOOL, CONVEX
23	LW-0063	WASHER, LOCK, 5/8
24	QT-1147	SNAP RING, 4"
25	QT-1146	BEARING HOUSING SPACER (1 ON EACH SIDE OF BRG)
26	QT-1056	DISK BEARING, 1-1/2 SQ, TRUNNION
27	FW-0138	FLAT WASHER, 1-3/8
28	QT-1144	BEARING HOUSING, TRUNNION
29	QT-1081	BEARING MOUNT, TRUNNION
30	QT-1137	DISK BEARING SPOOL, CONCAVE
31	LW-0050	LOCK WASHER 1/2"
32	10491	SCRAPER SPRING BRACKET
33	NLT-2520	NUT, TOP LOCK 1/4-20
34	BHY-7525	BOLT, 3/4 X 2-1/2 GR8
35	BHY-7535	BOLT, 3/4-10 X 3-1/2, GR8
36	RD-4470	DISK SPRING, C-SHAPE, 3-HOLE
37	BH-6325	BOLT, 5/8-11 X 2-1/2
38	QT-1071	DISK GANG SHAFT, 5 BLADE
	QT-1072	DISK GANG SHAFT, 6 BLADE
	QT-1073	DISK GANG SHAFT, 7 BLADE
	QT-1074	DISK GANG SHAFT, 8 BLADE
	QT-1075	DISK GANG SHAFT, 9 BLADE
39	LW-0075	LOCK WASHER 3/4"

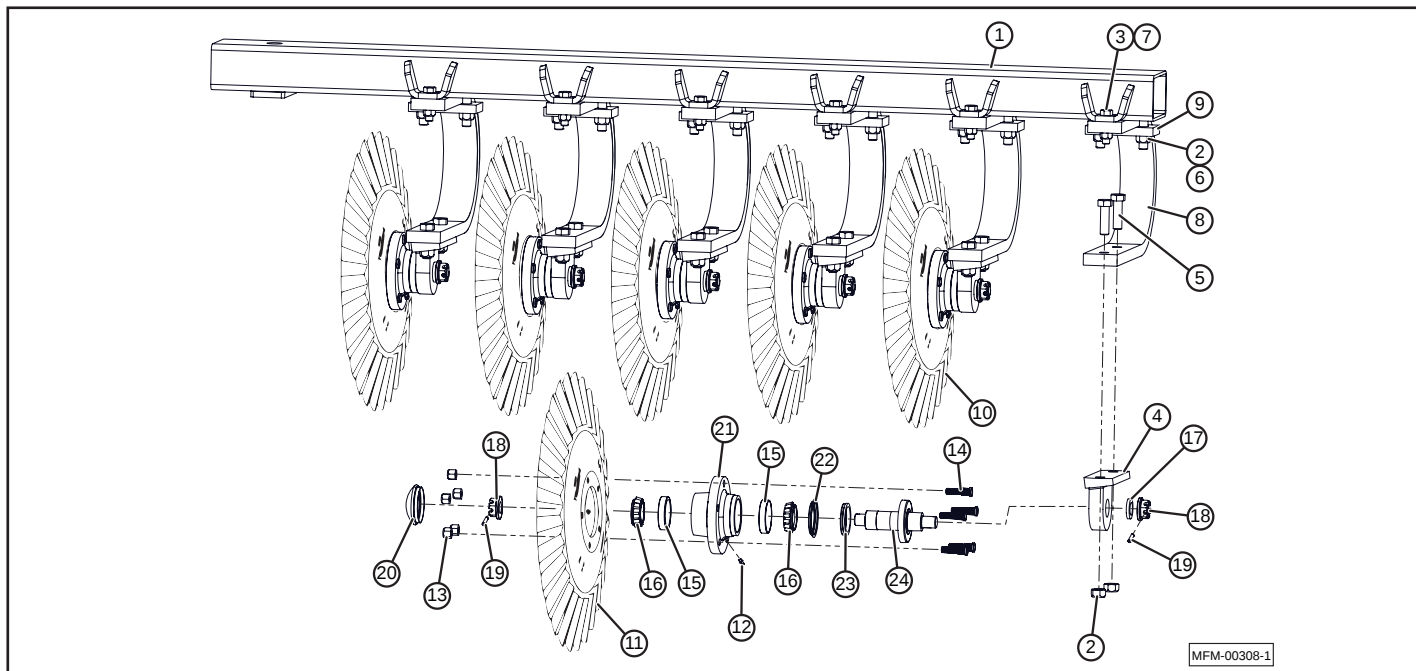
*Quantities vary

Folding Disk Mount Tube Assembly (Model QT-213F Rear Only)



Item	Part Number	Description
1	QT-1203	DISK MOUNT TUBE, REAR LEFT CENTER, GANGED BLADES
	QT-1204	DISK MOUNT TUBE, REAR RIGHT CENTER, GANGED BLADES
	11287	DISK MOUNT TUBE, REAR LEFT CENTER, INDEPENDENT BLADES
	11291	DISK MOUNT TUBE, REAR RIGHT CENTER, INDEPENDENT BLADES
2	CL-1006	PIN, CLEVIS, 1 x 6, GANGED BLADES
3	RT-2124	PIN, 1-1/4 x 7-1/2
4	NLT-5013	NUT, TOP LOCK, 1/2-13
5	QT-1205	DISK MOUNT TUBE, REAR LEFT WING, GANGED BLADES
	QT-1206	DISK MOUNT TUBE, REAR RIGHT WING, GANGED BLADES
	11214	DISK MOUNT TUBE, REAR LEFT WING, INDEPENDENT BLADES
	11292	DISK MOUNT TUBE, REAR RIGHT WING, INDEPENDENT BLADES
6	HYA-33008	HYDRAULIC CYLINDER, 3 x 8 ASAE
7	CP-3620	PIN, COTTER, 3/16 x 2
8	HYO-2103	CYLINDER CLEVIS PIN, 1 x 3
9	BH-5028	BOLT, HEX, 1/2-13 x 2-3/4
10	FW-0100	WASHER, FLAT, 1
11	BHY-7535	BOLT, 3/4-10 X 3-1/2, GR8
12	BH-6325	BOLT, 5/8-11 X 2-1/2
13	RT-2054	SPACER BUSHING, GANGED BLADES ONLY
14	QT-1314	DISK GANG WING SHIM, 1/8
15	QT-1315	DISK GANG WING SHIM, 3/16

Independent Disk Blades



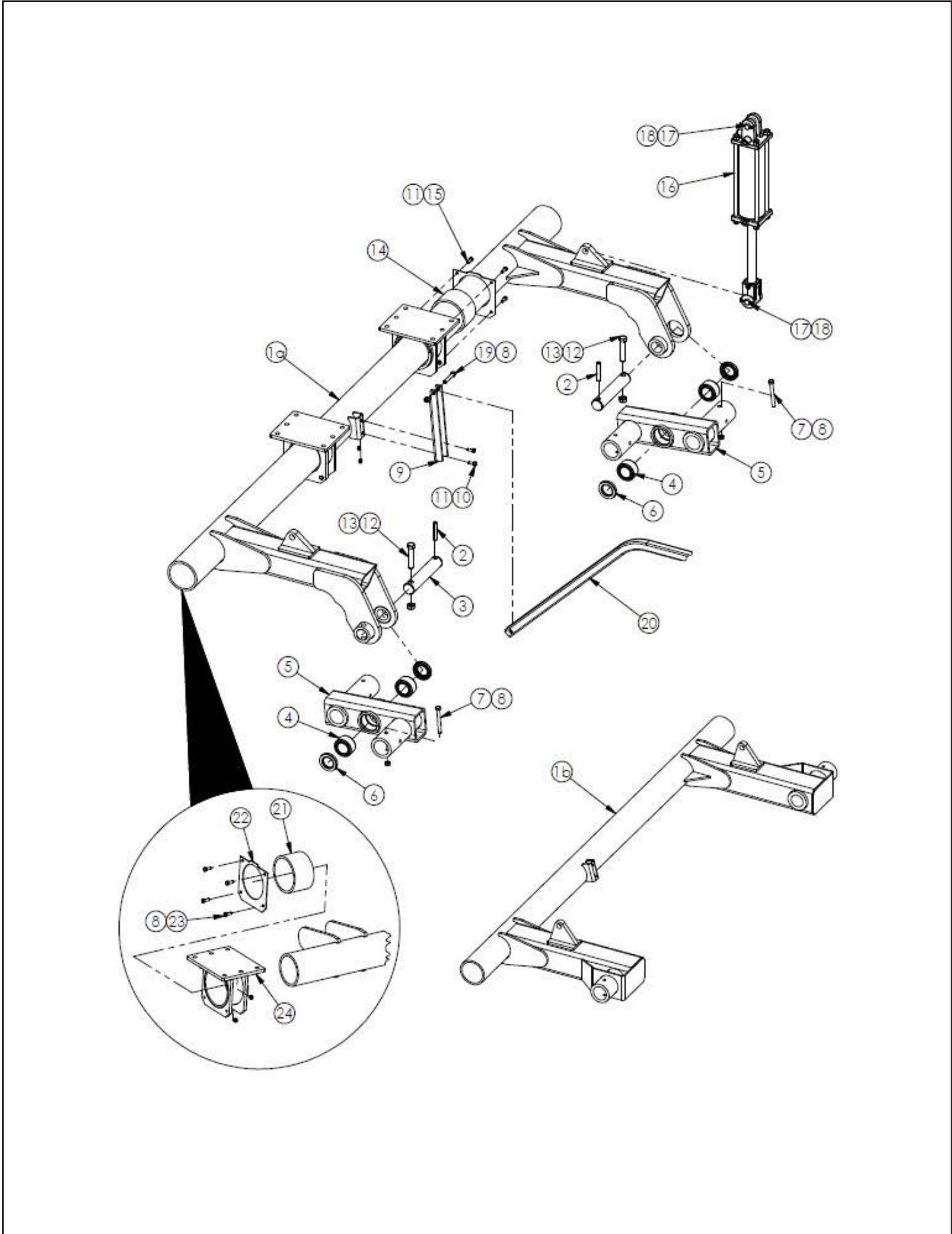
Item	Part Number	Description
1	11645	DISK MNT TUBE, FRONT LT, 207
	11646	DISK MNT TUBE, FRONT RT, 207
	11647	DISK MNT TUBE, REAR LT, 207
	11648	DISK MNT TUBE, REAR RT, 207
	11199	DISK MNT TUBE, FRONT LT, 209
	11201	DISK MNT TUBE, FRONT RT, 209
	11198	DISK MNT TUBE, REAR LT, 209
	11203	DISK MNT TUBE, REAR RT, 209
	11649	DISK MNT TUBE, FRONT LT, 211
	11650	DISK MNT TUBE, FRONT RT, 211
	11651	DISK MNT TUBE, REAR LT, 211
	11652	DISK MNT TUBE, REAR RT, 211
	11205	DISK MNT TUBE, FRONT LT, 213F
	11290	DISK MNT TUBE, FRONT RT, 213F
	11287	DISK MNT TUBE, REAR LT CTR, 213F
	11291	DISK MNT TUBE, REAR RT CTR, 213F
	11214	DISK MNT TUBE, REAR LT WING, 213F
	11292	DISK MNT TUBE, REAR RT WING, 213F
	11179	DISK MNT TUBE, FRONT LT CTR, 215F, 217F
	11196	DISK MNT TUBE, FRONT RT CTR, 215F, 217F
	11177	DISK MNT TUBE, FRONT LT WING, 215F
	11459	DISK MNT TUBE, FRONT LT WING, 217F
	11194	DISK MNT TUBE, FRONT RT WING, 215F
	11460	DISK MNT TUBE, FRONT RT WING, 217F
	11183	DISK MNT TUBE, REAR LT CNTR, 215F, 217F
	11288	DISK MNT TUBE, REAR RT CNTR, 215F, 217F
	11180	DISK MNT TUBE, REAR LT WING, 215F
	11461	DISK MNT TUBE, REAR LT WING, 217F
	11245	DISK MNT TUBE, REAR RT WING, 215F
	11462	DISK MNT TUBE, REAR RT WING, 217F

Item	Part Number	Description
2	NLT-7510	NUT, TOP LOCK 3/4-10
3	NLT-6311	NUT, TOP LOCK 5/8-11
4	11675	MOUNT, SPINDLE
5	BHY-7525	BOLT, HEX, 3/4-10 x 2-1/2 GD8
6	BHY-7535	BOLT, HEX, 3/4-10 x 3-1/2, GD8
7	BHY-6323	BOLT, HEX, 5/8-11 x 2-1/4 GD8
8	11149	C-SPRING
9	RT-2611	DISK SPRING CLAMP PLATE
10	12903	DISK, SERRATED, 24"
11	12904	**DISK, SERRATED, 22"
12	RD-4860	GREASE ZERK
13	WN-0050	LUG NUT, 1/2-20
14	RD-4861	STUD, 1/2-20
15	RD-4858	OUTER RACE
16	RD-4857	BEARING
17	11676	WASHER, FLAT, SPINDLE
18	RD-4862	NUT, FLANGE, 1-1/4
19	RD-4863	PIN, ROLL, 1/4 x 1-1/2
20	11677	DUST CAP
21	11672	HUB, 5-BOLT
22	RD-4856	SEAL, COUNTERFACE
23	11674	SEAL
24	11673	SPINDLE, GRASS GUARD

*Quantities vary

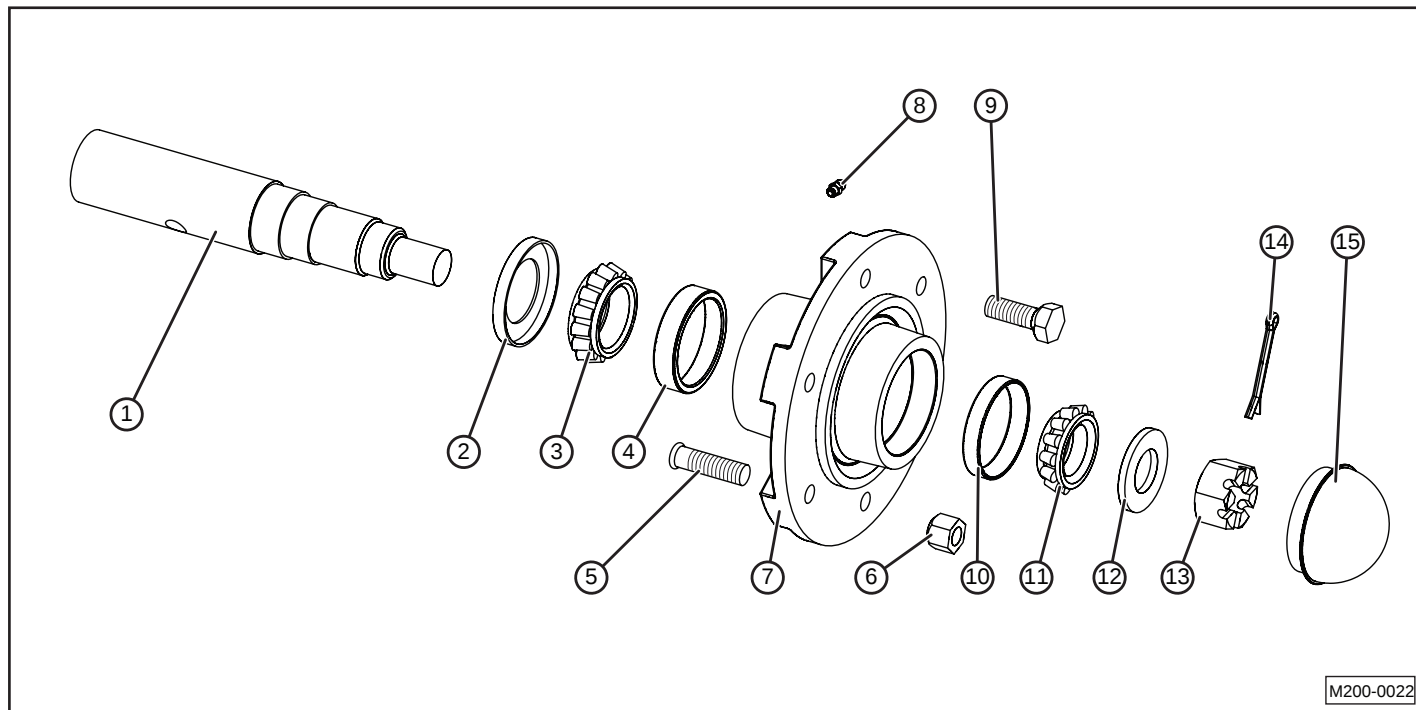
**On outside of unit only. All other disk gangs have all 24" blades.

Axle Frame Assembly



Item	Part Number	Description
1a	QT-1187	AXLE ASSY (7)
1b	QT-1197 QT-1200 QT-1259	AXLE ASSY (9, 11) AXLE ASSY (13, 13F) AXLE ASSY (15F, 17F)
2	QT-1143	PIN, SPRING ROLL 1/2 x 3-1/2"
3	13938	PIN, STRAIGHT
4	13231	BEARING, SEALED
5	16393 16396	AXLE BEAM ASSY AXLE BEAM ASSY, 215F, 217F
6	16936	SEAL
7	BH-5045 BH-5050	BOLT, 1/2 x 4-1/2 GD 5 (209) BOLT, 1/2 x 5 GD 5 (207, 213F, 215F, 217F)
8	NLT-5013	NUT, TOP LOCK, 1/2-13
9	QT-1139	HYDRAULIC STOP AXLE BRACKET
10	BH-3810	BOLT, 3/8 - 16 x 1 GD 5
11	NLT-3816	NUT, TOP LOCK, 3/8 - 16
12	BH-7540	BOLT, 3/4-11 x 4 GD 5
13	NLT-7511	NUT, TOP LOCK, 3/4-11
14	QT-1173	AXLE MOUNT UHMW INSERT, SPLIT
15	BH-3815	BOLT, 3/8 - 10 x 1-1/2" GD 5
16	HYC-34012	CYLINDER, HYDRAULIC 4 x 12
17	HYO-2103	CYLINDER CLEVIS PIN, 1 x 3
18	CP-3620	COTTER PIN, 3/16 x 2
19	BH-5028	BOLT, 1/2-16 x 2-3/4 GD 5
20	QT-1021	HYD STOP TUBE
21	QT-1133	AXLE MOUNT UHMW INSERT
22	QT-1132	AXLE MOUNT CAP
23	BH-3815	BOLT, 3/8-16 x 1-1/2" GRADE 5
24	QT-1130	AXLE MOUNT ASSY

Spindle, Hub, and Wheels



M200-0022

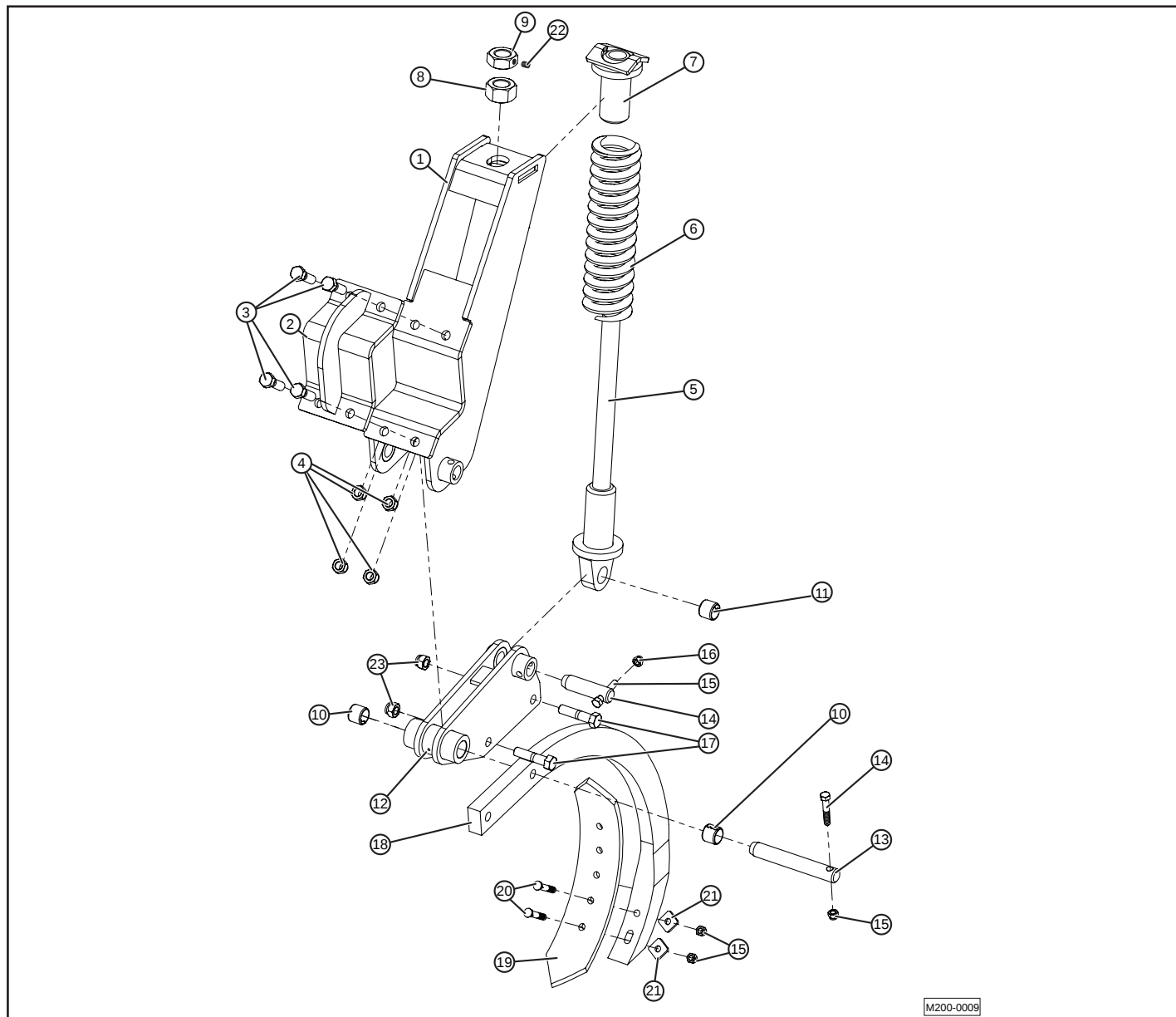
Item	Part Number	Description
QT-209, QT-211, QT-213, and QT-213F 8 BOLT HUB, 6000 LB		
1	RT-3180	SPINDLE, 2 3/4 X 12 1/2
2	RT-3182	GREASE SEAL, 8 BOLT HD HUB
3	RT-3183	INNER BEARING
4	RT-3191	INNER RACE
5	RT-3193	WHEEL STUD 5/8-18 X 2 1/2
6	WN-0063	WHEEL NUTS 5/8
7	RT-3184	HUB WITH RACES, 6 HOLE HUB
8	GZ-0601	GREASE ZERK
9	N/A	WHEEL BOLTS
10	RT-3192	OUTER RACE
11	RT-3186	OUTER BEARING
12	RT-3190	SPINDLE FLAT WASHER
13	RT-3187	SPINDLE HEX CASTLE NUT
14	CP-7320	COTTER PIN (0.207 X 2)
15	RT-3188	DUST CAP
	RT-3181	8-BOLT HUB ASSEMBLY, 6000LB
NS	12615	TIRE, (9-SHANK) 320/70R 15
	14566	TIRE, 14 PLY (13-SHANK) 360/65R 17.5
	12615	TIRE, (11-SHANK) 320/70R 15
NS	RT-2179	RIM, 15 x 10, 8 BOLT (9 AND 11-SHANK)
	14567	RIM, 17.5 x 10.5, 8-BOLT (13-SHANK)

Item	Part Number	Description
QT-207, QT-215F, and QT-217F 8 BOLT HUB, 7500 LB		
1	RD-4416	SPINDLE, 3 X 12 1/2
2	RD-4582	GREASE SEAL, 8 BOLT 7500 LB HUB
3	RD-4583	INNER BEARING
4	RD-4584	INNER RACE
5	RT-3193	WHEEL STUD 5/8-18 X 2 1/2
6	WN-0063	WHEEL NUT, 5/8-18
7	RD-4581	HUB WITH RACES, 8 BOLT 7500 LB HUB
8	GZ-0601	GREASE ZERK
9	N/A	WHEEL BOLTS
10	RT-3192	OUTER RACE
11	RT-3186	OUTER BEARING
12	RT-3190	SPINDLE FLAT WASHER
13	RT-3187	SPINDLE HEX CASTLE NUT
14	CP-7320	COTTER PIN (0.207 X 2)
15	RT-3188	DUST CAP
NS	RD-4580	8-BOLT HUB ASSEMBLY, 7500LB
NS	14877	TIRE, 440/55R 15
NS	14879	RIM, 18 x 14, 8-BOLT

Spindle and Hub (Continued)

Item	Part Number	Description
QT-215F AND QT-217F Gauge Wheel 6-HOLE HUB, 3560 LB		
1	WDL-2505	SPINDLE, 1 3/4 X 9 1/2
2	HD-1360	GREASE SEAL, 6 HOLE HUB
3	HD-1362	INNER BEARING
4	HD-1366	INNER RACE
5	HD-1191	HUB STUD
6	WN-0050	STUD NUTS
7	HD-1361	HUB WITH RACES, 6 HOLE HUB
8	GZ-0601	GREASE ZERK
9	WB-5010	WHEEL BOLTS
10	HD-1171	OUTER RACE
11	HD-1363	OUTER BEARING
12	HD-1364	SPINDLE FLAT WASHER
13	HD-1365	SPINDLE HEX CASTLE NUT
14	CP-1517	COTTER PIN (0.150 X 1 3/4)
15	HD-1367	DUST CAP
	HD-1371	6-HOLE HUB ASSEMBLY (INCLUDES ITEMS 2,3,7,11,15)

Chisel Shank Assembly

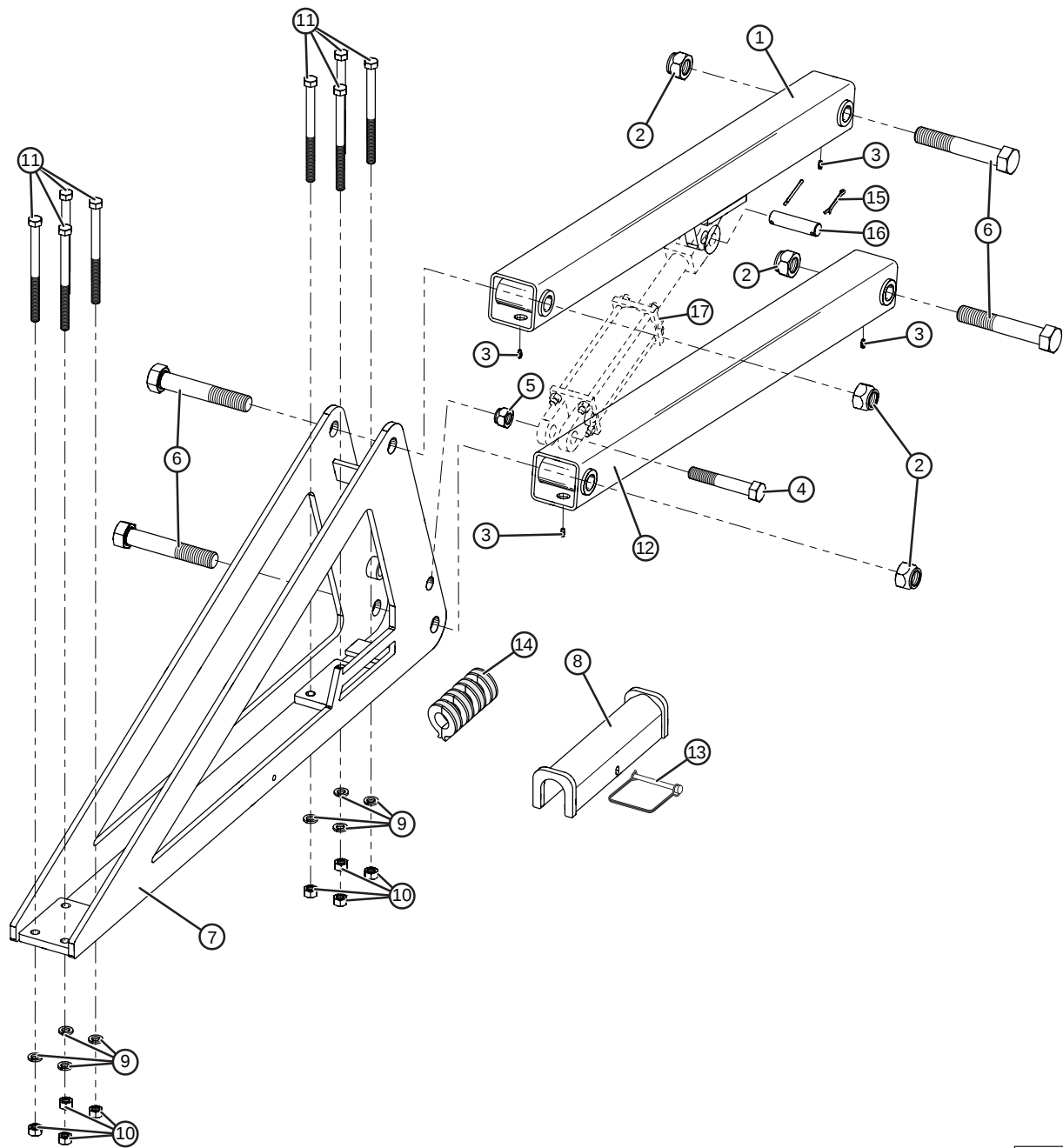


M200-0009

Item	Part Number	Description
1	QT-1174	CHISEL MOUNT ASSY
2	QT-1178	CHISEL CLAMP ASSY
3	BHY-7525	BOLT, 3/4-10 X 2-1/2 GD 8
4	NLT-7510	NUT, TOP LOCK 3/4-10
5	QT-1176	CHISEL SPRING BASE ASSY
6	QT-1182	SPRING, 4-3/8 X 17
7	QT-1177	GUIDE ASSY, CHISEL SPRING
8	NHF-1506	NUT, FLANGE 1-1/2 - 6
9	10501	NUT, JAM, 1-1/2 - 6
10	10691	PLASTIC PIVOT BUSHING
11	QT-1179	SPLIT BUSHING
12	10689	CHISEL SHANK MOUNT ASSY
13	QT-1180	CHISEL MOUNT PIVOT PIN
14	QT-1181	CHISEL SPRING PIVOT PIN

Item	Part Number	Description
15	NLT-5013	NUT, LOCK, TOP, 1/2-13
16	NLT-5013	NUT, LOCK, TOP, 1/2-13
17	BHY-7533	BOLT, 3/4-10 X 3-1/4 GD 8
18	QT-1006	CHISEL SHANK
19	QT-1053 QT-1051 QT-1052 QT-1054 QT-1055	CHISEL POINT, 2" STRAIGHT CHISEL SHOVEL, 3" TWISTED, LEFT HAND CHISEL SHOVEL, 3" TWISTED, RIGHT HAND CHISEL SHOVEL, 4" TWISTED, LEFT HAND CHISEL SHOVEL, 4" TWISTED, RIGHT HAND
20	QT-1227 BHY-5030	PLOW BOLT, 1/2-13 X 3 (FOR 3" AND 4" TWISTED SHOVELS) BOLT, 1/2 X 13 X 3", GRADE 8 (FOR 2" STRAIGHT POINT)
21	HDD-016	SQUARE WASHER, 1/2
22	10502	SET SCREW, 3/8-16 x 3/8
23	NLT-7510	NUT, TOP LOCK 3/4-10

Leveler Disk Frame Arms

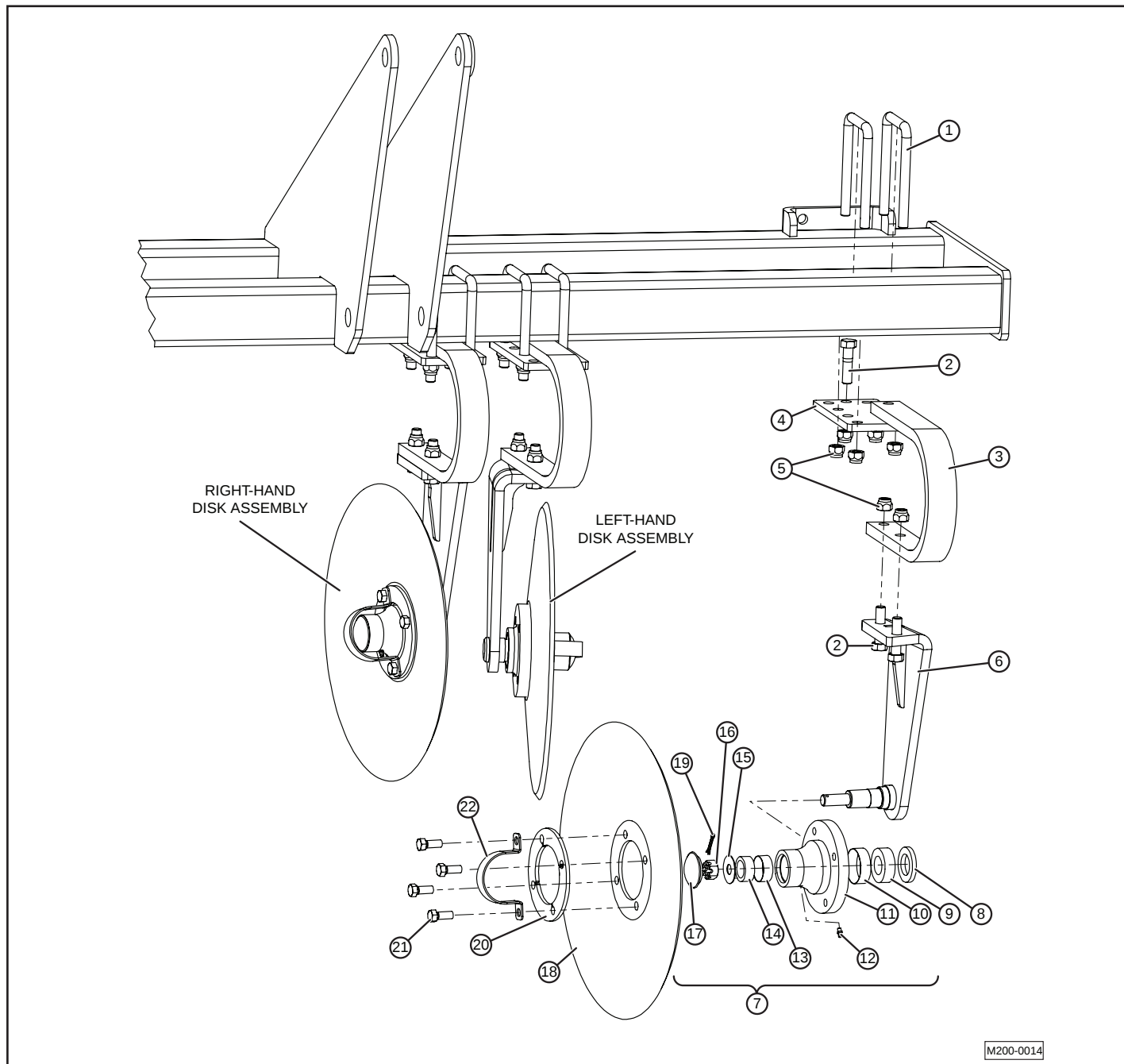


M200-0013

Item	Part Number	Description
1	QT-1043	LEVELER LINKAGE TUBE CYL ASSY
2	NY-1307	NUT, NYLON LOCK 1-1/4-7
3	GZ-2528	ZERK, GREASE
4	BHY-1070	BOLT, 1 x 7 GRADE 8
5	NLT-1008	NUT, TOP LOCK 1-8
6	BHY-1380	BOLT, 1-1/4 x 8 GRADE 8
7	QT-1040 QT-1041 QT-1303	LEVELER FRAME MOUNT, LT LEVELER FRAME MOUNT, RT LEVELER FRAME MOUNT, RT, 213F, 215F, and 217F
8	HYS-1212	CYLINDER LOCK ASSY 2 x 14

Item	Part Number	Description
9	LW-0063	WASHER, LOCK 5/8
10	NH-6311	NUT, HEX 5/8-11
11	BH-6385	BOLT, 5/8-11 x 8-1/2 GRADE 5
12	QT-1042	LEVELER LINKAGE TUBE ASSY
13	LP-3825	LINCH PIN 3/8 x 2-1/2
14	HYS-1312	CYLINDER COLLAR SET, 1 3/8-1/2 HD SHORT SET
15	CP-3620	COTTER PIN, 3/16 x 2
16	HYO-2103	CYLINDER CLEVIS PIN, 1 x 3
17	HYR-4008 HYR-3808	HYDRAULIC CYLINDER 4 x 8 HYDRAULIC CYLINDER 3-3/4 x 8

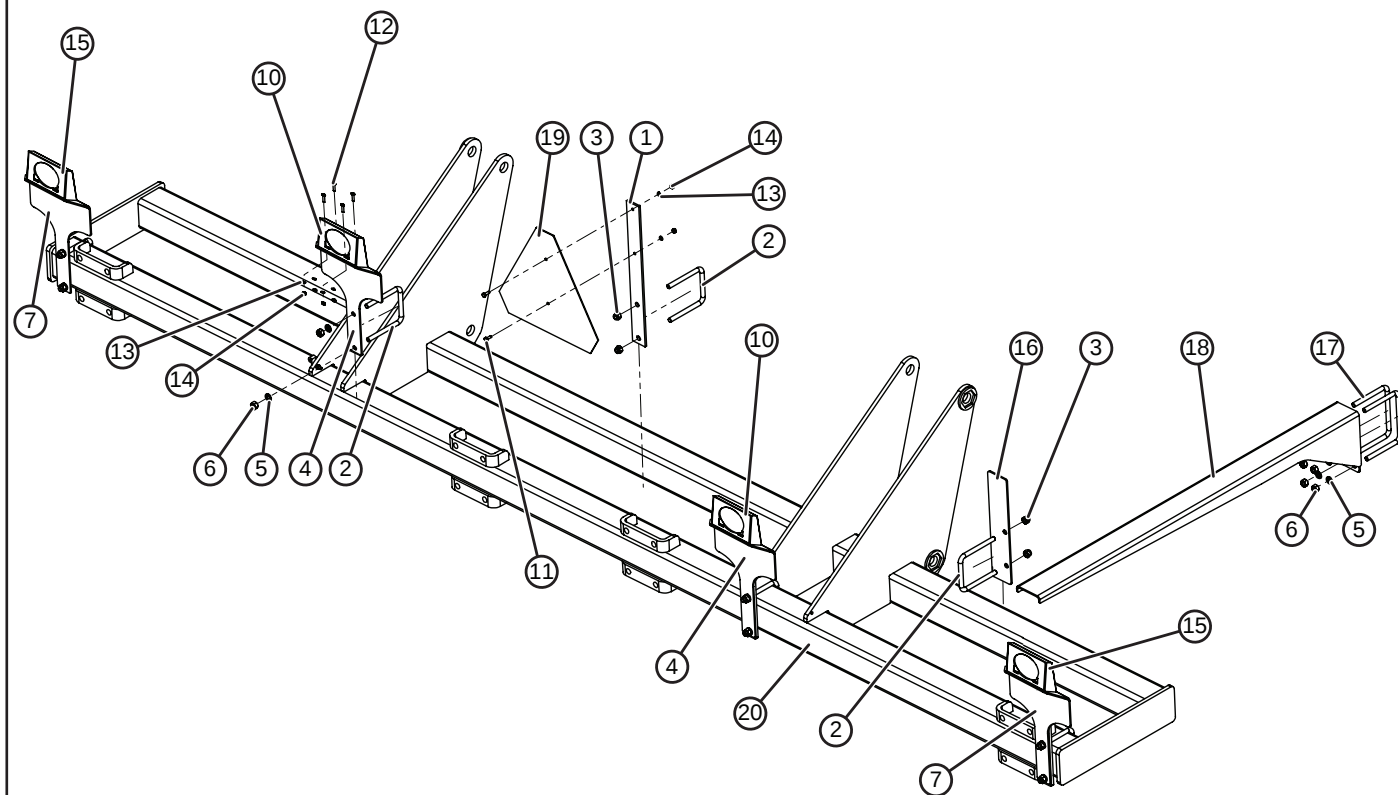
Leveler Disk Assembly



Item	Part Number	Description
1	BU-5846	U-BOLT 5/8-11 x 4 x 6-1/2
2	BH-6325	BOLT, 5/8-11 x 2-1/2 GD 5
3	QT-1027	SPRING, LEVELER DISK
4	QT-1028	CLAMP, LEVELER DISK SPRING
5	NLT-6311	NUT, TOP LOCK 5/8-11
6	QT-1023 QT-1024	LEVELER DISK MOUNT, LEFT LEVELER DISK MOUNT, RIGHT
7	HD-1170	HUB, 4 BOLT ASSY. ITEMS 8-14, 17
8	HD-1160	GREASE SEAL
9	HD-1162	INNER BEARING
10	HD-1171	INNER RACE
11	HD-1161	HUB WITH RACES, 4 HOLE

Item	Part Number	Description
12	GZ-2528	ZERK, GREASE
13	HD-1172	OUTER RACE
14	HD-1163	OUTER BEARING
15	HD-1164	SPINDLE FLAT WASHER
16	HD-1165	SPINDLE CASTLE NUT
17	HD-1167	DUST CAP
18	QT-1025	LEVELER DISK BLADE
19	CP-5312	PIN, COTTER, 0.150 x 1-1/4
20	QT-1026	LEVELER DISK HUB PLATE
21	BHF-5013	BOLT, 1/2-20 x 1-1/4 GD 8
22	RD-5092	HUB RETAINER

Leveler Disk Frame (QT-207, 209, 211, and 213)

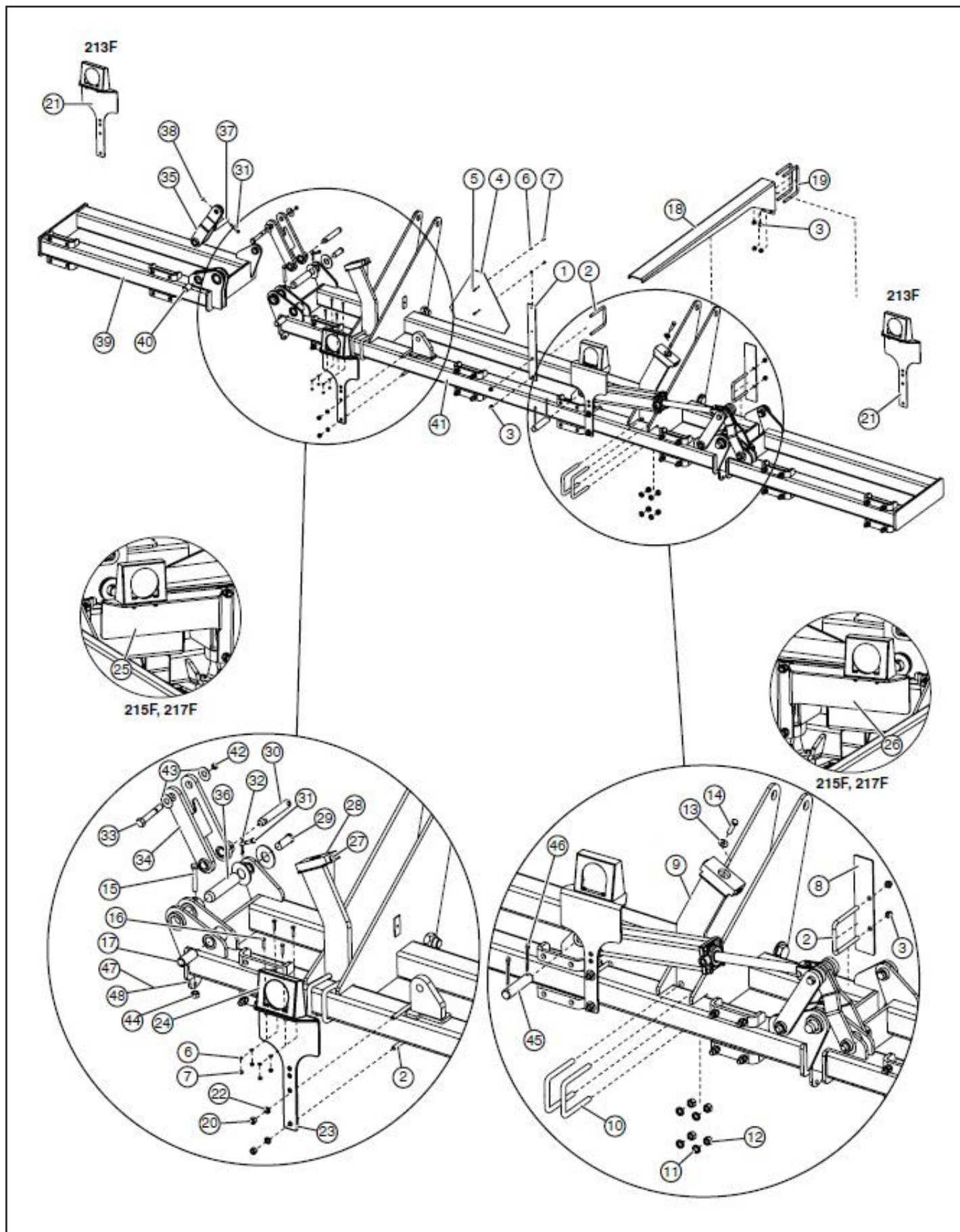


M200-0012b

Item	Part Number	Description
1	QT-1134	SMV MOUNT BRACKET 4
2	BU-1245	U-BOLT, 1/2-13 x 4-1/2
3	NLT-5013	NUT, TOP LOCK 1/2-13
4	RD-5056	BRACKET, LIGHT, SINGLE, INNER
5	LW-0050	WASHER, LOCK 1/2
6	NH-5013	NUT, 1/2-13
7	11128	BRACKET, LIGHT, SINGLE, OUTER (207-213F)
8	—	—
9	—	—
10	LB-1107	LIGHT, RED
11	BH-2575	BOLT, 1/4-20 x 3/4
12	BH-2513	BOLT, 1/4-20 x 1-1/4

Item	Part Number	Description
13	LW-0025	WASHER, LOCK 1/4
14	NH-2520	NUT, 1/4-20
15	LB-1106	LIGHT, AMBER
16	QT-1050	LEVELER DEPTH GAUGE
17	BU-1265	U-BOLT, 1/2 x 5-1/4 x 6
18	QT-1226	LEVELER GAUGE INDICATOR ASSY
19	MM-1300	SMV SIGN
20	QT-1160 QT-1044 QT-1045 QT-1046	LEVELER TOOLBAR, 7 LEVELER TOOLBAR, 9 LEVELER TOOLBAR, 11 LEVELER TOOLBAR, 13

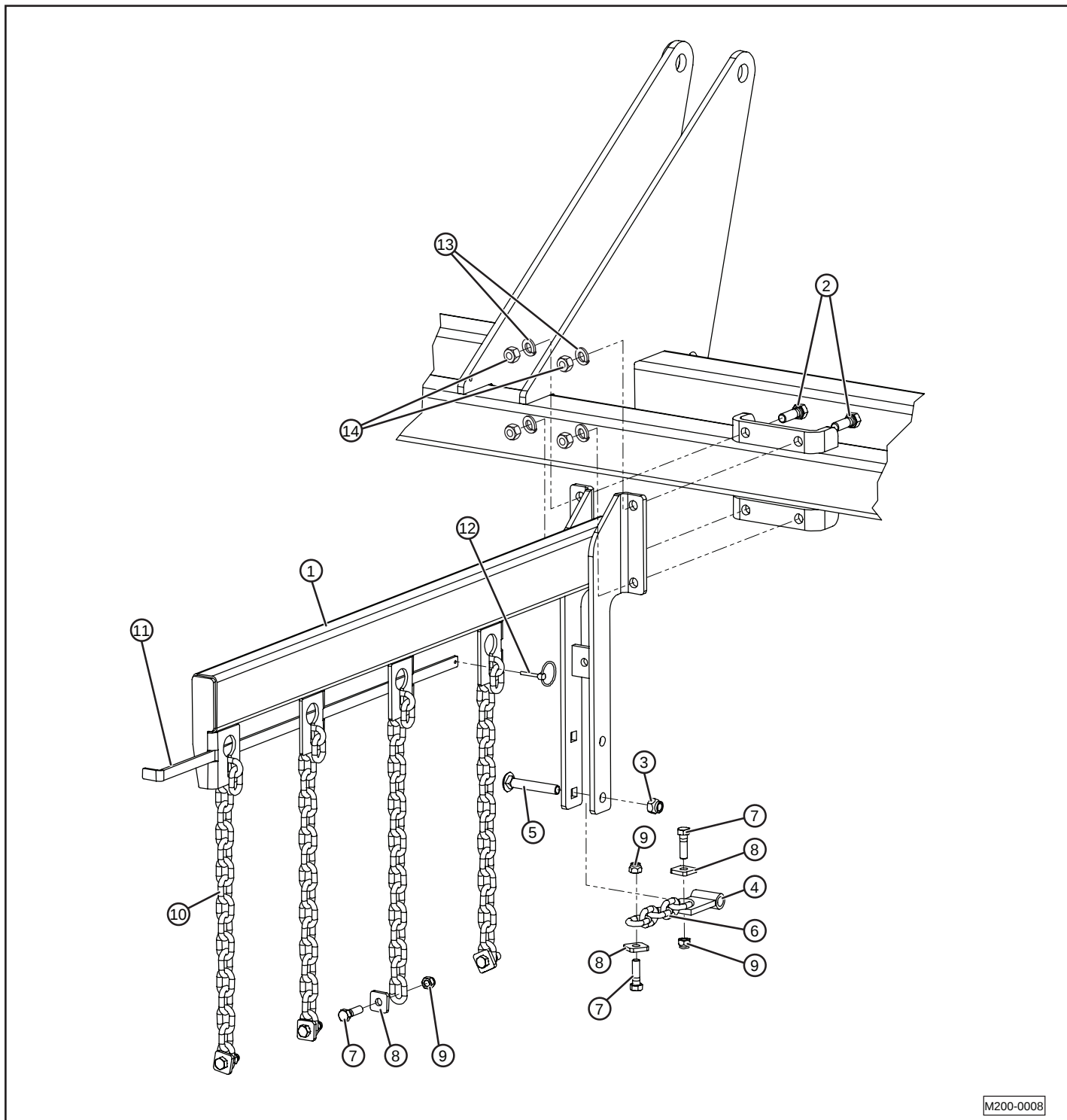
Leveler Disk Frame (QT-213F, QT-215F, and QT-217F)



Item	Part Number	Description
1	QT-1134	SMV MOUNT BRACKET
2	BU-1245	U-BOLT, 1/2-13 x 4 x 5
3	NLT-5013	NUT, TOP LOCK 1/2-13
4	MM-1300	SMV SIGN
5	BH-2575	BOLT, 1/4-20 x 3/4
6	LW-0025	WASHER, LOCK 1/4
7	NH-2520	NUT, 1/4-20
8	QT-1049	LEVELER DEPTH GAUGE
9	QT-1235 QT-1225	REST, WING REST, WING
10	BU-5845	U-BOLT, 5/8-11 x 4 x 5
11	LW-0063	WASHER, LOCK 5/8
12	NH-6311	NUT, 5/8-11
13	FW-0050	WASHER, FLAT 1/2
14	BH-5020	BOLT, 1/2-13 x 2
15	BHY-5635	BOLT, HEX, 9/16 x 3-1/2
16	BH-2513	BOLT, 1/4-20 x 1-1/4
17	QT-1148	PIN, STRAIGHT, 1 x 6-1/2
18	QT-1226	LEVELER GAUGE INDICATOR ASSY
19	BU-1265	U-BOLT, 1/2-13 x 6 x 5
20	NH-5013	NUT, 1/2-13
21	11128	BRACKET, LIGHT, SINGLE, OUTER (207-213F)
22	LW-0050	WASHER, LOCK 1/2
23	RD-5056	BRACKET, LIGHT, SINGLE, INNER
24	LB-1107	LIGHT, RED
25	11126	BRACKET, LIGHT, LT

Item	Part Number	Description
26	11127	BRACKET, LIGHT, RT
27	QT-1225	REST, WING LH
28	RT-3415	WING REST BUMPER
29	10685	PIN, CLEVIS, 1 x 3
30	QT-1148	DISK HITCH PIVOT PIN, REAR
31	BH-3823	BOLT, HEX, 3/8-16 x 2-1/4
32	CP-3620	COTTER PIN, 3/16 x 2
33	10673	BOLT, 1 x 7, GRADE 8 LONG SHOULDER
34	QT-1211	DISK CENTER LINKAGE
35	QT-1212	DISK WING LINKAGE
36	WD-2915	CONNECTOR PIN
37	QT-1057	DISK FRAME HITCH PIN
38	NLT-3816	NUT, TOP LOCK, 3/8-16
39	QT-1219 QT-1220 QT-1255 QT-1256	LEVELER TOOLBAR WING, LT 13F, 17F LEVELER TOOLBAR WING, RT 13F, 17F LEVELER TOOLBAR WING, LT 15F LEVELER TOOLBAR WING, RT 15F
40	QT-1151	DISK HITCH SPRING BUSHING
41	QT-1218 QT-1254	LEVELER TOOLBAR, CENTER 13F LEVELER TOOLBAR, CENTER 15F, 17F
42	NLT -1008	NUT, TOP LOCK, 1 - 8
43	FW-0100	WASHER, FLAT, 1"
44	NLT-5612	NUT, TOP LOCK, 9/16-12
45	HYO-2103	PIN, STRAIGHT, 1 x 3-1/2
46	CP-3620	PIN, COTTER, 3/16 x 2.00
47	QT-1309	DF WING SHIM, 3/16
48	QT-1310	DF WING SHIM, 1/8

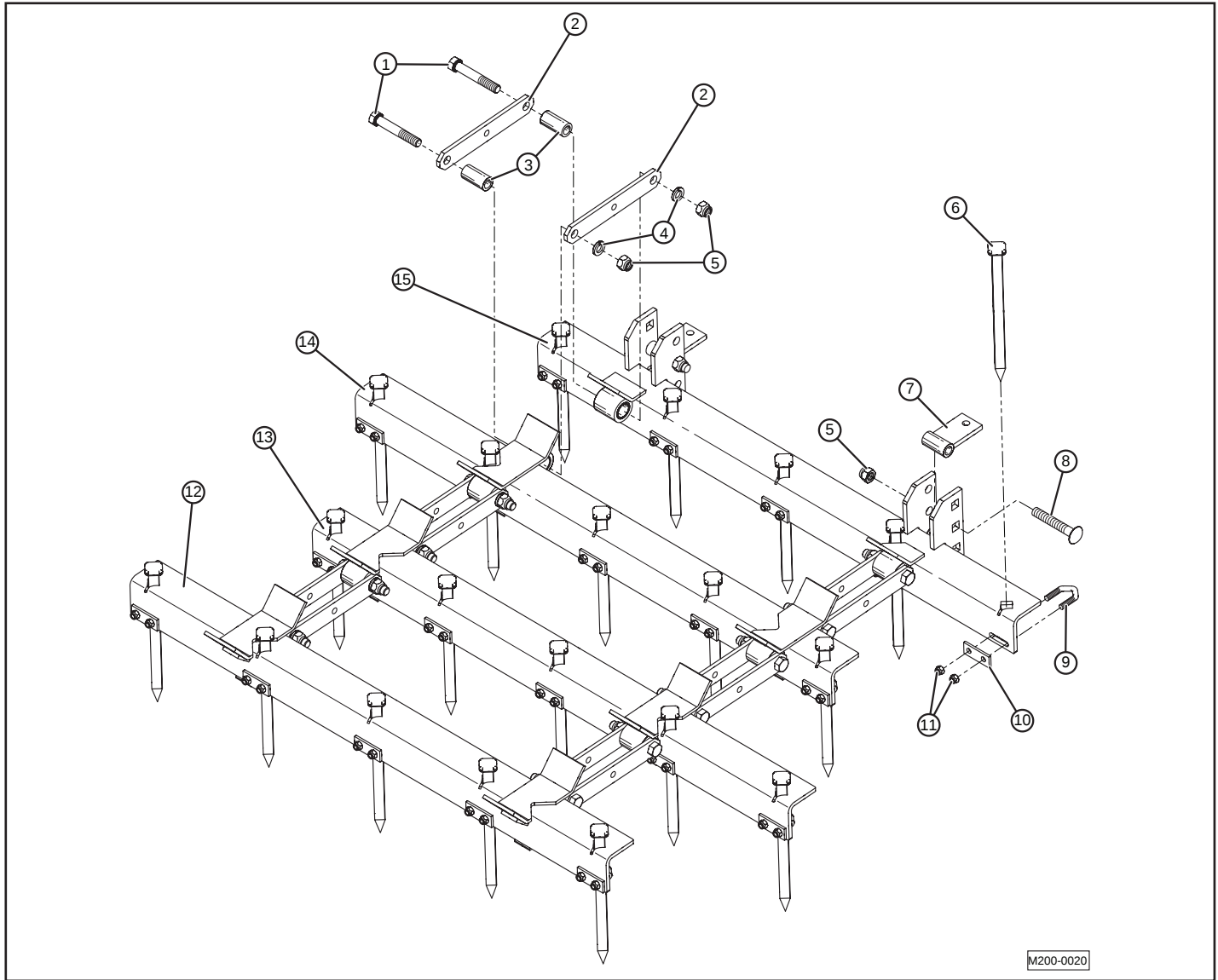
4-Bar Harrow Lift Arm Assembly



Item	Part Number	Description
1	QT-1189	LIFT ARM 4-BAR ASSY
2	BH-6320	BOLT, 5/8-11 x 2 GD 5
3	NLT-6311	NUT, TOP LOCK 5/8-11
4	FA-4105	PULL POINT ASSY
5	BC-6340	BOLT, CARRIAGE 5/8-11 x 4 GD 5
6	CH-0805	3/8 x 5 CHAIN
7	BH-5018	BOLT, 1/2-13 x 1-3/4 GD 5

Item	Part Number	Description
8	HDD-016	SQ WASHER 1/2
9	NLT-5013	NUT, TOP LOCK 1/2-13
10	CH-0818	3/8 x 18 CHAIN
11	QT-1190	LOCK BAR, LIFT CHAIN ASSY 4-BAR
12	PC-1913	PIN, CLICK 3/16 x 1-9/16
13	LW-0063	LOCK WASHER, 5/8
14	NH-6311	NUT, HEX, 5/8-11

4-Bar Harrow Sections



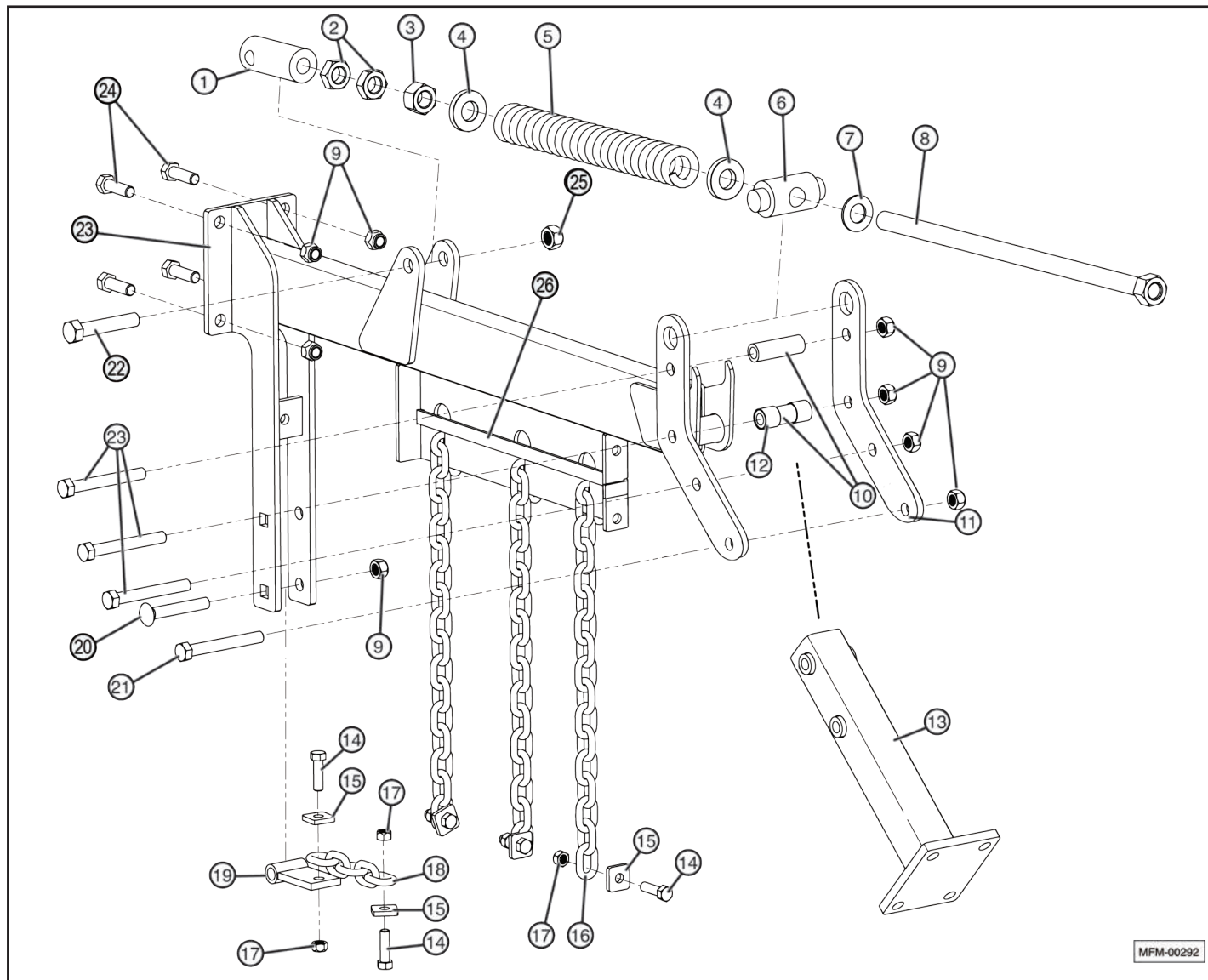
M200-0020

Item	Part Number	Description
1	BH-6340	5/8-11 X 4 GRADE 5 BOLT
2	CT-105	CT CONNECTOR LINK
3	CT-102	INNER BUSHING
4	LW-0063	5/8 LOCK WASHER
5	NLT-6311	5/8-11 TOP LOCK NUT
6	CT-106	SPIKE TOOTH
7	FA-4105	PULL TAB
8	BC-6340	5/8-11 X 4 CARRIAGE BOLT
9	BV-3812	3/8 X 1 1/16 X 2 V-BEND U-BOLT
10	FA-4103	3/8 V-BOLT PLATE
11	NLT-3816	3/8-16 TOP LOCK NUT
12	CT-244	#4 HARROW BAR (CT-40) 36"
	CT-254	#4 HARROW BAR (CT-50) 47"
	CT-264	#4 HARROW BAR (CT-60) 58"
	CT-274	#4 HARROW BAR (CT-70) 69"
	CT-284	#4 HARROW BAR (CT-80) 80"

Item	Part Number	Description
13	CT-243	#3 HARROW BAR (CT-40) 36"
	CT-253	#3 HARROW BAR (CT-50) 47"
	CT-263	#3 HARROW BAR (CT-60) 58"
	CT-273	#3 HARROW BAR (CT-70) 69"
	CT-283	#3 HARROW BAR (CT-80) 80"
14	CT-242	#2 HARROW BAR (CT-40) 36"
	CT-252	#2 HARROW BAR (CT-50) 47"
	CT-262	#2 HARROW BAR (CT-60) 58"
	CT-272	#2 HARROW BAR (CT-70) 69"
	CT-282	#2 HARROW BAR (CT-80) 80"
15	CT-241	#1 HARROW BAR (CT-40) 36"
	CT-251	#1 HARROW BAR (CT-50) 47"
	CT-261	#1 HARROW BAR (CT-60) 58"
	CT-271	#1 HARROW BAR (CT-70) 69"
	CT-281	#1 HARROW BAR (CT-80) 80"

* Quantities vary.

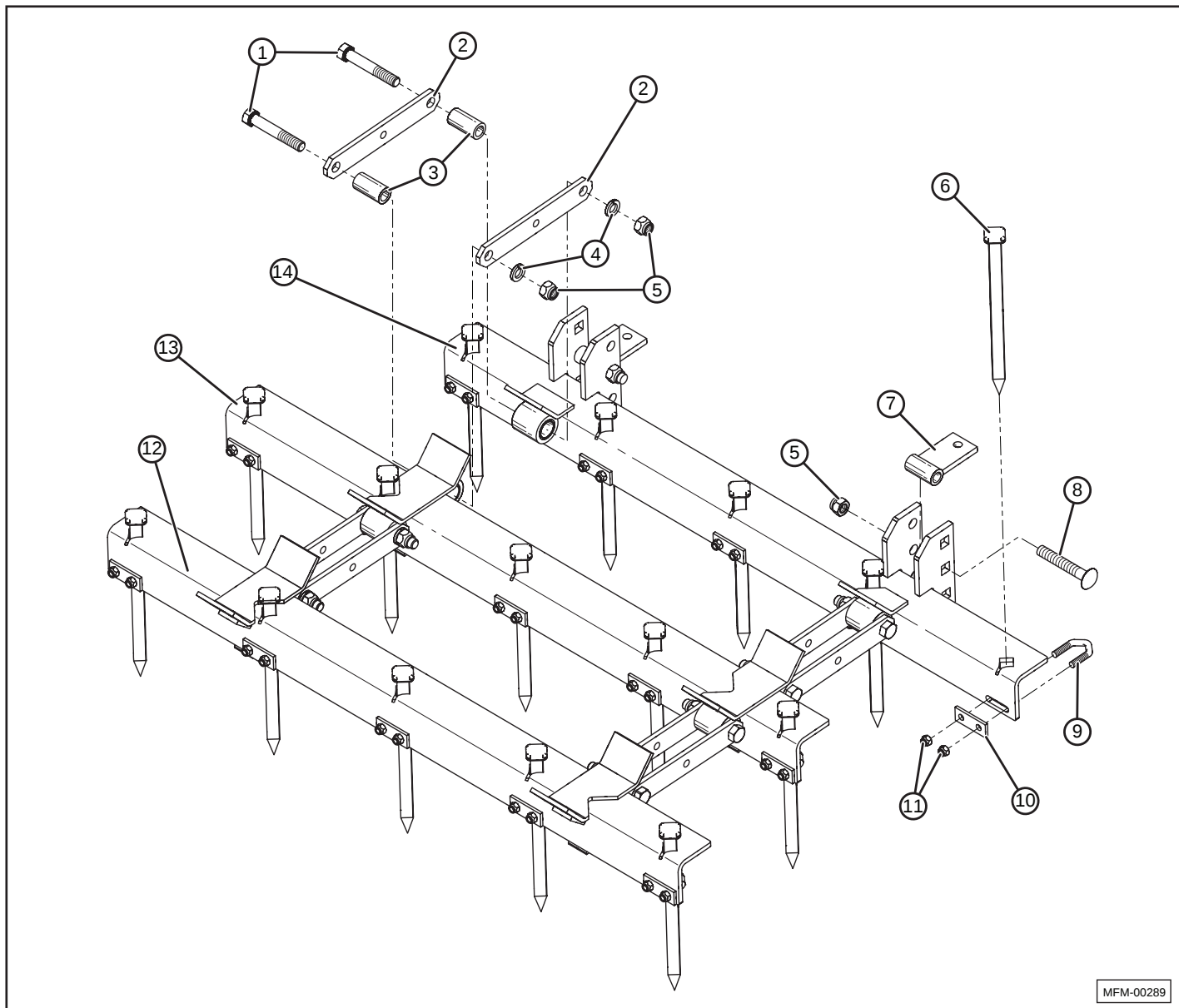
3-Bar Harrow Lift Arm Assembly



Item	Part Number	Description
1	10713	TUBE, ROUND, ADJUSTMENT
2	NHJ-1008	NUT, JAM, 1-8
3	NH-1008	NUT, 1-8
4	10715	WASHER, 1"
5	10682	SPRING, COMPRESSION
6	10714	TRUNNION
7	FW-0100	WASHER, FLAT, 1"
8	10959	BOLT, SPECIAL
9	NLT-6311	NUT, TOP LOCK, 5/8-11
10	10716	TUBE, ROUND
11	104676	PLATE, PIVOT
12	10710	BUSHING, PLASTIC
13	14893	TUBE, PIVOT
14	BH-5018	BOLT, HEX, 1/2-13 X 1-3/4

Item	Part Number	Description
15	HDD-016	WASHER, SQUARE, 1/2"
16	CH-0818	CHAIN, 3/8", 18 LINK
17	NLT-5013	NUT, TOP LOCK, 1/2-13
18	CH-0805	CHAIN, 3/8", 5 LINK
19	FA-4105	PULL POINT ASSY
20	BC-6340	BOLT, CARRIAGE 5/8-11 X 4 GD 5
21	BH-6350	BOLT, HEX, 5/8-11 X 5 GD 5
22	BH-7540	BOLT, HEX, 3/4-10 X 4 GD 5
23	10677	ARM, LIFT, 3-BAR ASSY
24	BH-6320	BOLT, 5/8-11 X 2 GD 5
25	NLT-7510	NUT, TOP LOCK, 3/4-10
26	RD-5094	LOCK BAR, LIFT CHAIN ASSY 3-BAR

3-Bar Harrow Sections

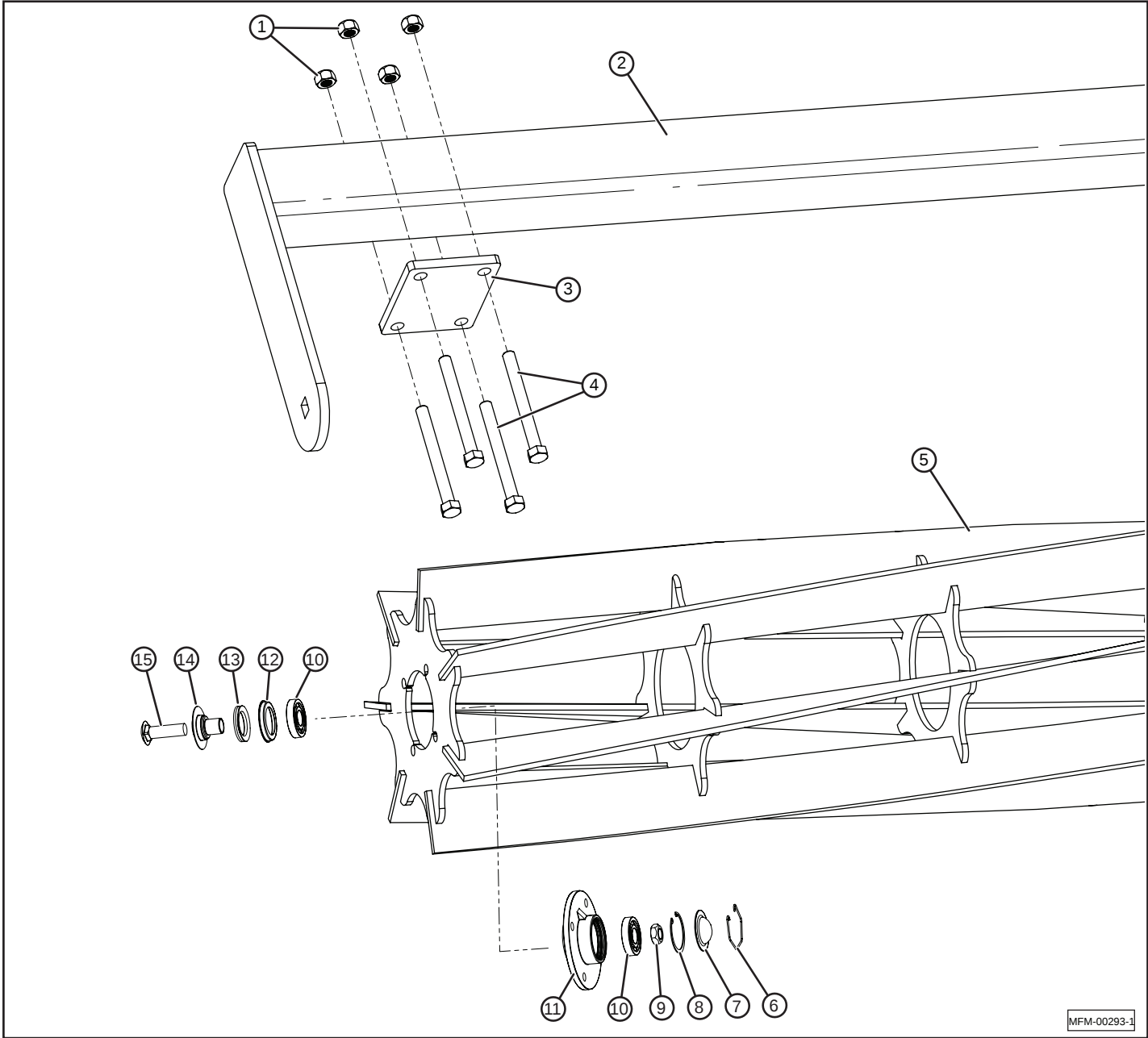


Item	Part Number	Description
1	BH-6340	5/8-11 X 4 GRADE 5 BOLT
2	CT-105	CT CONNECTOR LINK
3	CT-102	INNER BUSHING
4	LW-0063	5/8 LOCK WASHER
5	NLT-6311	5/8-11 TOP LOCK NUT
6	CT-106	SPIKE TOOTH
7	FA-4105	PULL TAB
8	BC-6340	5/8-11 X 4 CARRIAGE BOLT
9	BV-3812	3/8 X 1 1/16 X 2 V-BEND U-BOLT
10	FA-4103	3/8 V-BOLT PLATE
11	NLT-3816	3/8-16 TOP LOCK NUT

Item	Part Number	Description
12	CT-343	#3 HARROW BAR (CT-40-3) 36"
	CT-353	#3 HARROW BAR (CT-50-3) 47"
	CT-363	#3 HARROW BAR (CT-60-3) 58"
	CT-373	#3 HARROW BAR (CT-70-3) 69"
13	CT-342	#2 HARROW BAR (CT-40-3) 36"
	CT-352	#2 HARROW BAR (CT-50-3) 47"
	CT-362	#2 HARROW BAR (CT-60-3) 58"
	CT-372	#2 HARROW BAR (CT-70-3) 69"
14	CT-341	#1 HARROW BAR (CT-40-3) 36"
	CT-351	#1 HARROW BAR (CT-50-3) 47"
	CT-361	#1 HARROW BAR (CT-60-3) 58"
	CT-371	#1 HARROW BAR (CT-70-3) 69"

* Quantities vary.

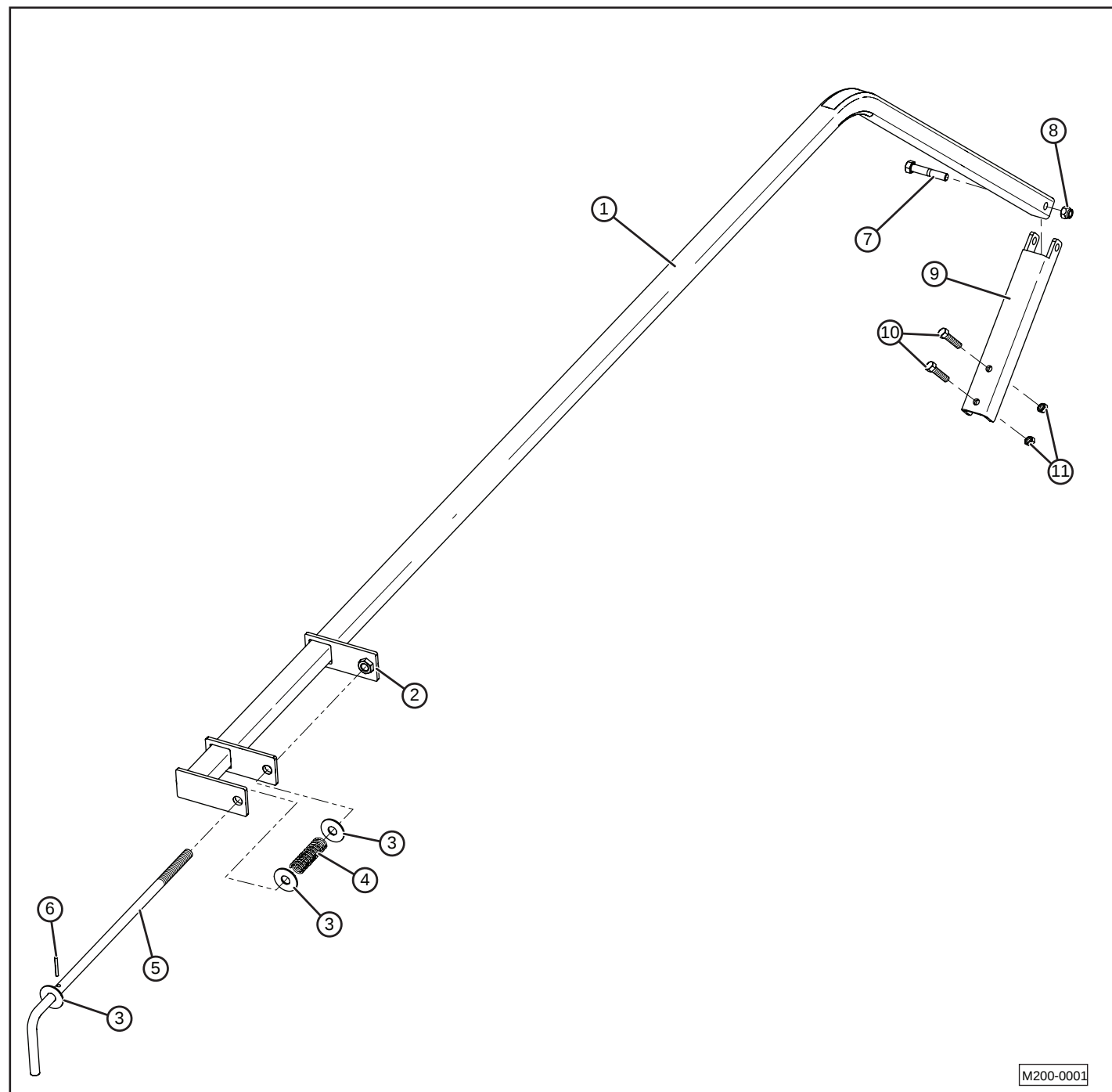
Rolling Basket Assembly



Item	Part Number	Description
1	NLT-6311	NUT, TOP LOCK 5/8-11
2	10581 10625 10630 11082 10579	FRAME, ROLLING BASKET, 41" FRAME, ROLLING BASKET, 52" FRAME, ROLLING BASKET, 63" FRAME, ROLLING BASKET, 74" FRAME, ROLLING BASKET, 85"
3	10721	PLATE, CLAMP
4	BH-6360	BOLT, HEX, 5/8-11 X 6" GD 5
5	10462 10627 10632 11084 10465	ROLLING BASKET, 41" ROLLING BASKET, 52" ROLLING BASKET, 63" ROLLING BASKET, 74" ROLLING BASKET, 85"
6	13081	RETAINING RING
7	13078	DUST CAP

Item	Part Number	Description
8	13076	SNAP RING
9	NLT-7510	NUT, TOP LOCK, 3/4-10
10	13074	BEARING,SEALED,1" ID
11	13080	HUB
12	13079	SEAL COUNTERFACE
13	13075	V-SEAL,1.59" ID
14	13077	BEARING SLEEVE W/GUARD
15	BC-7535	BOLT, CARRIAGE, 3/4-10 X 3-1/2, GR 5
ROLLING BASKET, COMPLETE ASSEMBLY		
10583	ROLLING BASKET ASSEMBLY, 41"	
10624	ROLLING BASKET ASSEMBLY, 52"	
10629	ROLLING BASKET ASSEMBLY, 63"	
11081	ROLLING BASKET ASSEMBLY, 74"	
10580	ROLLING BASKET ASSEMBLY, 85"	

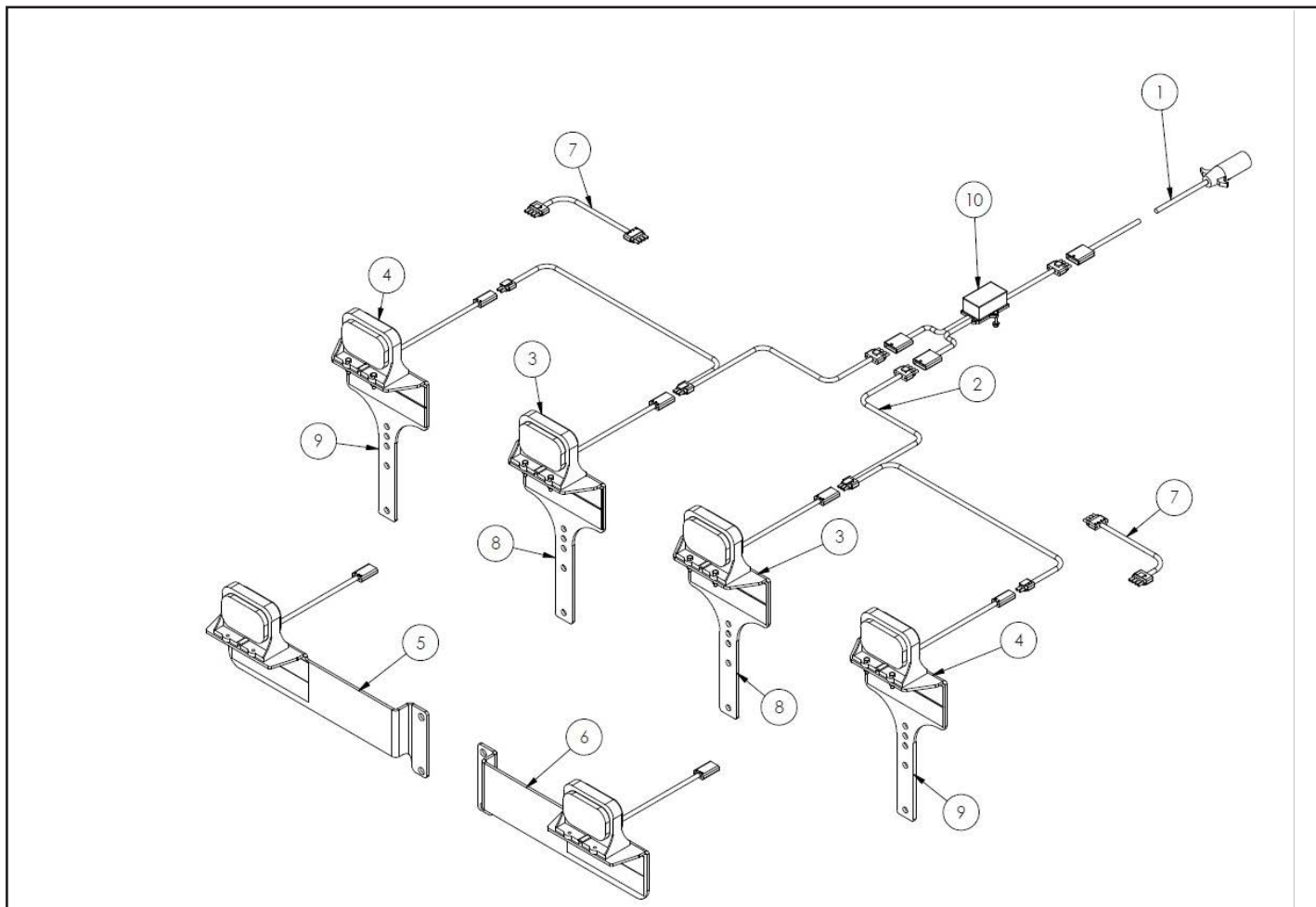
Main Lift Depth Stop Assembly



Item	Part Number	Description
1	QT-1021	HYD STOP TUBE
2	RD-4353	HYD STOP PLATE
3	FW-0063	WASHER, FLAT 5/8
4	RD-4355	SPRING, 1 x 3
5	QT-1158	HYD STOP CRANK QT
6	RD-4357	PIN, SPRING ROLL 3/16 x 1-1/2

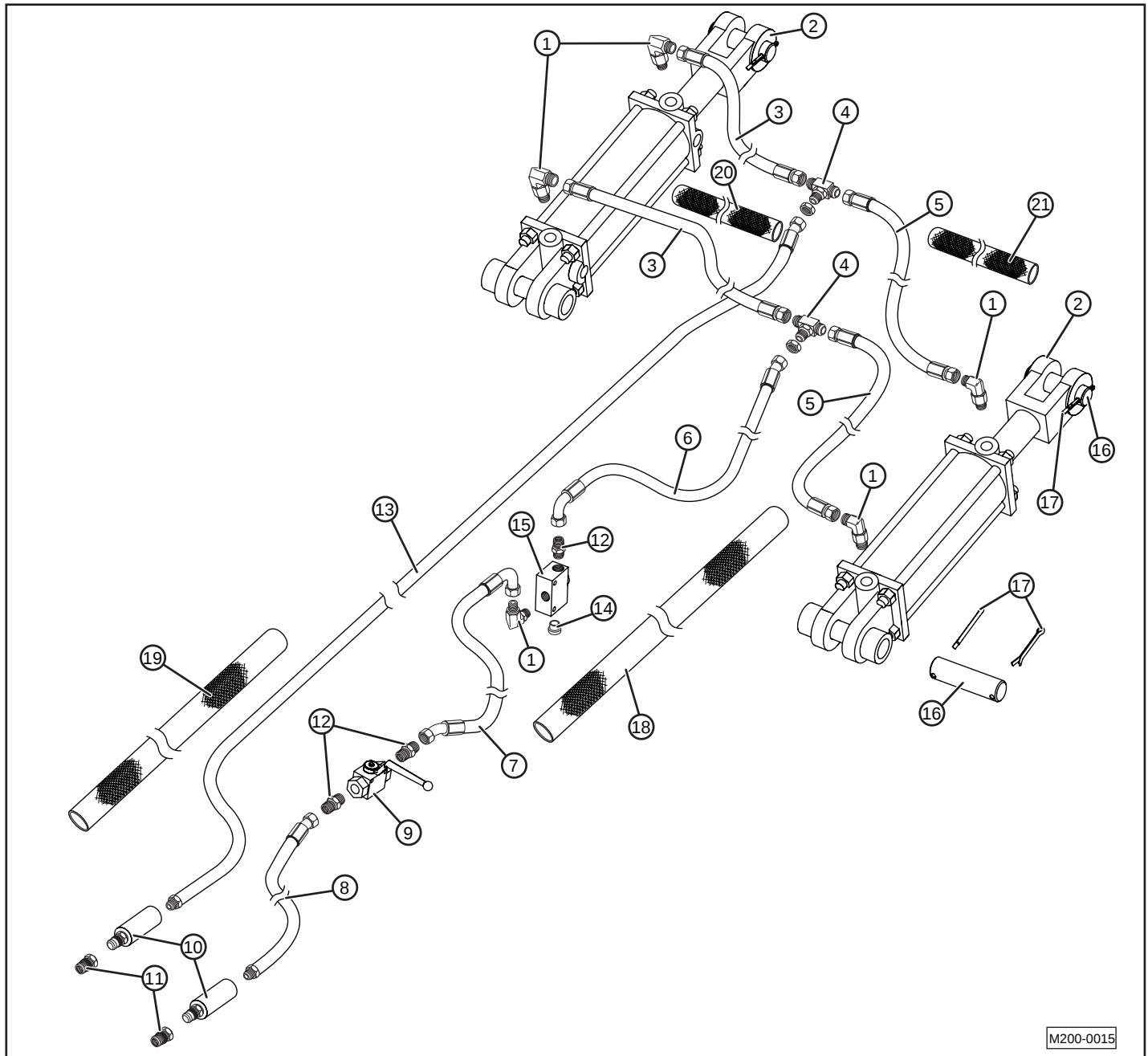
Item	Part Number	Description
7	BH-5028	BOLT, 1/2-13 x 2-3/4 GD 5
8	NLT-5013	NUT, TOP LOCK 1/2 - 13
9	QT-1139	HYDRAULIC STOP AXLE BRACKET
10	BH-3810	BOLT, 3/8 - 16 x 1 GD 5
11	NLT-3816	NUT, TOP LOCK, 3/8 - 16

Lighting and Wiring Harness



Item	Part Number	Description
1	16256	LIGHT HARNESS,7-PIN/4-PIN,40'
2	16214	LIGHT HARNESS,4-PIN/3-2-PIN,13'
3	16212	LIGHT,RED-BLACK,LED
4	16211	LIGHT,AMBER-AMBER,LED
5	11126	BRACKET, LIGHT, OUTER, LT (215F, 217F)
6	11127	BRACKET, LIGHT, OUTER, RT (215F, 217F)
7	16258	LIGHT HARNESS,4-PIN/4-PIN,5'
8	RD-5056	BRACKET, LIGHT, SINGLE, INNER
9	11128	BRACKET, LIGHT, SINGLE, OUTER (207-213F)
10	16210	LIGHT ENHANCER MODULE

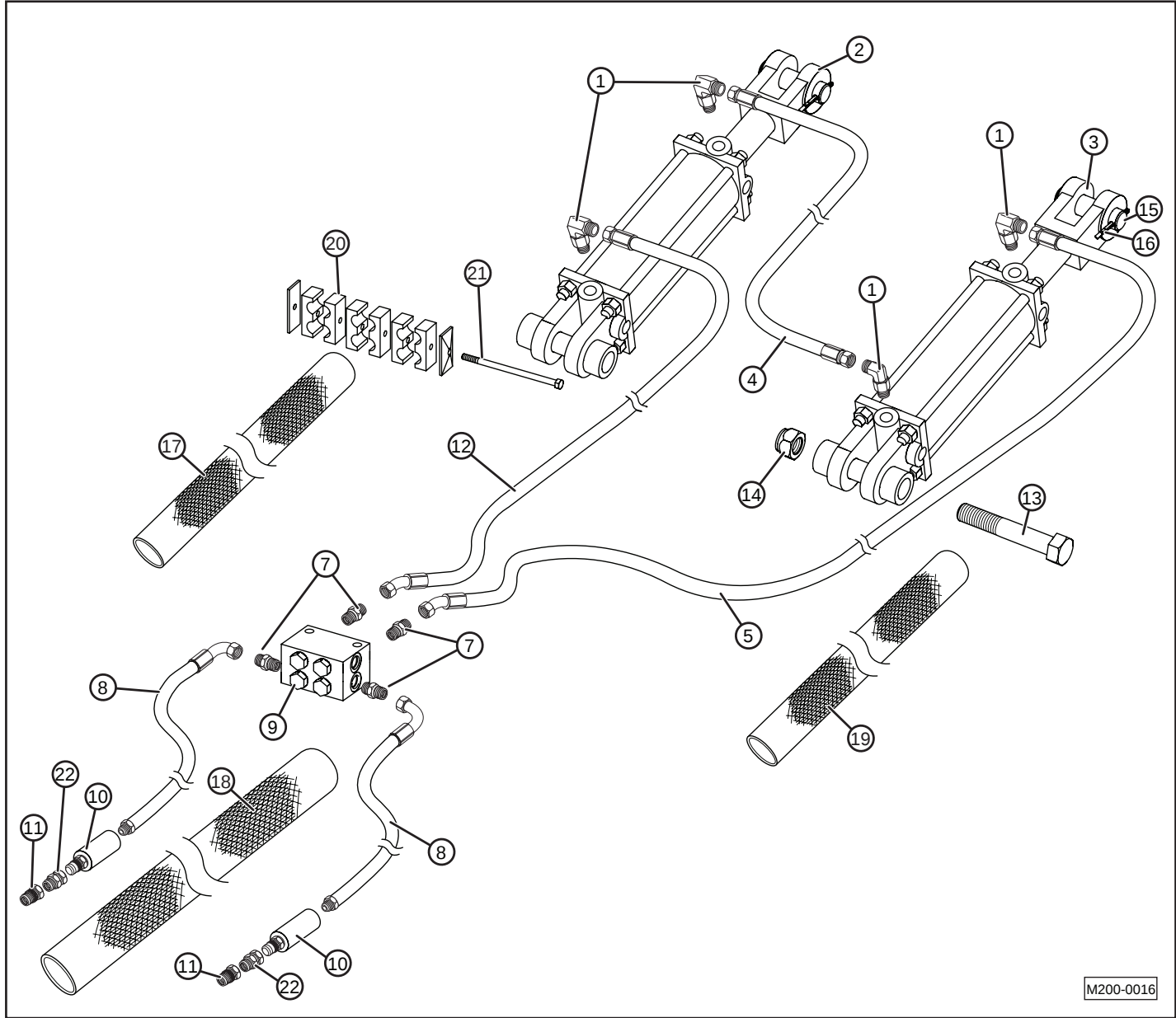
Wheel Cylinder Hydraulics



Item	Part Number	Description
1	HYF-2220	HYDRUALIC ELBOW, 1/2M-1/2M ORB
2	HYC-34012	HYDRAULIC CYLINDER, 4 X 12
3	HYH-2044 HYH-2065	HYDRAULIC HOSE, (1/2 X 44) 207 HYDRAULIC HOSE, (1/2 X 65) 209-217F
4	HYF-1222	HYDRAULIC TEE, 1/2M-1/2M-1/2M
5	HYH-2065 HYH-2085	HYDRAULIC HOSE, (1/2 X 65) 207 HYDRAULIC HOSE, (1/2 X 85) 209-217F
6	HYH-1003	HYDRAULIC HOSE, 1/2 X 107
7	HYH-1004	HYDRAULIC HOSE, 1/2 X 128
8	HYH-2080	HYDRAULIC HOSE, 1/2 X 80
9	QT-1172	3/4 BALL VALVE
10	HYO-1212	HYDRA-GRIP, YELLOW

Item	Part Number	Description
11	15641	HYD DISCONNECT,MALE,3/4ORB
12	HYF-3220	HYDRAULIC ADAPTER, 1/2M-1/2M ORB
13	HYH-3256	HYDRAULIC HOSE, 1/2-1/2 PIPE X 256
14	HYF-0150	HYDRAULIC PLUG, 1/2 ORB
15	HYO-3021	HYD STOP VALVE, RESTRICTED
16	HYO-2103	CYLINDER CLEVIS PIN, 1 x 3
17	CP-3620	COTTER PIN, 3/16 x 2
18	HYS-2003	HYDRAULIC HOSE COVER, 25"
19	HYS-2002	HYDRAULIC HOSE COVER, 85"
20	HYS-2005	HYDRAULIC HOSE COVER, 42"
21	HYS-2006	HYDRAULIC HOSE COVER, 60"

Leveler Disk Hydraulics



M200-0016

Item	Part Number	Description
1	HYF-2220	HYDRAULIC ELBOW, 1/2M-1/2M ORB
2	HYR-4008	HYDRAULIC CYLINDER, REPHASING, 4 x 8 ASAE
3	HYR-3808	HYDRAULIC CYLINDER, REPHASING, 3 3/4 X 8 ASAE
4	HYH-2136 HYH-2167	HYDRAULIC HOSE, 1/2 X 136" HYDRAULIC HOSE, 1/2 x 167" (215F)
5	HYH-1006 HYH-1018 HYH-1010	HYDRAULIC HOSE, (1/2 X 255) 207-213 HYDRAULIC HOSE, (1/2 X 259) 213F HYDRAULIC HOSE, 1/2 x 265" 215F
6	—	—
7	HYF-3220	HYDRAULIC ADAPTER, 1/2M-1/2M ORB
8	HYH-1007	HYDRAULIC HOSE, 1/2 X 168"
9	QT-1058	HYD LOCK VALVE
10	HYO-1210	HYDRA-GRIP, RED
11	15641	HYD DISCONNECT,MALE,3/4ORB

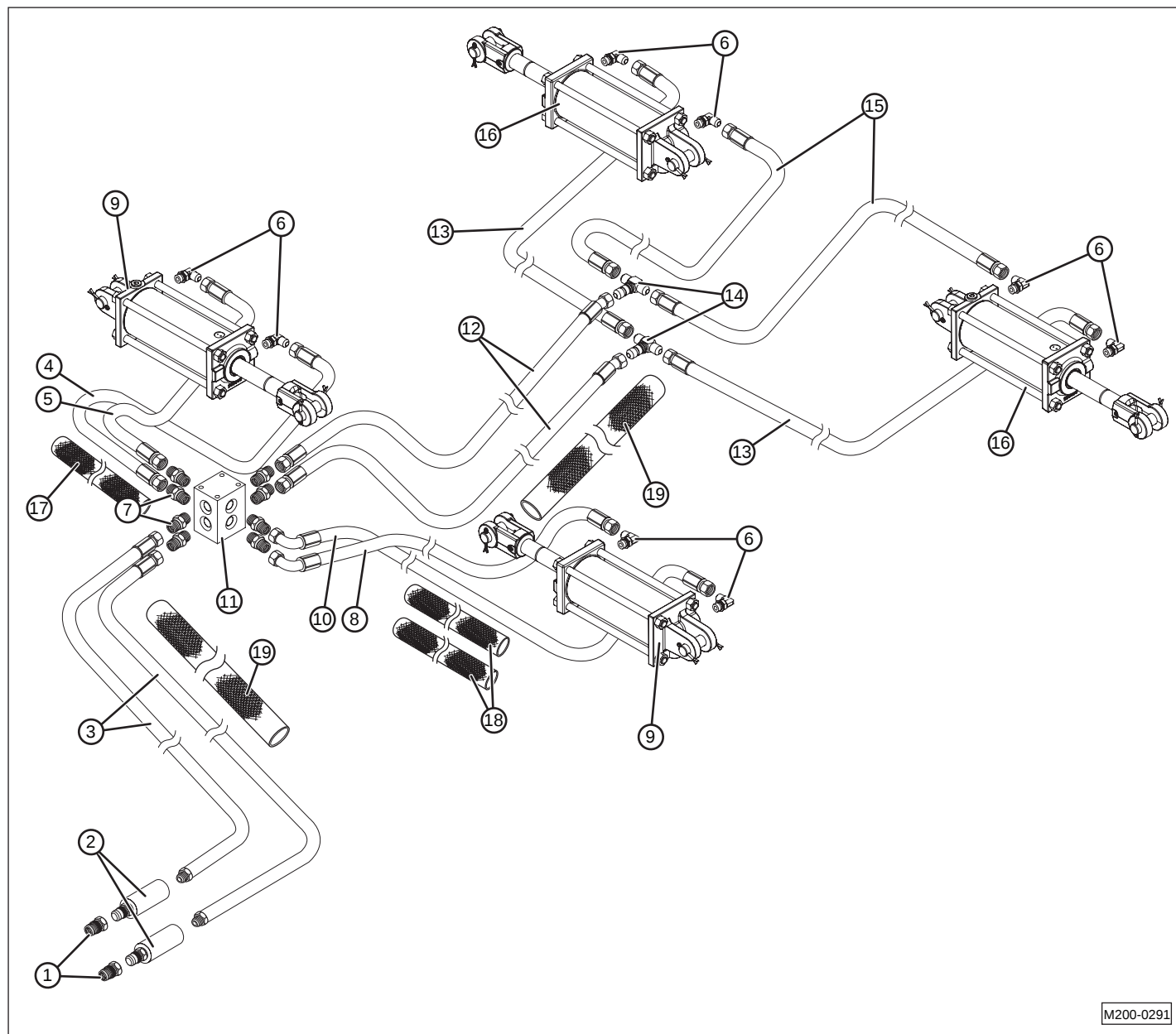
Item	Part Number	Description
12	HYH-1005 HYH-1019 HYH-1020	HYDRAULIC HOSE, (1/2 X 213) 207-213 HYDRAULIC HOSE, (1/2 X 217) 213F HYDRAULIC HOSE, 1/2 x 223" 215F
13	BHY-1070	BOLT, 1 x 7 , GRADE 8
14	NLT-1008	NUT, TOP LOCK, 1-8
15	HYO-2103	CYLINDER CLEVIS PIN, 1 x 3
16	CP-3620	COTTER PIN, 3/16 x 2
17	HYS-2005	HYDRAULIC HOSE COVER, 42"
18	HYS-2001	HYDRAULIC HOSE COVER, 110"
19	HYS-2007	HYDRAULIC HOSE COVER, 70"
20	HYO-1202	HYDRAULIC CLAMP BODY
21	BH-3415	BOLT, HEX, 5/16 x 4-1/2"
22	HY-1301	HYD RESTRICTOR, SWIVEL, 1/2Fp - 1/2 Mp, 1/16

This technical diagram illustrates the exploded view of a hydraulic cylinder assembly. The components are numbered as follows:

- 1**: Main hydraulic cylinder body.
- 2**: Various hydraulic fittings and connectors.
- 3**: End cap or mounting bracket.
- 4**: Piston rod with a seal.
- 5**: Piston rod seal.
- 6**: Piston rod seal.
- 7**: Hydraulic manifold block.
- 8**: Hydraulic hoses.
- 9**: Hydraulic fittings.
- 10**: Hydraulic fittings.
- 11**: Piston rod seal.
- 12**: Piston rod seal.
- 13**: Piston rod seal.
- 14**: Piston rod seal.
- 15**: Piston rod seal.
- 16**: Piston rod seal.
- 17**: Piston rod seal.
- 18**: Piston rod seal.

Item	Part Number	Description
10	15641	HYD DISCONNECT,MALE,3/4ORB
11	CL-1006	CLEVIS PIN, 1 x 6
12	FW-0100	FLAT WASHER, 1"
13	CP-3620	COTTER , 3/16 x 2
14	QT-1149	PIN, SPRING ROLL, 7/16 x 1-3/4
15	QT-1148	DISK HITCH PIVOT PIN REAR
16	NLT-3816	NUT, TOP LOCK 3/8-16
17	BH-3823	BOLT, 3/8-16 x 2-1/4 GD 5
18	HYS-2001	HYDRAULIC HOSE COVER, 110"

Hydraulic Diagram for QT-213F Wing Fold Cylinders

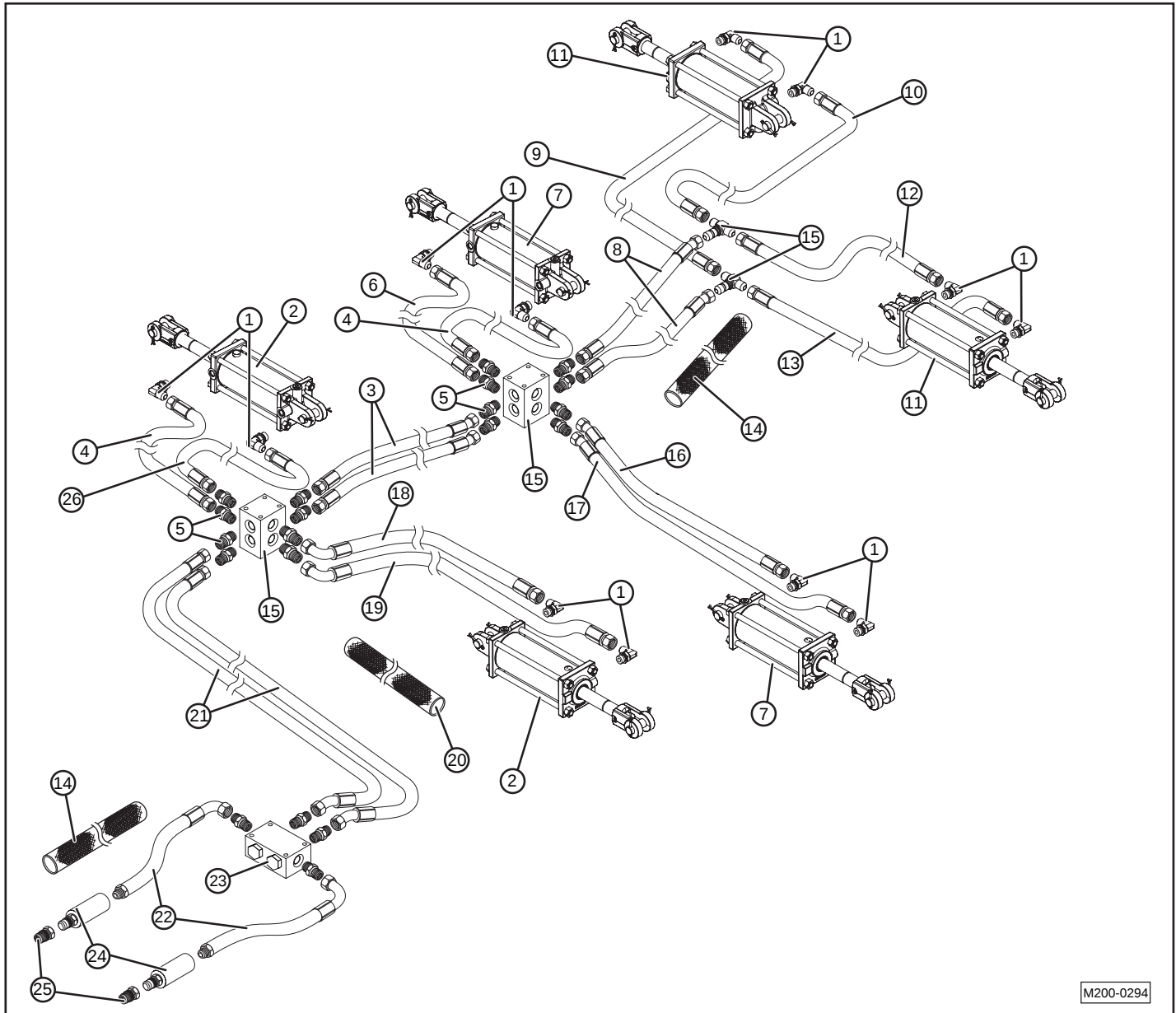


M200-0291

Item	Part Number	Description
1	HYF-4002	HYDRAULIC DISCONNECT, MALE
2	HYO-1211	HYDRA-GRIP
3	HYH-4256	HYDRAULIC HOSE 1/2 X 256
4	HYH-2094	HYDRAULIC HOSE 1/2 X 94
5	HYH-2080	HYDRAULIC HOSE 1/2 X 80
6	HYF-2221	HYDRAULIC ELBOW, 1/2M - 1/2M ORB, RESTRICTOR
7	HYF-3220	HYDRAULIC ADAPTER, 1/2M - 1/2M ORB
8	HYH-1022	HYDRAULIC HOSE 1/2 X 136
9	HYA-33008	CYLINDER, 3 X 8 ASAE
10	HYH-1021	HYDRAULIC HOSE 1/2 X 122

Item	Part Number	Description
11	HYO-3022	HYDRAULIC MANIFOLD, 4-WAY
12	HYH-1023	HYDRAULIC HOSE 1/2 X 244
13	HYH-2042	HYDRAULIC HOSE 1/2 X 42
14	HYF-1222	HYDRAULIC TEE, 1/2M-1/2M-1/2M
15	HYH-2024	HYDRAULIC HOSE 1/2 X 24
16	HYC-33014	CYLINDER, 3 X 14
17	HYS-2007	HYDRAULIC HOSE COVER, 70"
18	HYS-2005	HYDRAULIC HOSE COVER, 42"
19	HYS-2008	HYDRAULIC HOSE COVER, 134"

Hydraulic Diagram for QT-215F and QT-217F Wing Fold Cylinders

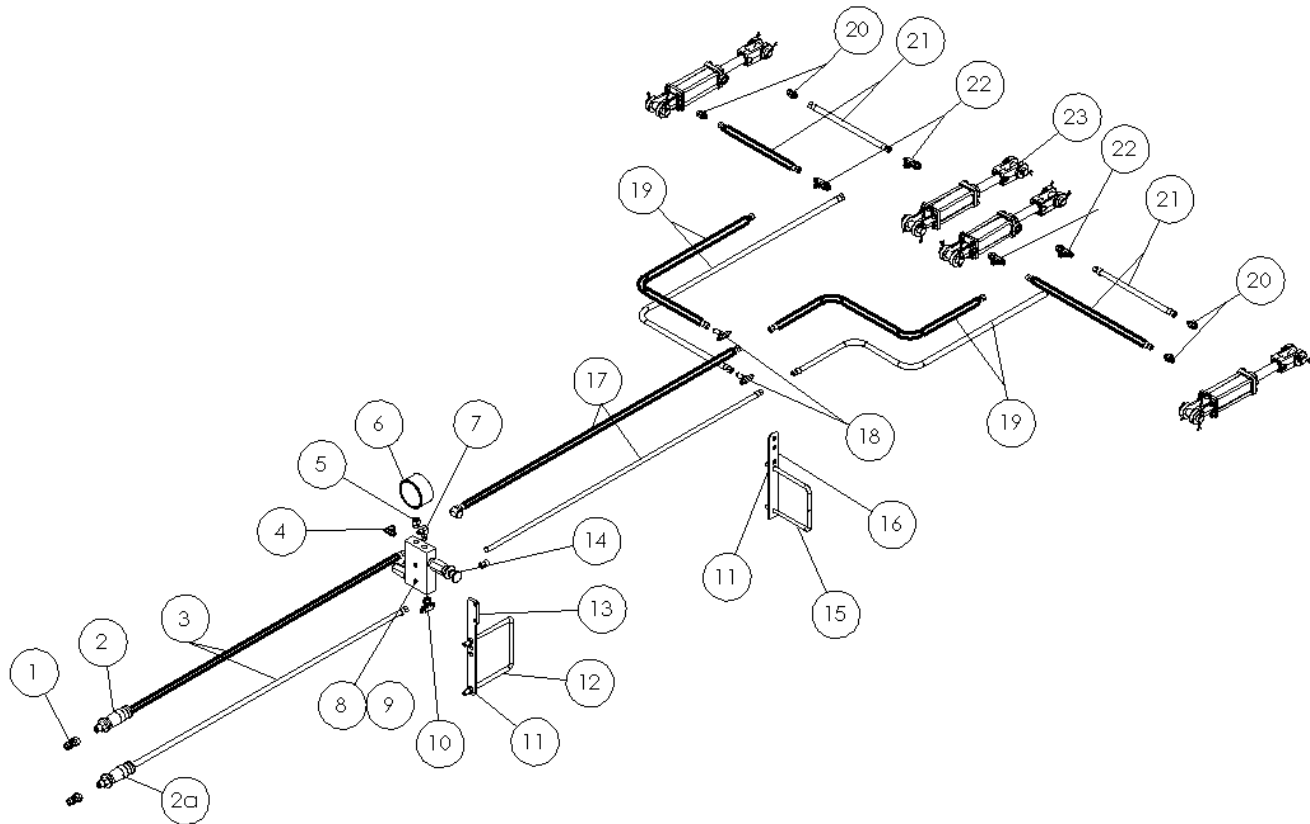


Item	Part Number	Description
1	HYF-2221	HYDRAULIC ELBOW, 1/2M - 1/2M ORB, RESTRICTOR (ON ALL WING FOLD CYLINDERS)
2	HYC-34014	CYLINDER, 4 X 14
3	HYH-1015	HYDRAULIC HOSE 1/2 X 92
4	HYH-2042	HYDRAULIC HOSE 1/2 X 42
5	HYF-3220	HYDRAULIC ADAPTER, 1/2M - 1/2M ORB (ON ALL MANIFOLD PORTS)
6	HYH-2060	HYDRAULIC HOSE 1/2 X 60
7	HYA-33516	CYLINDER, 3 1/2 X 16, ASAE
8	HYH-2122	HYDRAULIC HOSE 1/2 X 122
9	HYH-2040	HYDRAULIC HOSE 1/2 X 40
10	HYH-2022	HYDRAULIC HOSE 1/2 X 22
11	HYC-33014	CYLINDER, 3 X 14
12	HYH-2085	HYDRAULIC HOSE 1/2 X 85

Item	Part Number	Description
13	HYH-2101	HYDRAULIC HOSE 1/2 X 101
14	HYS-2001	HYDRAULIC HOSE COVER 110"
15	HYO-3022	HYDRAULIC MANIFOLD, 4-WAY
16	HYH-1017	HYDRAULIC HOSE 1/2 X 66
17	HYH-1016	HYDRAULIC HOSE 1/2 X 85
18	HYH-1012	HYDRAULIC HOSE 1/2 X 69
19	HYH-1013	HYDRAULIC HOSE 1/2 X 86
20	HYS-2005	HYDRAULIC HOSE COVER 42"
21	HYH-1014	HYDRAULIC HOSE 1/2 X 76
22	HYH-1007	HYDRAULIC HOSE 1/2 X 168
23	QT-1302	HYDRAULIC LOCK VALVE, SINGLE
24	HYO-1213	HYDRA-GRIP (BLACK)
25	HYF-4002	HYDRAULIC DISCONNECT, MALE
26	HYH-2032	HYDRAULIC HOSE 1/2 X 32

Rolling Basket Down Pressure - 2 Baskets

Hydraulic Parts Diagram for QT-207-209



***Dark lines indicate pressure supply side**

Item	Part Number	Description
1	15641	HYD DISCONNECT,MALE,3/4ORB
2	15030	HYDRA GRIP, SUPPLY, BLUE
2a	15031	HYDRA GRIP, RETURN, BLUE
3	16305	HYD HOSE,1/4(9/16F-3/4ORB),168
4	HYF-2880	HYD ELBOW,9/16M-9/16Morb
5	14614	HYD ADAPTER,3/4 Morb-1/4 Fpipe
6	15748	PRESSURE GAUGE
7	HYF-2820	HYD ELBOW, 9/16M - 3/4Morb
8	BH-2525	BOLT, HEX,1/4-20X2.5,GD5
9	NLT-2520	NUT, TOP LOCK 1/4-20
10	HYF-1809	HYD TEE,9/16M-3/4Morb-9/16M
11	NLT-5013	NUT, LOCK, TOP,1/2-13
12	BU-1278	U-BOLT, 1/2 x 7 x 8 1/4
13	14919	BRACKET, VALVE MOUNT
14	14909	VALVE, PRESSURE RED. W/REVERSE RELIEF
15	BU-1267	U-BOLT, 1/2 x 6 x 7 1/4
16	WDL-2307	CB HYD TEE BRACKET
17	16306	HYD HOSE,1/4(9/16F),342

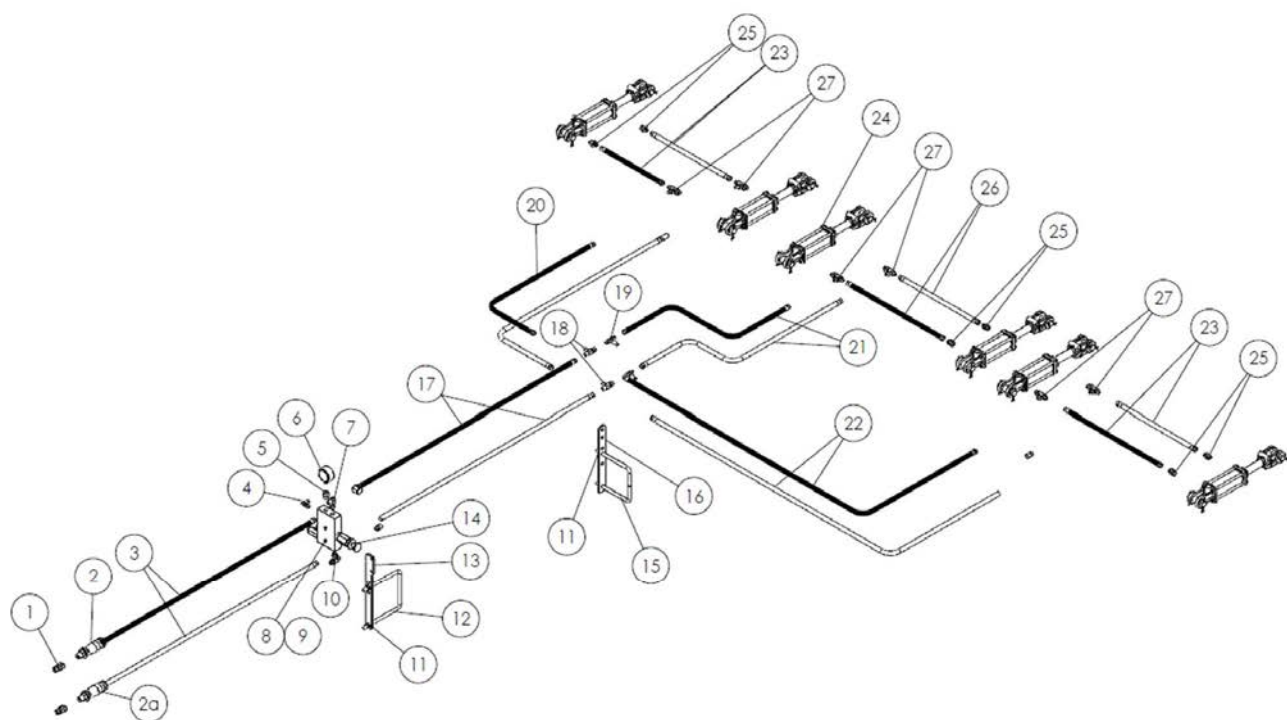
Item	Part Number	Description
18	HYF-1188	HYD TEE,9/16F-9/16M-9/16M
19	10985	HYD HOSE,1/4(9/16F),48 (BASE END - SUPPLY)
	10800	HYD HOSE,1/4(9/16F),58 (ROD END - RETURN)
20	HYF-3820	HYD ADAPTER,9/16M-3/4Morb
21	15420	HYD HOSE,1/4(9/16F),44 (QT-207)
	10800	HYD HOSE,1/4(9/16F),58 (QT-209)
22	HYF-1089	HYD TEE,9/16M-9/16M-3/4Morb
23	HYC-32004	HYD CYLINDER,2 x 4

Note: When ordering cylinder replacement parts, please specify cylinder make & part number.

McFarlane Manufacturing reserves the right to change specifications of design at any time without obligation to modify previous products.

Rolling Basket Down Pressure - 2 Baskets

Hydraulic Parts Diagram for QT-211



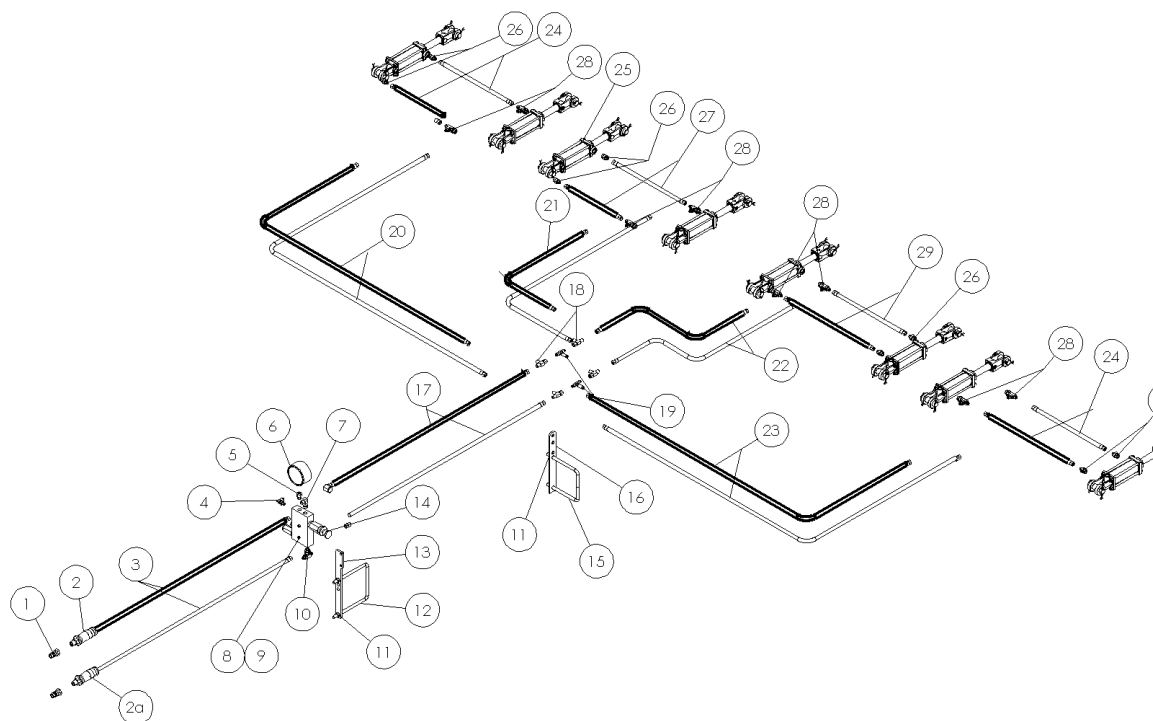
***Dark lines indicate pressure supply side**

Item	Part Number	Description
1	15641	HYD DISCONNECT,MALE,3/4ORB
2	15030	HYDRA GRIP, SUPPLY, BLUE
2a	15031	HYDRA GRIP, RETURN, BLUE
3	16305	HYD HOSE,1/4(9/16F-3/4ORB),168
4	HYF-2880	HYD ELBOW,9/16M-9/16Morb
5	14946	HYD ADAPTER,9/16 Morb - 1/4 Fpipe
6	15748	PRESSURE GAUGE
7	HYF-2820	HYD ELBOW, 9/16M - 3/4Morb
8	BH-2525	BOLT, HEX,1/4-20X2.5,GD5
9	NLT-2520	NUT, TOP LOCK 1/4-20
10	HYF-1809	HYD TEE,9/16M-3/4Morb-9/16M
11	NLT-5013	NUT, LOCK, TOP,1/2-13
12	BU-1278	U-BOLT, 1/2 x 7 x 8 1/4
13	14919	BRACKET, VALVE MOUNT
14	14909	VALVE, PRESSURE RED. W/REVERSE RELIEF
15	BU-1267	U-BOLT, 1/2 x 6 x 7 1/4
16	WDL-2307	CB HYD TEE BRACKET

Item	Part Number	Description
17	16306	HYD HOSE,1/4(9/16F),342
18	HYF-1188	HYD TEE,9/16F-9/16M-9/16M
19	HYF-1888	HYD TEE,9/16M-9/16M-9/16M
20	10986	HYD HOSE,1/4(9/16F),52 (BASE END - SUPPLY)
	14962	HYD HOSE,1/4(9/16F),59 (ROD END - RETURN)
21	10991	HYD HOSE,1/4(9/16F),38 (BASE END - SUPPLY)
	10985	HYD HOSE,1/4(9/16F),48 (ROD END - RETURN)
22	10992	HYD HOSE,1/4(9/16F),102 (BASE END-SUPPLY)
	10868	HYD HOSE,1/4(9/16F),110 (ROD END-RETURN)
23	10866	HYD HOSE,1/4(9/16F),34
24	HYC-32004	HYD CYLINDER,2 x 4
25	HYF-3820	HYD ADAPTER,9/16M-3/4Morb
26	15420	HYD HOSE,1/4(9/16F),44
27	HYF-1089	HYD TEE,9/16M-9/16M-3/4Morb

Rolling Basket Down Pressure - 2 Baskets

Hydraulic Parts Diagram for QT-213F, 215F, and 217F



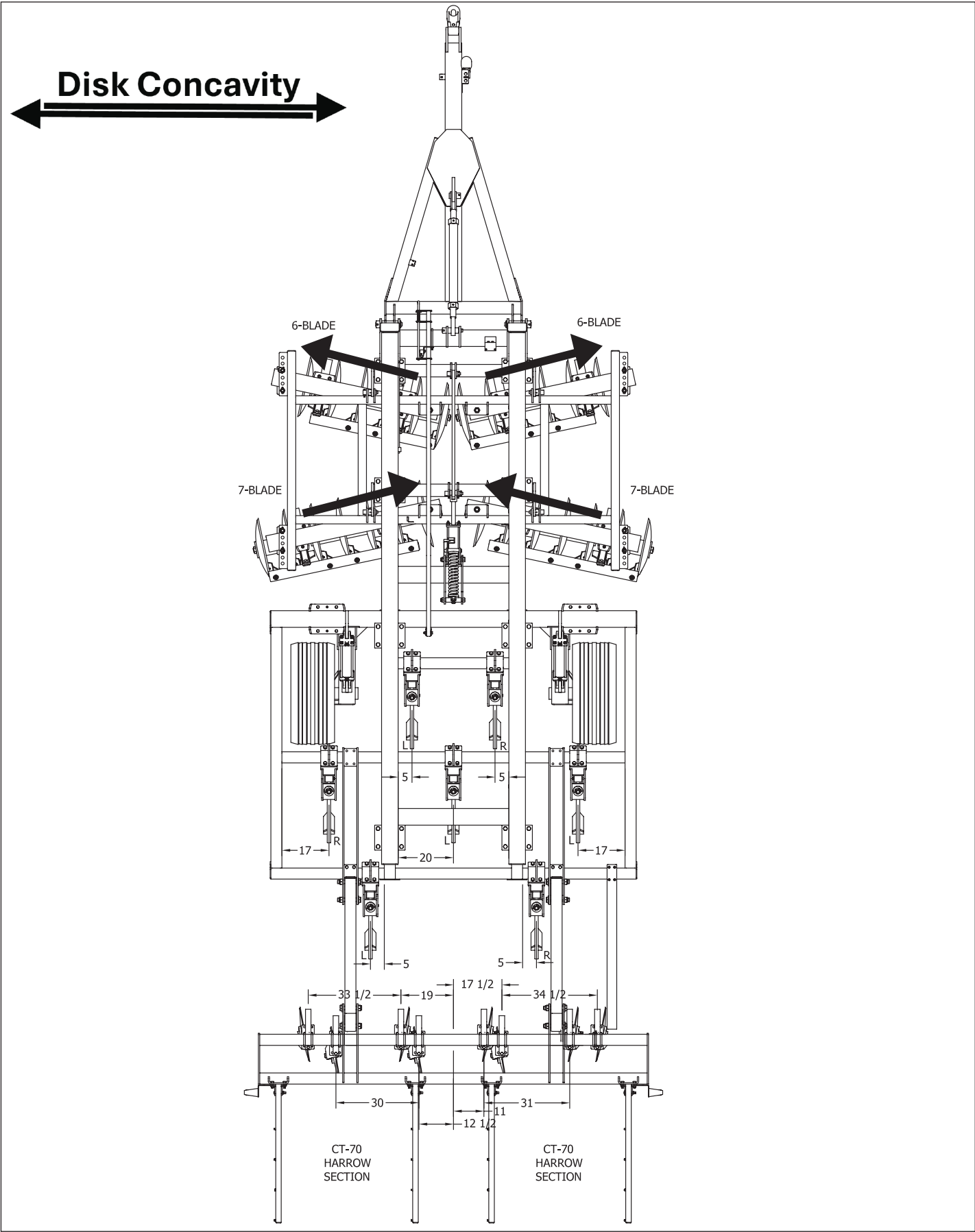
***Dark lines indicate pressure supply side**

Item	Part Number	Description
1	15641	HYD DISCONNECT,MALE,3/4ORB
2	15030	HYDRA GRIP, SUPPLY, BLUE
2a	15031	HYDRA GRIP, RETURN, BLUE
3	16305	HYD HOSE,1/4(9/16F-3/4ORB),168
4	HYF-2880	HYD ELBOW,9/16M-9/16Morb
5	14946	HYD ADAPTER,9/16 Morb - 1/4 Fpipe
6	15748	PRESSURE GAUGE
7	HYF-2820	HYD ELBOW, 9/16M - 3/4Morb
8	BH-2525	BOLT, HEX,1/4-20X2.5,GD5
9	NLT-2520	NUT, TOP LOCK 1/4-20
10	HYF-1809	HYD TEE,9/16M-3/4Morb-9/16M
11	NLT-5013	NUT, LOCK, TOP,1/2-13
12	BU-1278	U-BOLT, 1/2 x 7 x 8 1/4
13	14919	BRACKET, VALVE MOUNT
14	14909	VALVE, PRESSURE RED. W/REVERSE RELIEF
15	BU-1267	U-BOLT, 1/2 x 6 x 7 1/4
16	WDL-2307	CB HYD TEE BRACKET
17	16306	HYD HOSE,1/4(9/16F),342
18	HYF-1188	HYD TEE,9/16F-9/16M-9/16M
19	HYF-1888	HYD TEE,9/16M-9/16M-9/16M
20	14844	HYD HOSE,1/4(9/16F),147 (BASE END- SUPPLY: QT-217F, QT-215F)
	10903	HYD HOSE,1/4(9/16F),156 (ROD END- RETURN QT-217F, QT215F)
	10868	HYD HOSE,1/4(9/16F),110 (BASE END- SUPPLY QT-213F)
	10869	HYD HOSE,1/4(9/16F),116 (ROD END- RETURN QT-213F)

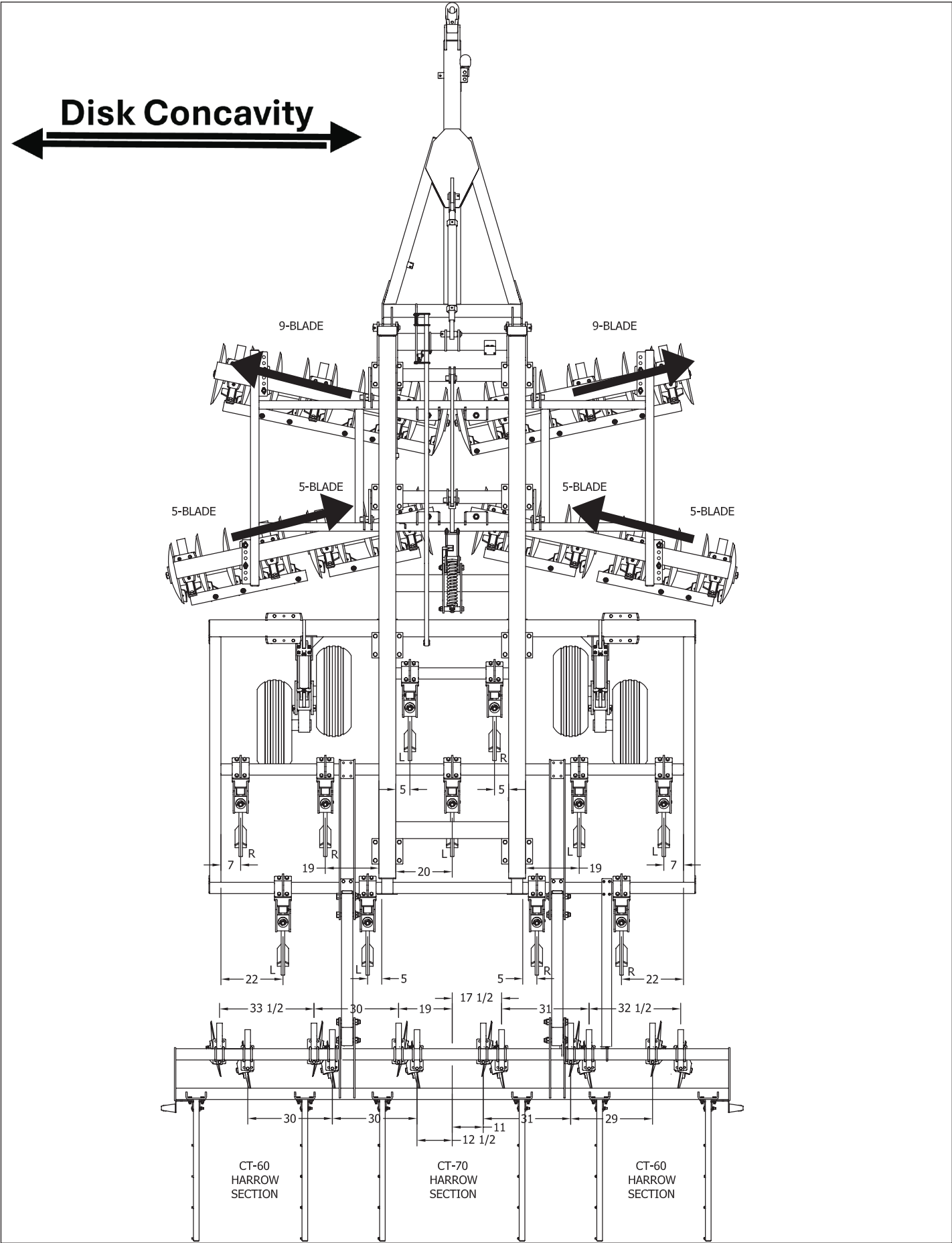
21	10985	HYD HOSE,1/4(9/16F),48 (BASE END - SUPPLY)
	10800	HYD HOSE,1/4(9/16F),58 (ROD END - RETURN)
22	10985	HYD HOSE,1/4(9/16F),48 (BASE END - SUPPLY)
	10800	HYD HOSE,1/4(9/16F),58 (ROD END - RETURN)
23	14844	HYD HOSE,1/4(9/16F),147 (BASE END- SUPPLY: QT-217F, QT-215F)
	10903	HYD HOSE,1/4(9/16F),156 (ROD END- RETURN QT-217F, QT215F)
	10868	HYD HOSE,1/4(9/16F),110 (BASE END- SUPPLY QT-213F)
	10869	HYD HOSE,1/4(9/16F),116 (ROD END- RETURN QT-213F)
24	16605	HYD HOSE,1/4(9/16F),23 (QT-213F)
	16604	HYD HOSE,1/4(9/16F),12 (QT-215F)
	13569	HYD HOSE,1/4(9/16F),26 (QT-217F)
25	HYC-32004	HYD CYLINDER,2 x 4
26	HYF-3820	HYD ADAPTER,9/16M-3/4Morb
27	16605	HYD HOSE,1/4(9/16F),23 (QT-213F)
	10800	HYD HOSE,1/4(9/16F),58 (QT-215F, QT-217F)
28	HYF-1089	HYD TEE,9/16M-9/16M-3/4Morb
29	10866	HYD HOSE,1/4(9/16F),34 (QT-213F)
	10800	HYD HOSE,1/4(9/16F),58 (QT-215F, QT-217F)

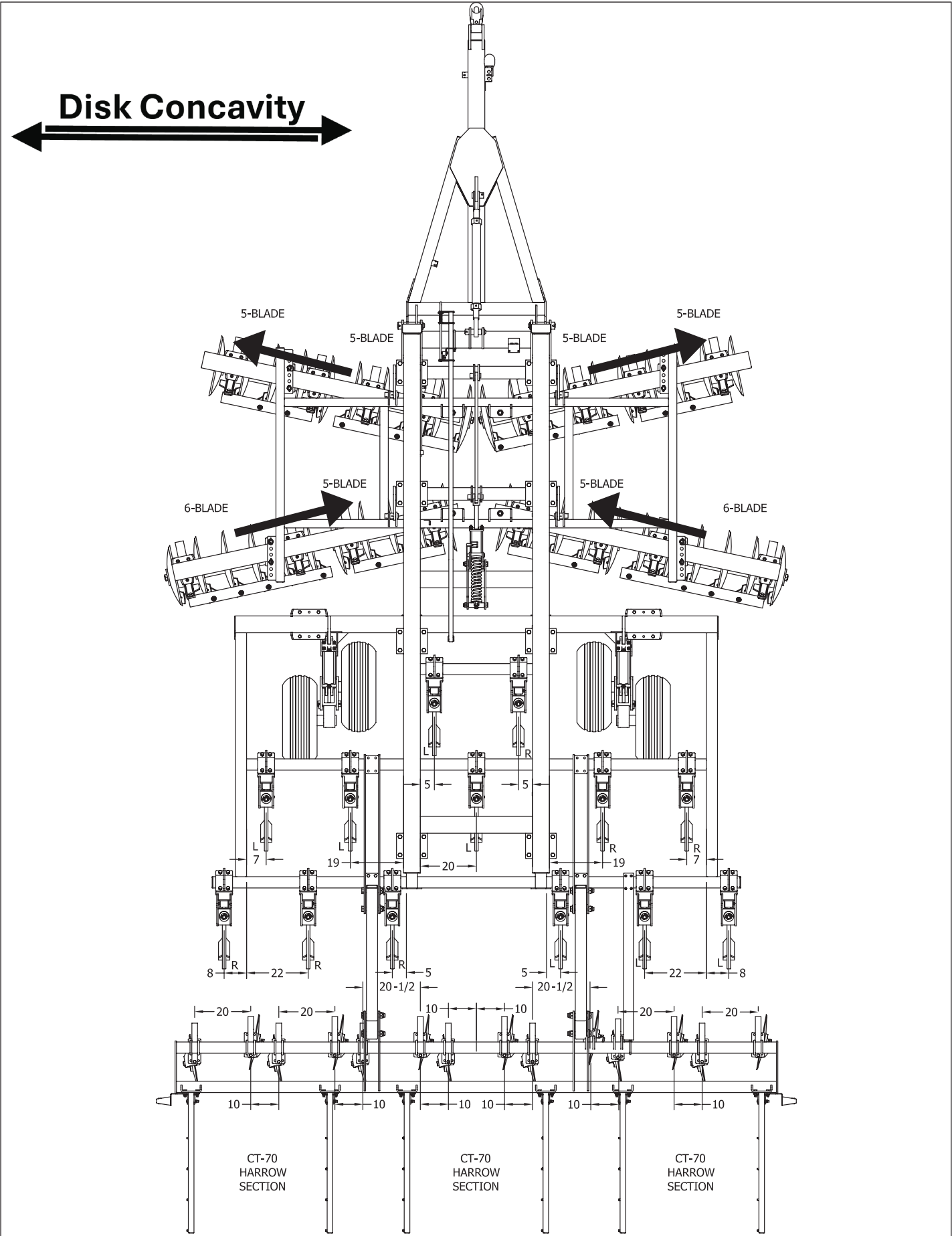
Chisel Shank Layout Diagram

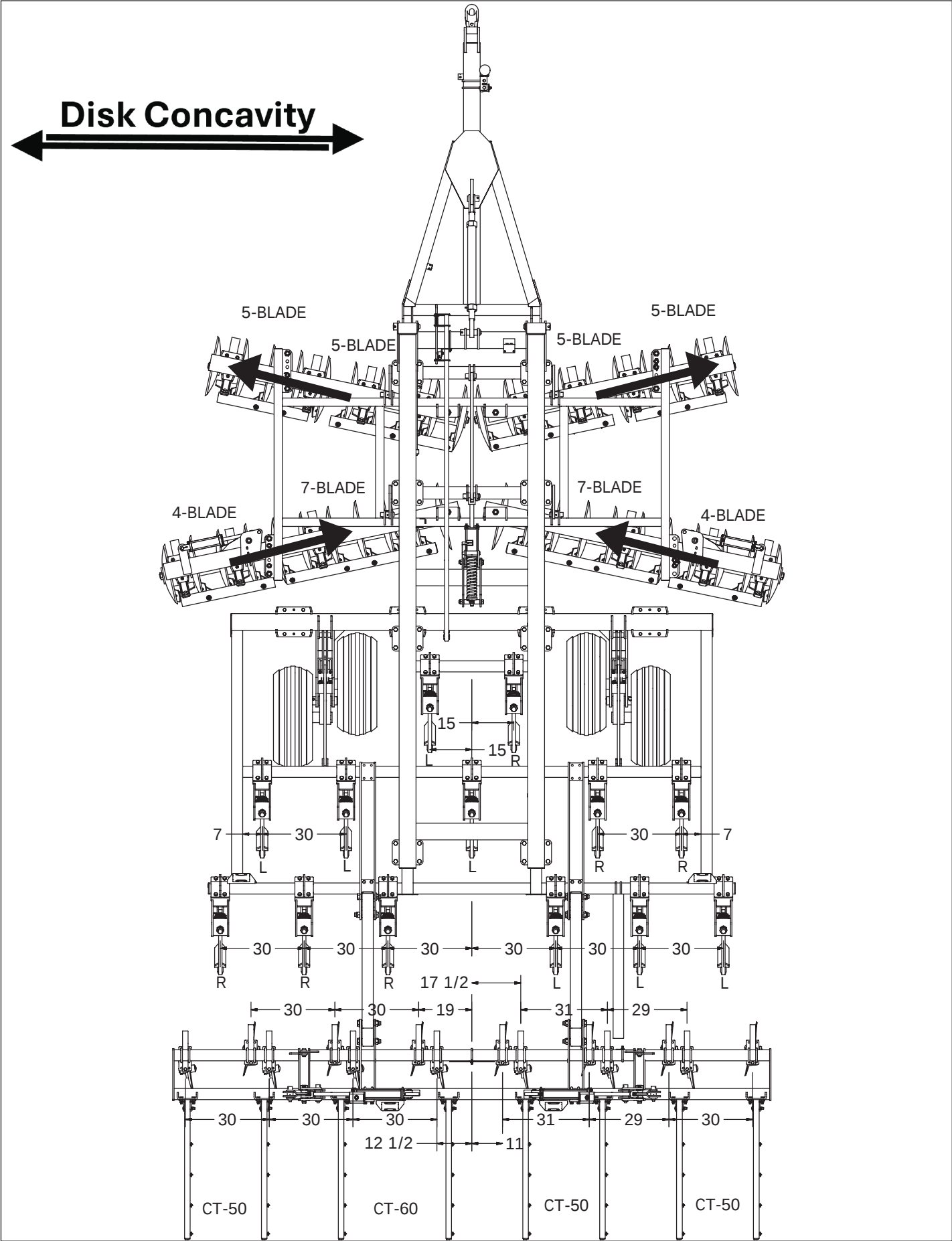
QT-207 - Shank Frame



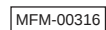






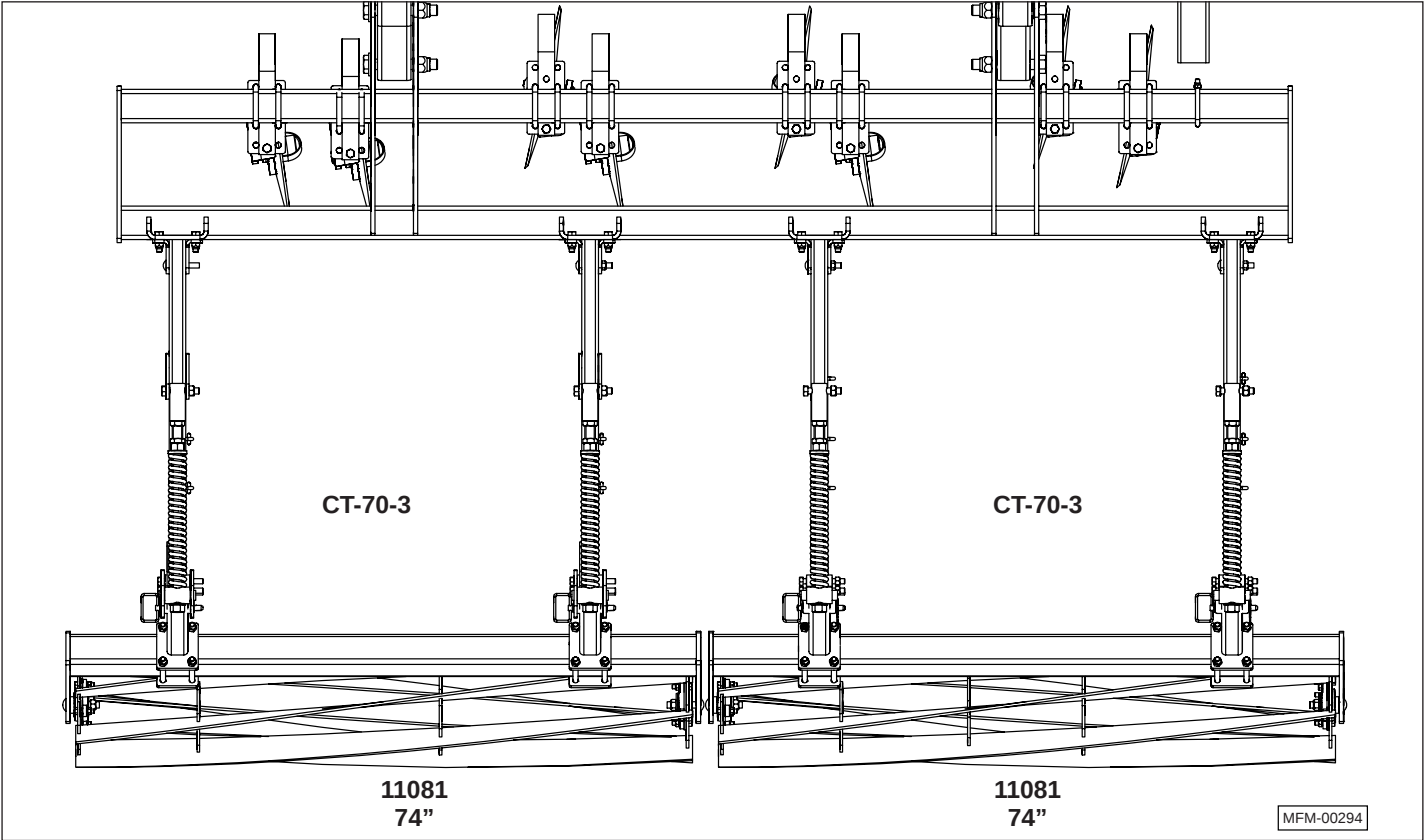




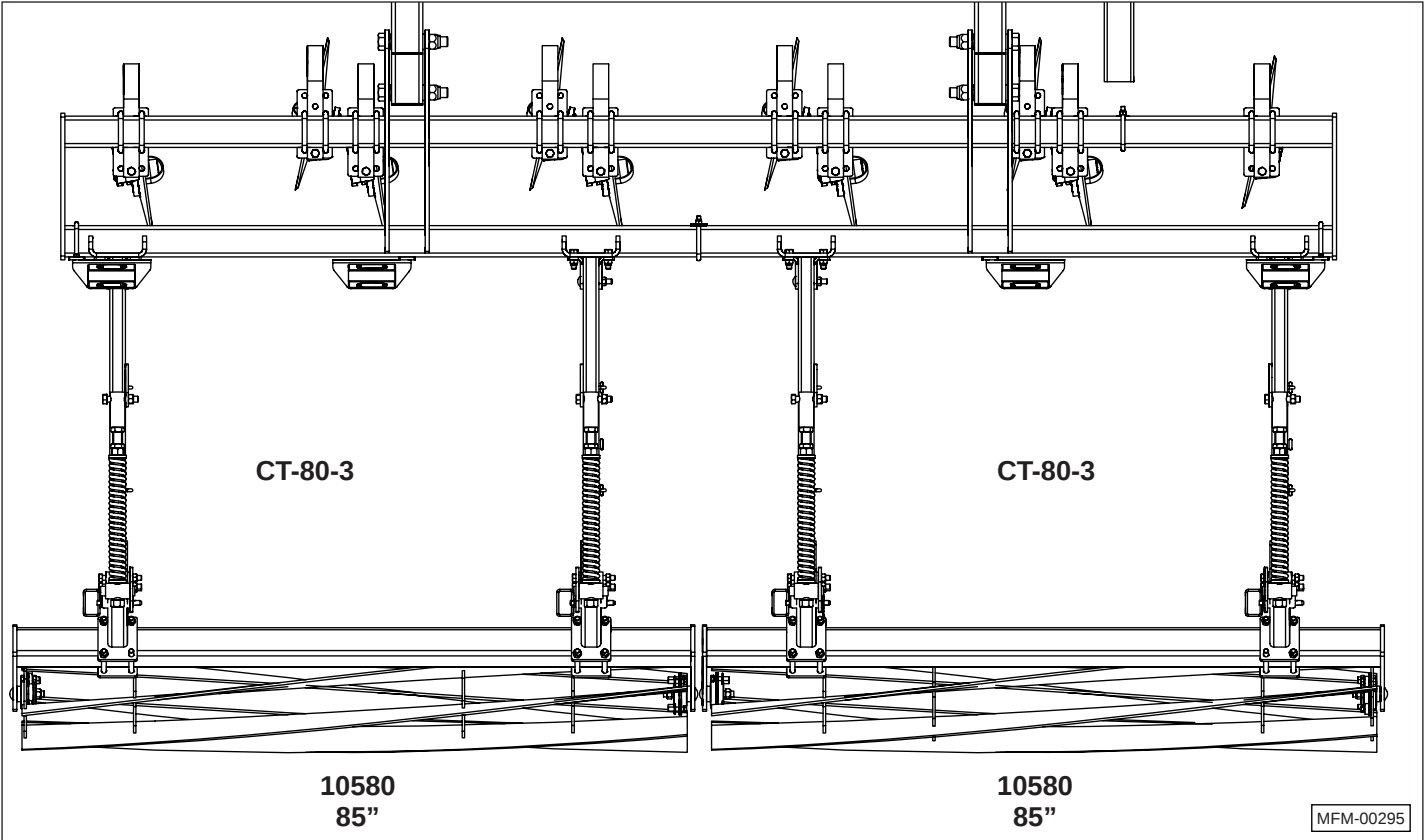


Rolling Basket Layout Diagram

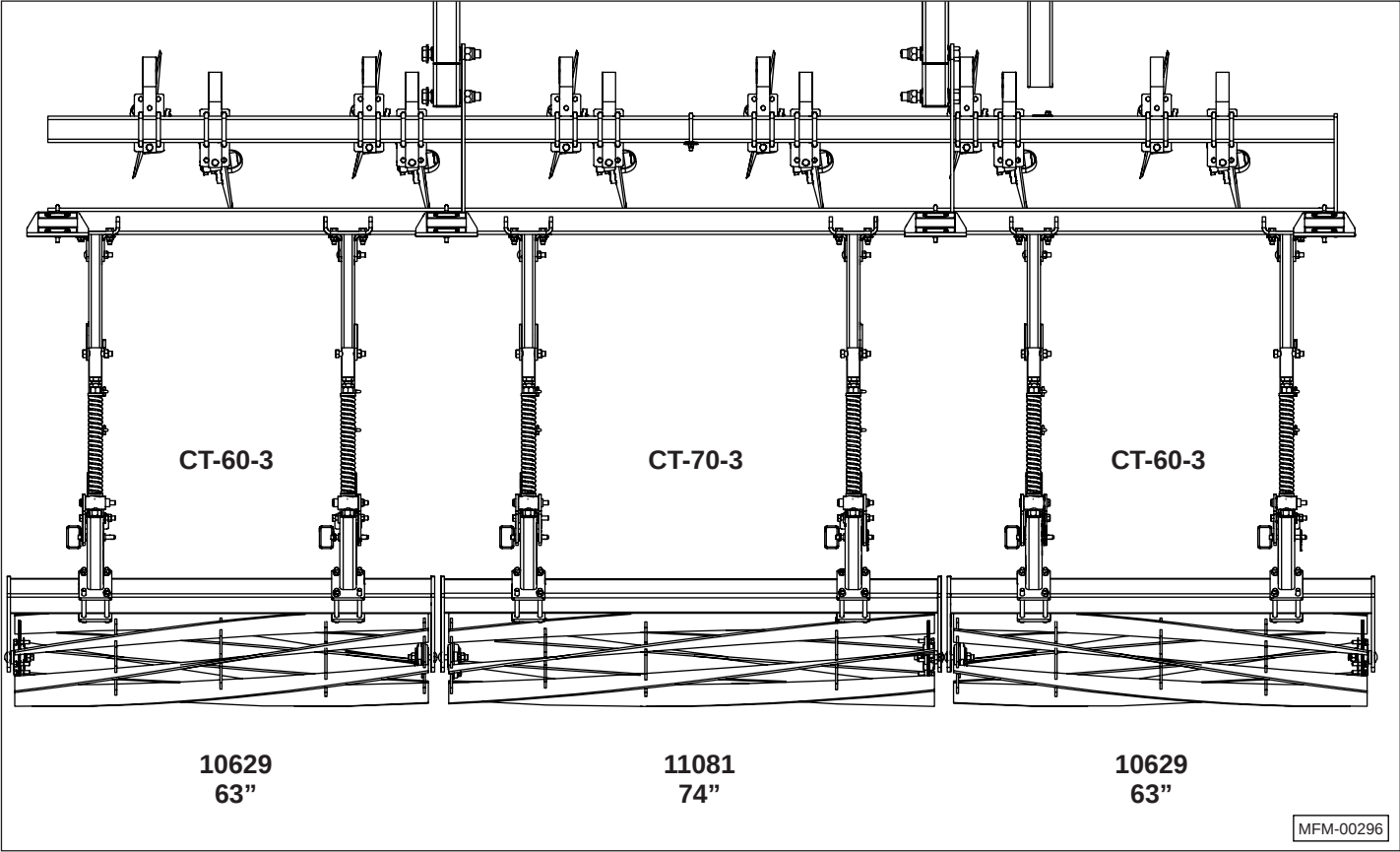
QT-207 - Rolling Basket Layout



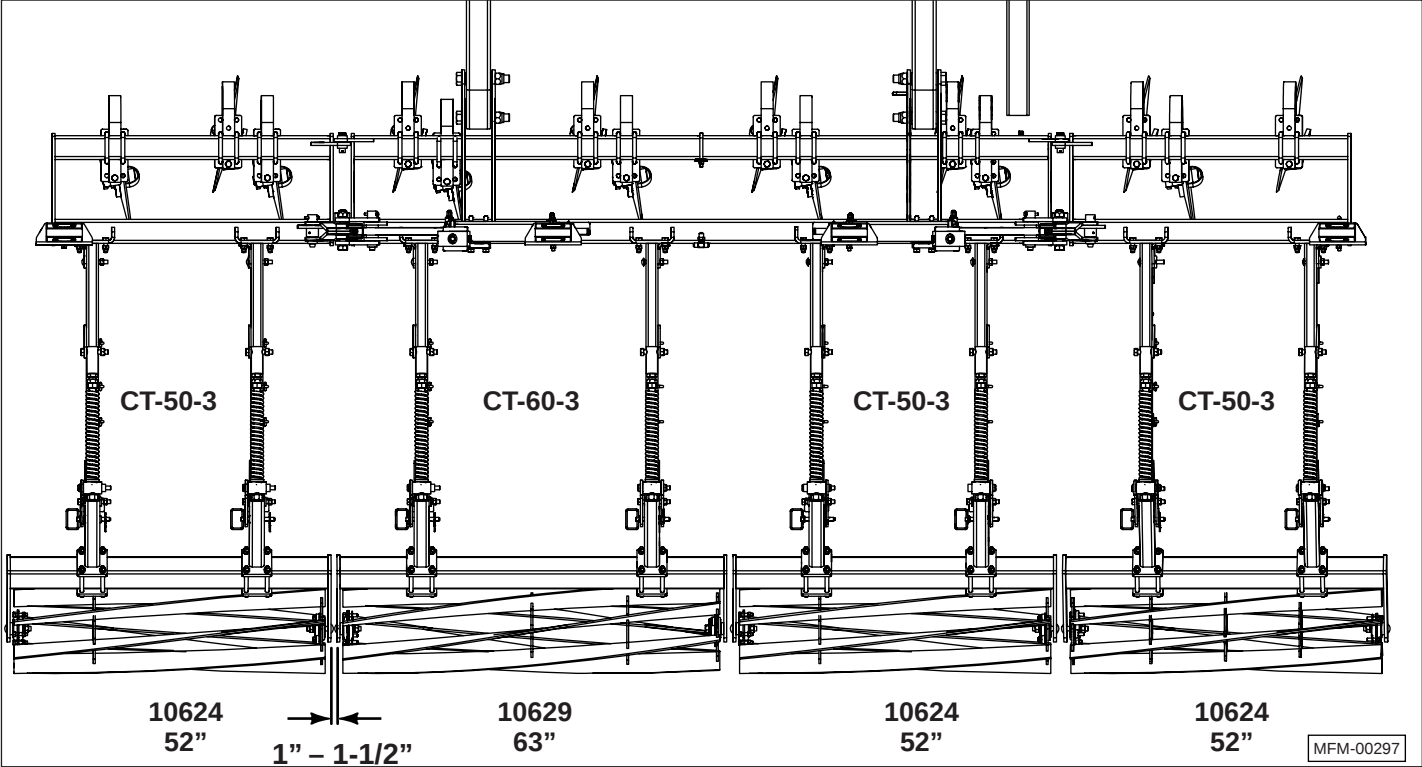
QT-209 - Rolling Basket Layout



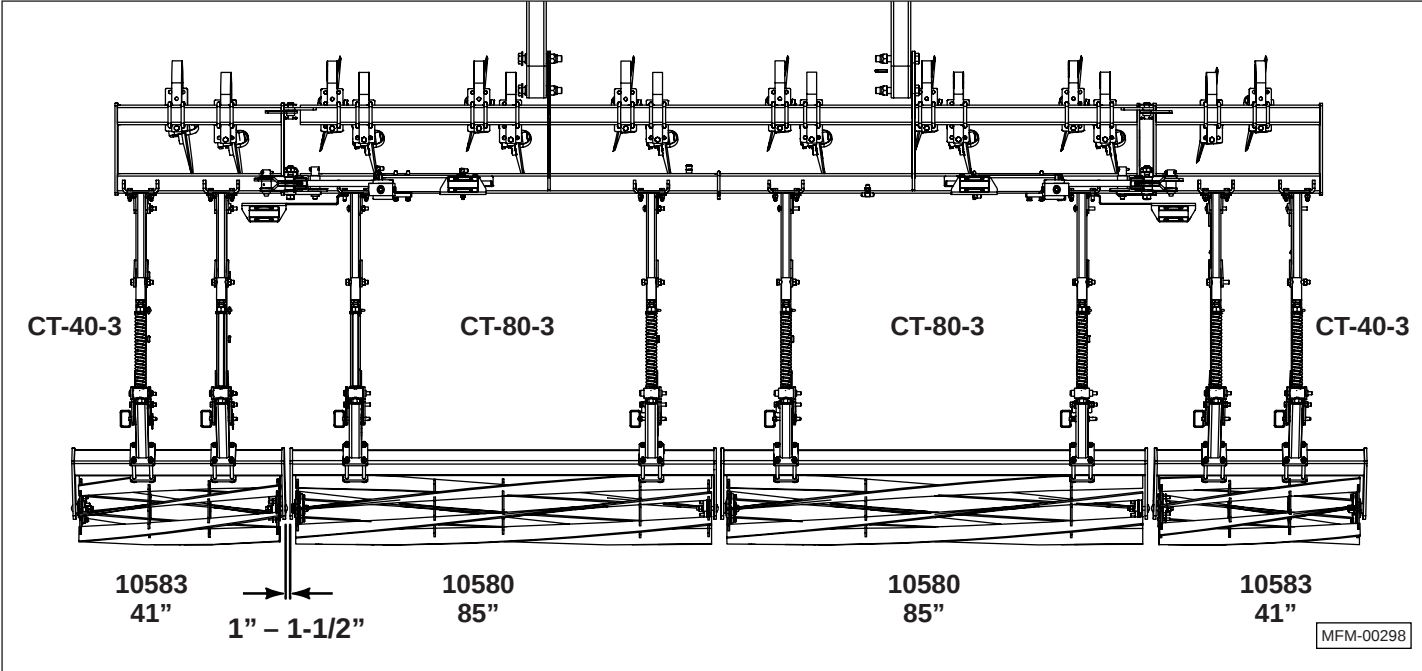
QT-211 - Rolling Basket Layout



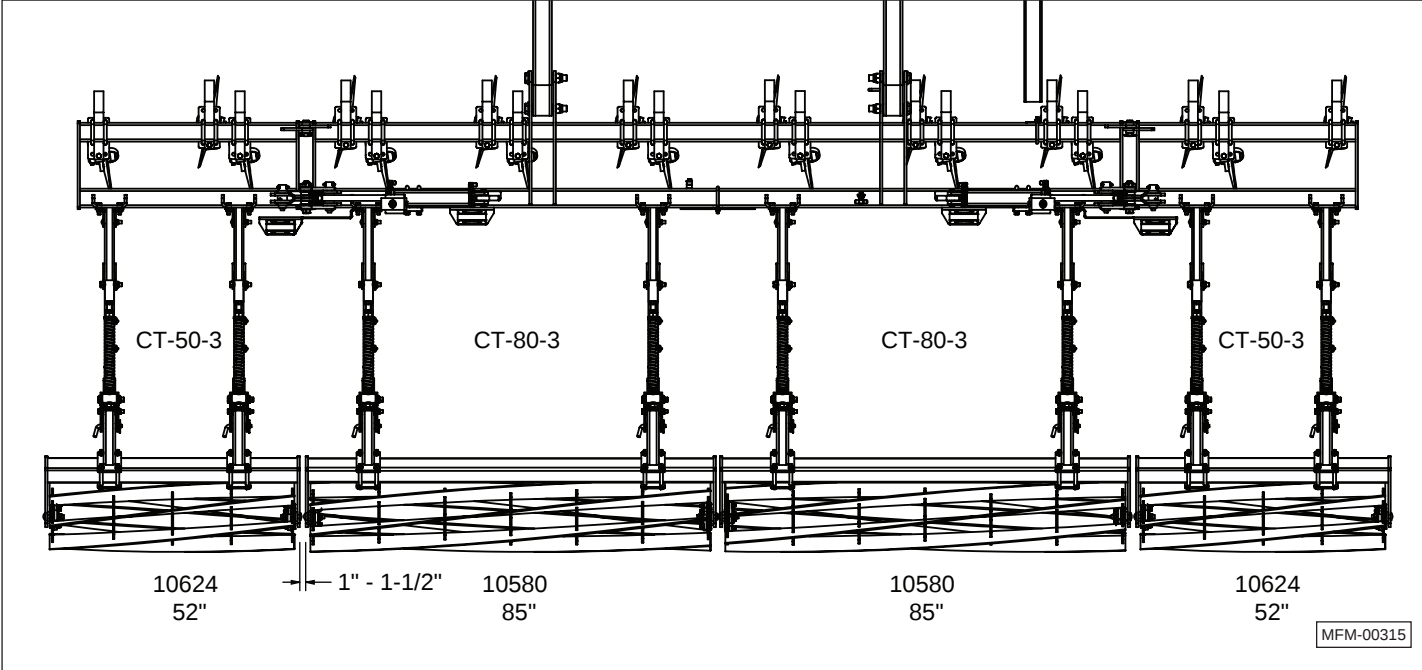
QT-213F - Rolling Basket Layout



QT-215F - Rolling Basket Layout

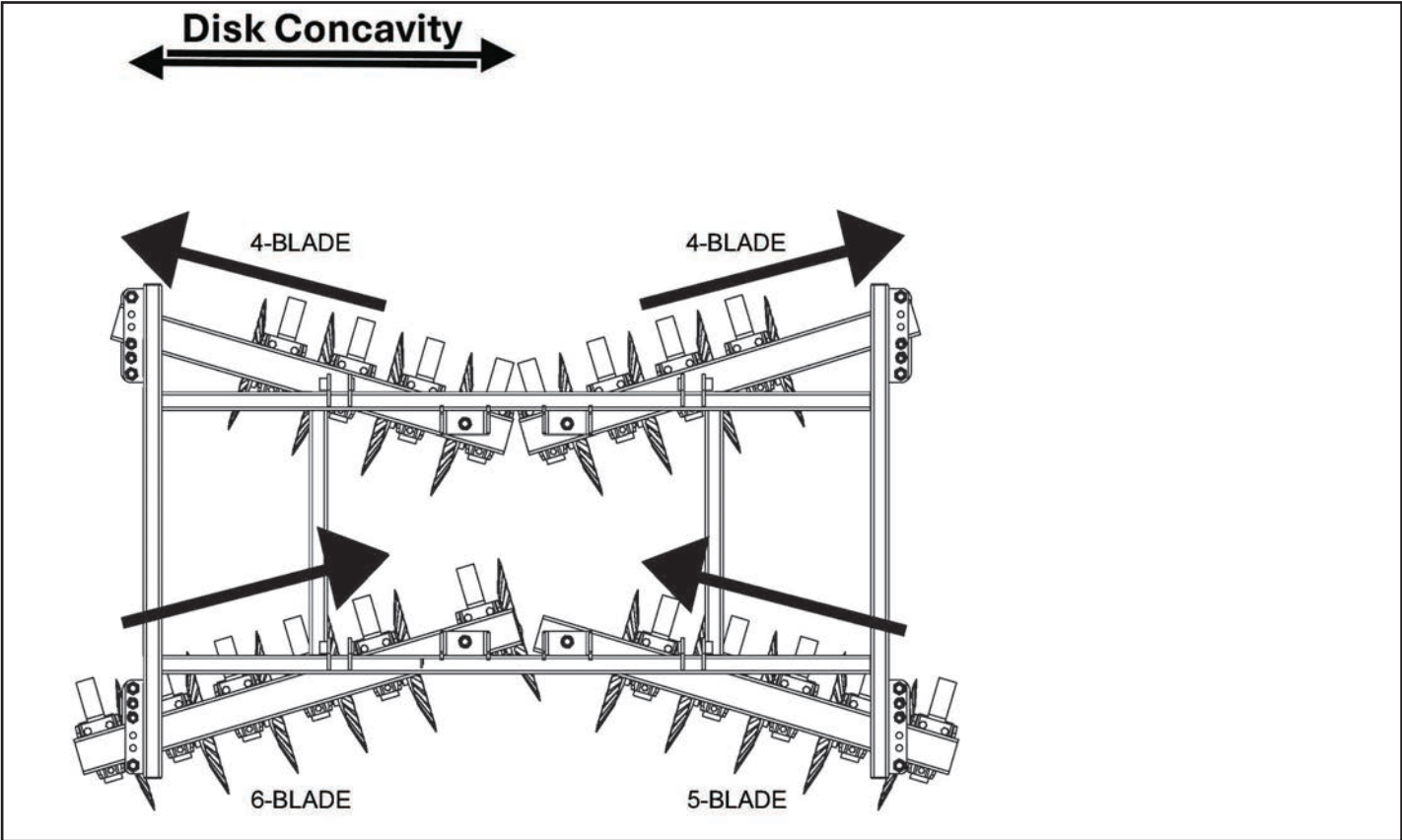


QT-217F - Rolling Basket Layout

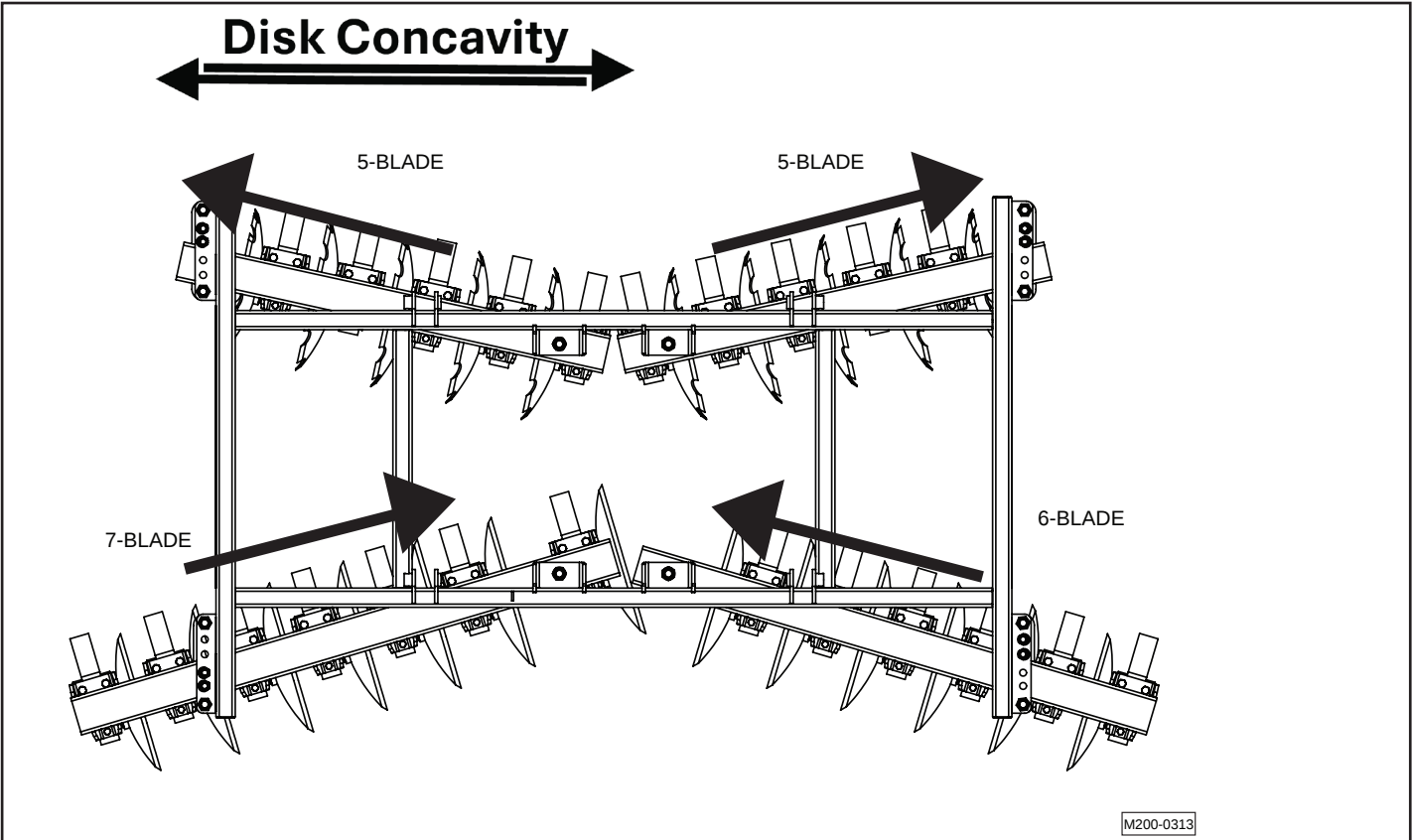


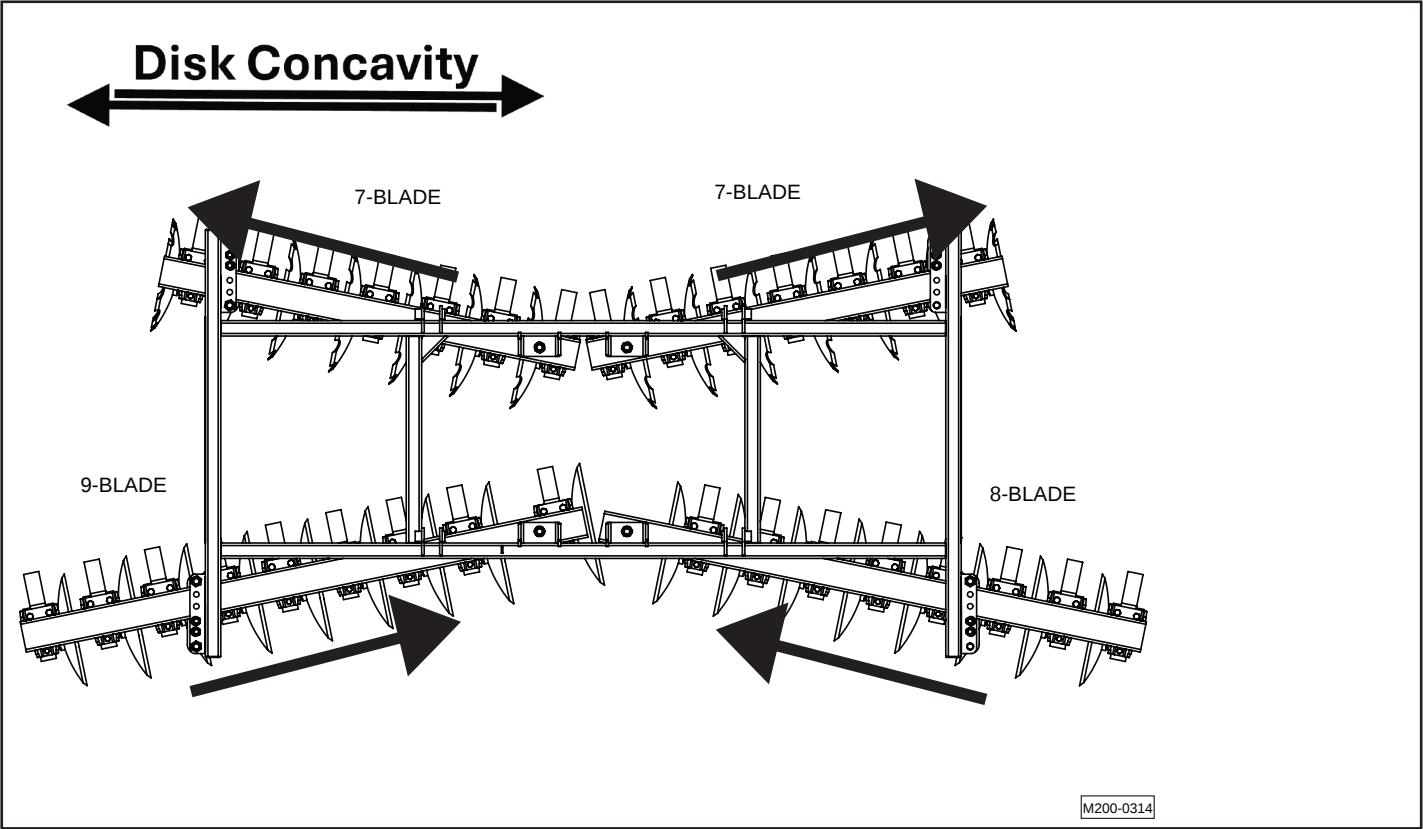
Independent Disk Blade Layout Diagram

QT-207-I Layout

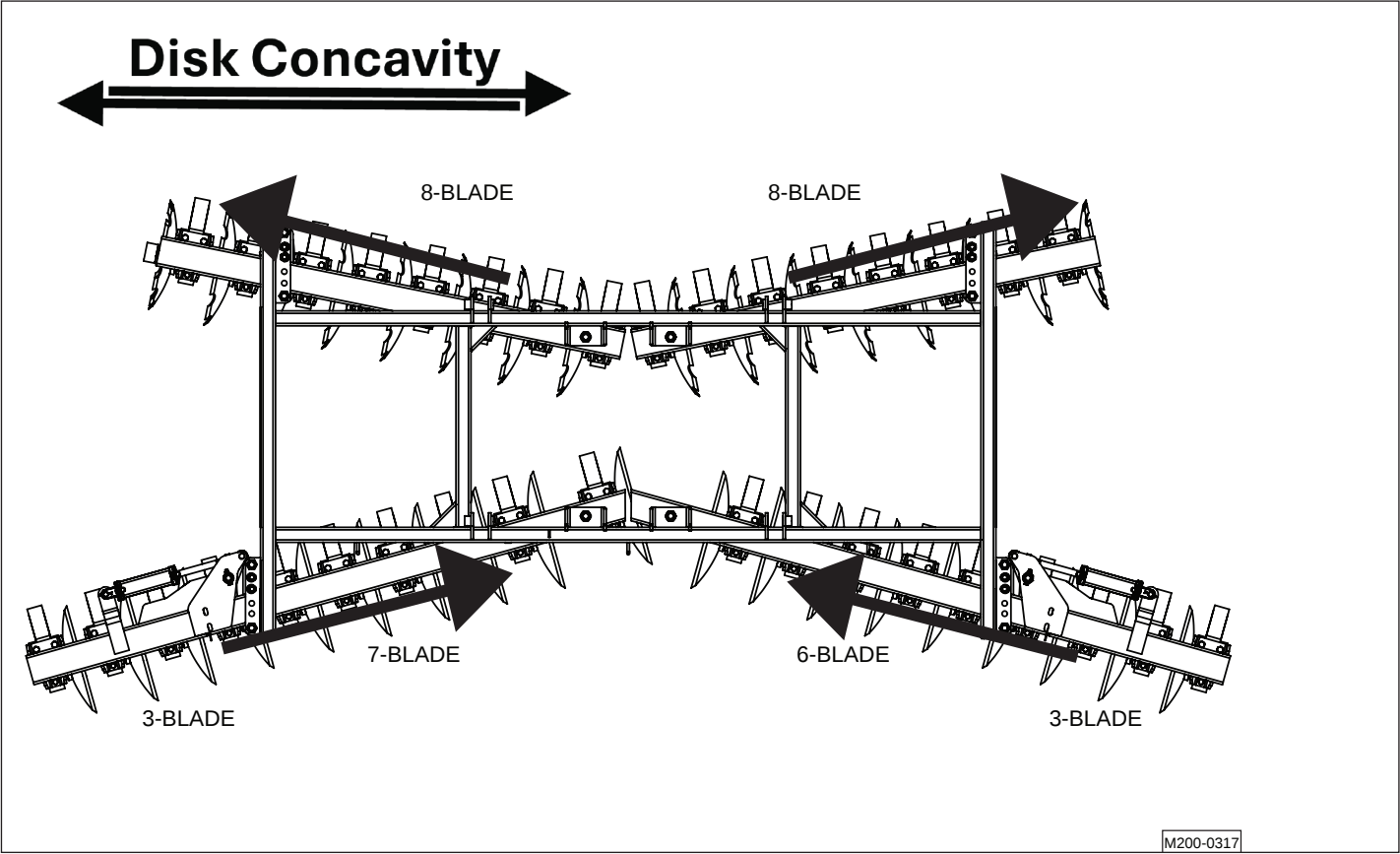


QT-209-1 Layout

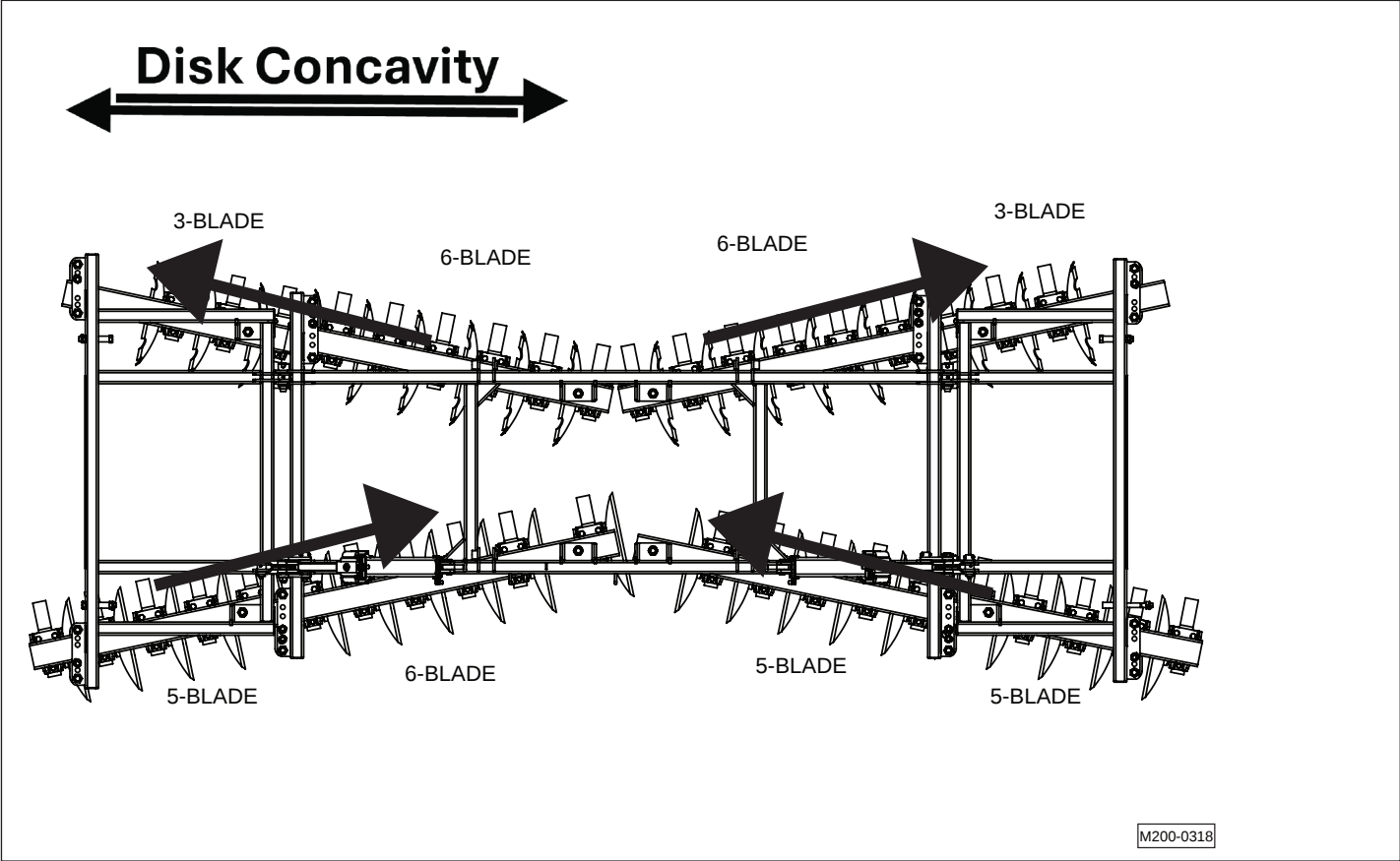


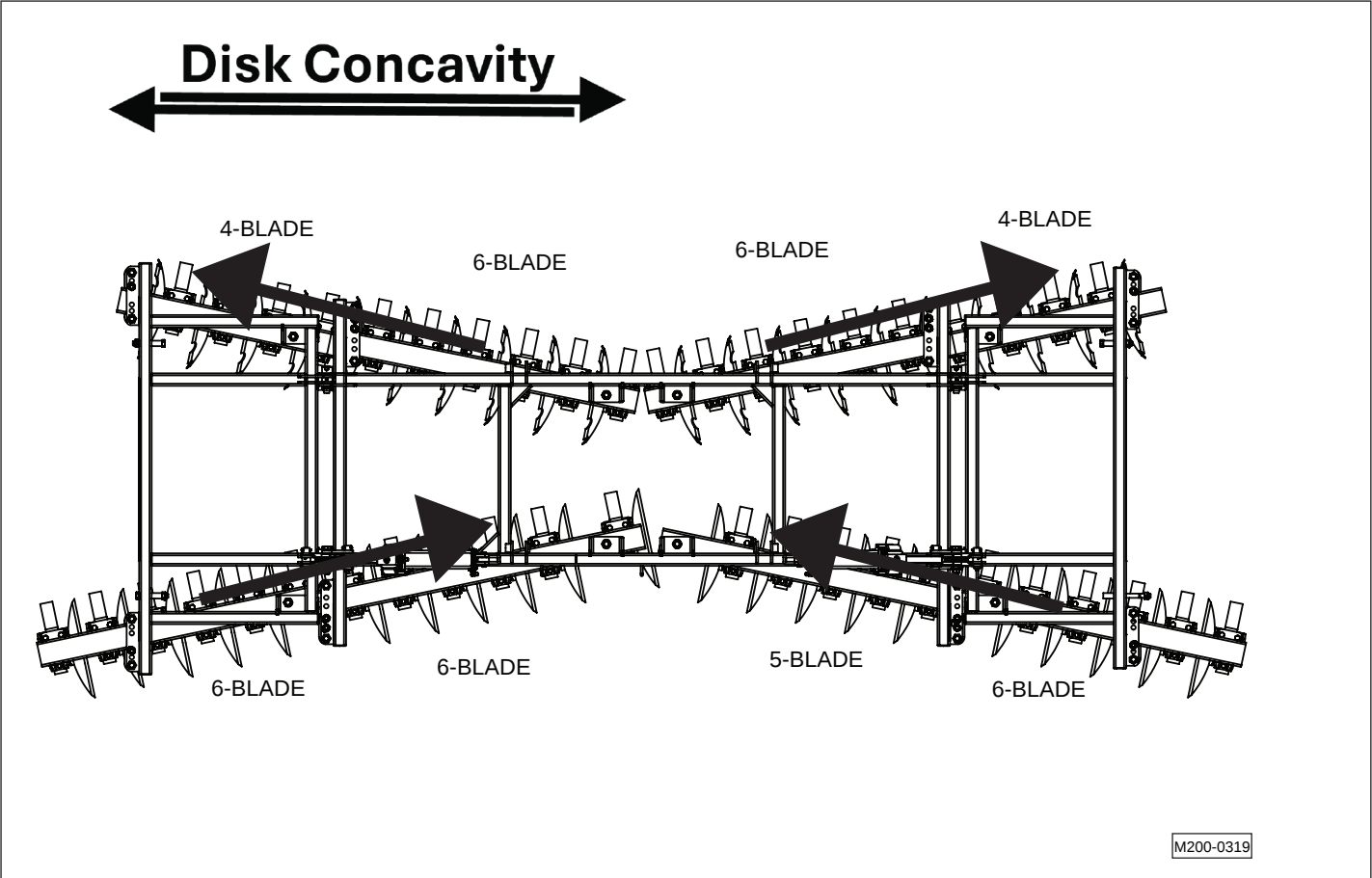


QT-213F-I Layout



QT-215F-I Layout





Dealer Contact Information



Warranty

Limited Warranty Statement

FULL ONE YEAR WARRANTY

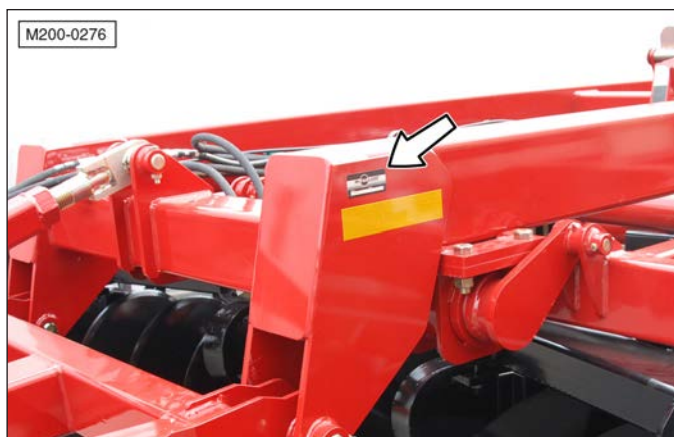
If within one year from the date of purchase, this Quadra-Till fails due to a defect in material or workmanship, McFarlane Mfg. Co., Inc. will repair it, free of charge.

Warranty service is available by simply contacting the nearest McFarlane dealership throughout the United States or Canada.

This warranty applies only while this product is used in the United States or Canada.

This warranty gives you specific legal rights, and you may have other rights which vary from state-to-state.

Serial Number Location



Scan the QR code for a
digital version of this
manual



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mcfarlaneag.com

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888-627-8569

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Quadra-III from McFarlane Mfg.