

Operation and Parts Manual



McFARLANE

UNIVERSAL TILLAGE

INCITE™ 5000 SERIES

Ensures accurate seed depth, even emergence, and better yields.



MADE IN THE USA 

Read and understand the manual. This manual provides information and procedures to safely operate and maintain the INCITE™ 5000.



Version: 11502— Serial Numbers 19928 - 20397

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Introduction

The “Incite 5000 Series Universal Tillage™ tool” from McFarlane Mfg. is our latest development in vertical tillage. With its unique ability to run in different field types, spring or fall, the Incite™ has one-of-a-kind adjustability not found anywhere else on the market. This new tool has the flexibility to adjust to different soils and different crop types going from corn to wheat with ease, saving time and money. The Incite™ is available in 12’ and 14’ wide rigid frames, as well as 20’, 24’, 27’, 32’, and 40’ folding frames. The horsepower required to pull the Incite™ is approximately eight to twelve hp per foot of width. Therefore the 12’ Incite™ requires as little as 96 hp while the 40’ requires up to 480 hp.

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) 643-3321

Toll Free: (800) 627-8569

Fax: (608) 643-3976

E-mail: info@flexharrow.com

Web: www.flexharrow.com

Serial Number Location



Serial No. _____

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 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 are subject to change without notice.

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

-  Use ROPS

Prohibited Actions

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

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
-  High-pressure fluid hazard
-  Hose damage
-  Maintain safe distance

-  Overturn hazard
-  Pinch point hazard
-  Pressure alert / check pressure
-  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 safety signs. Safety sign 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.

WARNING



Injury Hazard

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



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 "Towing" on page 15.

Operation Safety

For operating safety information, refer to "Operation" on page 22.

Assembly Safety

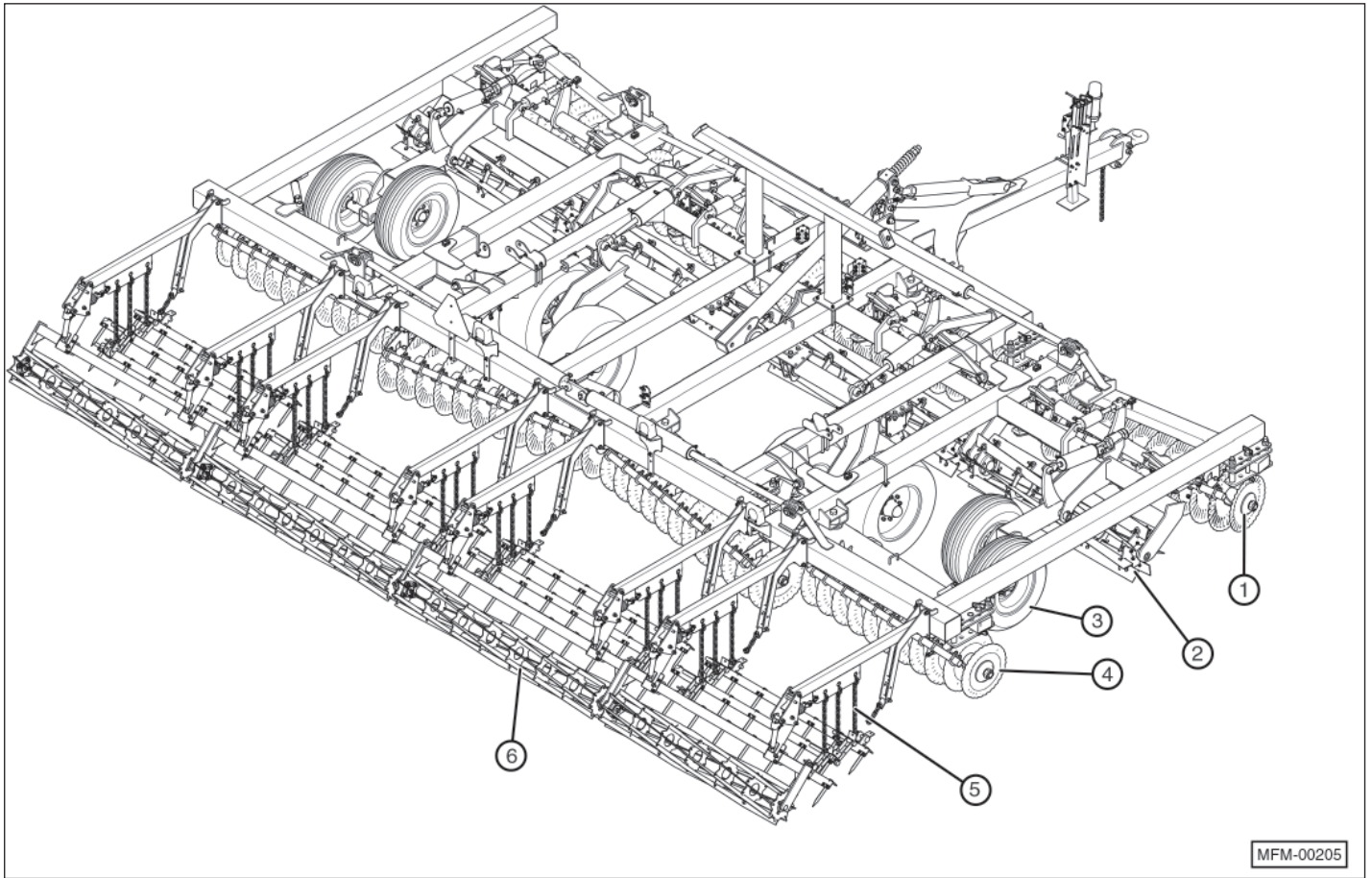
For assembly safety information, refer to the separate Assembly manual.

Maintenance Safety

For maintenance safety information, refer to "Maintenance" on page 32.

Component Nomenclature

Component Locations



The Incite™ is comprised of five components: leading disk gangs (1), spiral reels (2), dual wing wheels (if equipped), trailing disk gangs (4), three-bar harrow (5), and rolling basket (6).

Component Description



Leading Disk Gangs (1)

The ultra-shallow reverse crimped leading disk blades on 7" centers easily penetrate the soil. The disk gangs cut the residue, open the soil surface, and begin the process of incorporating the residue into the soil up to six 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 set by the depth stop handle/valve. 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 disks can be set aggressive (9°) for more soil movement to bury residue, or it can be set passive (3°) to leave more residue on the surface. The angle of the disk gang can be set using any one of three settings. To incorporate the maximum amount of residue, set the disk gang angle to the most aggressive setting of #3 (9°).

NOTICE

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



Scrapers between each disk blade are adjustable to maintain optimum disk blade performance.



Walking Dual Wing Wheels (if equipped)



The wing wheels aid in limiting the depth of the wing. They also prevent the wing from diving into the soil when encountering uneven terrain, such as a ditch.

Wing wheels should be adjusted to carry some of the wings weight, but not enough to prevent the wing from reaching the depth of the main frame components. Wing wheels should be adjusted so that the disk gangs on the wing sections cut to the same depth as the gangs on the main frame.

Spiral Reels (2)

Following the disk gangs is a bank of seven-blade, 18 inch diameter spiral reels that crosscut the residue and further mix it into the soil, aiding in decomposition.

The spiral reels have a hydraulic height adjustment. They can be run from even with the bottom of the disk blades up to completely out of the ground.



Trailing Disk Gangs (3)

The ultra-shallow reverse crimped trailing disk blades on 7" centers easily penetrate the soil. The disk gangs cut the residue and continue the process of incorporating the residue into the soil up to six inches deep. Adjusting the angle and depth of the disk gangs controls the sizing and incorporation of the residue.



The depth of the disk gang is set by the depth stop handle/valve. 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 disks can be set aggressive (9°) for more soil movement to bury residue, or it can be set passive (3°) to leave more residue on the surface. The angle of the disk gang can be set using any one of three settings. To incorporate the maximum amount of residue, set the disk gang angle to the most aggressive setting of #3 (9°).

Three-Bar Harrow (4)



To produce a firm and level seedbed for optimum seed germination and yields, the 3-bar spike harrow follows the trailing disk gangs. The heavy-duty harrow follows the ground contour closely and is flexible enough to allow residue to flow through it. It also breaks up large pieces of soil and disperses the residue evenly across the tillage area.

There are three attachment points for the pull chains on the harrow section. Moving the attachment point will either cause the section to lay more flat (less aggressive), or will cause the teeth to stand more upright (more aggressive).

In situations that do not require the extra leveling of the harrow section, such as heavy fall residue, the sections can be removed or raised above the ground level.

Rear Roller Baskets (5)

The final operation of the Incite™, for the perfect seedbed, is the 12 inch diameter rolling basket. The rolling basket features eight, high-carbon flat bars with adjustable down pressure to make it aggressive for clod sizing and firming or passive for soil separating and conditioning.



Specifications

Hydraulic Requirements

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

Horsepower Range

IC-5012 — 96 to 144
IC-5014 — 120 to 180
IC-5020 — 160 to 240
IC-5024 — 192 to 288
IC-5027 — 212 to 318
IC-5032 — 256 to 384
IC-5040 — 320 to 480

Tillage Depths

Disk gang depth up to 6" (15.2 cm)

Tongue Weight

(lb)

IC-5012 — 458
IC-5014 — 620
IC-5020 — 840
IC-5024 — 1080
IC-5027 — 1100
IC-5032 — 1100
IC-5040 — 1450

Overall Weight

(GVWR) (lb)

IC-5012 — 9168
IC-5014 — 10,700
IC-5020 — 17,320
IC-5024 — 19,700
IC-5027 — 20,920
IC-5032 — 25,220
IC-5040 — 30,730

Transport Width

IC-5012 — 13'9"
IC-5014 — 14'10"
IC-5020 — 13'8"
IC-5024 — 13'8"
IC-5027 — 15'7"
IC-5032 — 15'7"
IC-5040 — 17'10"

Transport Height

IC-5012 — N/A
IC-5014 — N/A
IC-5020 — 10'6"
IC-5024 — 12'
IC-5027 — 11'5"
IC-5032 — 13'6"
IC-5040 — 11'7"

Working Tillage Width

(Cut Width)

IC-5012 — 12'5"
IC-5014 — 13'6"
IC-5020 — 20'5"
IC-5024 — 23'5"
IC-5027 — 26'6"
IC-5032 — 32'1"
IC-5040 — 39'7"

Field Capacity

(acre/hr @ 6-9 mph)

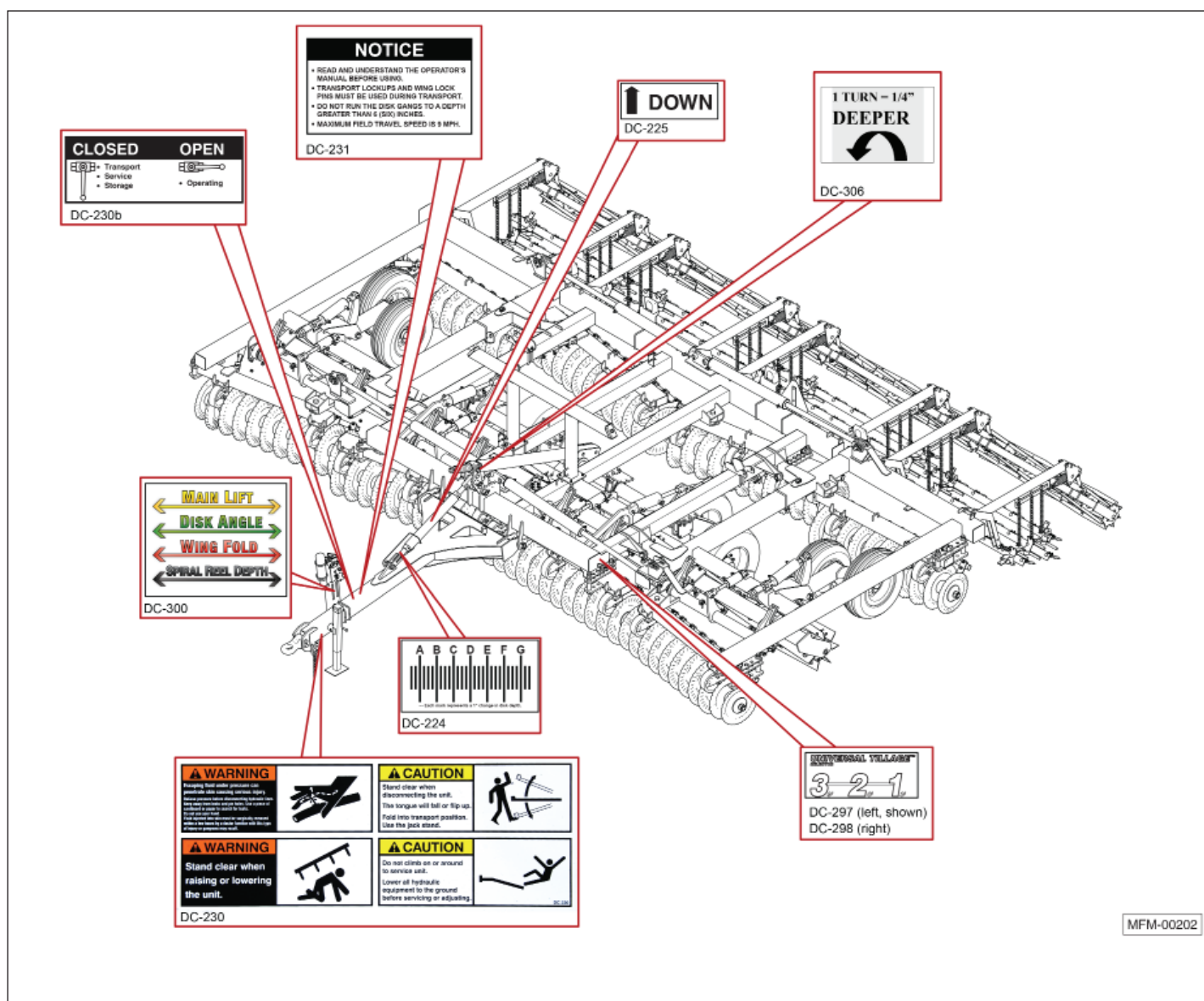
IC-5012 — 7-11
IC-5014 — 8-12
IC-5020 — 12-18
IC-5024 — 14-22
IC-5027 — 16-24
IC-5032 — 19-29
IC-5040 — 24-36

Towing Speed

Towing speeds should not exceed 20 mph (32 kph).
Field operating speeds should be 7 to 9 mph
(11 to 14 kph).

Safety Signs and Decals

- 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 appropriate regulations. Add extra lights when transporting at night or during periods of limited visibility, if necessary.
- 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 instructional decals on your equipment. Observe all safety signs and follow the instructions on them.
- Replacement parts that display a safety sign should display the same sign.
- Make sure the safety signs and other instructional 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.



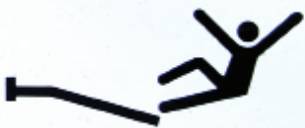
⚠ CAUTION

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.



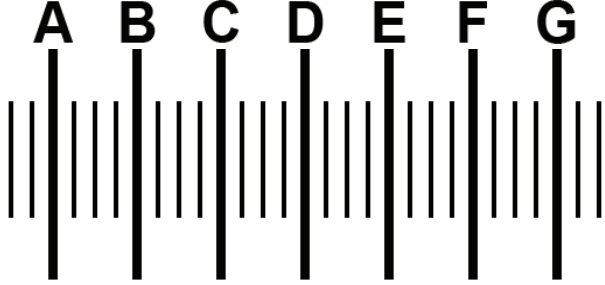
DC 230

NOTICE

- READ AND UNDERSTAND THE OPERATOR'S MANUAL BEFORE USING.
- TRANSPORT LOCKUPS AND WING LOCK PINS MUST BE USED DURING TRANSPORT.
- DO NOT RUN THE DISK GANGS TO A DEPTH GREATER THAN 6 (SIX) INCHES.
- MAXIMUM FIELD TRAVEL SPEED IS 9 MPH.

DC-231

A B C D E F G




↔ Each mark represents a 1" change in disk depth.

MAIN LIFT

DISK ANGLE


WING FOLD

SPIRAL REEL DEPTH




DC-300

1 TURN = 1/4" DEEPER



DC-306

CLOSED **OPEN**



DC-225

↑ DOWN

DC-225

UNIVERSAL TILLAGE™ SELECTOR

3⁹ 2⁶ 1³

DC-297 (LH) — DC-298 (RH)

Assembly

Refer to the separate assembly manual for complete assembly instructions.



The assembly process consists of attaching the hitch to the main frame and attaching the lift arm/rolling basket subassemblies to the frame. The approximate time required is 1 to 2 hours for 12' to 20' models, 2 to 3 hours for 24' to 32' models, and 3 to 4 hours for 40' model.

Towing

General Safety

SAFETY INSTRUCTIONS



Towing the Incite™ requires care! Both the unit and tow vehicle must be in good working condition. Securely attach the unit to the tow vehicle using 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 "Specifications" on page 12.



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



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



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. Refer to "Tire and Lug Torque Specifications" on page 34.



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 unit.



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





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 (32 KPH) on a public roadway.
-  Remember, tires supplied by the manufacturer are designed to operate **NO MORE THAN 20 mph**. Do not exceed the maximum speed or tire failure may occur.

Highway and Transport Operations

SAFETY INSTRUCTIONS

-  Make sure the wheel lift cylinder transport locks are installed, the wing lock pins are in place, 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, or other 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.
- When driving the tractor and equipment on the road or highway, use flashing amber warning lights and a slow moving vehicle (SMV) identification emblem.
- Some localities prohibit the use of flashing amber lights. Local laws should be checked for all highway lighting and marking requirements.
- 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 load restrictions. Do not cross bridges rated lower than the gross weight at which you are operating.
- Watch for overhead obstructions and side clearances 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 "Tire and Lug Torque Specifications" on page 34.
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 or abnormal wear when hooking up.



⚠️ WARNING



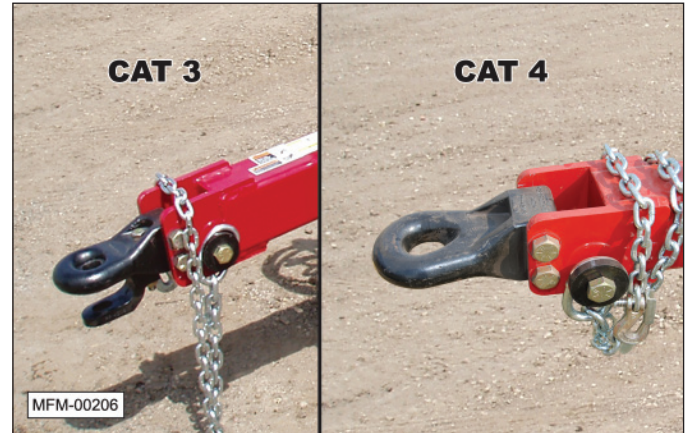
Substandard Parts Hazard

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 or Category 4 hitch is securely installed and matches the tow vehicle.

Note: A Category 5 hitch (not shown) is also available.



⚠️ WARNING



Unexpected Separation Hazard

If the safety chain does 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 lights and taillights is properly connected and not touching the road, but loose enough to make turns without disconnecting or damaging the wires. Refer to Step "6. Disconnect the electrical connection for the rear lights from the storage socket." on page 21.
7. Prior to towing, 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 in place around the cylinder rods. Refer to Step “5. Remove the yellow transport locks from the storage brackets and place over the wheel lift cylinder rods. Insert and lock the retaining pin.” on page 31.

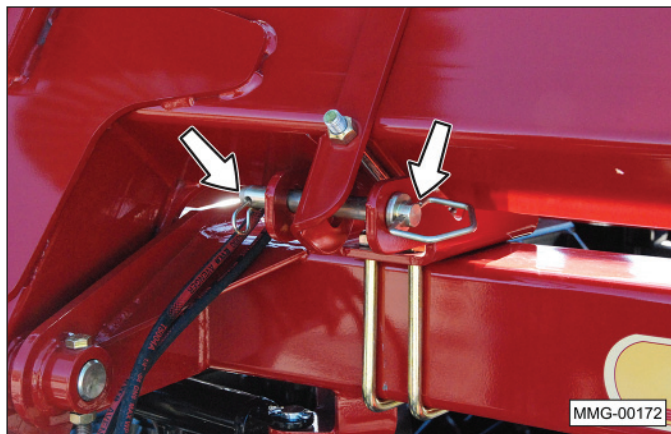


Transport lock secured over cylinder rod.

10. Make sure the jack stand is raised and locked in the storage position. Refer to Step “3. Remove the jack stand and rotate into its storage position, or remove it and secure it on its storage location on top of the tongue, as shown.” on page 20.



11. Make sure the wing lock pins are in place. Refer to Step “4. Install the wing fold lock pins and bridge pins.” on page 31.



Incite™ Universal Tillage™ from McFarlane Mfg.

12. Check mirrors of the tow vehicle to make sure you have good visibility.
13. Check routes and restrictions on bridges and tunnels.
14. Make sure the hydraulic hoses are connected. Refer to Step “4. Remove the eight hydraulic hoses from their storage position.” on page 21.

Hook-Up to Tractor



Safety

⚠ WARNING



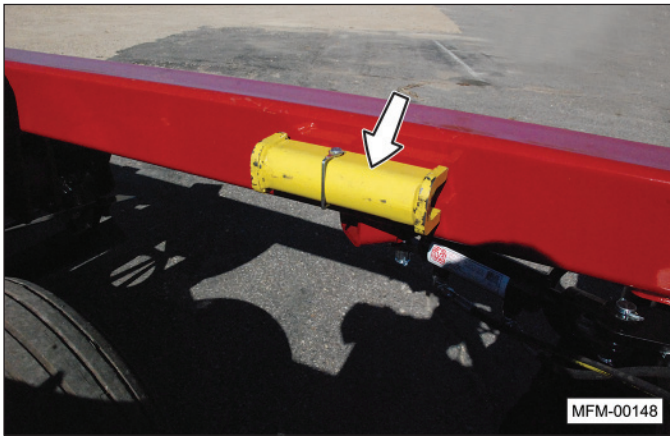
Make sure that anyone who will be operating the unit, or working on or around the unit, reads and understands all the operating, maintenance, and safety information in the operator's manual and other related OEM equipment manuals before using or towing the unit.

Prior to Connecting Unit

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



Transport lock secured over cylinder rod.



Transport lock secured in storage position.

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 can be up to 1450 lbs. (658 kg.). 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 from the unit to the tractor during towing or operation of the unit.

SAFETY INSTRUCTIONS



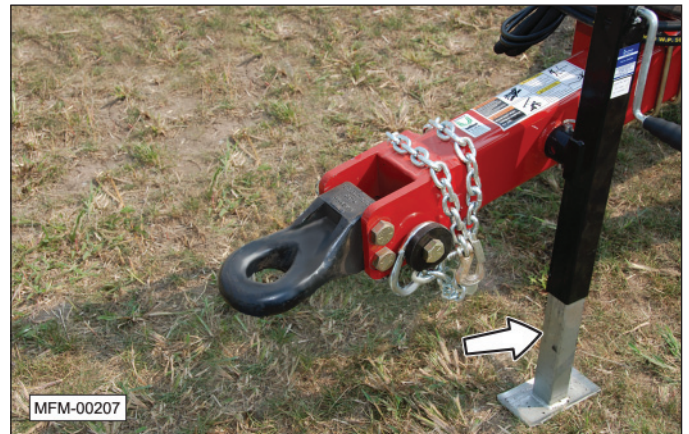
Inspect the chain before each use for wear or damage.



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 ranges from approximately 458 lbs. (208 kg.) for the IC-5012 to 1450 lbs. (658 kg.) for the IC-5040.



Note: If a drawbar pin is used, it should be an OEM certified pin and retainer clip. On Category 3 pintle hitches use a 1-1/2" (38 mm) pin. On Category 3 clevis hitches use a 1-1/4" (32 mm) pin. On Category 4 pintle hitches use a 2" (51 mm) pin.

⚠️ WARNING



Unexpected Separation Hazard

If towing the unit with a drawbar, use only a 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.

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

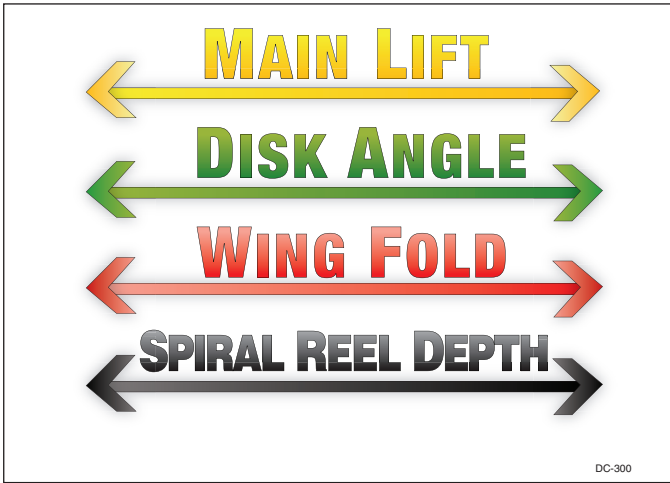
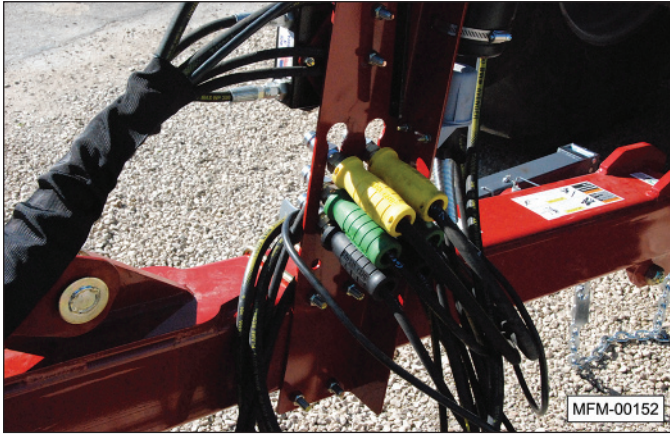


Note: When connected, make sure the retaining plate securely locks the chain link in place.

3. Remove the jack stand and rotate into its storage position, or remove it and secure it on its storage location on top of the tongue, as shown.



- Remove the eight hydraulic hoses from their storage position.



- Connect the hydraulic hoses to the proper ports on 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.

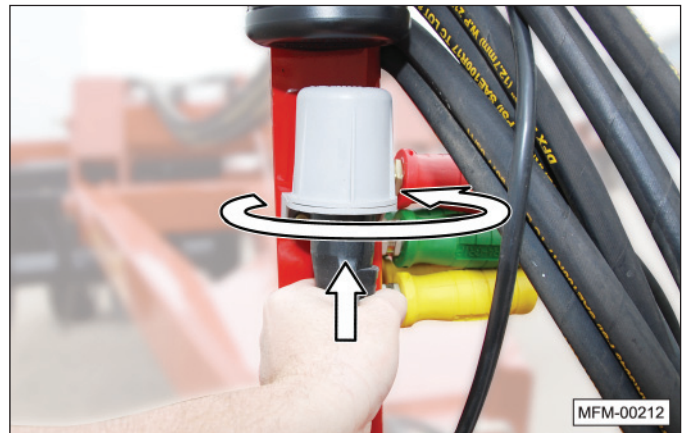
- Disconnect the electrical connection for the rear lights from the storage socket.



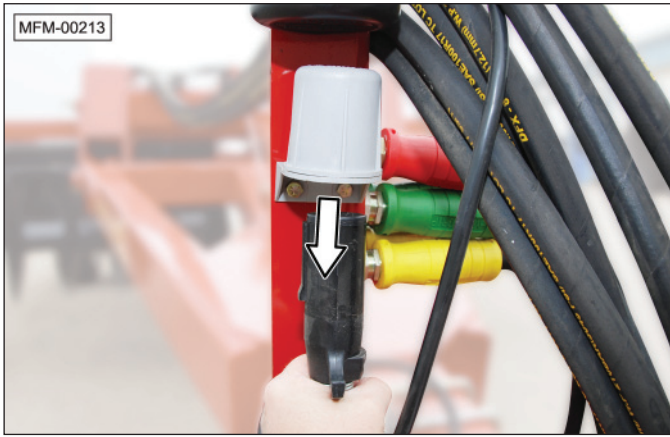
- Rotate the plug.



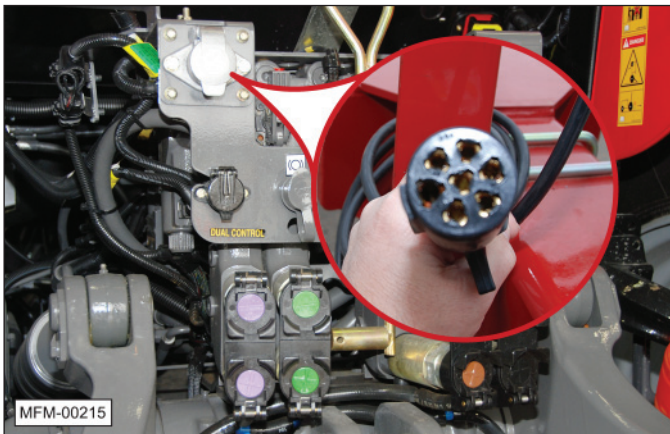
- Push the plug upward and slightly rotate it again to release it from the socket.



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 most level route possible when transporting across fields. Avoid the edges of ditches, gullies, or 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. The side loads generated can cause damage to the ground engaging implements.

DO NOT operate the unit in frozen ground. This can damage the spiral reels and rolling baskets.

Initial Setup

The McFarlane Incite™ Universal Tillage™ tool is designed to handle a wide variety of field conditions. It has many adjustments that can be made to optimize the efficiency 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.

⚠ 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.



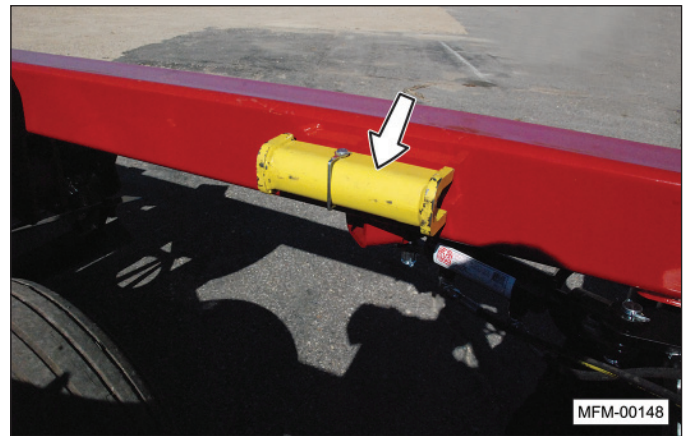
Sharp Object Hazard

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.

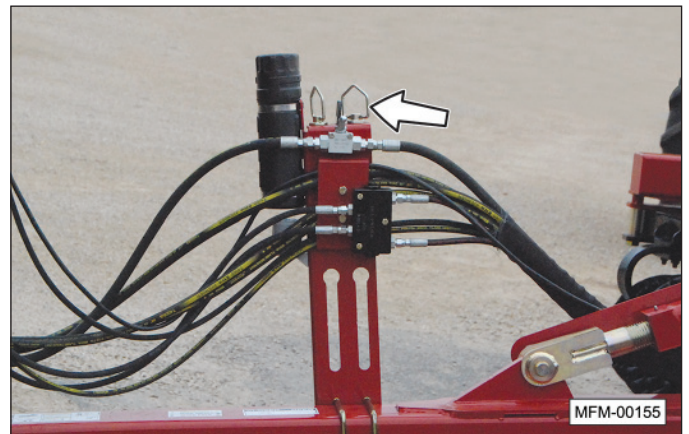
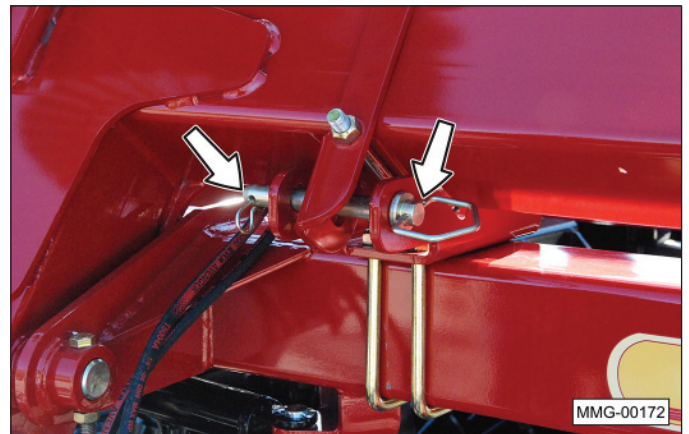
1. If necessary, raise the unit and release the transport locks from both wheel lift cylinders.



2. Place the transport locks on their storage brackets and fasten the retaining pins.



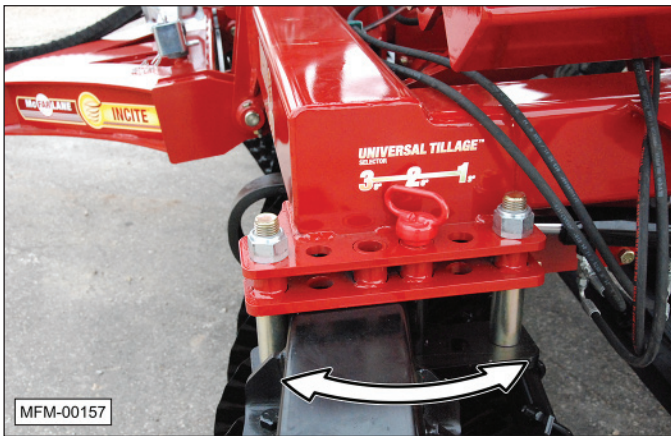
3. If equipped with wings, remove the wing fold lock pins and store them on the hitch storage bracket.



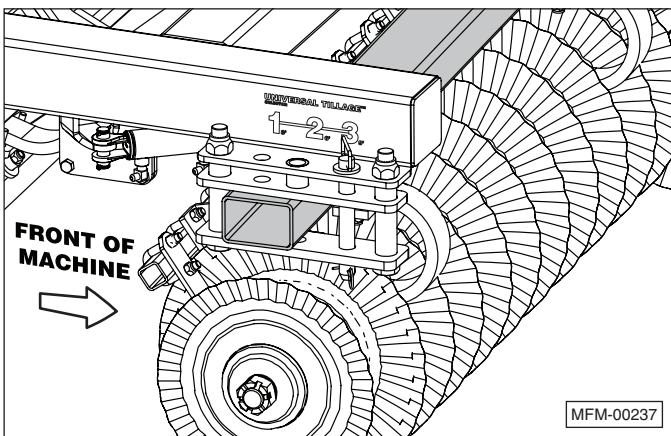
4. Unfold the disk gang wings.



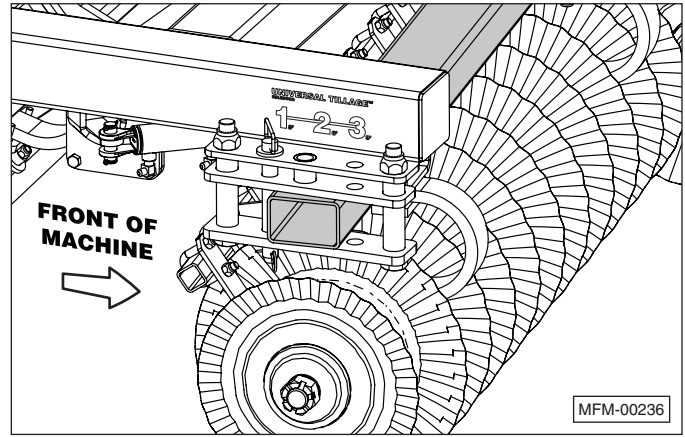
5. Adjust the disk gang angle to one of three available positions. This photo shows the disk gang set in the #3 position.



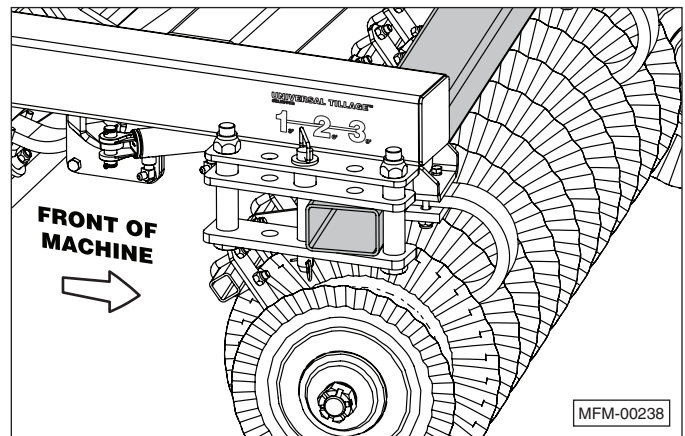
a. The #1 position (3°) is the least aggressive setting and is typically used with higher speeds and smaller amounts of residue.



b. The #2 position is more aggressive at a (6°) angle.



c. The #3 position (9°) 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.



Note: On models with wings, make sure the disk gang wing is unfolded before starting the adjustment procedure.

⚠ WARNING

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



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



Set parking brake on tractor. Block wheels of unit.

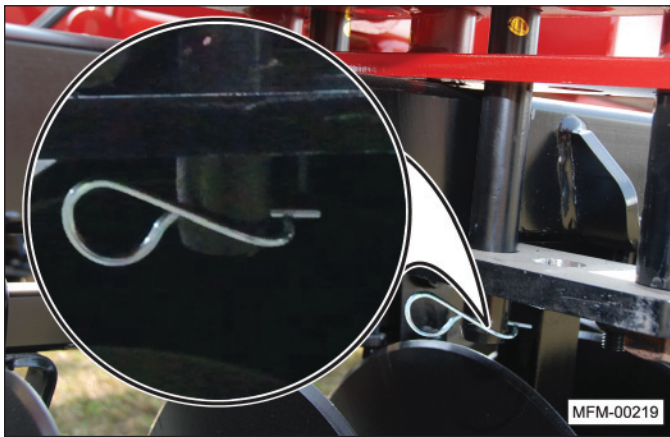
6. Lower disk gang close to the ground but not touching.

7. Stop the tractor, and set the parking brake. Block the wheels of the unit to prevent unwanted movement while repositioning the disk gangs.

8. Move the handle of shut-off valve (1) to the closed position, as shown. The shut-off valve helps prevent the wheel lift cylinders from retracting due to bleed off within the hydraulic system, resulting in the disk gang lowering to the ground.



9. Release the wire retainer clips and remove the adjustment pins.



10. Using the tractor's control lever, cycle the hydraulics throughout their range two times to equalize the cylinder positions. Stop with the disk gangs in the most forward position (#3).
11. Place the adjustment pins into one of the rearward holes and replace the wire retainer clips.
12. Using the tractor's control lever, move the disk gangs rearward into contact with the adjustment pins. This places the disk gangs in position #2 or #3, depending on pin placement.

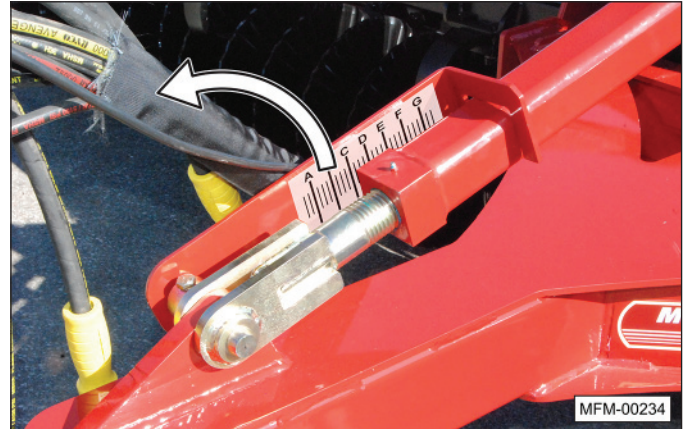
Note: Begin tilling with the disk gang angle set in the desired position. If necessary, after operating the unit, increase or decrease the aggressiveness of the disk gangs per the condition of the soil. To prevent ridging, it may be necessary to reduce the travel speed with more aggressive disk angles.

13. Start the tractor and use the tractor's control lever to lower the wheels (raise the disk gangs) to the maximum height.
14. Begin to pull the unit through the field.
15. Slowly raise the wheels until the disks contact the ground.



16. Continue raising the wheels (lowering the unit) until the disks are cutting into the ground. Once the desired depth is reached (no more than 6 inches), the unit must be leveled by adjusting the frame leveling turnbuckle.

- a. Raise the locking mechanism from the turnbuckle.

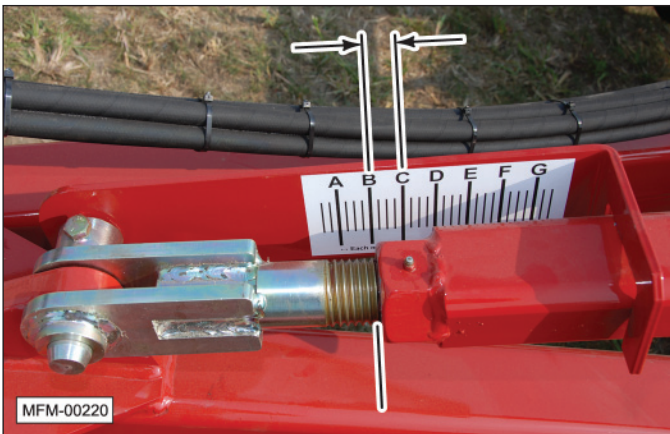


- b. Use the wrench (stored on the main frame) to make the adjustment.



Note: Turning the turnbuckle counterclockwise will raise the front end and lower the rear end.

- c. Record the current setting on the gauge (B0) that is located on the turnbuckle lock. Each mark on the gauge represents a 1" change in front disk gang depth. Example, changing from B0 to C0 will produce a 4" change in the height of the front of the frame.



- d. Check the frame for level. Adjust the turnbuckle as needed.
- Make sure the hitch is resting on the tractor's drawbar and the level lift spring is not compressed when leveling the machine.
 - Reel height should be all the way up (out of the ground) to set initial disk gang depth. Once disk gang depth is set, lower the reel so it is running at a depth of approximately 2".

- e. Once the unit is level from front to back, place the locking mechanism over the turnbuckle. Recheck the disk cutting depth, and adjust if needed.



Note: When a major change is made to the depth of the front disk gangs or the spiral reels, make sure the frame is still level.

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

⚠ WARNING

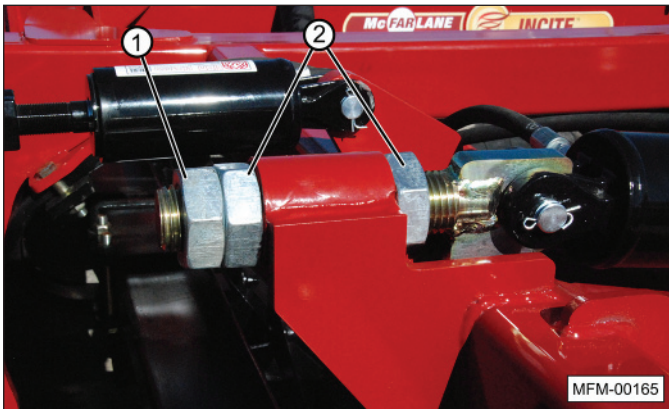


Before leaving the tractor, shut off the engine, set the parking brake, and remove the ignition key.

18. Level the wing frames. This prevents the disk gangs from gouging and/or ridging. It also ensures a consistent operating depth across the width of the tillage area.



- a. Loosen jam nut (1) and turn adjusting nuts (2) to level the wings from side-to-side. When the wings are level, tighten the jam nut.



- b. Pull the unit through the field and stop without raising it.
- c. Recheck the depth of the disk gangs and adjust the stop crank accordingly.
- d. If the disk gangs need to be reset, turn the stop crank accordingly; two full turns of the crank equals 1 inch of depth adjustment.

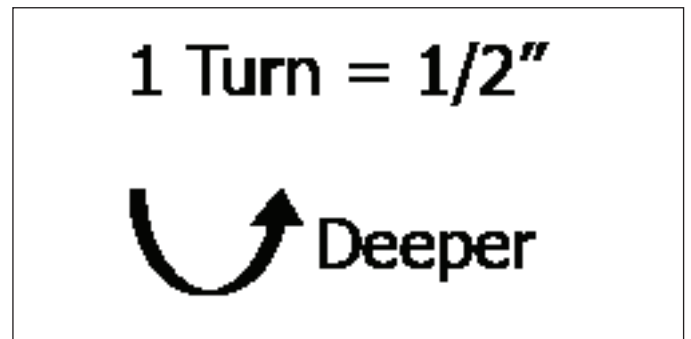


19. Turn the stop crank (depth control) to fully depress the pin on the hydraulic stop valve.
20. Measure the depth the disk is cutting into the ground.

Note: The desired depth (no more than 6 inches) of the disks is controlled by a hydraulic valve. When the wheels of the unit are raised, the stop crank actuates the valve, stopping oil flow. Each time the wheels are raised and lowered, the valve will consistently position the depth of the unit.

21. Adjust the depth of the disk gang with the depth stop valve. Once the depth is set, lower the spiral reels so they are only running a maximum of 2" deep. The reel height indicator shows 0 for level with the bottom of the disk blades and 8 for 8" above the disk blades.

Note: If disk blades are running 4" deep set spiral reel to 2 on the reel depth gauge.



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 disk depth is changed.

22. Continue pulling the unit through the field and raise and lower the wheels to allow the hydraulic control valve to stop the unit at the set depth. Stop the tractor and check the depth of the disks and the reel

blades, making sure they are the desired depth. Readjust the depth control device and the hitch frame turnbuckle, if necessary. The disk blades should be cutting approximately 2" deeper than the reels.

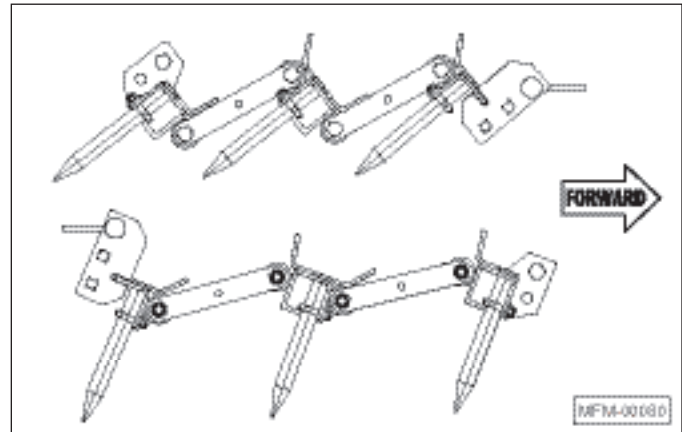
Note: The level lift tube cushioning spring tension is set at the factory and should not be adjusted.

23. Adjust the aggressiveness of the harrow sections. There are three attachment points on the first harrow section to control the aggressiveness of the harrow.

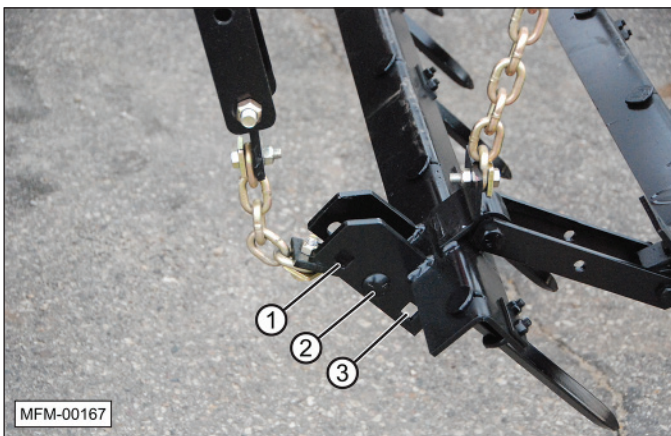
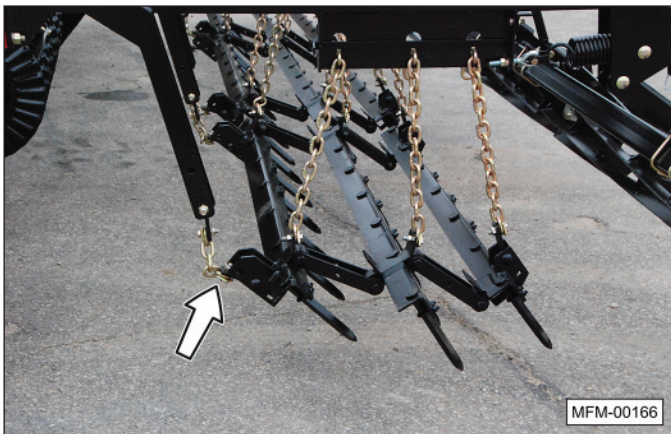
- a. In the least aggressive direction, mounting hole #1 will cause the sections to lay more flat (less aggressive).
- b. In position #2, the teeth are in approximately a 45° position (more aggressive).
- c. In position #3, the teeth are at the most aggressive angle (more upright).

Note: Typically, the angle should be set more aggressive for increased soil leveling and less aggressive in heavy residue conditions. In some situations that do not require the extra leveling of the harrow section, such as heavy fall residue, the sections can be removed or raised above the ground level.

Note: Reversing the harrow sections and pulling them from the opposite end can change the angle of attack. The steeper the angle of attack, the more aggressive the harrowing will be. It is recommended the least aggressive angle be used with the pull hook in the top position, as shown.



24. Adjust the height of the harrow sections.



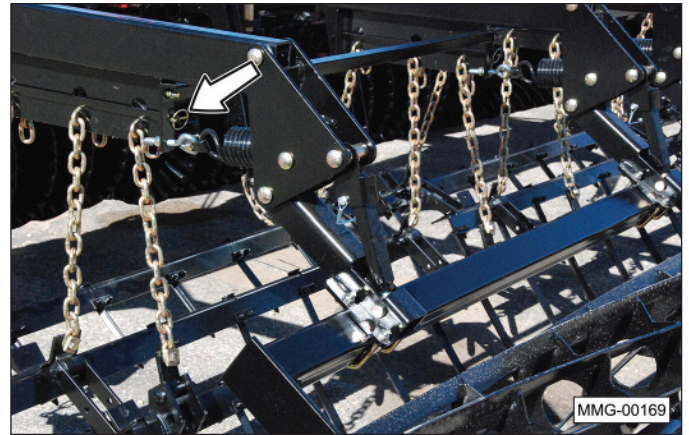
- a. Remove the locking bar retainer clip.



b. Remove the locking bar.



d. Replace the locking bar and clip.



c. Raise or lower each harrow bar to the desired height.

Typical Spring (finishing) settings are all three chains set with three links hanging.

Typical Fall settings in heavy residue are front chain with seven links hanging, middle with six, and rear with five links hanging (front bar higher than rear bar).

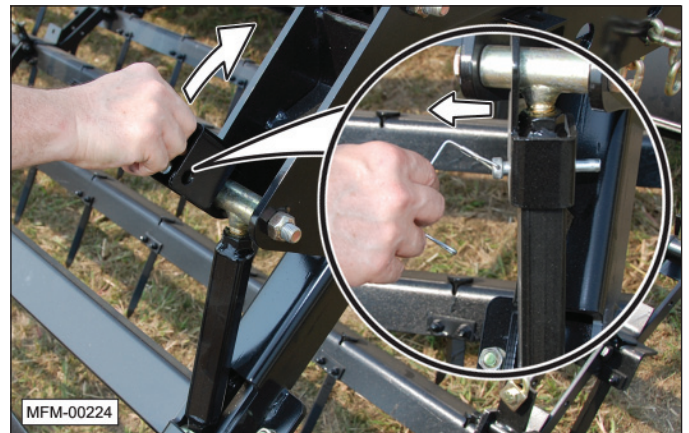
Note: Make sure the chains are not twisted when inserting into the slot.



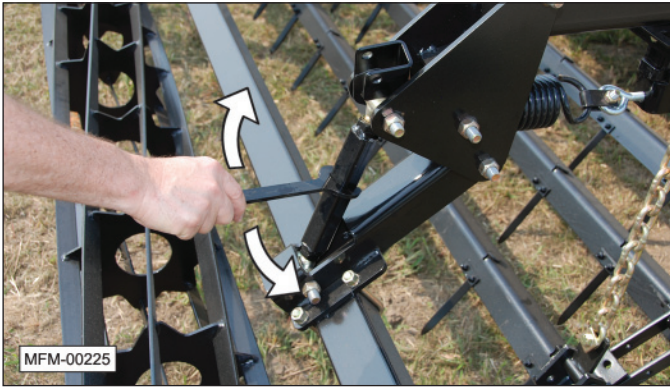
Note: To maximize the unit's performance, it should be operated at speeds ranging from 7 to 9 mph (11 to 14 kph). This keeps the field debris moving through the harrow sections and avoids clogging.

25. Adjust the rolling basket height and tension.

- a. Place the rolling basket on a flat, level surface.
- b. Remove the lynch pin and raise the turnbuckle lock (release the turnbuckle to rotate).



- c. Adjust the turnbuckle with turnbuckle wrench to either raise or lower the rolling basket. To adjust the turnbuckle, use the wrench provided on the front of the unit. 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.

- e. In the raised position, adjust the spring tension just tight enough to prevent the spring from loosening and falling out. Make sure the jam nut is securely tightened against the adjusting nut.
- f. During operation the spring should only lightly stretch, approximately 1/16" gap between the spring coils. Too much spring tension will cause premature failure, especially when going through waterways or ditches.



The unit should now be ready.

Preparing for Transport

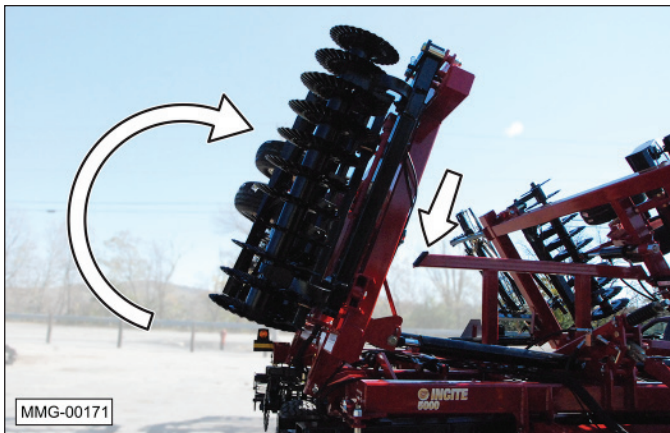
1. Lower the wheels and lift the unit off of the ground.



2. Move the handle of shut-off valve (1) to the closed position, as shown. The shut off valve helps prevent the wheel lift cylinders from retracting due to bleed off within the hydraulic system, resulting in the disk gang lowering to the ground.



3. If equipped, fold the wings into the wing rests.

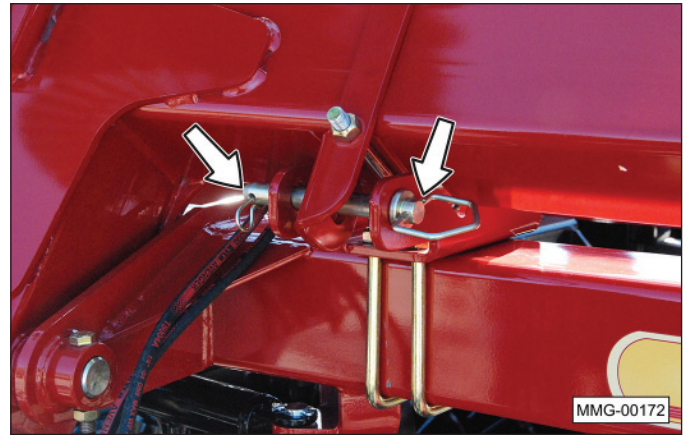


⚠ WARNING

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.

Crush Hazard
 When folding the wings, make sure both wings are resting on the pads before releasing hydraulic pressure.

4. Install the wing fold lock pins and bridge pins.



Note: To prevent equipment damage, the wing frame lock is designed to fail in the event the wing is unfolded with the pin still in place.

5. Remove the yellow transport locks from the storage brackets and place over the wheel lift cylinder rods. Insert and lock the retaining pin.



Maintenance

Personal 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

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.

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.

Hydraulic Component 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.



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.

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.



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

SAFETY INSTRUCTIONS

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



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 or nuts.



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



Do not exceed 20 mph.



Keep wheel lug nuts or bolts tightened.



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 unit 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. In locations where Grade 8 bolts are used, Grade 8 replacements are required.






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 accept responsibility for damages as a result of the use of unapproved parts.

Tire and Lug Torque Specifications

Model	Tire Size	Ply Rating	Tire Pressure	Lug Size	Lug Torque (lb.ft.)		Tire and Wheel Weight
					Min	Max	
IC-5012, IC-5014	12.5L-15	10 ply	44 psi	9/16"	80	90	40
IC-5020, IC-5024	FS24 340/60R16.5	—	73 psi	9/16"	80	90	89
IC-5027	FS24 380/60R16.5	—	73 psi	5/8"	85	100	95
IC-5032	FS24 380/60R16.5	—	73 psi	5/8"	85	100	95
IC-5040	FS24 380/60R16.5	—	73 psi	5/8"	85	100	95
WING FRAME	11L-15	8 Ply	36 psi	1/2"	75	85	33

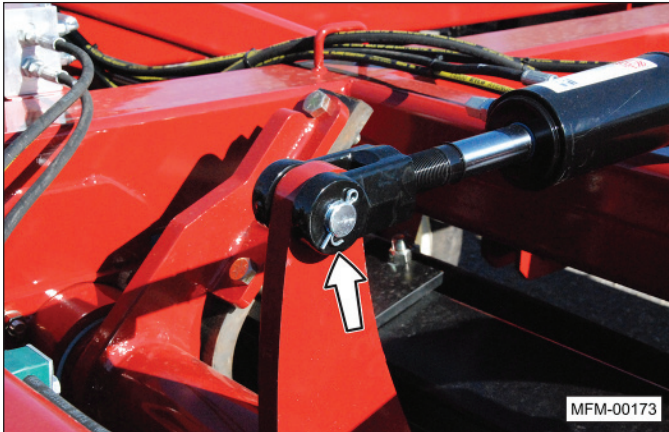
Bolt Torque Chart

Bolt Head Markings	 No Marking		 3 Radial Lines		 6 Radial Lines	
	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)

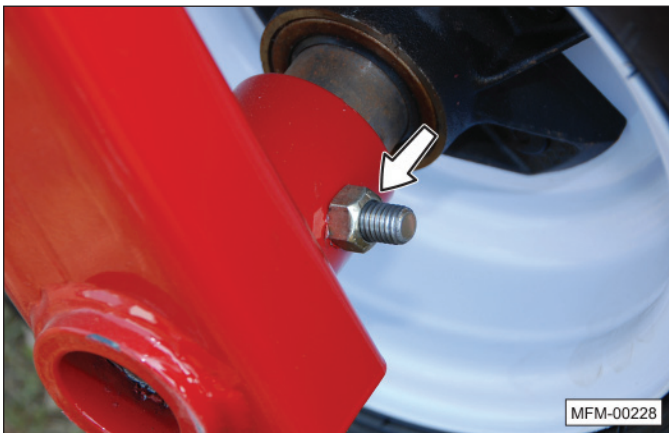
Maintenance Schedule

1. After the first 12 hours of use:

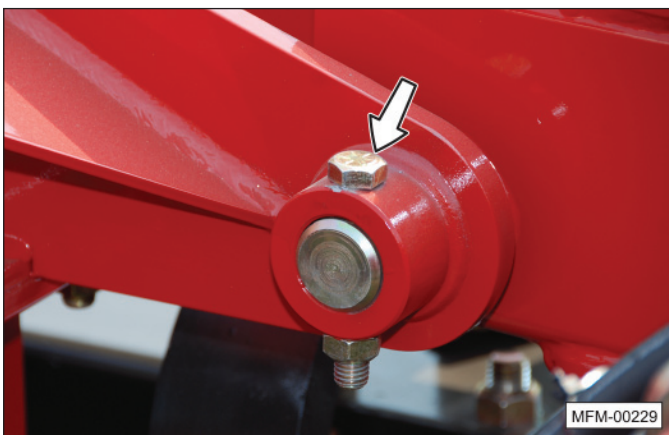
- a. Make sure all retaining hardware is installed. Check the tightness of all the bolts, especially those on the C-springs. Torque specifications are listed in the "Bolt Torque Chart" on page 34.



Cotter pin.



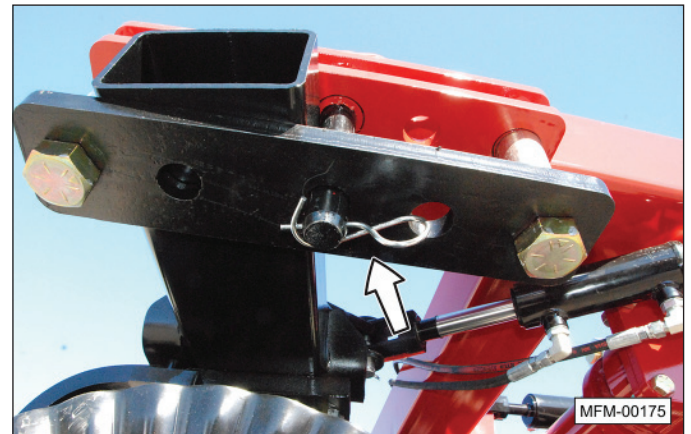
Wheel retainer bolts.



Hinge pin and hitch pin retainer bolts.



Bridge pin.

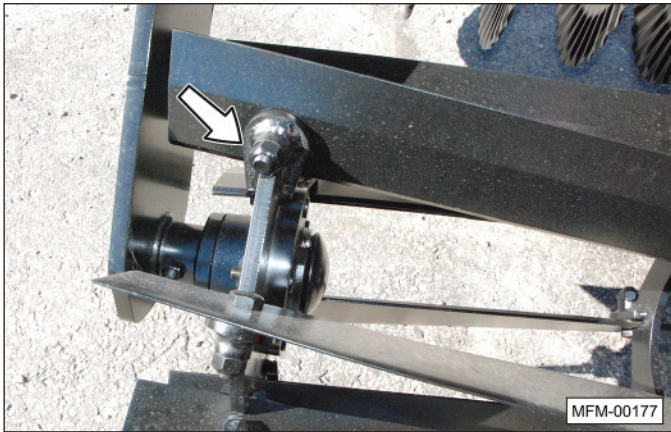


Wire retainer pin.

- b. Check the gang arbor nut torque which is described in "Disk Gang Disk Blades" on page 39.



- c. Check all of the bolts holding the blades onto the spiral reel.



- 5. Clean, repack, and adjust the wheel bearings annually. Use only wheel bearing grease when repacking these units. Check for excessive end play.

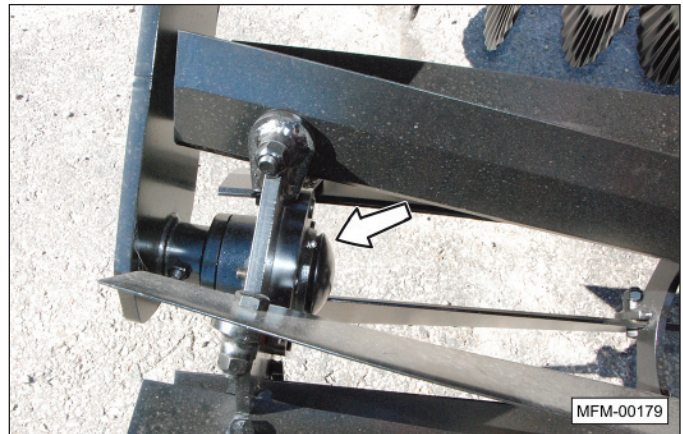
To adjust wheel bearing, remove dust cap and cotter pin. Lift tire and slowly rotate while tightening the spindle nut. Tighten only until a slight drag is felt on the rotating wheel. Re-install cotter pin and dust cap.



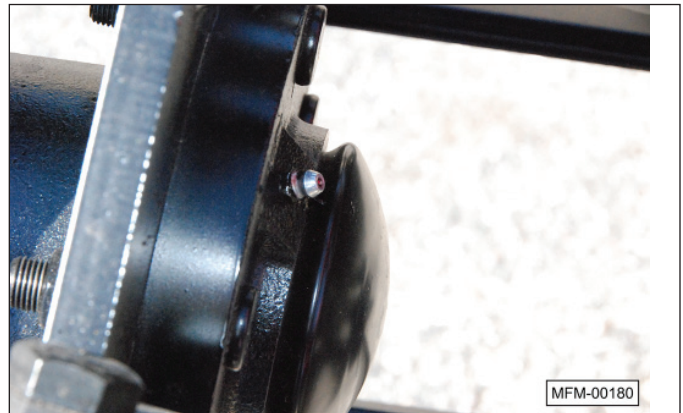
- 2. Prior to each use, visually check for loose or missing bolts and replace lost or worn parts.
- 3. Grease all hinge pins every 15 hours of service. Refer to "Lubrication Points" on page 38.



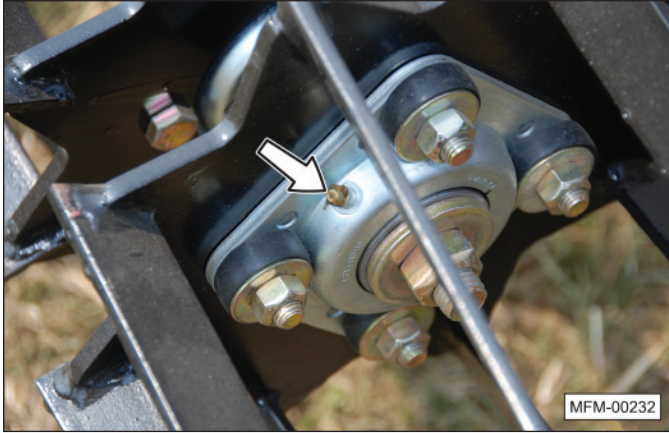
- 6. Spiral reel bearings should be lubricated annually.



- 4. Grease the tandem pivot every 15 hours of service.



- Grease rolling basket bearings sparingly every 50 hours. Over greasing may damage the seal and cause premature bearing failure.



Note: Clean grease fittings and replace those that are broken or missing.

- Inspect the rubber bumper pads on the wing support arms. Replace the pads if they are worn or missing.



- Refer to the parts illustrations and listings for service and repair parts.

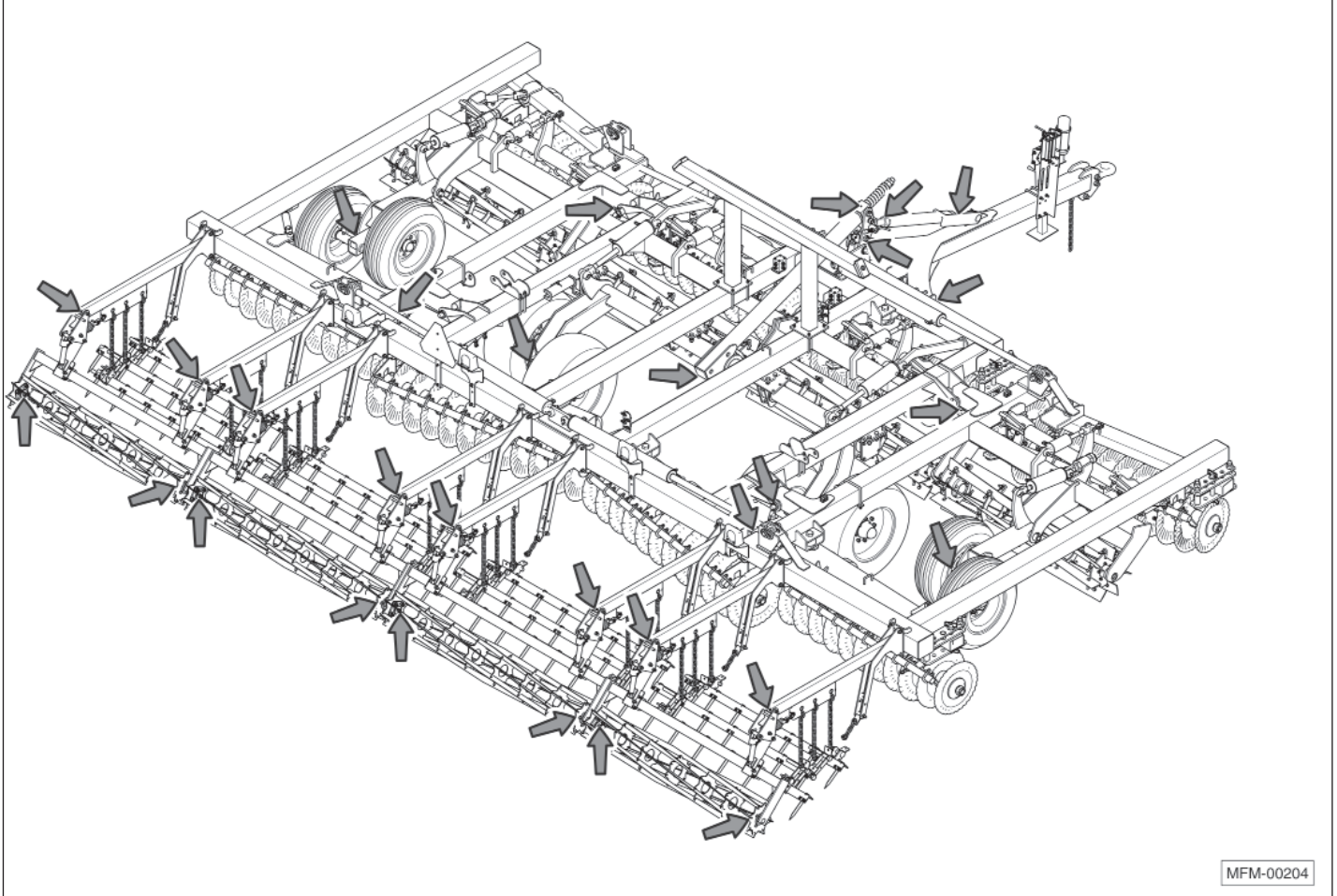
Note: The level lift tube cushioning spring tension is set at the factory and should not be adjusted. If spring replacement becomes necessary, turn the adjusting nut until the compressed spring length is 8-3/16" and tighten the jam nut.



Lubrication Points

Add grease to the locations shown in the illustration.

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



Maintenance Procedures

Wheel Lift Cylinders and Wing Cylinders

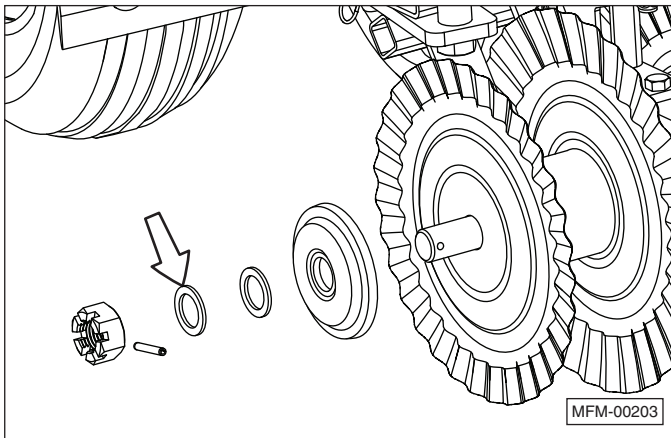
There are no setup procedures or maintenance items on these cylinders.

Disk Gang Disk Blades

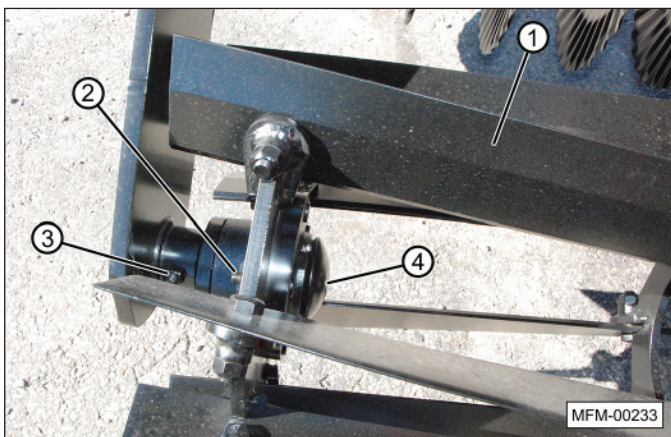
1. Replace the disk blades when the diameter is 19 inches or less.
2. It will also be necessary to check and tighten the disk gang arbor nuts to prevent excessive wear.
3. After 12 hours initial operation, using a torque-multiplier, tighten the gang arbor nuts to 1200-1600 ft-lb.

Note: A torque of 1200-1600 ft-lb would be equivalent to a 200 pound person using a 6 to 8 foot wrench.

Note: When reassembling the disk gang, it may be necessary to add a 1-3/4" machine washer (10656) in order to align the cross-drilled hole in the shaft with the slots in the castle nut.



Removal of Spiral Reel Hub

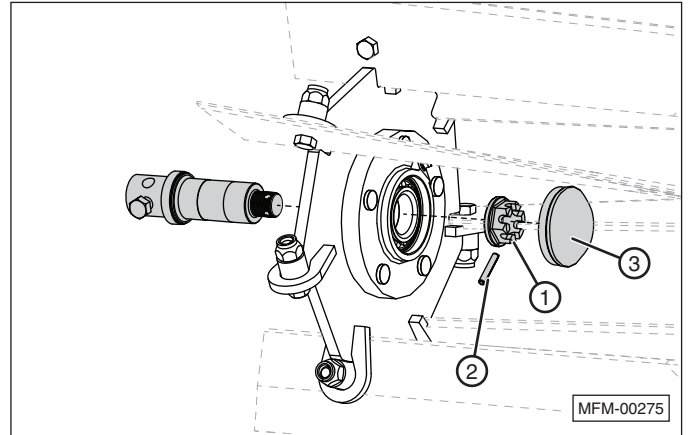


1. Support the reel assembly.
2. Remove one reel blade (1).

3. Remove five hub bolts (2).
4. Remove hub cross bolt (3).
5. Slide hub free from reel (4).

Note: May need to loosen all bolts to reassemble.

Assembly and Lubrication of Spiral Reel Hub



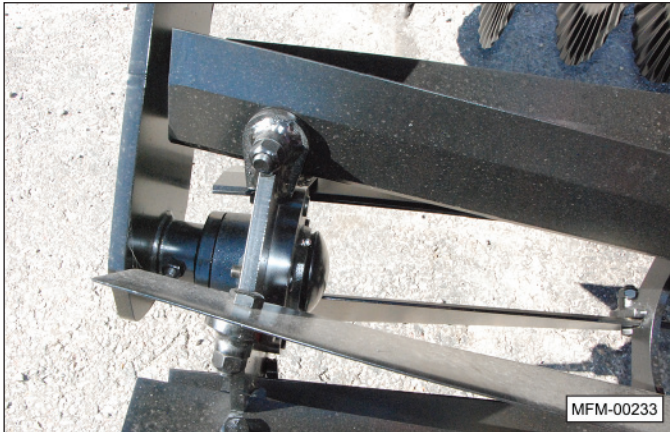
1. Tighten hex slotted nut (1) to 40 ft.-lbs. Loosen nut until first slot in nut aligns with hole in spindle. Rotate hub five revolutions. If rotation is tight, loosen nut an additional slot.
2. Push spring pin (2) through nut and spindle until it is flush with the nut.
3. Apply grease through the zerk until grease emerges through the bearing rollers. Rotate hub five times.
4. Press dust cap onto hub.
5. Check end play.
 - a. Hold spindle securely in place.
 - b. Place a dial indicator onto the hub to measure upward movement.
 - c. Use a bar or lifting device to raise the hub upwards.
 - d. The reading should not exceed 0.002" (0.05mm). Repair or replace hubs with excessive end play.

Spiral Reel Blades

To replace a spiral reel blade:

1. Remove the bolts that secure the blade to the center plate.
2. Install a new blade with 5/8-11 x 2-1/4" bolts and lock nuts. Tighten the nut to 160 ft.lbs. (215 N·m).

Note: Make sure the blades are positioned with the beveled edge of the blade closest to the tab on the center plate, as shown in the photo. Install the bolts from the blade side.



Axle Assembly Wear Sleeves



No maintenance is required on the four axle mounting bearings. Check for excessive wear annually. To replace the bearings:

1. Support the main frame.
2. Support the wheel assembly and wheel lift cylinders to relieve the pressure on the bearings.
3. Remove bearing retainer caps (1) (center bearings) and end caps (2) (outer bearings).
4. Insert four new bearing wear sleeves. Do not replace just one sleeve.
5. Reinstall the retainers and caps.

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 or rust preventative to all exposed metal surfaces of the disks, reels, and reel blades.

Disposal of Equipment at End of Useful Life

The McFarlane Incite™ 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.

Warranty

Limited Warranty Statement

FULL ONE YEAR WARRANTY

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

Warranty service is available at dealer locations 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.

Troubleshooting

Problem	Cause	Solution
Machine is not working 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 machine with the depth stop control. Check reel depth, reel should only be in the ground 2" (if disk gangs are 4" deep reel should be at 2" above blade).
	Travel speed is either too slow or too fast.	Change speed to get desired results.
	Disk gang angle is not set properly for the soil conditions.	Increase disk gang angle to loosen more soil.
	Too high of speed for conditions.	Decrease travel speed.
Unit bounces or leaves surface uneven in loose soil.	Disk gang angle is set too aggressive causing machine to "walk".	Decrease disk gang angle.
	Machine is set too deep that tires are not touching the ground.	Use depth stop to get the tires to touch the ground when working.
	The front gang disk is not set at an aggressive enough angle.	Increase the angle of the front disk gang.
The residue is not being turned into the ground.	The front gang disk is not set deeply enough.	Increase the depth of the disk gang up to a six 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.
	Travel speed is too slow.	Increase travel speed to 8 to 9 mph.
	The front disk gang may not be set deep enough.	Increase the depth of the disk gang up to a six 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 six 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.
Ridging between center section and wing section or between wing sections.	Adjacent wing frame is not level with the next.	Adjust the wing axle depth screw up or down to eliminate the ridge between the sections.
Ridging between passes.	Outside wing not set level with inner/center frame section.	Level the outer wing frame so it runs level with the rest of the machine.
	Outer disk gang blade may need to be 18".	Order four 10599 18" blades for outer disk gangs to reduce ridging or undercutting pass to pass.
Depth stop will not work properly.	Plunger not contacting stop valve pin.	When machine is in ground at proper depth check that the level lift spring is not compressed. Extend turnbuckle so hitch contacts drawbar with spring fully extended.
Center frame section not working to desired depth.	Wing frames are set too deep.	Raise the wing frames using the wing lift cylinders to prevent the wings from working deeper than the center section.
Outside disk gang gouges.	Wing frames are not level.	Level the wing frames using the wing lift cylinders to raise the outside of the disk gang.

Problem	Cause	Solution
Spiral reel plugs in wet soil conditions.	Spiral reel is set too deep.	Decrease the depth of the spiral reels. Use the stop crank to adjust the spiral reel depth. Increase speed.
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 produce the flattest angle on the harrow is recommended. Setting the harrow to the steepest angle is usually recommended for spring work or light residue.
	The ground speed is too low.	Increase ground speed to 8 to 9 mph.
Rolling basket springs are breaking.	Too much spring tension.	Too much spring tension will cause premature failure, especially when going through waterways or ditches. Reset spring tension, per the Initial Setup section in this manual.

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

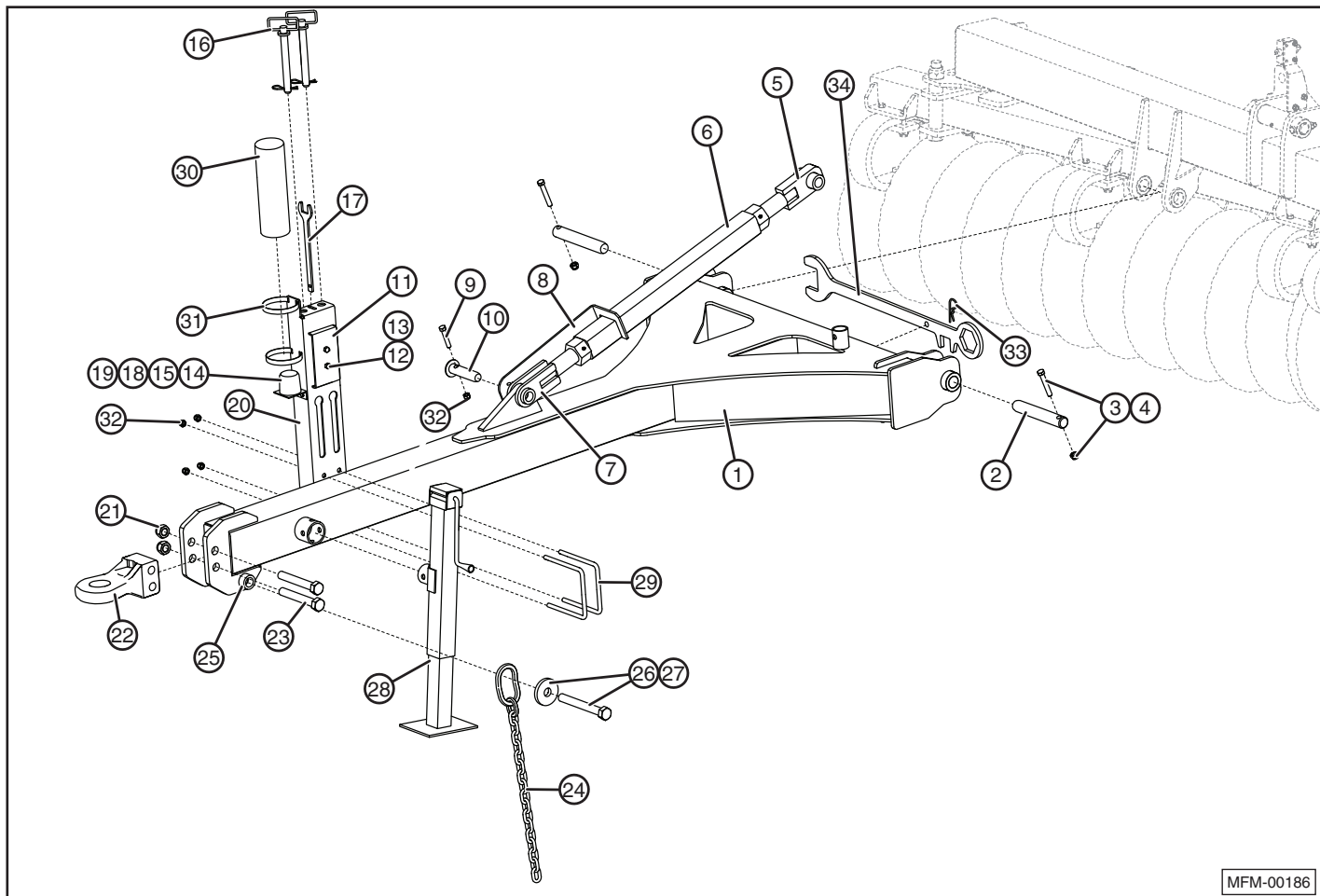


Make sure all decals are attached to the unit and are legible at all times. Safety decals and reflective tape provide a vital role in helping to reduce injuries and/or possibly even death.

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 for Incite™ 5000 Series

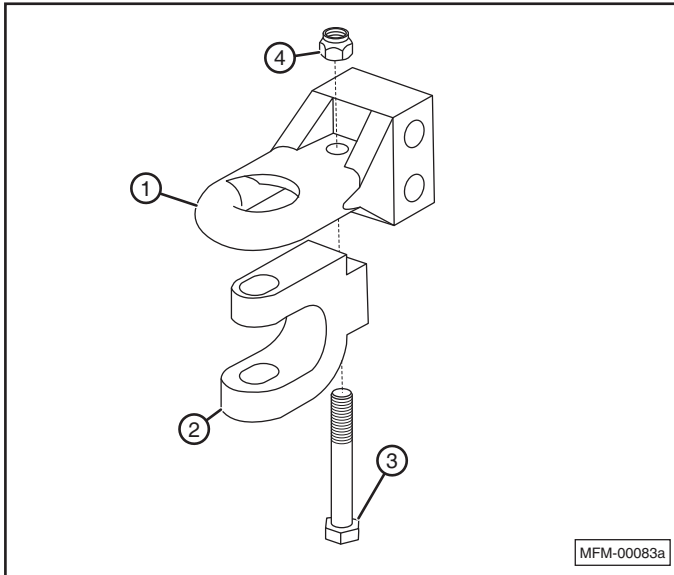


MFM-00186

Item	Part Number	Description
1	10100	HITCH, 6 X 6
2	RT-2107	PIN, HINGE, 1-1/2 X 9-5/8
3	BHY-5635	BOLT, HEX, 9/16-12 X 3-1/2 GRADE 8
4	NLT-5612	NUT, TOP LOCK, 9/16-12
5	RT-2112	PIVOT, TURNBUCKLE
6	RT-3145	LINK, TURNBUCKLE
7	RT-2111	YOKE, TURNBUCKLE
8	RT-2114	LOCK, TURNBUCKLE, 3"
9	BH-5028	BOLT, HEX, 1/2 X 2-3/4 GRADE 5
10	RT-2113	PIN, STRAIGHT, HEADED
11	RD-4309	BRACKET, CLAMP
12	BH-4420	BOLT, HEX, 7/16 X 2
13	NLT-4414	NUT, TOP LOCK, 7/16
14	LW-0025	WASHER, LOCK, 1/4
15	NH-2520	NUT, HEX, 1/4-20
16	PH-8860	PIN, HITCH, 7/8 X 6 w/ #6 BRIDGE PIN
17	RT-2416	WRENCH, TURNBUCKLE, 1-1/4"
18	LB-1110	BRACKET, LIGHT PLUG
19	BH-2510	BOLT, HEX, 1/4-20 X 1

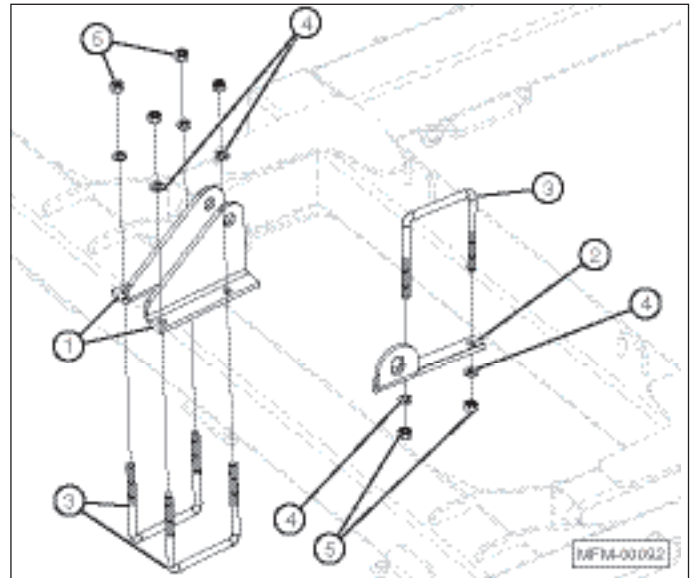
Item	Part Number	Description
20	10294	BRACKET, STORAGE, HITCH
21	NLT-1008	NUT, TOP LOCK, 1"
22	PPI-300 PPI-400H	HITCH BASE, CAT III (See separate drawing HITCH BASE, CAT IV for serviceable parts).
23	BHY-1070	BOLT, HEX, 1 X 7, GRADE 8
24	CH-1816 CH-1830	SAFETY CHAIN, 16,100 lbs (5014) SAFETY CHAIN, 30,400 lbs (5020, 5027, 5032, 5040)
25	RT-2054	BUSHING, 1 7/8" OD X 1-1/4" ID X 1"
26	RT-3103	WASHER, SAFETY CHAIN
27	BHY-1085	BOLT, HEX, 1 X 8-1/2, GRADE 8
28	QT-1243	JACK, SIDEWIND, 15", 8000#
29	BU-1267	U-BOLT, 1/2 X 6 X 7-1/4
30	RD-4306	MANUAL STORAGE TUBE
31	MM-1204	HOSE CLAMP, 4"
32	NLT-5013	NUT, TOP LOCK, 1/2-13
33	PB-0009	PIN, BRIDGE, #9
34	10273	WRENCH, TURNBUCKLE

Hitch for IC-5012, and IC-5014 (CAT. III)



MFM-00083a

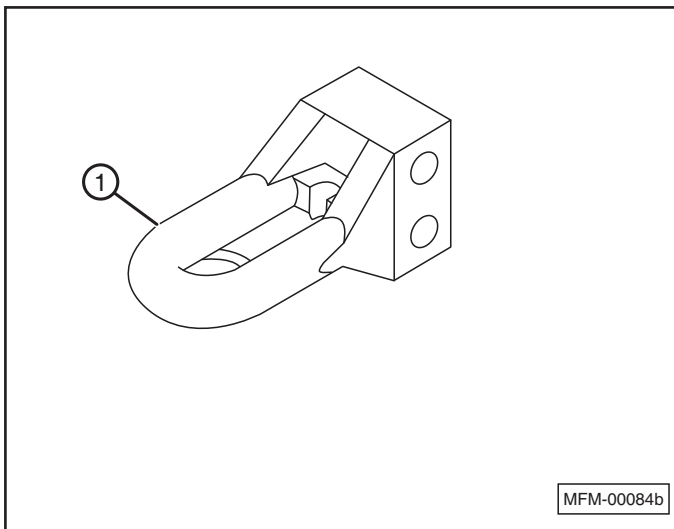
Wing Locks for IC-5020, IC-5024, IC-5027, IC-5032, and IC-5040



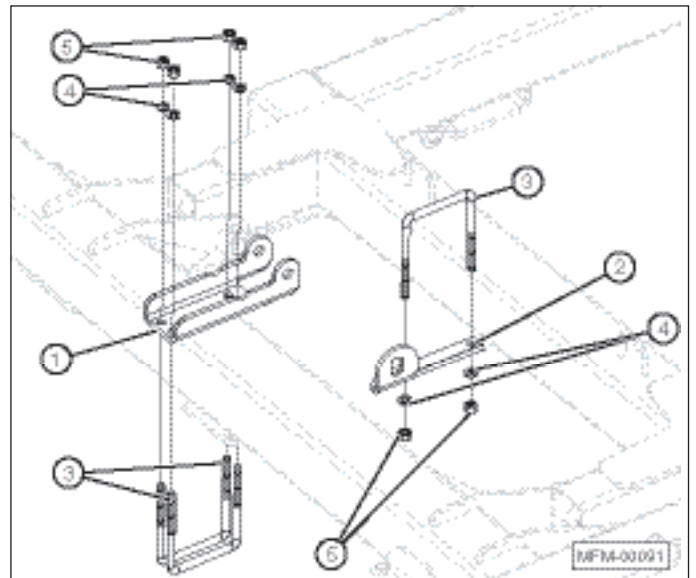
MFM-00092

IC-5020, IC-5024

Hitch for IC-5020, IC-5024, IC-5027, IC-5032, and IC-5040 (CAT. IV)



MFM-00084b



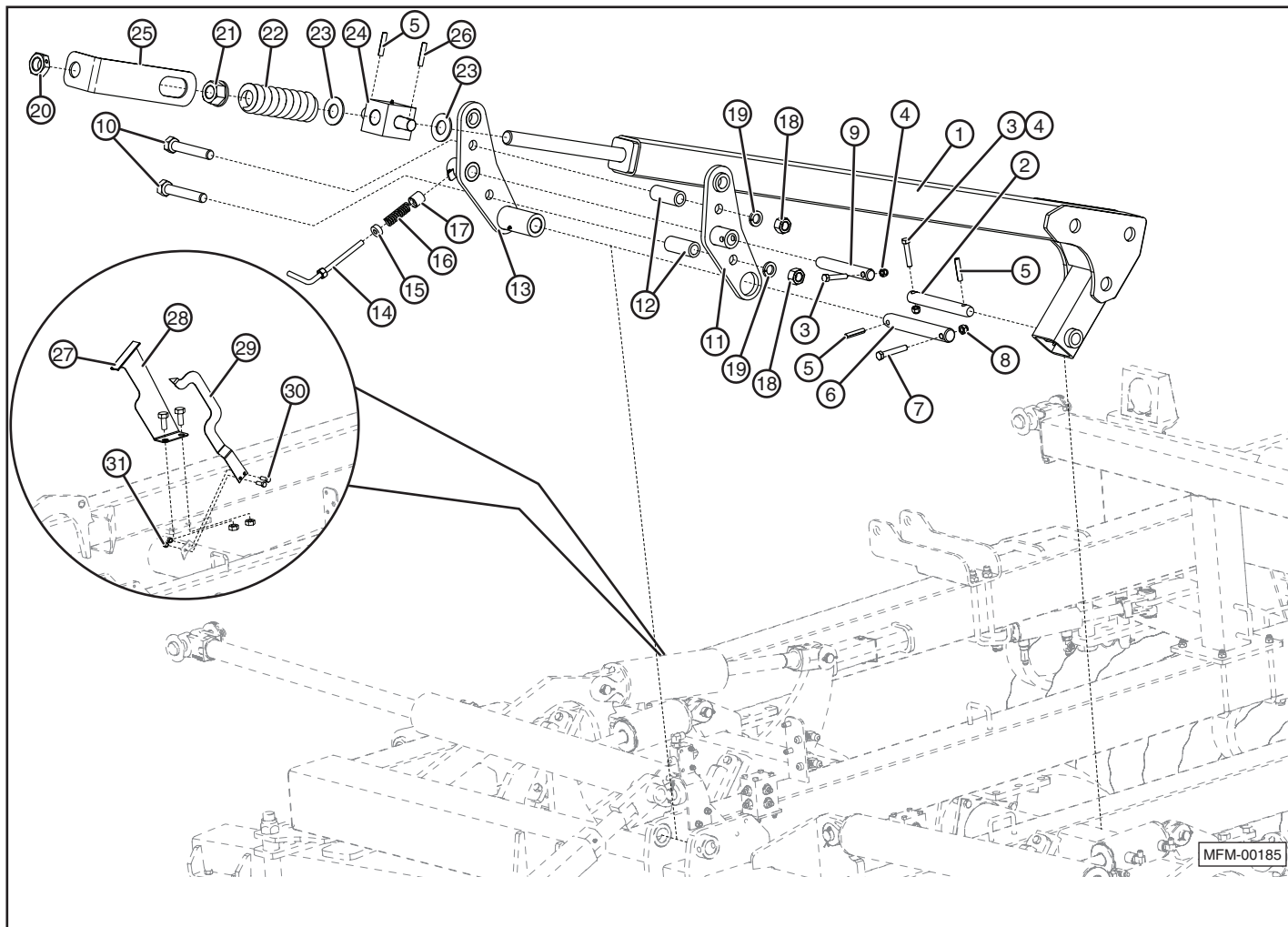
MFM-00091

IC-5027, IC-5032, IC-5040

Item	Part Number	Description
1	PPI-300 PPI-400H	HITCH BASE, CAT. III HITCH BASE, CAT. IV
2	PPI-208	CLEVIS, HITCH (CAT. III only)
3	BHY-7555	BOLT, HEX 3/4 X 5-1/2 GRADE 8 (CAT. III only)
4	NLT-7510	NUT, TOP LOCK, 3/4 (CAT. III only)

Item	Part Number	Description
1	RD-4508 RD-4509 10345	BRACKET, WING LOCK, LT (5020) BRACKET, WING LOCK, RT (5020) BRACKET, WING LOCK (5027, 5032, AND 5040)
2	RD-4612	WING FRAME WING LOCK (ALL SIZES)
3	BU-5867	U-BOLT, 5/8 X 6 X 7-1/2
4	LW-0063	WASHER, LOCK, 5/8
5	NH-6311 NLT-6311	NUT, HEX, 5/8-11 NUT, TOP LOCK, 5/8-11 (5024)

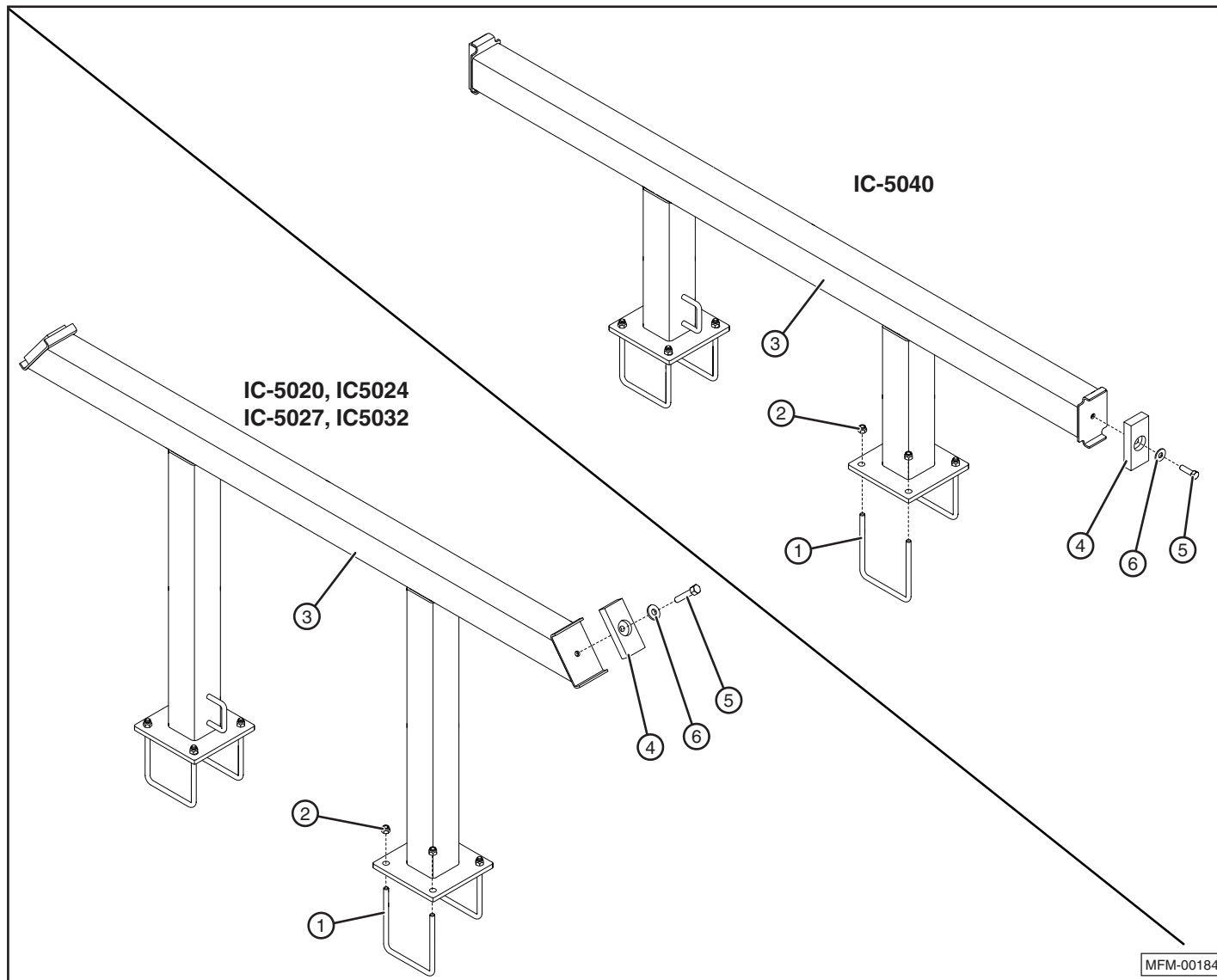
Level Lift for Incite™ 5000 Series



Item	Part Number	Description
1	10257	LINK, LEVEL LIFT
2	10684	PIN, STRAIGHT
3	BH-5028	BOLT, HEX, 1/2-13 X 2-3/4 GRADE 5
4	NLT-5013	NUT, TOP LOCK, 1/2-13
5	RD-5062	PIN, SPRING ROLL, 1/2 X 2-1/2
6	10283	PIN, STRAIGHT, 1-1/2 X 10-5/16
7	BHY-5635	BOLT, HEX, 9/16-12 X 3.5, GRADE 8
8	NLT-5612	NUT, TOP LOCK, 9/16-12
9	QT-1180	PIN, STRAIGHT
10	BHY-1070	BOLT, HEX, 1-8 X 7, GRADE 8
11	10613	PLATE, PIVOT
12	10944	TUBE, ROUND
13	10260	PLATE, PIVOT
14	RD-4914	HANDLE, THREADED
15	RD-5060	COLLAR, SPRING
16	RD-4355	SPRING, COMPRESSION, 1 X 3.5 X 0.162

Item	Part Number	Description
17	RD-5059	PIN, STOP
18	NH-1008	NUT, HEX, 1-8
19	LW-0100	WASHER, LOCK, 1.0"
20	10501	NUT, JAM, 1-1/2-6, SPECIAL
21	NHF-1506	NUT, FLANGE, 1-1/2-6
22	10615	SPRING, COMPRESSION
23	10776	WASHER, FLAT, 1-1/2 SAE
24	10607	PIVOT, CROSS
25	11331	STRAP, SPRING RETAINER
26	QT-1143	PIN, SPRING ROLL, 1/2 X 3-1/2
27	11395	DECAL, DEPTH INDICATOR
28	11373	BRACKET, DEPTH INDICATOR
29	11374	POINTER, DEPTH INDICATOR
30	BH-3810	BOLT, HEX, 3/8-16 x 1
31	NLT-3816	NUT, TOP LOCK, 3/8-16

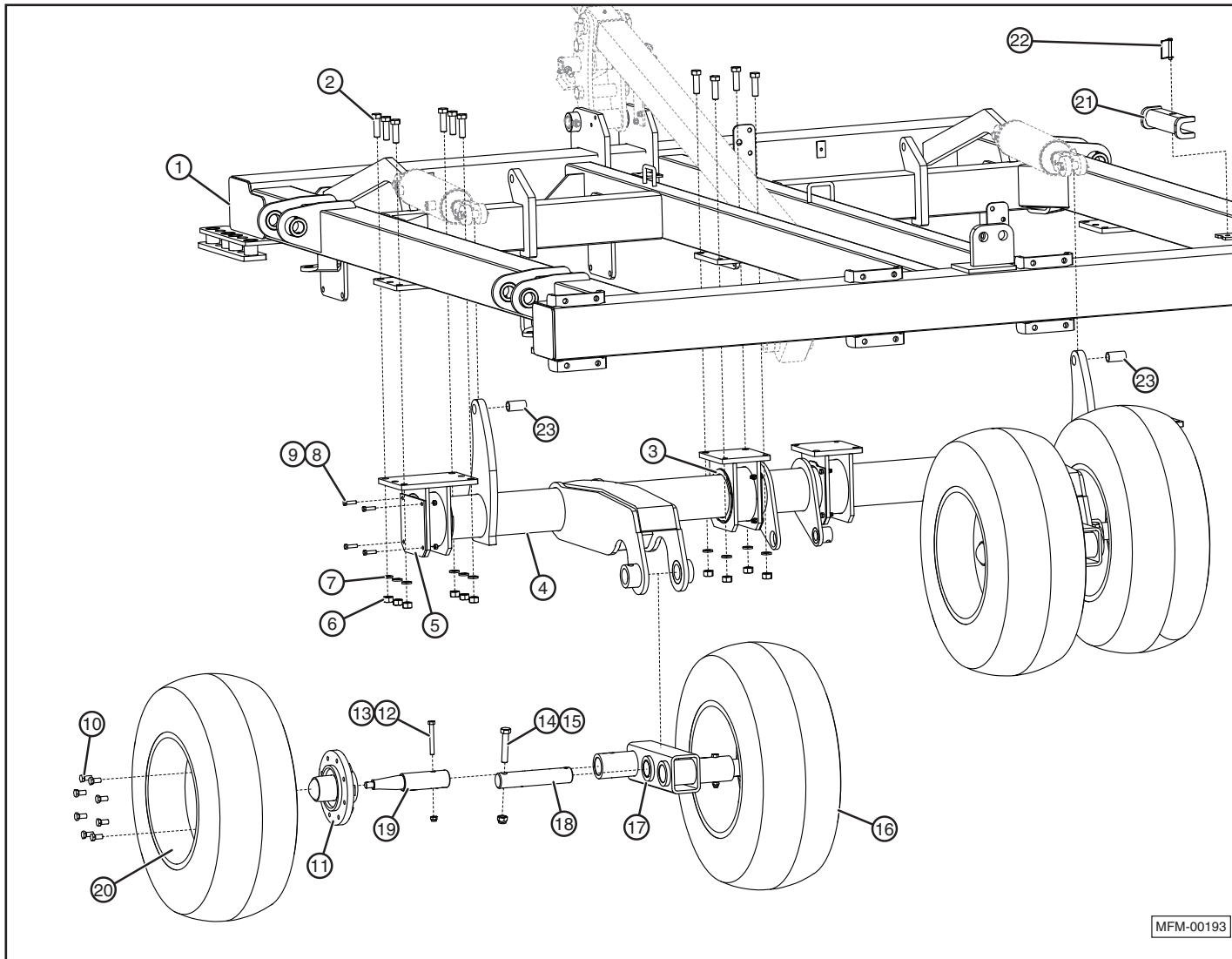
Wing Rest for IC-5020, IC-5024, IC-5027, IC-5032, and IC-5040



Item	Part Number	Description
1	BU-5848	U-BOLT, 5/8 X 4 X 8 (5020, 5024)
	BU-5867	U-BOLT, 5/8 X 6 X 7-1/2
2	NLT-6311	NUT, TOP LOCK, 1/2-13
3	11302	BRACKET, WING REST (5020)
	11305	BRACKET, WING REST (5024)
	10767	BRACKET, WING REST (5027)
	10336	BRACKET, WING REST (5032)
	10266	BRACKET, WING REST (5040)
4	RT-3415	BUMPER, WING REST

Item	Part Number	Description
5	BH-5015	BOLT, HEX, 1/2-13 X 1-1/2 GRADE 5
6	FW-0050	WASHER, FLAT, 1/2

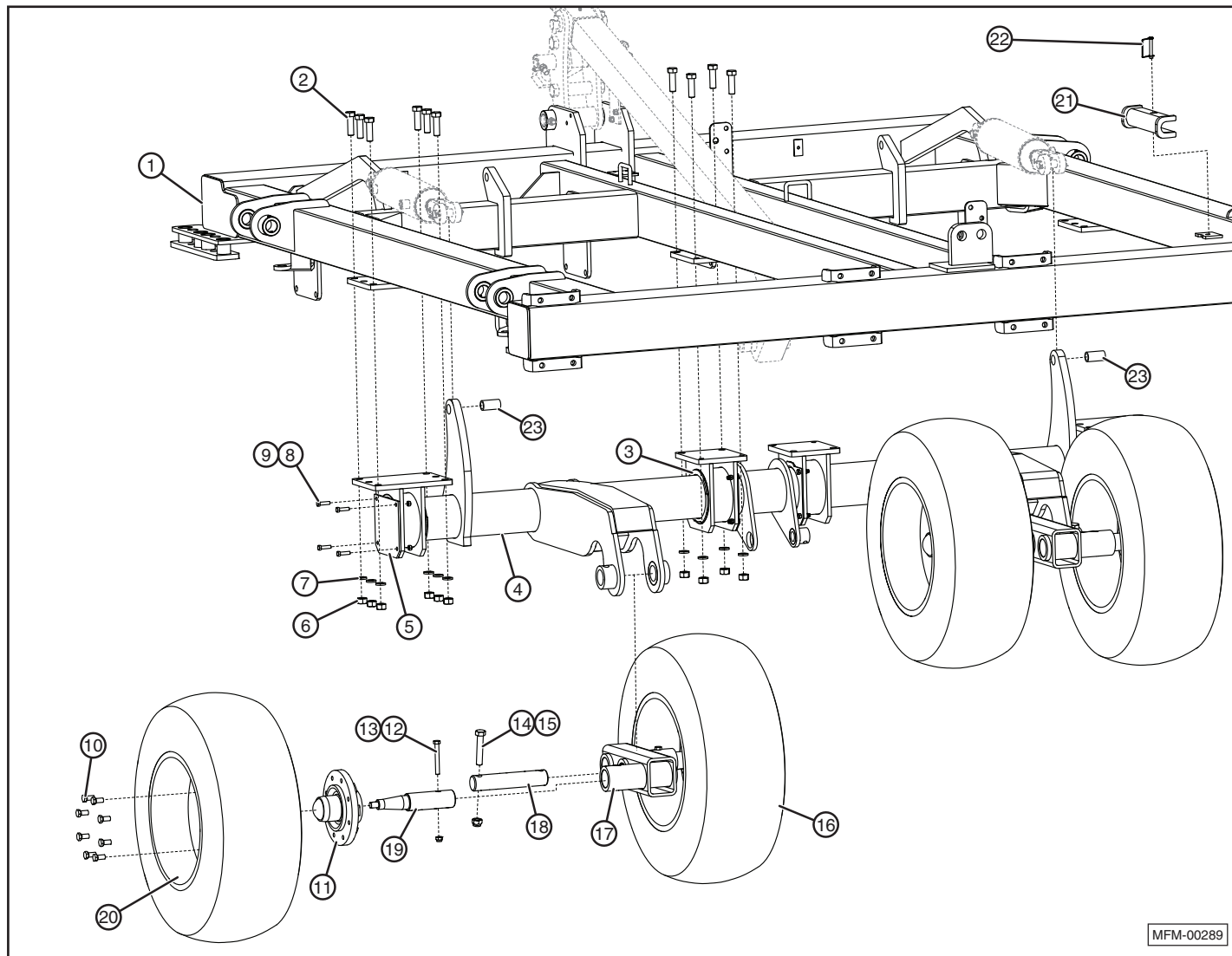
Main Frame and Axle for IC-5012, IC-5014, IC-5027, IC-5032, and IC-5040



Item	Part Number	Description
1	10455	MAIN FRAME (5012, 5014)
	10275	MAIN FRAME (5027, 5032)
	10108	MAIN FRAME (5040)
2	BHY-7525	BOLT, HEX, 3/4-10 X 2-1/2 GRADE 8
3	QT-1173	INSERT, AXLE MOUNT, SPLIT
4	10459	MAIN AXLE ASSEMBLY (5012, 5014)
	10431	MAIN AXLE ASSEMBLY (5027, 5032, 5040)
5	10432	BEARING, PIVOT
	QT-1133	BUSHING, PLASTIC
	QT-1132	PLATE, COVER
6	NH-7510	NUT, HEX, 3/4-10
	LW-0075	WASHER, LOCK, 3/4
8	BH-3813	BOLT, HEX, 3/8-16 X 1.25
9	NLT-3816	NUT, TOP LOCK, 3/8-16
10	WN-0056	WHEEL NUTS 9/16
	WN-0063	WHEEL NUTS 5/8
11	RT-2171	HUB ASSEMBLY, 8 BOLT, 4500 LB (5012, 5014)
	RD-4580	HUB ASSEMBLY, 8 BOLT, 7500 LB (5027, 5032, 5040)
12	BH-5040	BOLT, HEX, 1/2-13 X 4 (5012, 5014)
	BH-5050	BOLT, HEX, 1/2-13 X 5 (5027, 5032, 5040)

Item	Part Number	Description
13	NLT-5013	NUT, TOP LOCK, 1/2-13
14	BH-7540	BOLT, HEX, 3/4-10 X 4 GRADE 5
15	NLT-7510	NUT, TOP LOCK, 3/4-10
16	12.5L-15 10T 10997	TIRE ONLY, 10 PLY HWY (5012, 5014)
		TIRE, FS24 380/60R16.5 (5027, 5032, 5040)
17	10457	AXLE, WALKING BEAM LT (5012, 5014)
	11027	AXLE, WALKING BEAM RT (5012, 5014)
	10194	AXLE, WALKING BEAM MAIN LT (5027, 5032, AND 5040)
	10196	AXLE, WALKING BEAM MAIN RT (5027, 5032, AND 5040)
18	QT-1183	PIN, STRAIGHT
	RT-2170 RD-4416	SPINDLE, 2-1/4 X 11-1/2 (5012, 5014) SPINDLE, 3 X 12-1/2 (5027, 5032, 5040)
20	RT-2179 10998	RIM, 15 X 10, 8 BOLT, 5000 LB (5012, 5014) RIM, 16.5, 8 BOLT, (5027, 5032, 5040)
	10793 HYS-1212	LOCK, CYLINDER, 10" (5012, 5014) LOCK, CYLINDER, 12" (5027, 5032, 5040)
22	LP-3825	PIN, LYNCH, 3/8" x 2-1/2"

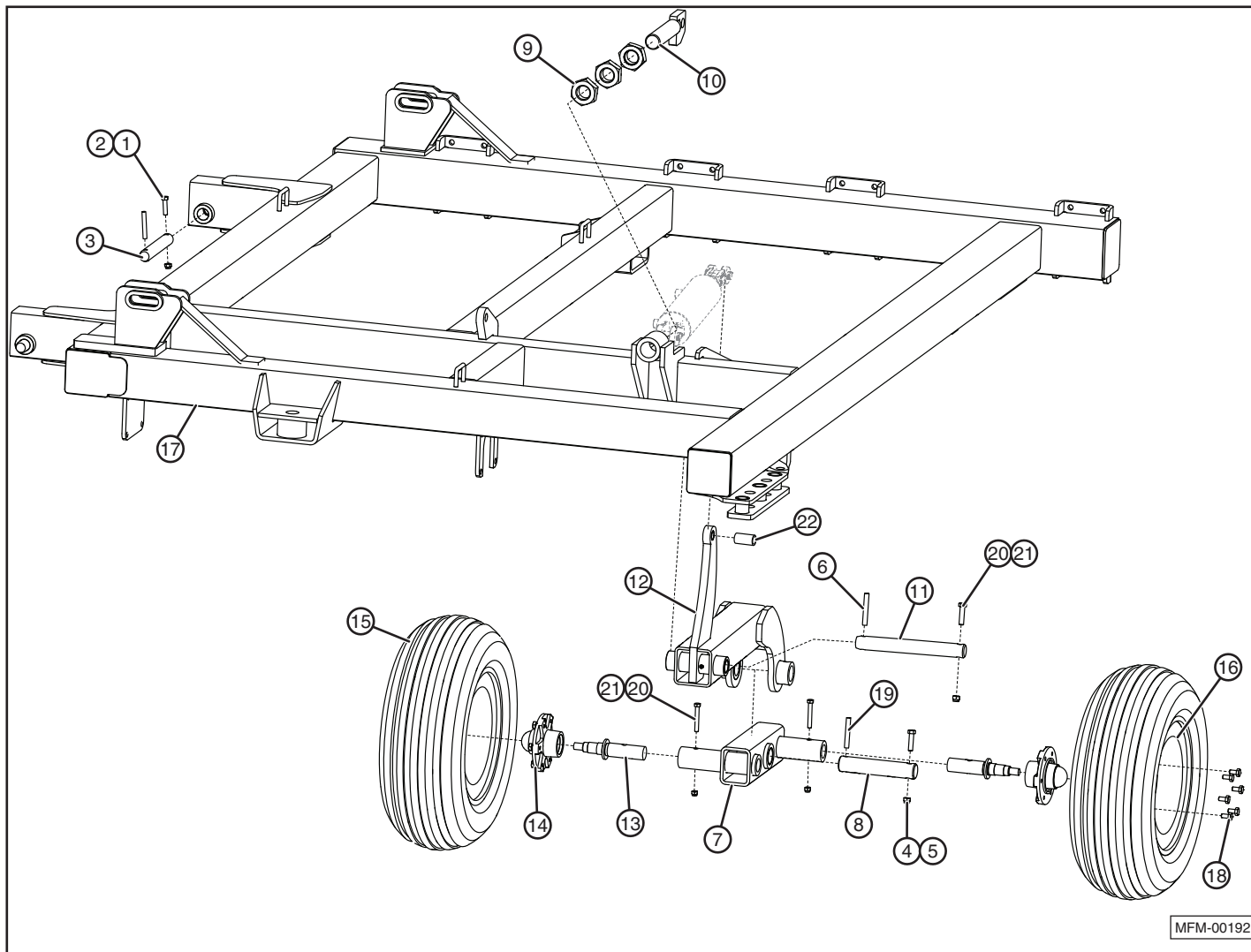
Main Frame and Axle for IC-5020 and IC-5024



Item	Part Number	Description
1	10818	MAIN FRAME
2	BHY-7525	BOLT, HEX, 3/4-10 X 2-1/2 GRADE 8
3	QT-1173	INSERT, AXLE MOUNT, SPLIT
4	10820	MAIN AXLE ASSEMBLY
5	10432 QT-1133 QT-1132	BEARING, PIVOT BUSHING, PLASTIC PLATE, COVER
6	NH-7510	NUT, HEX, 3/4-10
7	LW-0075	WASHER, LOCK, 3/4
8	BH-3813	BOLT, HEX, 3/8-16 X 1.25
9	NLT-3816	NUT, TOP LOCK, 3/8-16
10	WN-0063	WHEEL NUTS 5/8
11	RT-3185	HUB ASSEMBLY, 8 BOLT, 6000 LB
12	BH-5050	BOLT, HEX, 1/2-13 X 5

Item	Part Number	Description
13	NLT-5013	NUT, TOP LOCK, 1/2-13
14	BH-7540	BOLT, HEX, 3/4-10 X 4 GRADE 5
15	NLT-7510	NUT, TOP LOCK, 3/4-10
16	10999	TIRE, FS24 340/60R16.5
17	11227 11226	AXLE, WALKING BEAM MAIN LT AXLE, WALKING BEAM MAIN RT
18	10623	PIN, STRAIGHT
19	RT-3180	SPINDLE, 2 3/4 X 12 1/2
20	11000	RIM, 16.5, 8 BOLT
21	HYS-1212	LOCK, CYLINDER, 12"
22	LP-3825	PIN, LYNCH, 3/8" x 2-1/2"

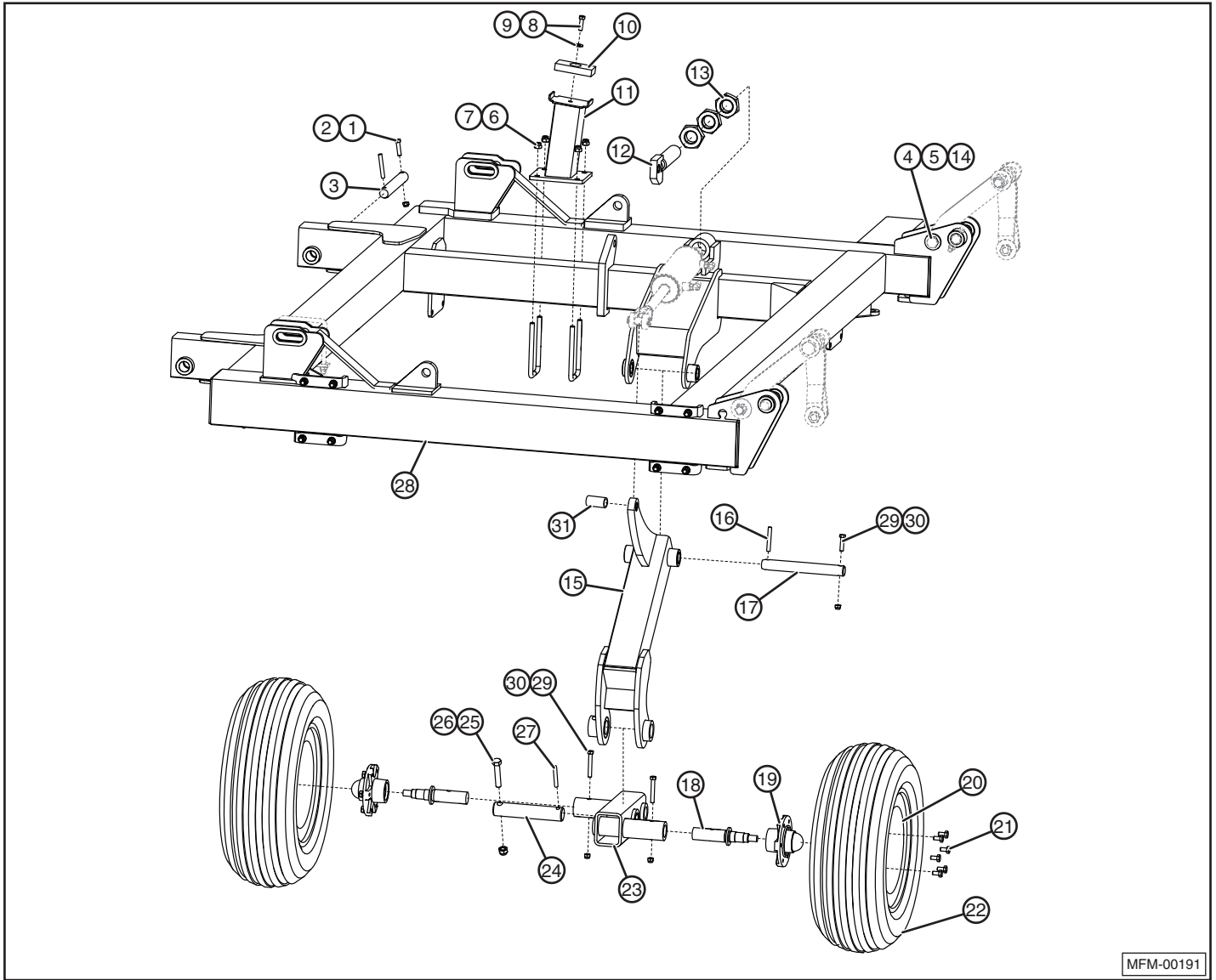
Wing Frame for IC-5020, IC-5024, IC-5027, and IC-5032



Item	Part Number	Description
1	BHY-5635	BOLT, HEX, 9/16-12 X 3-1/2 GRADE 8
2	NLT-5612	NUT, TOP LOCK, 9/16-12
3	10283	PIN, STRAIGHT, 1-1/2 X 10-5/16
4	BH-7540	BOLT, HEX, 3/4-10 X 4 GRADE 8
5	NLT-7510	NUT, TOP LOCK, 3/4-10
6	RD-5062	PIN, SPRING ROLL, 1/2 X 2-1/2
7	10197 10198	AXLE, WALKING BEAM, LT AXLE, WALKING BEAM, RT
8	10623	PIN, STRAIGHT
9	NHJ-2005	NUT, JAM, HEAVY HEX, 2-5
10	10696	PIVOT POST, ADJUSTABLE
11	RD-5061	PIN, STRAIGHT
12	10177	AXLE LINK ASSEMBLY, DUAL (all models)
13	WDL-2505	SPINDLE, 1-3/4 X 9-1/2

Item	Part Number	Description
14	HD-1371	HUB ASSEMBLY, 6-HOLE
15	11L-15 8TR	TIRE ONLY, 11L – 15, 8 PLY
16	HD-1368	RIM, 15 X 8, 6-BOLT, 2900 LB
17	10840 10841 11114 11115 10763 10764 10277 10270	WING FRAME, LEFT (5020) WING FRAME, RIGHT (5020) WING FRAME, LEFT (5024) WING FRAME, RIGHT (5024) WING FRAME, LEFT (5027) WING FRAME, RIGHT (5027) WING FRAME, LEFT (5032) WING FRAME, RIGHT (5032)
18	WB-5010	WHEEL BOLTS, 1/2-20 X 1-3/4
19	QT-1143	PIN, SPRING ROLL, 1/2 X 3-1/2
20	BHY-5035	BOLT, HEX, 1/2-13 X 3-1/2 GRADE 8
21	NLT-5013	NUT, TOP LOCK, 1/2-13

Wing Frame, Inside, for IC-5040

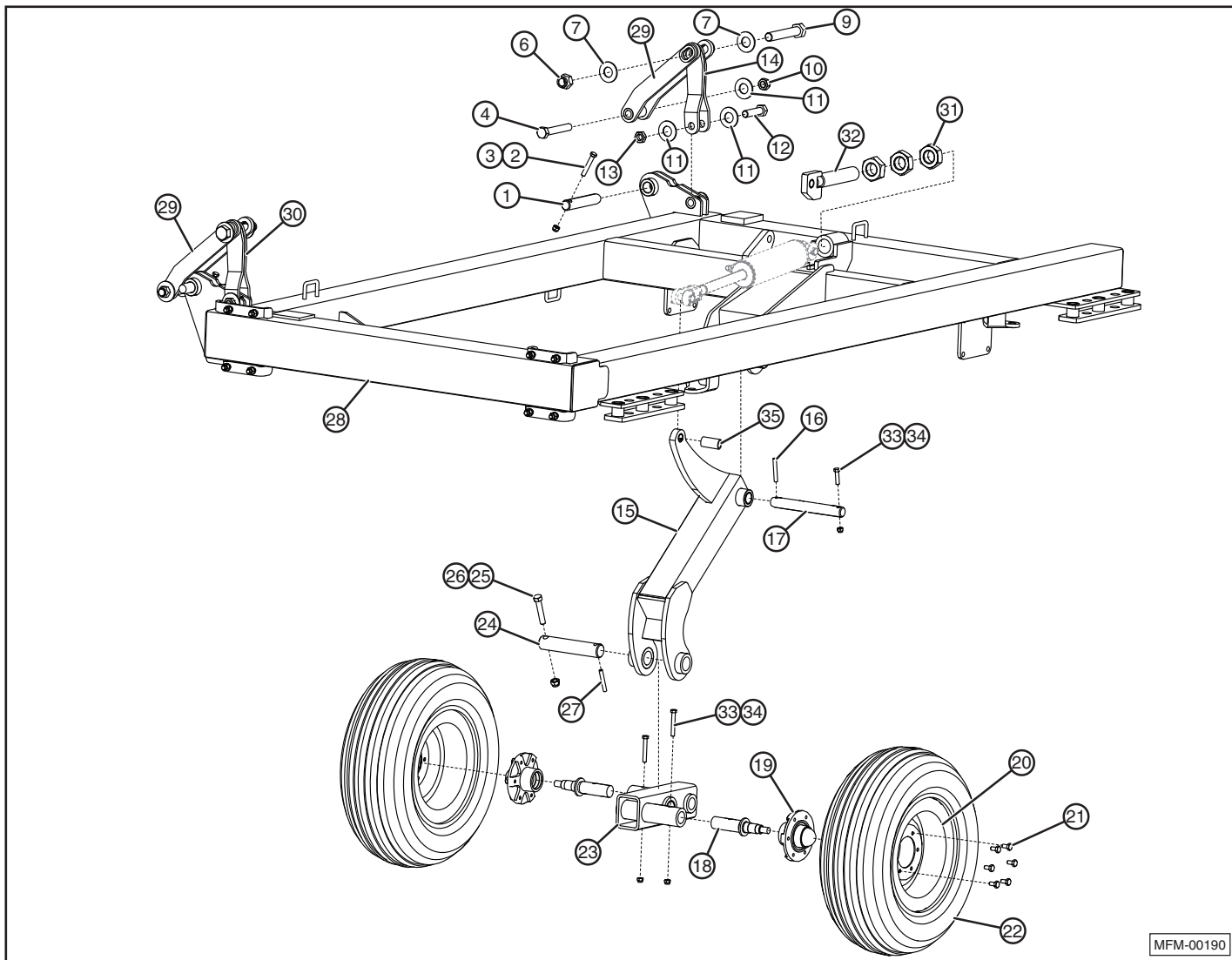


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Item	Part Number	Description
1	BHY-5635	BOLT, HEX, 9/16-12 X 3-1/2 GRADE 8
2	NLT-5612	NUT, TOP LOCK, 9/16-12
3	10283	PIN, STRAIGHT 1-1/2 X 10-5/16
4	10720	BOLT, HEX, 1-8 X 8 GRADE 8, SPECIAL
5	NLT-1008	NUT, TOP LOCK, 1-8
6	BU-5848	U-BOLT, 5/8 X 4 X 8.00
7	NLT-6311	NUT, TOP LOCK, 5/8-11
8	BH-5018	BOLT, HEX, 1/2-13 X 1-3/4
9	FW-0050	WASHER, FLAT, 1/2"
10	RT-3415	BUMPER, RUBBER
11	10265	BRACKET, WING REST
12	10696	PIVOT POST, ADJUSTABLE
13	NHJ-2005	NUT, JAM, HEAVY HEX, 2-5
14	FW-0100	1" PLAIN FLAT WASHER
15	10177	AXLE, LINK, DUAL
16	RD-5062	PIN, SPRING ROLL, 1/2 X 2.50

Item	Part Number	Description
17	RD-5061	PIN, STRAIGHT
18	WDL-2505	SPINDLE
19	HD-1371	6-HOLE HUB ASSEMBLY
20	HD-1368	RIM, 15 X 8, 6 BOLT, 2900 LB.
21	WB-5010	WHEEL BOLT, 1/2 X 1
22	11L-15 8TR	TIRE ONLY, 11L - 15, 8 PLY
23	10197 10198	AXLE, WALKING BEAM, LT AXLE, WALKING BEAM, RT
24	10623	PIN, STRAIGHT
25	BH-7540	BOLT, HEX, 3/4-10 X 4 GRADE 8
26	NLT-7510	NUT, TOP LOCK, 3/4-10
27	QT-1143	PIN, SPRING ROLL, 1/2 X 3.50
28	10141 10142	WING FRAME ASSEMBLY, LEFT INSIDE WING FRAME ASSEMBLY, RIGHT INSIDE
29	BHY-5035	BOLT, HEX, 1/2-13 X 3-1/2 GRADE 8
30	NLT-5013	NUT, TOP LOCK, 1/2-13

Wing Frame, Outside, for IC-5040

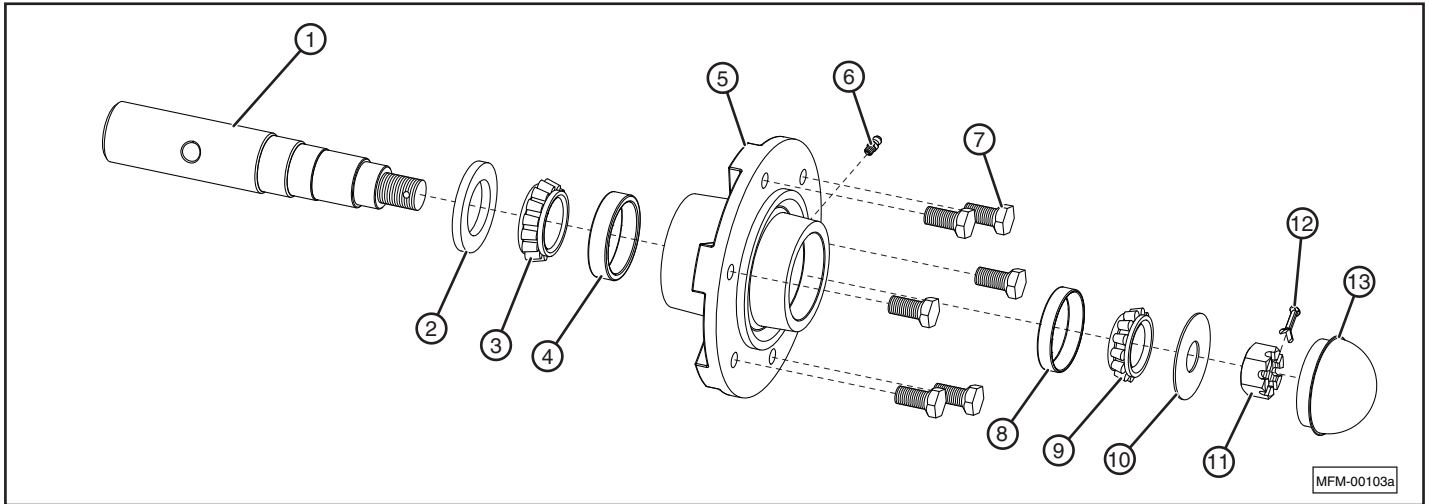


MFM-00190

Item	Part Number	Description
1	SPR-2712	HINGE PIN, 1-1/2 X 8-1/4
2	NLT-5612	NUT, TOP LOCK, 9/16-12
3	BHY-5635	BOLT, HEX, 9/16-12 X 3-1/2 GRADE 8
4	10720	BOLT, HEX, 1-8 X 6.5, GRADE 8
6	NY-1307	NUT, LOCK, NYLON, 1-1/4-7
7	FW-0125	WASHER, FLAT, 1-1/4
9	10707	BOLT, HEX, 1-1/4-7 X 7-1/2 GRADE 8
10	NLT-1008	NUT, TOP LOCK, 1-8
11	FW-0100	WASHER, FLAT, 1"
12	10722	BOLT, HEX, 1-8 X 4, GRADE 8, SPECIAL
13	NYJ-1008	NUT, LOCK, NYLON, JAM, 1-8
14	10285	LINK, YOKE (LEFT SIDE AS SHOWN) REAR LINK, YOKE (RIGHT SIDE) FRONT
15	10177	AXLE, LINK, DUAL
16	RD-5062	ROLL PIN, 1/2 X 2-1/2
17	RD-5061	PIN, STRAIGHT
18	WDL-2505	SPINDLE
19	HD-1371	6-HOLE HUB ASSEMBLY

Item	Part Number	Description
20	HD-1368	RIM, 15 X 8, 6 BOLT, 2900 LB
21	WB-5010	WHEEL BOLTS, 1/2 X 1
22	11L-15 8TR	TIRE ONLY, 11L - 15, 8 PLY
23	10197 10198	AXLE, WALKING BEAM, LT AXLE, WALKING BEAM, RT
24	10623	PIN, STRAIGHT
25	BH-7540	BOLT, HEX, 3/4-10 X 4"
26	NLT-7510	NUT, TOP LOCK, 3/4-10
27	QT-1143	PIN, SPRING, ROLL, 1/2 X 3-1/2
28	10148 10166	WING FRAME ASSEMBLY, LEFT OUTSIDE WING FRAME ASSEMBLY, RIGHT OUTSIDE
29	10289	BRACKET, LINK
30	10725	LINK, YOKE (LEFT SIDE AS SHOWN) REAR LINK, YOKE (RIGHT SIDE) FRONT
31	NHJ-2005	NUT, JAM, HEAVY HEX, 2-5
32	10696	PIVOT POST, ADJUSTABLE
33	BHY-5035	BOLT, HEX, 1/2-13 X 3-1/2 GRADE 8
34	NLT-5013	NUT, TOP LOCK, 1/2-13

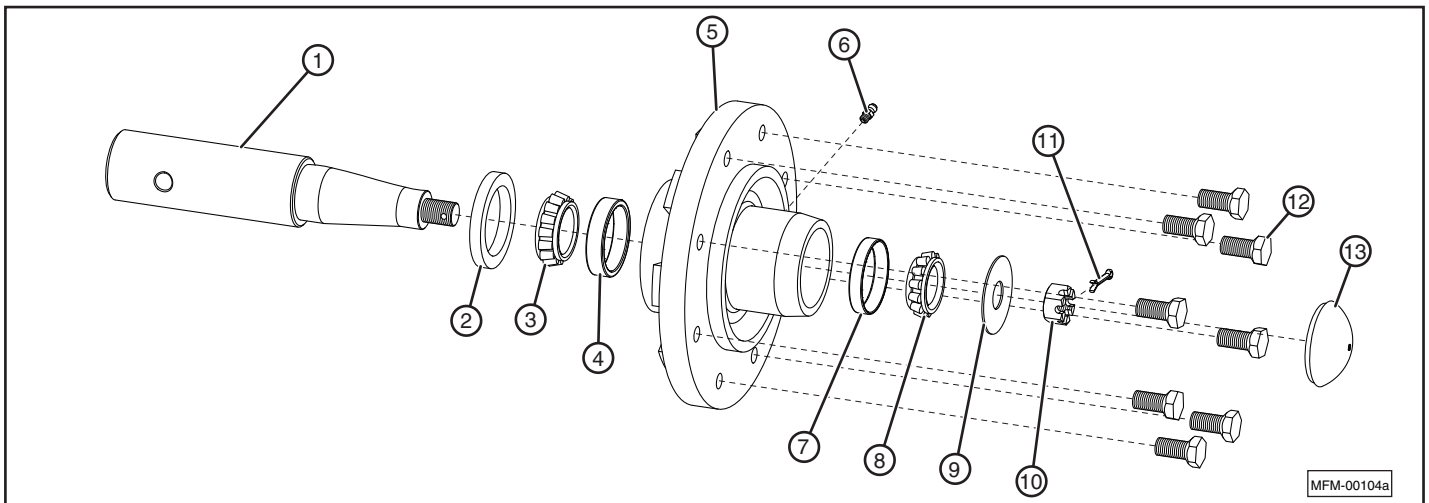
Hub Components for WDL-2507



Item	Part Number	Description
6-HOLE HUB, 3560 LB (9.5L/11L – 15 x 6 / 15 x 8 RIM)		
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-1361	HUB WITH RACES, 6 HOLE HUB
6	GZ-0601	GREASE ZERK
7	WB-5010	WHEEL BOLTS, 1/2-20 X 1-3/4

Item	Part Number	Description
8	HD-1171	OUTER RACE
9	HD-1363	OUTER BEARING
10	HD-1364	SPINDLE FLAT WASHER, 15/16
11	HD-1365	SPINDLE HEX CASTLE NUT, 7/8-14
12	CP-1517	COTTER PIN, (0.150 X 1-3/4)
13	HD-1367	DUST CAP
—	HD-1371	6-HOLE HUB ASSEMBLY (Includes items 2, 3, 5, 6, 7, 9, and 13).

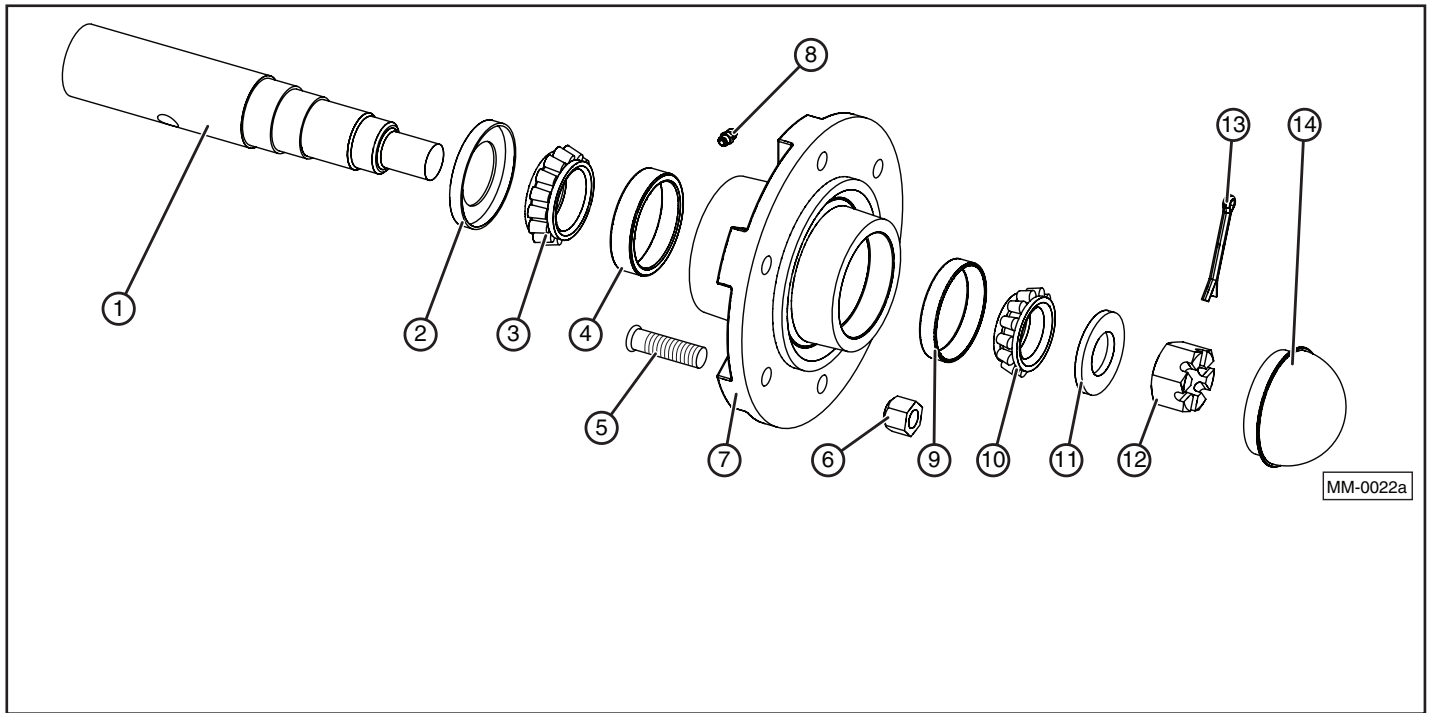
Hub Components for RT-2175



Item	Part Number	Description
8-HOLE HUB, 4500 LB (12.5L/31 X 13.5-15 x 10 RIM)		
1	RT-2170	SPINDLE, 2-1/4 X 11-1/2
2	RT-2172	GREASE SEAL, 8 HOLE HUB
3	RT-2173	INNER BEARING
4	RT-2169	INNER RACE
5	RT-2174	HUB WITH RACES, 8 HOLE HUB
6	GZ-0601	GREASE ZERK
7	HD-1171	OUTER RACE

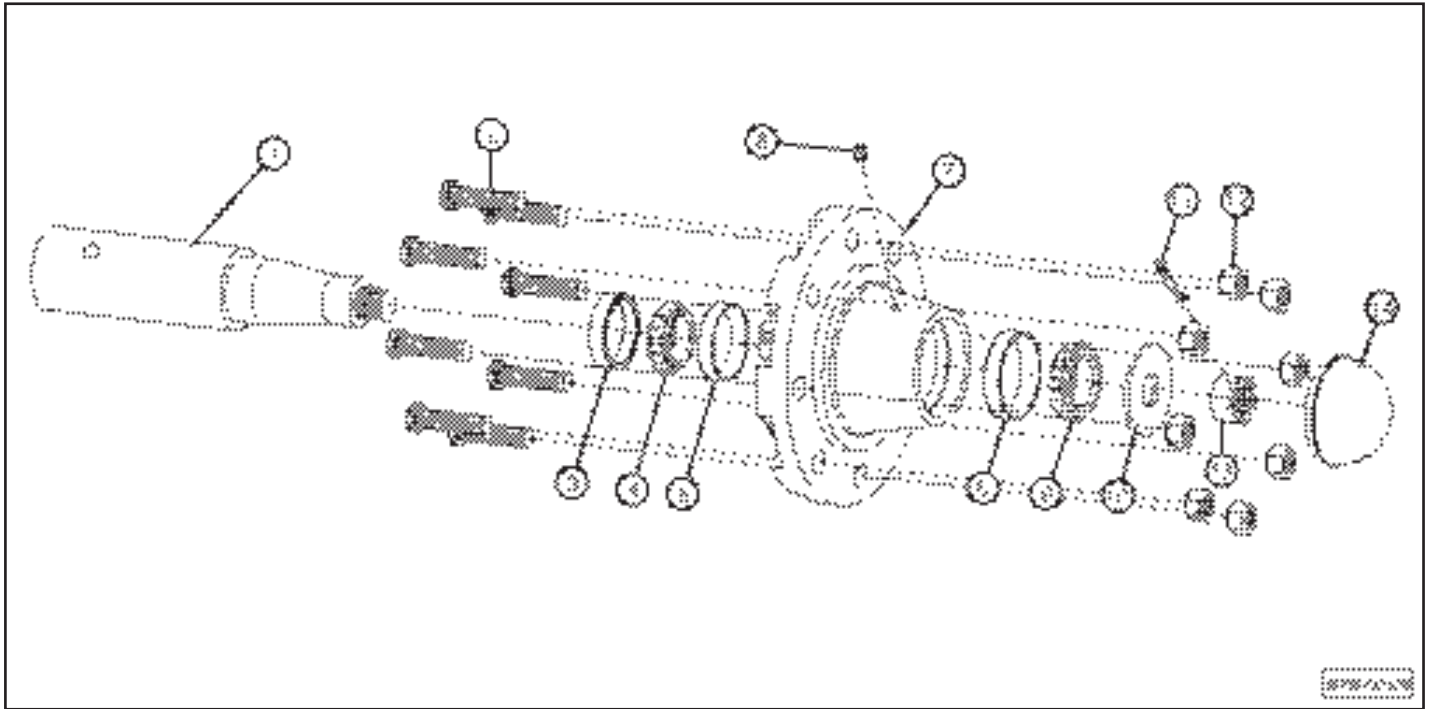
Item	Part Number	Description
8	HD-1363	OUTER BEARING
9	RT-2176	SPINDLE FLAT WASHER, 13/16
10	RT-2177	SPINDLE HEX CASTLE NUT, 3/4-16
11	CP-5312	COTTER PIN (0.150 X 1-1/4)
12	WB-5610	WHEEL BOLTS, 9/16-18 X 1-11/16
13	RT-2178	DUST CAP
—	RT-2171	8-HOLE HUB ASSEMBLY (includes items 2, 3, 5, 6, 8, 12, and 13).

Hub Components for RT-3185



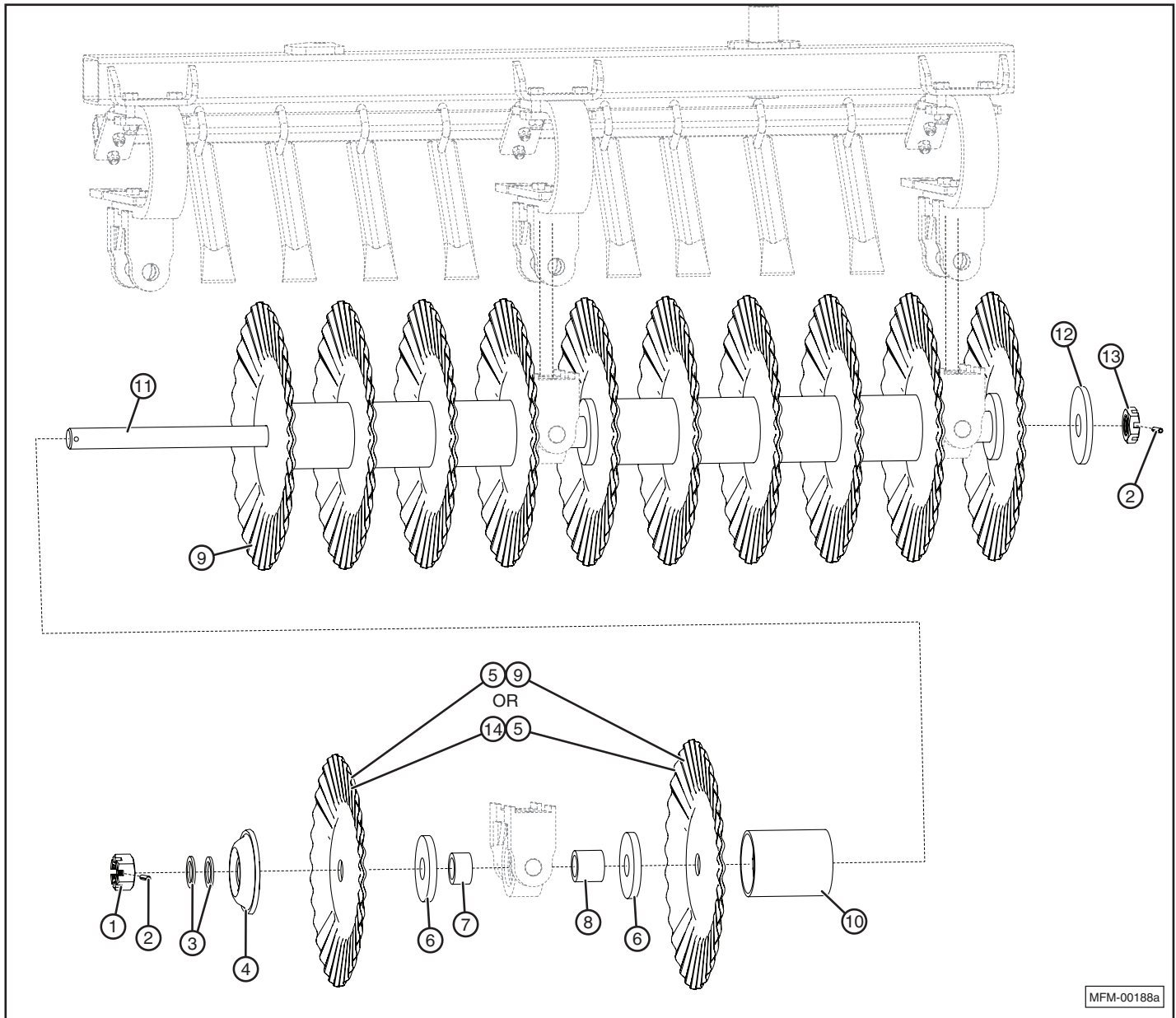
Item	Part Number	Description
1	RT-3180	SPINDLE, 2 3/4 X 12 1/2
2	RT-3182	GREASE SEAL, 8 BOLT HD HUB
3	RT-3183	INNER BEARING
4	RT-3191	INNER RACE
5	RT-3193	WHEEL STUD 5/8-18 X 2 1/2
6	WN-0063	WHEEL NUTS 5/8
7	RT-3184	HUB WITH RACES, 6 HOLE HUB
8	GZ-0601	GREASE ZERK
9	RT-3192	OUTER RACE
10	RT-3186	OUTER BEARING
11	RT-3190	SPINDLE FLAT WASHER
12	RT-3187	SPINDLE HEX CASTLE NUT
13	CP-7320	COTTER PIN (0.207 X 2)
14	RT-3188	DUST CAP
—	RT-3181	8-BOLT HUB ASSEMBLY, 6000LB

Hub Components for RD-4417



Item	Part Number	Description
8-BOLT HUB, 7500 LB (12.5L-16 HWY - 16.5 x 9.75 RIM)		
1	RD-4416	SPINDLE, 3 X 12-1/2
2	RT-3193	WHEEL STUD, 5/8-18 X 2-1/2
3	RD-4582	GREASE SEAL, 8 BOLT 7500 LB HUB
4	RD-4583	INNER BEARING
5	RD-4584	INNER RACE
6	GZ-0601	GREASE ZERK
7	RD-4581	HUB WITH RACES, 8 BOLT 7500 LB HUB
8	RT-3192	OUTER RACE
9	RT-3186	OUTER BEARING
10	RT-3190	SPINDLE FLAT WASHER, 1-5/16
11	CP-7320	COTTER PIN (0.207 X 2)
12	WN-0063	WHEEL NUTS, 5/8
13	RT-3187	SPINDLE HEX CASTLE NUT, 1-14
14	RT-3188	DUST CAP
—	RD-4580	8-BOLT HUB ASSEMBLY, 7500 LB (includes items 2, 3, 4, 6, 7, 9, 12, and 14).

Disk Gang for Incite™ 5000 Series



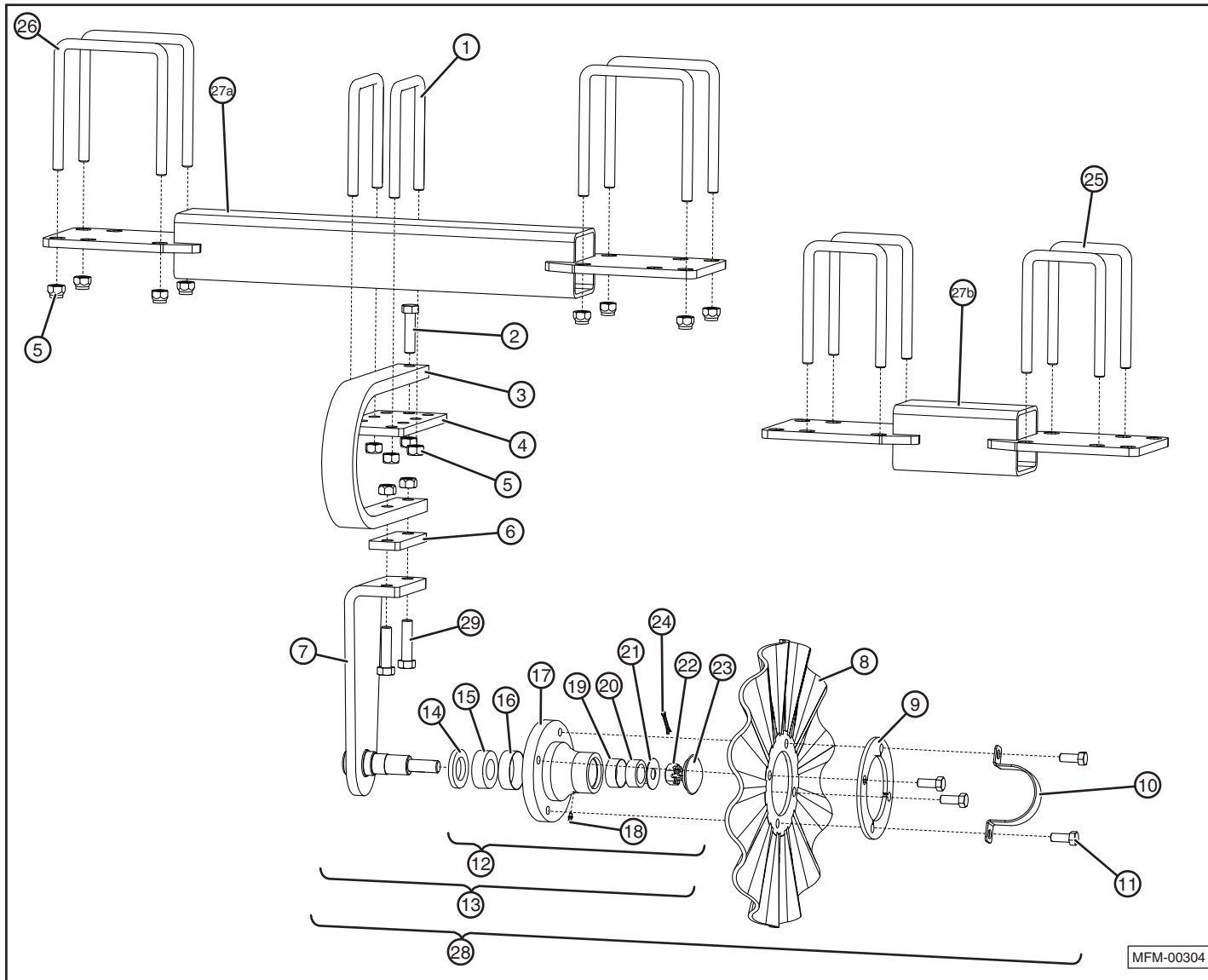
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Item	Part Number	Description
1	10657	NUT, CASTLE, 1-3/4-5, PLAIN
2	10655	PIN, SPRING ROLL, 3/8 X 2.5
3	10656	PLATE, WASHER
4	10600	WASHER, TENSION, ROUND HOLE
5	*10598	BLADE, DISK, 28 WAVE, 20" (OUTSIDE OF UNIT ONLY)
6	10729	PLATE, WASHER
7	10727	TUBE, ROUND
8	10728	TUBE, ROUND
9	10597	BLADE, DISK, 28 WAVE, 22"
10	10319	SPOOL, DISK, STRAIGHT

Item	Part Number	Description
11	10746	DISK GANG SHAFT, 8 BLADE (5032)
	10829	DISK GANG SHAFT, 9 BLADE (5020, 5024)
	10635	DISK GANG SHAFT, 11 BLADE (5012, 5027, 5040)
	10634	DISK GANG SHAFT, 12 BLADE (5014, 5024, 5027, 5032, 5040)
12	10654	PLATE, WASHER (INSIDE OF UNIT ONLY)
13	10658	NUT, CASTLE, 1-3/4-5, PLAIN (INSIDE OF UNIT ONLY)
14	*10599	BLADE, DISK, 28 WAVE, 18" (OUTSIDE OF UNIT ONLY)

* On outside of unit only. All other disk gangs have all 10597 blades.

Center Wavy Disk for Incite™ 5000 Series

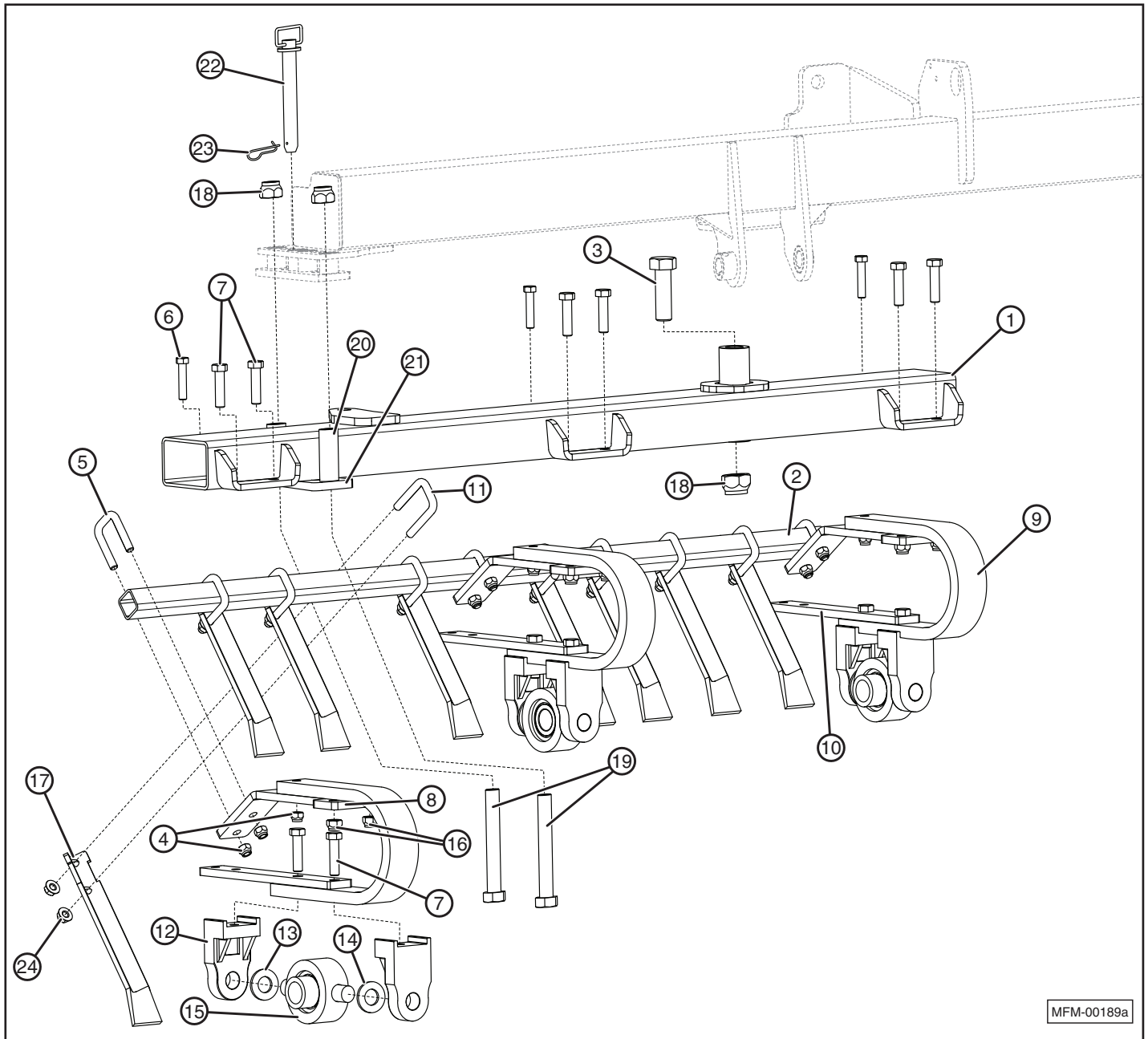


Item	Part Number	Description
1	BU-5846	U-BOLT, 5/8-11 x 4 x 6
2	BH-6325	BOLT, HEX, 5/8-11 X 2-1/2 GRADE 5
3	QT-1027	SPRING, CENTER DISK
4	QT-1028	PLATE, SPRING, CLAMP
5	NLT-6311	NUT, TOP LOCK, 5/8-11
6	RD-4919	PLATE, SPACER
7	RD-4886	DISK MOUNT ASSEMBLY, CENTER
8	RD-4265	CENTER DISK, WAVY
9	QT-1026	PLATE, CENTER DISK HUB
10	RD-5092	RETAINER, HUB
11	BHF-5013	HUB BOLT, 1/2-20 x 1-1/4
12	HD-1170	HUB ASSEMBLY
13	RD-5097	DISK MOUNT ASSEMBLY, CENTER, W/HUB (includes items 7 and 12)
14	HD-1160	GREASE SEAL
15	HD-1162	BEARING, INNER

Item	Part Number	Description
16	HD-1171	RACE, INNER
17	HD-1161	HUB WITH RACES, 4 HOLE
18	GZ-2528	ZERK, GREASE
19	HD-1172	RACE, OUTER
20	HD-1163	BEARING, OUTER
21	HD-1164	WASHER, FLAT
22	HD-1165	NUT, CASTLE
23	HD-1167	CAP, DUST
24	CP-5312	PIN, COTTER, .150 x 1-1/4
25	BU-5848	U-BOLT, 5/8-11 x 4 x 8
26	BU-5867	U-BOLT, 5/8-11 x 6 x 7
27a	11401	TUBE ASSEMBLY (5012, 5014, 5027, 5032)
27b	11406	TUBE ASSEMBLY (5020, 5024)
28	RD-5093	DISK ASSEMBLY, CENTER (includes items 13, 8, 9, 10, and 11)

Items 14 - 24 are part of HD-1170 Hub Assembly, Item 12.

Disk Mount and Scrapers for Incite™ 5000 Series



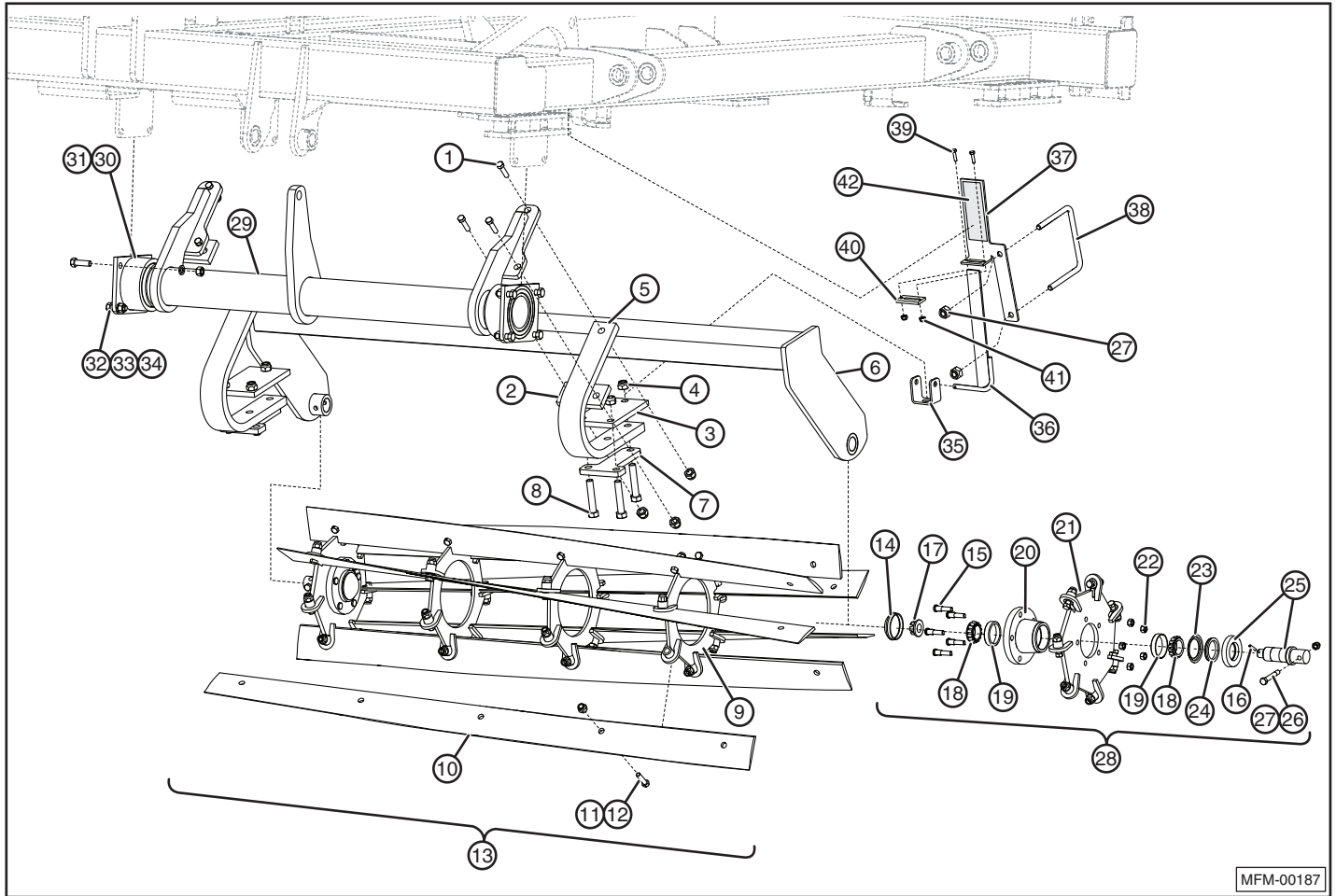
Disk Mount and Scrapers for Incite™ 5000 Series (continued)

Item	Part Number	Description
1 ¹	10836	DISK MOUNT TUBE, MAIN LT REAR (5020, 5024)
	10882	DISK MOUNT TUBE, WING LT FRONT (5020)
	10883	DISK MOUNT TUBE, WING LT REAR (5020)
	10887	DISK MOUNT TUBE, WING RT FRONT (5020)
	10885	DISK MOUNT TUBE, WING RT REAR (5020)
	10825	DISK MOUNT TUBE, MAIN LT FRONT (5020, 5024)
	10225	DISK MOUNT TUBE, MAIN LT FRONT (5014, 5027, 5032, 5040)
	10228	DISK MOUNT TUBE, MAIN RT FRONT (5014, 5027, 5032, 5040)
	10230	DISK MOUNT TUBE, MAIN LT REAR (5014, 5027, 5032, 5040)
	10252	DISK MOUNT TUBE, MAIN RT REAR (5014, 5027, 5032, 5040)
	10233	DISK MOUNT TUBE, WING LT FRONT, (5027); INSIDE & OUTSIDE WINGS LT FRONT (5040)
	10236	DISK MOUNT TUBE, WING RT FRONT, (5027); INSIDE & OUTSIDE WINGS RT FRONT (5040);
	10238	DISK MOUNT TUBE, WING LT REAR (5027); INSIDE WING LT REAR (5040); WING RT REAR (5027)
	10241	DISK MOUNT TUBE, INSIDE WING RT REAR (5040);
	10279	DISK MOUNT TUBE, WING LT FRONT (5032)
	10281	DISK MOUNT TUBE, WING LT REAR (5032)
	10316	DISK MOUNT TUBE, WING RT FRONT (5032)
	10317	DISK MOUNT TUBE, WING RT REAR (5032)
	10247	DISK MOUNT TUBE, OUTSIDE WING LT REAR (5040)
	10250	DISK MOUNT TUBE, OUTSIDE WING RT REAR (5040)
	10931	DISK MOUNT TUBE, MAIN RT FRONT (5020, 5024)
	10932	DISK MOUNT TUBE, MAIN RT REAR (5020, 5024)
	11116	DISK MOUNT TUBE, WING LT FRONT (5024)
	11117	DISK MOUNT TUBE, WING RT FRONT (5024)
	11118	DISK MOUNT TUBE, WING LT REAR (5024)
	11119	DISK MOUNT TUBE, WING RT REAR (5024)
	11154	DISK MOUNT TUBE, MAIN LT FRONT (5012)
11155	DISK MOUNT TUBE, MAIN RT FRONT (5012)	
11156	DISK MOUNT TUBE, MAIN LT REAR (5012)	
11157	DISK MOUNT TUBE, MAIN RT REAR (5012)	
2	10321	SCRAPER TUBE, MAIN (5014, 5027, 5032, 5040); WING (5024)
	10477	SCRAPER TUBE, WING (5032)
	10547	SCRAPER TUBE, MAIN (5020, 5024); WING (5020)
	RD-4968	SCRAPER TUBE, MAIN (5012); WING (5027, 5040)
	RD-4974	SCRAPER TUBE, WING (5032)

Item	Part Number	Description
3	BHY-1310	BOLT, HEX, 1-1/4-7 x 10 GRADE 8
4	NLT-6311	NUT, TOP LOCK, 5/8-11
5	BU-5823	U-BOLT, 5/8-11 x 2 x 3
6	BHY-6330	BOLT, HEX, 5/8-11 X 3 GRADE 8
7	BHY-7530	BOLT, HEX, 3/4-10 X 3 GRADE 8
8	11345	PLATE, CLAMP
9	RD-4470	SPRING, DISK GANG
10	11326	PLATE
11	BU-5824	U-BOLT, 5/8-11 x 2 x 4
12	QT-1081	BRACKET, TRUNNION
13	FW-0138	WASHER, FLAT, 1-3/8
14	RD-4842	PLATE, WASHER
15	10601	BEARING ASSEMBLY, TRUNNION
16	NLT-7510	NUT, TOP LOCK, 3/4-10
17	11367	SCRAPER
18	NY-1307	NUT, LOCK, NYLON, 1-1/4-7
19	BHY-1395	BOLT, HEX, 1-1/4-7 x 9-1/2 GRADE 8
20	QT-1209	SPACER
21	10619	DISK ADJUST CLAMP, (5012, 5014, 5020) ALL; (5024, 5027, 5040) MAIN; (5032) MAIN/WING REAR
	10666	DISK ADJUST CLAMP, WING FRONT (5024, 5027, 5032, 5040)
	10669	DISK ADJUST CLAMP, WING REAR (5024, 5027); WING REAR INNER (5040)
	10676	DISK ADJUST CLAMP, WING REAR OUTER (5040)
22	RD-4900	PIN, HITCH, 1.00"
23	RD-5076	CLIP, TWIST, 3/16
24	11454	NUT, FLANGE, LOCKING, 5/8-11

¹Refer to layout diagram for position and size on each unit.

Spiral Reel for Incite™ 5000 Series



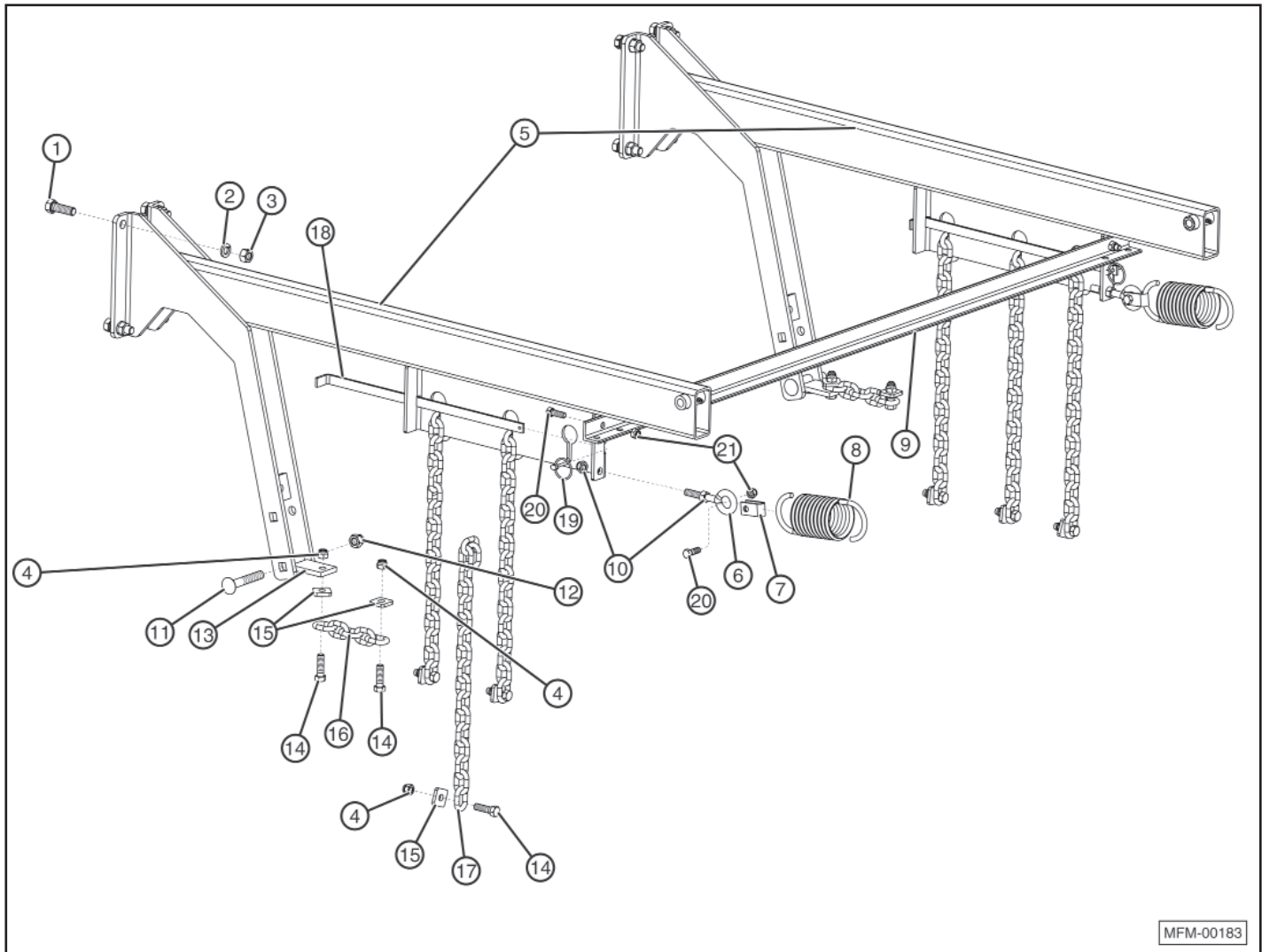
Spiral Reel for Incite™ 5000 Series (continued)

Item	Part Number	Description
1	BHY-7535	BOLT, HEX, 3/4-10 X 3-1/2, GRADE 8
2	RT-2611	PLATE, CLAMP
3	10945	PLATE, CLAMP
4	NLT-7510	NUT, LOCK, TOP, 3/4-10
5	SPR-2079	SPRING, C-SHANK, OPEN
6 ¹	10306	51" SPIRAL REEL MOUNT – 52"
	10834	58" SPIRAL REEL MOUNT – 59"
	10832	66" SPIRAL REEL MOUNT – 67"
	10203	72" SPIRAL REEL MOUNT – 73"
	10202	80" SPIRAL REEL MOUNT – 81"
7	10964	PLATE, CLAMP
8	BHY-7565	BOLT, HEX, 3/4-10 X 6.5, GRADE 8
9	RD-5002	BRACKET, SPIRAL BLADE, OPEN
10 ¹	SPR-5051	BLADE, SPIRAL REEL, 51"
	SPR-5058	BLADE, SPIRAL REEL, 58"
	SPR-5066	BLADE, SPIRAL REEL, 66"
	SPR-5072	BLADE, SPIRAL REEL, 72"
	SPR-5080	BLADE, SPIRAL REEL, 80"
11	BH-6323	BOLT, HEX, 5/8-11 X 2.25
12	NLT-6311	NUT, LOCK, TOP, 5/8-11
13 ¹	10307	SPIRAL REEL, 51"
	10891	SPIRAL REEL, 51" (5020 ONLY)
	10833	SPIRAL REEL, 58"
	10831	SPIRAL REEL, 66"
	10201	SPIRAL REEL, 72"
10152	SPIRAL REEL, 80"	
14	RD-4859	END CAP
15	RD-4861	STUD, 1/2-20 X 2"
16	RD-4863	PIN, ROLL, 1/4 X 1.5"
17	RD-4862	NUT, FLANGE, 1-14
18	RD-4857	BEARING CONE
19	RD-4858	BEARING CUP
20	RD-4855	HUB ASSEMBLY, REEL, 5 BOLT
21	RD-5001	BRACKET, SPIRAL BLADE, HUB
22	NL-5020	NUT, 1/2-20

Item	Part Number	Description
23	RD-4856	SEAL, COUNTERFACE
24	RD-4865	SEAL
25	RD-4864	SPINDLE, WITH GRASS GUARD AND SEAL
26	RD-5055	BOLT, 1/2-13 X 3-1/4, GRADE 8
27	NLT-5013	NUT, TOP LOCK 1/2-13
28	RD-4854	HUB ASSEMBLY (ITEMS 14-27)
29	10204	PIVOT TUBE, SPIRAL REEL, 80" (5012, 5014, 5032, 5040) MAIN
	10896	PIVOT TUBE, SPIRAL REEL, 51" (5020) WING
	10930	PIVOT TUBE, SPIRAL REEL, 51" (5020) WING
	10894	PIVOT TUBE, SPIRAL REEL, 58" (5020, 5024) MAIN
	10205	PIVOT TUBE, SPIRAL REEL, 72" (5024, 5027) WINGS, (5040) INSIDE WING
	10308	PIVOT TUBE, SPIRAL REEL, 2) 51" 5032 LH WING
30	10310	PIVOT TUBE, SPIRAL REEL, 2) 51" 5032 RH WING
	10206	PIVOT TUBE, SPIRAL REEL, 72" 5040 OUTSIDE WING
30	10219	BEARING, PIVOT
31	10222	BUSHING, PLASTIC
32	BH-6320	BOLT, HEX, 5/8-11 X 2"
33	NH-6311	NUT, HEX, 5/8-11
34	LW-0063	WASHER, LOCK, 5/8
35	11004	CHANNEL
36	11003	PLATE
37	10968	PLATE
38	BU-1265	U-BOLT, 1/2 X 6 X 5
39	BH-2510	BOLT, HEX, 1/4-20 X 1
40	11097	PLATE
41	NLT-2520	NUT, LOCK, TOP, 1/4-20
42	10965	DECAL, REEL DEPTH

¹Refer to layout diagram for position and size on each unit.

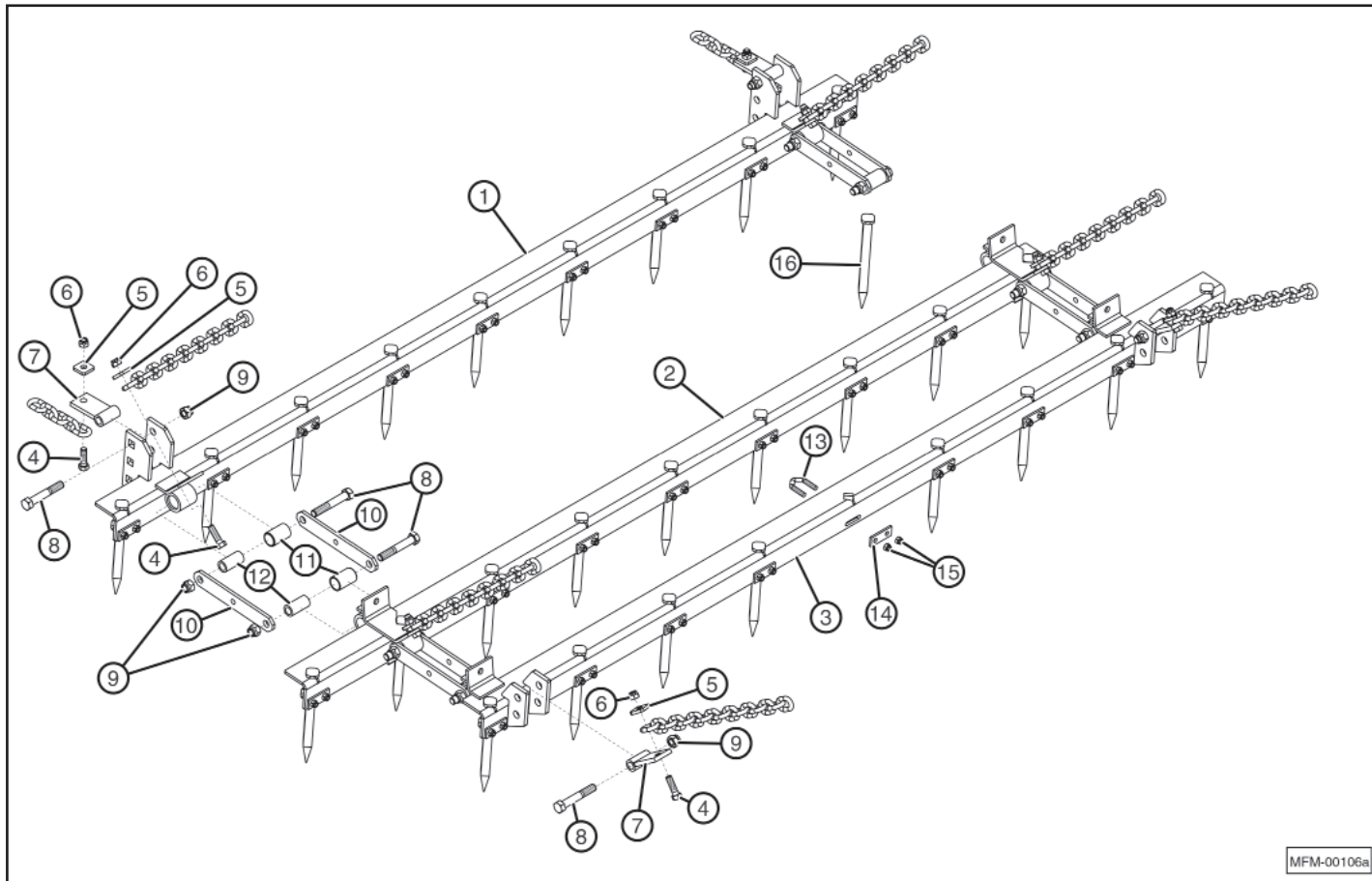
Lift Arm for Incite™ 5000 Series



Item	Part Number	Description
1	BH-6320	BOLT, HEX, 5/8-11 X 2 GRADE 5
2	LW-0063	WASHER, LOCK, 5/8
3	NH-6311	NUT, HEX, 5/8-11
4	NLT-5013	NUT, TOP LOCK, 1/2-13
5	RD-5067	ARM, LIFT
6	EB-1203	EYE-BOLT, 1/2-13 X 3
7	N-021	CLIP, LOCK
8	RBH-0308	SPRING, EXTENSION
9	RD-5071 RD-5072 RD-5073 RD-5074	BRACE ANGLE, 35 – 3/8" BRACE ANGLE, 46 – 3/8" BRACE ANGLE, 57 – 3/8" BRACE ANGLE, 68 – 3/8"
10	NH-5013	NUT, HEX, 1/2-13
11	BC-6340	BOLT, CARRIAGE, 5/8 X 4
12	NLT-6311	NUT, TOP LOCK, 5/8-11
13	FA-4105	PULL POINT ASSEMBLY
14	BH-5018	BOLT, HEX, 1/2-13 X 1-3/4 GRADE 5

Item	Part Number	Description
15	HDD-016	WASHER, SQUARE, 1/2"
16	CH-0805	PULL CHAIN, 5 LINK
17	CH-0816	LIFT CHAIN, 16 LINK
18	RD-5094	BAR, LOCK
19	PC-1913	CLICK PIN, 3/16 X 1-9/16
20	BH-4413	BOLT, HEX, 7/16-14 X 1-1/4 GRADE 5
21	NLT-4414	NUT, TOP LOCK, 7/16-14

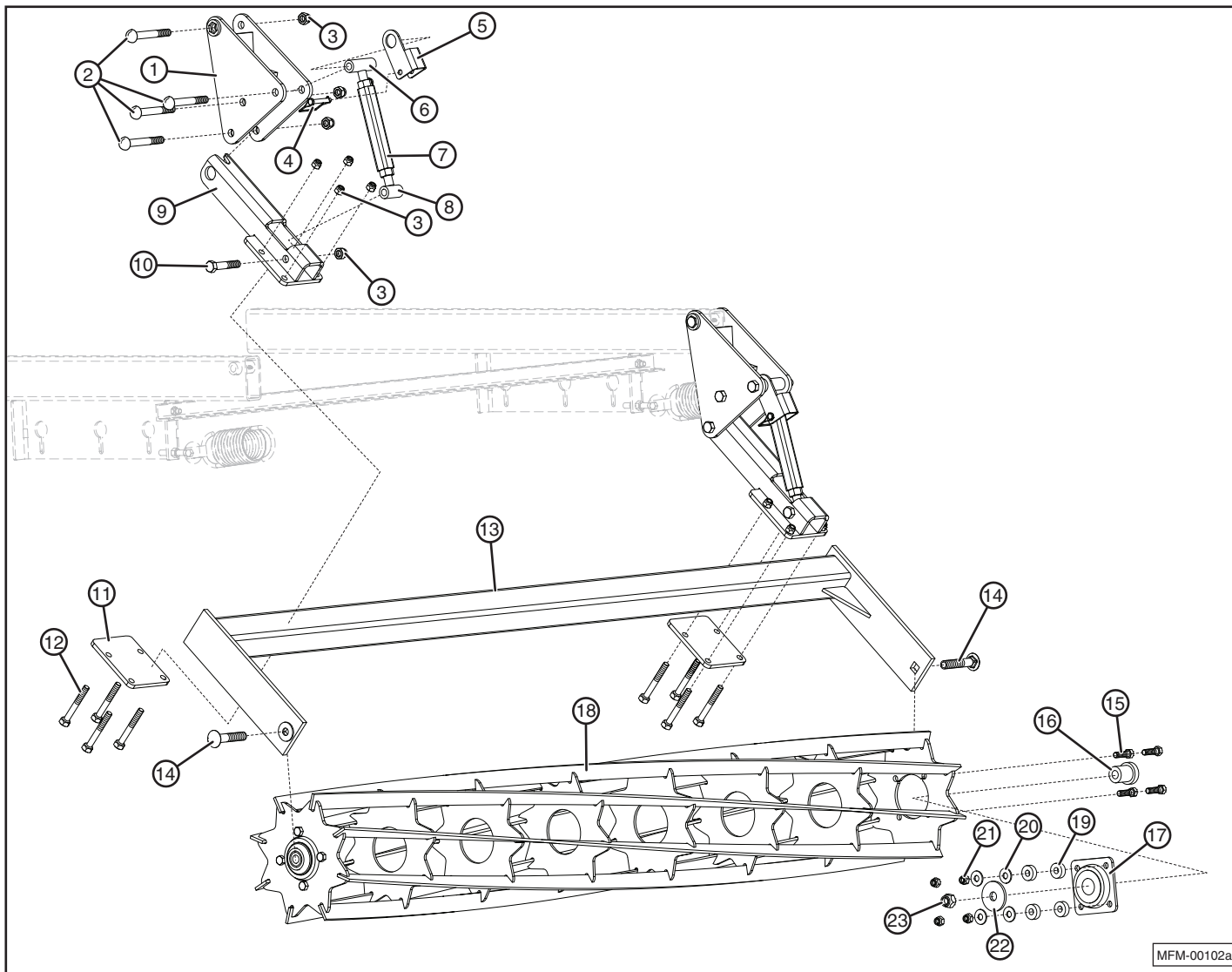
FA Harrow Section for Incite™ 5000 Series



Item	Part Number	Description
1	FA-551	NUMBER ONE HARROW BAR (FA-500-3)
	FA-651	NUMBER ONE HARROW BAR (FA-600-3)
	FA-751	NUMBER ONE HARROW BAR (FA-700-3)
	FA-851	NUMBER ONE HARROW BAR (FA-800-3)
	FA-951	NUMBER ONE HARROW BAR (FA-900-3)
2	FA-556	NUMBER TWO HARROW BAR (FA-500-3)
	FA-656	NUMBER TWO HARROW BAR (FA-600-3)
	FA-756	NUMBER TWO HARROW BAR (FA-700-3)
	FA-856	NUMBER TWO HARROW BAR (FA-800-3)
	FA-956	NUMBER TWO HARROW BAR (FA-900-3)
3	FA-557	NUMBER THREE HARROW BAR (FA-500-3)
	FA-657	NUMBER THREE HARROW BAR (FA-600-3)
	FA-757	NUMBER THREE HARROW BAR (FA-700-3)
	FA-857	NUMBER THREE HARROW BAR (FA-800-3)
	FA-957	NUMBER THREE HARROW BAR (FA-900-3)
4	BH-5018	BOLT, HEX, 1/2-13 X 1-3/4 GRADE 5
5	HDD-016	WASHER, SQUARE, 1/2"

Item	Part Number	Description
6	NLT-5013	NUT, TOP LOCK, 1/2-13
7	FA-4105	PLATE, PIVOT
8	BH-6340	BOLT, HEX, 5/8-11 X 4 GRADE 5
9	NLT-6311	NUT, TOP LOCK, 5/8-11
10	CT-105	CONNECTOR, FLAT
11	CT-107	BUSHING, OUTER
12	CT-102	BUSHING, INNER
13	BV-3812	3/8" V BOLT
14	FA-4103	PLATE, 3/8" V-BOLT
15	NLT-3816	NUT, TOP LOCK, 3/8-16
16	FA-4110	TOOTH, 3/4" X 10"

Rolling Basket for Incite™ 5000 Series

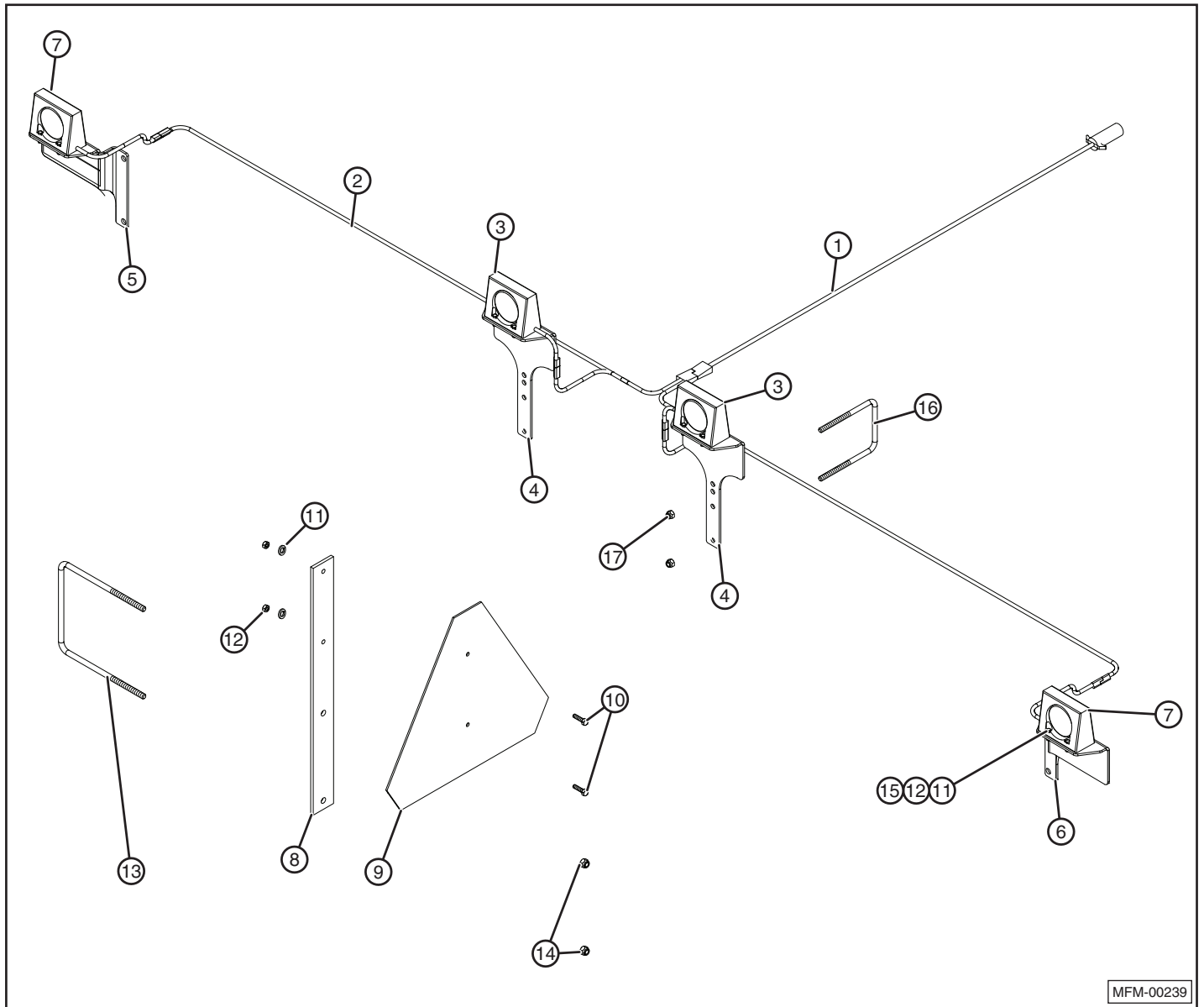


Item	Part Number	Description
1	RD-5065	BRACKET, PIVOT
2	RD-5066	BOLT, CARRIAGE, 5/8-11 x 5, GRADE 5, SPL
3	NLT-6311	NUT, TOP LOCK 5/8-11
4	LP-3825	PIN, LYNCH, 3/8 X 2-1/2
5	RD-5070	LOCK, TURNBUCKLE
6	RT-2411	PIVOT, TURNBUCKLE
7	RD-5068	TUBE, TURNBUCKLE
8	RT-2413	PIVOT, TURNBUCKLE
9	11021	LINK, PIVOT
10	BH-6340	BOLT, HEX, 5/8-11 X 4, GRADE 5
11	11024	PLATE, CLAMP
12	BH-6350	BOLT, HEX, 5/8-11 X 5, GRADE 5
13	RD-5080 RD-5079 RD-5078 RD-5077	BASKET MOUNT TUBE – 52" BASKET MOUNT TUBE – 63" BASKET MOUNT TUBE – 74" BASKET MOUNT TUBE – 85"
14	BC-7540	BOLT, CARRIAGE, 3/4-10 X 4, GRADE 5
15	BH-5018	BOLT, HEX, 1/2-13 X 1-3/4 GRADE 5

Item	Part Number	Description
16	SRB-1408	BUSHING, STEPPED
17	DRB-3826	BEARING, FLANGED, 1.50, RND
18 ¹	SRB-1552 SRB-1563 SRB-1574 SRB-1585	ROLLING BASKET – 52" ROLLING BASKET – 63" ROLLING BASKET – 74" ROLLING BASKET – 85"
19	DRB-3828	WASHER, RUBBER, 1/2
20	FW-0050	WASHER, FLAT, 1/2
21	NLT-5013	NUT, TOP LOCK, 1/2-13
22	SRB-1406	PLATE, WASHER
23	NLT-7510	NUT, TOP LOCK, 3/4-10

¹Refer to layout diagram for position and size on each unit.

Lighting Diagram for Incite™ 5000 Series

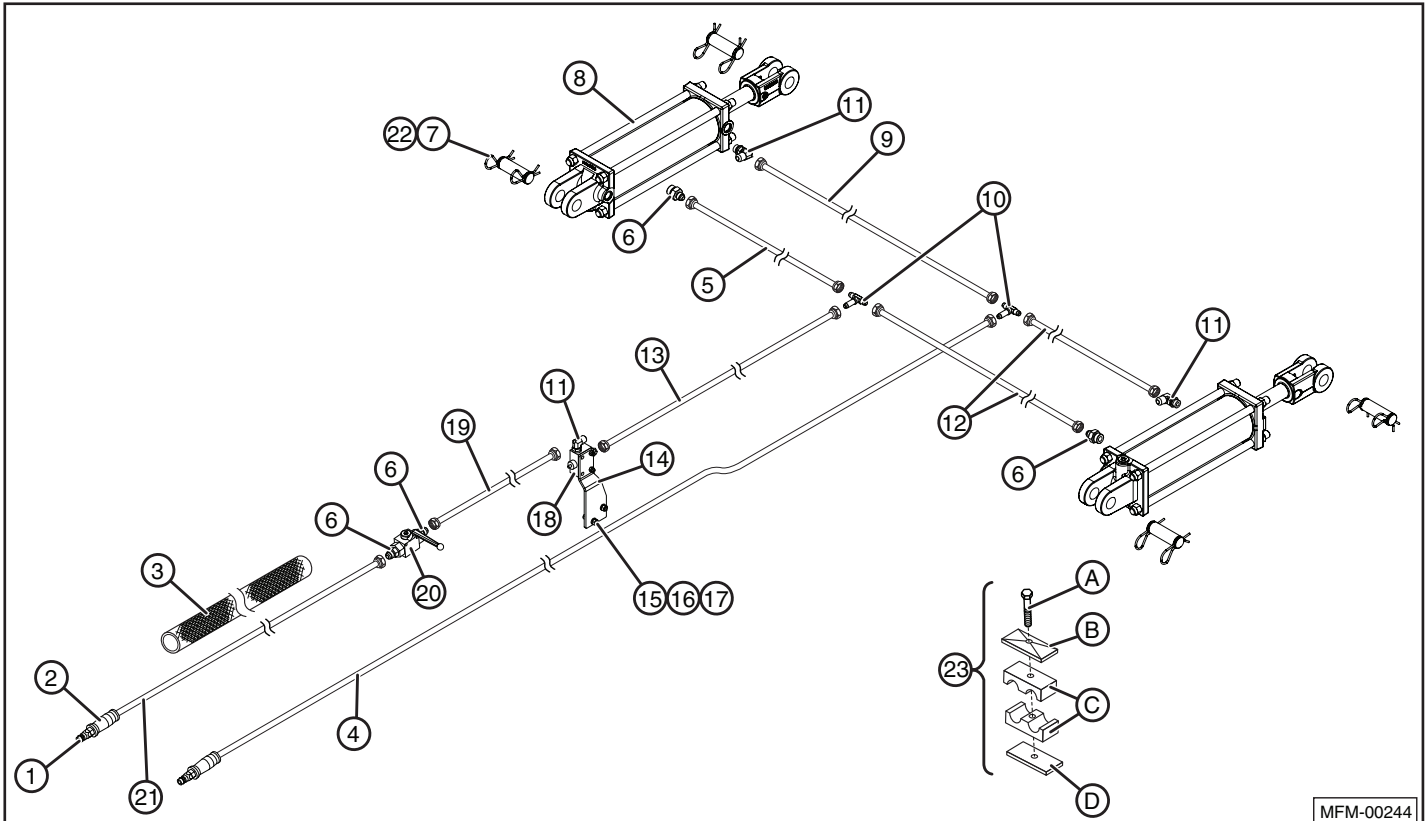


MFM-00239

Item	Part Number	Description
1	LB-1325	LIGHT HARNESS, STRAIGHT , 25'
2	LB-1620	LIGHT HARNESS, WISHBONE
3	LB-1107	LIGHT, RED
4	RD-5056	BRACKET, LIGHT, SINGLE
5	RD-5057	BRACKET, LIGHT, SINGLE, LT
6	RD-5058	BRACKET, LIGHT, SINGLE, RT
7	LB-1106	LIGHT, AMBER
8	LB-1203	BRACKET, SMV MOUNT
9	MM-1300	SIGN, SMV

Item	Part Number	Description
10	BH-2510	BOLT, 1/4-20 x 1"
11	LW-0025	WASHER, LOCK, 1/4
12	NH-2520	NUT, 1/4-20
13	BU-3878	U-BOLT, 3/8-16 x 7" x 8"
14	NLT-3816	NUT, TOP LOCK, 3/8-16
15	BH-2513	BOLT, 1/4-20 x 1-1/4"
16	BU-1278	U-BOLT, 1/2-13 x 7" x 8-1/4"
17	NLT-5013	NUT, TOP LOCK, 1/2-13

Axle Hydraulics for IC-5012 and IC-5014



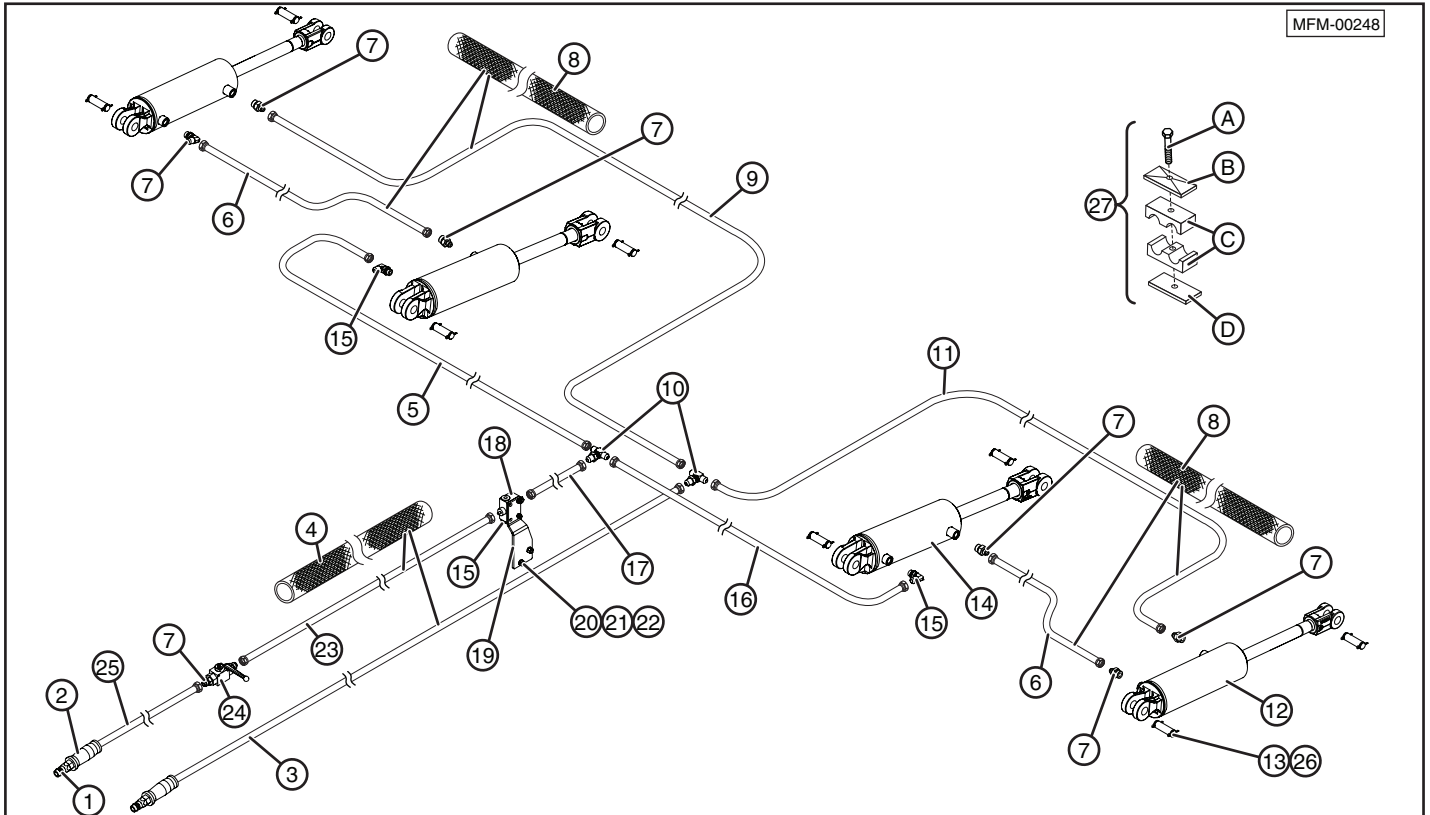
MFM-00244

Item	Part Number	Description
1	HYF-4002	HYDRAULIC DISCONNECT, MALE
2	HYO-1212	HYD GRIP, YELLOW
3	HYS-2007	HYD COVER, HOSE, 70"
4	HYH-9204	HOSE, HYDRAULIC
5	HYH-8038	HOSE, HYDRAULIC
6	HYF-3820	HYD ADAPTER, 9/16 M - 3/4 MORB
7	HY-2103	PIN, CYLINDER CLEVIS, 1 X 3-12
8	10591	HYDRAULIC CYLINDER
9	HYH-8048	HOSE, HYDRAULIC
10	HYF-1888	HYD TEE, 9/16 M - 9/16 M - 9/16 M
11	HYF-2820	HYD ELBOW, 9/16 M - 3/4 MORB
12	HYH-8076	HOSE, HYDRAULIC
13	HYH-8036	HOSE, HYDRAULIC
14	RD-4915	PLATE, OFFSET
15	BH-3815	BOLT, HEX, 3/8-16 x 1-1/2"
16	LW-0038	WASHER, LOCK, 3/8"

Item	Part Number	Description
17	NH-3816	NUT, HEX, 3/8-16
18	HYO-3021 HYF-0150	HYDRAULIC STOP VALVE HYD PLUG, 1/2 ORB IN HYO-3021 (NOT SHOWN).
19	HYH-8090	HOSE, HYDRAULIC
20	QT-1172	HYD VALVE, BALL
21	HYH-9096	HOSE, HYDRAULIC
22	135995	PIN, COTTER
23	10795	CLAMP ASSEMBLY, HYDRAULIC
A	HYO-1008	BOLT, HEX, 5/16-18 X 1-3/8
B	HYO-1004	COVER, HYD CLAMP
C	10796	BODY, HYD CLAMP
D	HYO-1206	PLATE, HYD CLAMP

Axle Hydraulics for IC-5020, IC-5024, IC-5027, and IC-5032

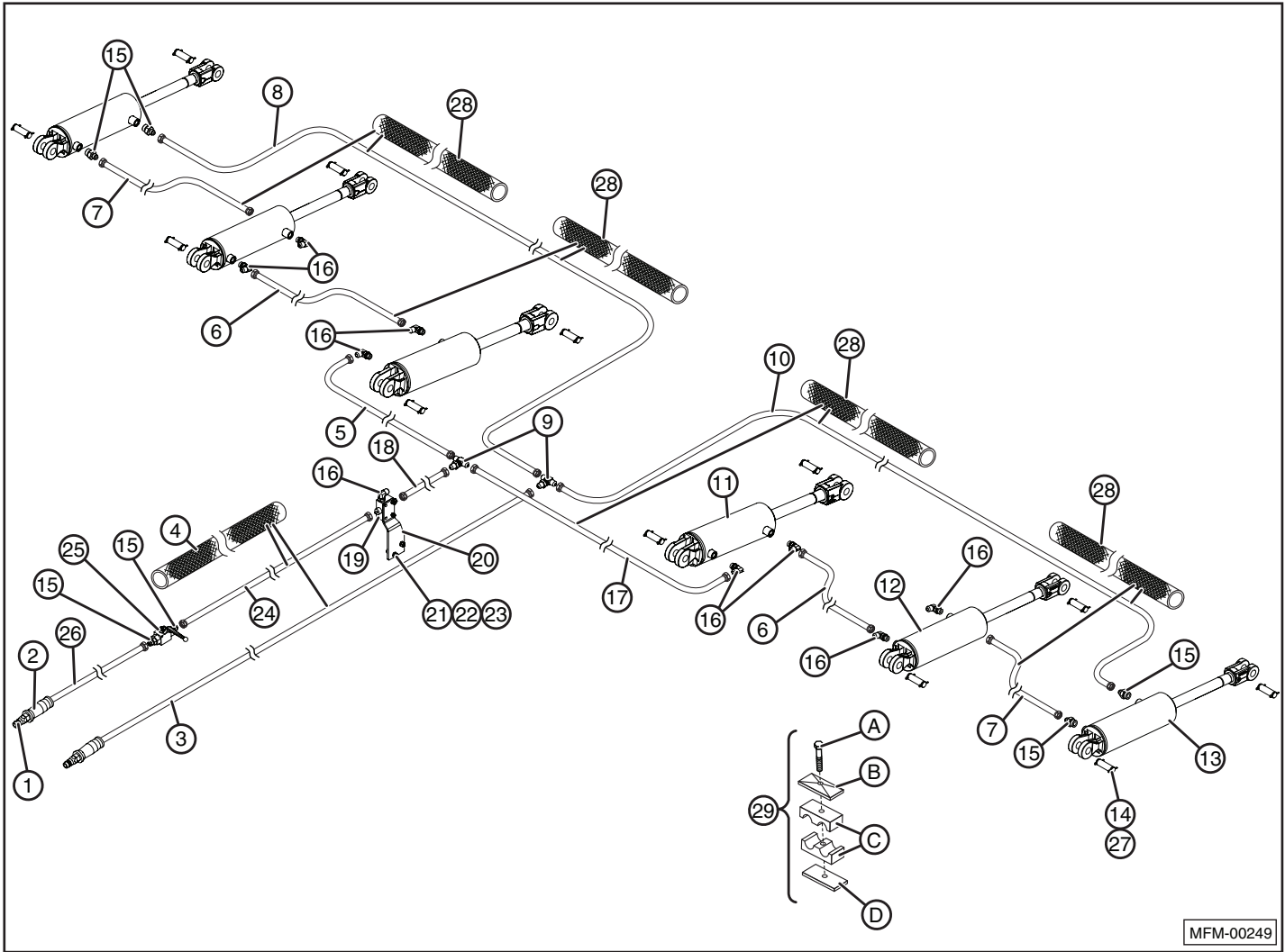
MFM-00248



Item	Part Number	Description
1	HYF-4002	HYDRAULIC DISCONNECT, MALE
2	HYO-1212	HYD GRIP, YELLOW
3	10975 HYH-3206	HOSE, HYDRAULIC (5020 and 5024) HOSE, HYDRAULIC (5027 and 5032)
4	HYS-2007	HYD COVER, HOSE, 70"
5	10976 HYH-2050	HOSE, HYDRAULIC (5020 and 5024) HOSE, HYDRAULIC (5027 and 5032)
6	HYH-2052 HYH-2072 HYH-2076 HYH-2101	HOSE, HYDRAULIC (5020) HOSE, HYDRAULIC (5024) HOSE, HYDRAULIC (5027) HOSE, HYDRAULIC (5032)
7	HYF-3220	ADAPTER (1/2 M – 1/2 O-RING)
8	HYS-2011 HYS-2007	HYD COVER, HOSE, 48" (5020, 5024 and 5027) HYD COVER, HOSE, 70" (5032)
9	HYH-2096 HYH-2112 HYH-2122 HYH-2144	HOSE, HYDRAULIC (5020) HOSE, HYDRAULIC (5024) HOSE, HYDRAULIC (5027) HOSE, HYDRAULIC (5032)
10	HYF-1222	TEE (1/2 M – 1/2 M – 1/2 M)
11	HYH-2115 HYH-2122 HYH-2160 HYH-2182	HOSE, HYDRAULIC (5020) HOSE, HYDRAULIC (5024) HOSE, HYDRAULIC (5027) HOSE, HYDRAULIC (5032)
12	10323 10324	HYD CYLINDER, REPHASING, 4 X 10 (5027 and 5032) HYD CYLINDER, REPHASING, 3.75 X 10 (5020 and 5024)
13	HYO-2103	CYLINDER CLEVIS PIN, 1 X 3-1/2

Item	Part Number	Description
14	10322 10323	HYD CYLINDER, REPHASING, 4.25 X 10 (5027 and 5032) HYD CYLINDER, REPHASING, 4 X 10 (5020 and 5024)
15	HYF-2220	ELBOW (1/2" M – 1/2" F)
16	HYH-2065 HYH-2086	HOSE, HYDRAULIC (5020 and 5024) HOSE, HYDRAULIC (5027 and 5032)
17	HYH-2052 10847	HOSE, HYDRAULIC (5020 and 5024) HOSE, HYDRAULIC (5027 and 5032)
18	HYO-3021 HYF-0150	HYDRAULIC STOP VALVE HYD PLUG, 1/2 ORB IN HYO-3021 (NOT SHOWN).
19	RD-4915	PLATE, OFFSET
20	BH-3815	BOLT, HEX, 3/8-16 x 1-1/2"
21	LW-0038	WASHER, LOCK, 3/8"
22	NH-3816	NUT, HEX, 3/8-16
23	HYH-2084 HYH-2090	HOSE, HYDRAULIC (5020 and 5024) HOSE, HYDRAULIC (5027 and 5032)
24	QT-1172	HYDRAULIC VALVE, BALL
25	10846	HOSE, HYDRAULIC
26	135995	PIN, COTTER
27	10795	CLAMP ASSEMBLY, HYDRAULIC
A	HYO-1008	BOLT, HEX, 5/16-18 X 1-3/8
B	HYO-1004	COVER, HYD CLAMP
C	10796	BODY, HYD CLAMP
D	HYO-1206	PLATE, HYD CLAMP

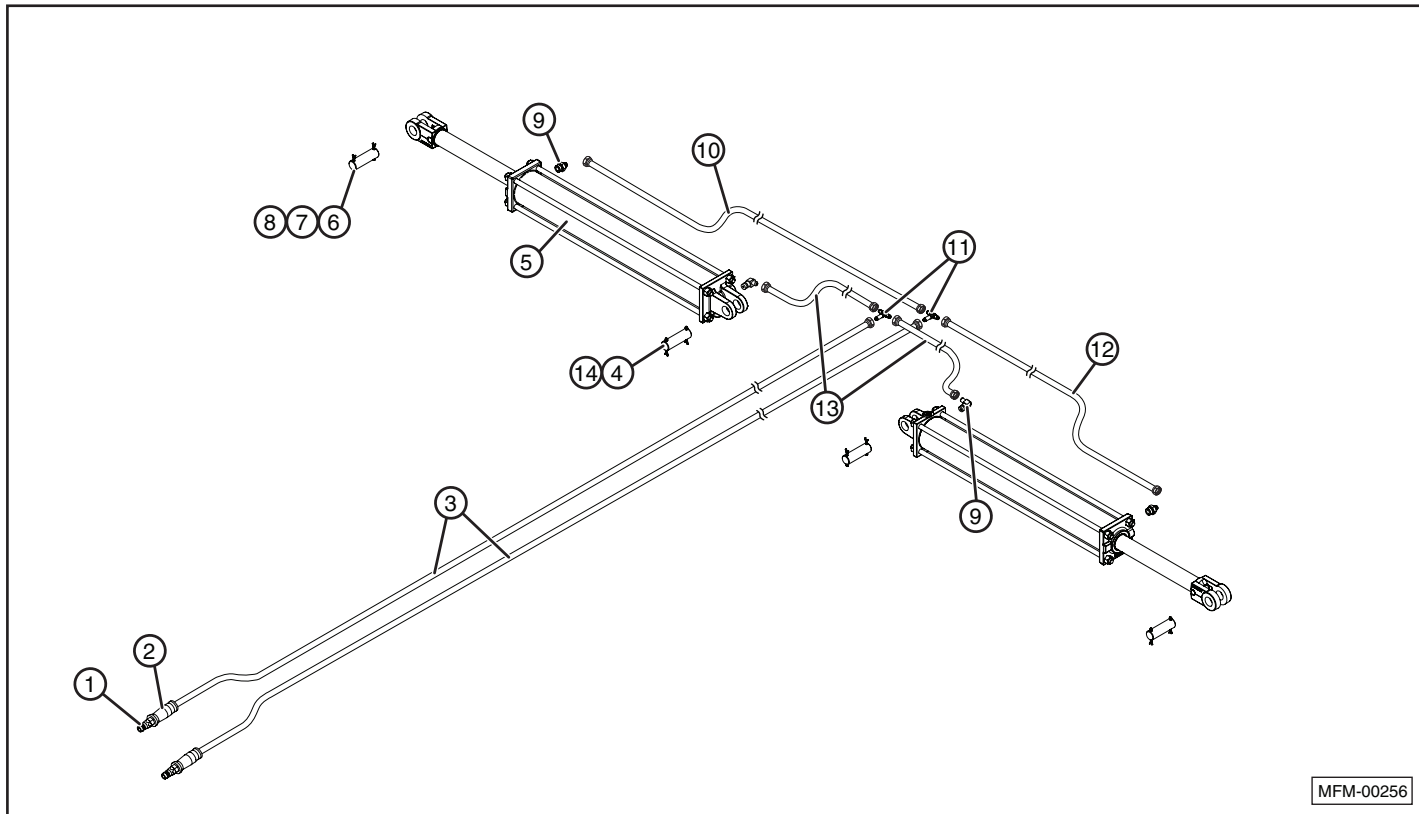
Axle Hydraulics for IC-5040



Item	Part Number	Description
1	HYF-4002	HYDRAULIC DISCONNECT, MALE
2	HYO-1212	HYD GRIP, YELLOW
3	HYH-3206	HOSE, HYDRAULIC
4	HYS-2007	HYD COVER, HOSE, 70"
5	HYH-2050	HOSE, HYDRAULIC
6	HYH-2094	HOSE, HYDRAULIC
7	HYH-2084	HOSE, HYDRAULIC
8	HYF-2216	HOSE, HYDRAULIC
9	HYF-1222	HYD TEE, BULK, 3/4 M - 3/4 M - 3/4 M
10	10848	HOSE, HYDRAULIC
11	10322	HYD CYLINDER, REPHASING, 4.25 X 10
12	10323	HYD CYLINDER, REPHASING, 4.00 X 10
13	10324	HYD CYLINDER, REPHASING, 3.75 X 10
14	HYO-2103	PIN, CYLINDER CLEVIS, 1 X 3-1/2
15	HYF-3220	HYD ADAPTER, 3/4 F - 3/4 ORB
16	HYF-2220	HYD ELBOW, 3/4 F - 3/4 ORB
17	HYH-2086	HOSE, HYDRAULIC
18	10847	HOSE, HYDRAULIC

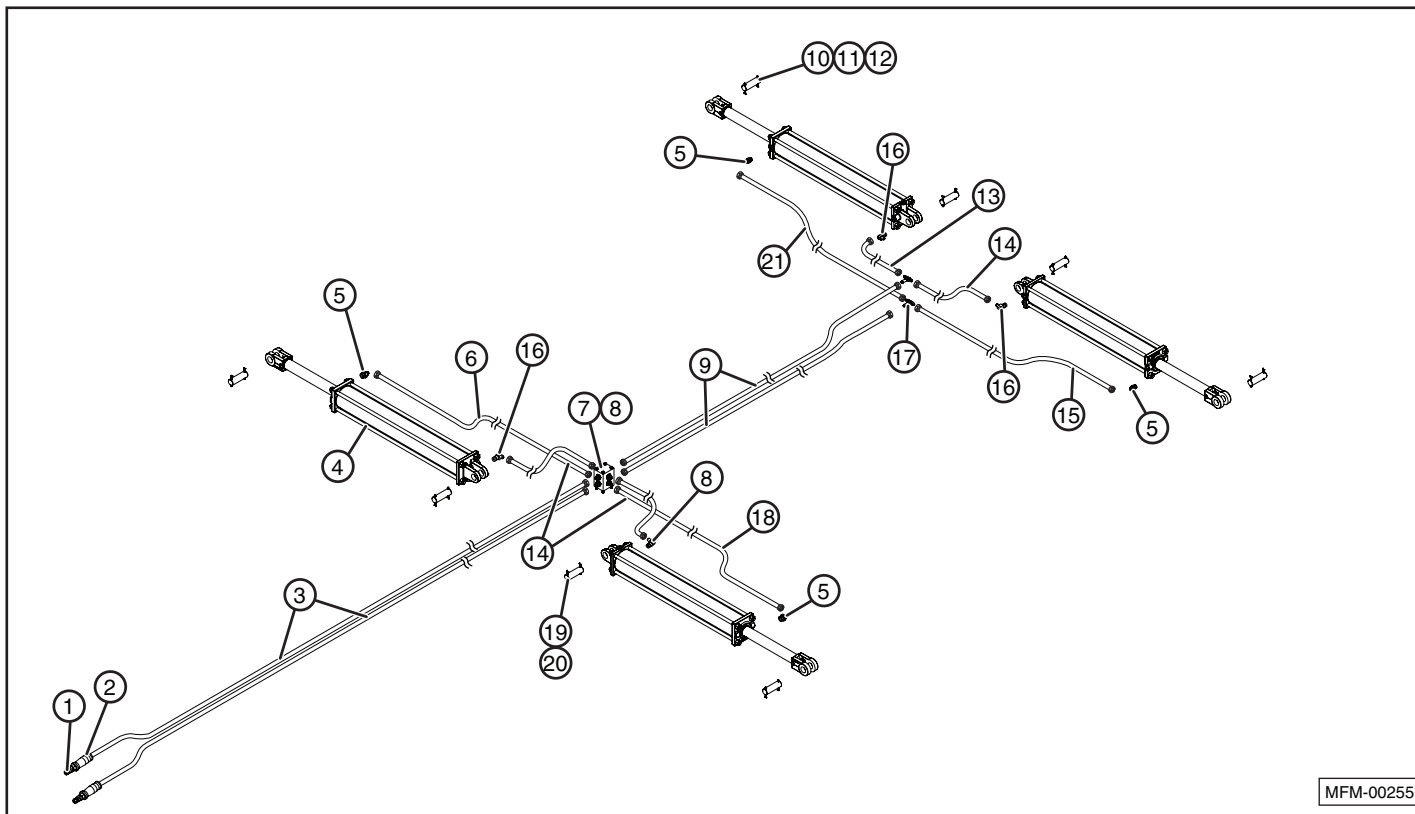
Item	Part Number	Description
19	HYO-3021 HYF-0150	HYDRAULIC STOP VALVE HYD PLUG, 1/2 ORB IN HYO-3021 (NOT SHOWN).
20	RD-4915	PLATE, OFFSET
21	BH-3815	BOLT, HEX, 3/8-16 x 1-1/2"
22	LW-0038	WASHER, LOCK, 3/8"
23	NH-3816	NUT, HEX, 3/8-16
24	HYH-2090	HOSE, HYDRAULIC
25	QT-1172	HYDRAULIC VALVE, BALL
26	10846	HOSE, HYDRAULIC
27	135995	PIN, COTTER
28	HYS-2006	HYD COVER, HOSE, 60"
29	10795	CLAMP ASSEMBLY, HYDRAULIC
A	HYO-1008	BOLT, HEX, 5/16-18 X 1-3/8
B	HYO-1004	COVER, HYD CLAMP
C	10796	BODY, HYD CLAMP
D	HYO-1206	PLATE, HYD CLAMP

Wing Fold Hydraulics for IC-5020



Item	Part Number	Description
1	HYF-4002	HYDRAULIC DISCONNECT
2	HYO-1210	HYD GRIP, RED
3	10977	HOSE, HYDRAULIC
4	HYO-2123	PIN, CLEVIS, CYLINDER, 1-1/4 X 3-1/2
5	10595	HYDRAULIC CYLINDER
6	CL-1307	PIN, CLEVIS, 1-1/4 x 7.0
7	FW-0125	WASHER, FLAT, 1-1/4
8	CP-1420	PIN, COTTER, 1/4 x 2.00
9	HYF-2820	HYD ELBOW, 9/16 M - 3/4 MORB
10	10979	HOSE, HYDRAULIC
11	HYF-1888	HYD TEE, 9/16 M - 9/16 M - 9/16 M
12	10978	HOSE, HYDRAULIC
13	10980	HOSE, HYDRAULIC
14	CP-3620	PIN, COTTER, 3/16 x 2.00

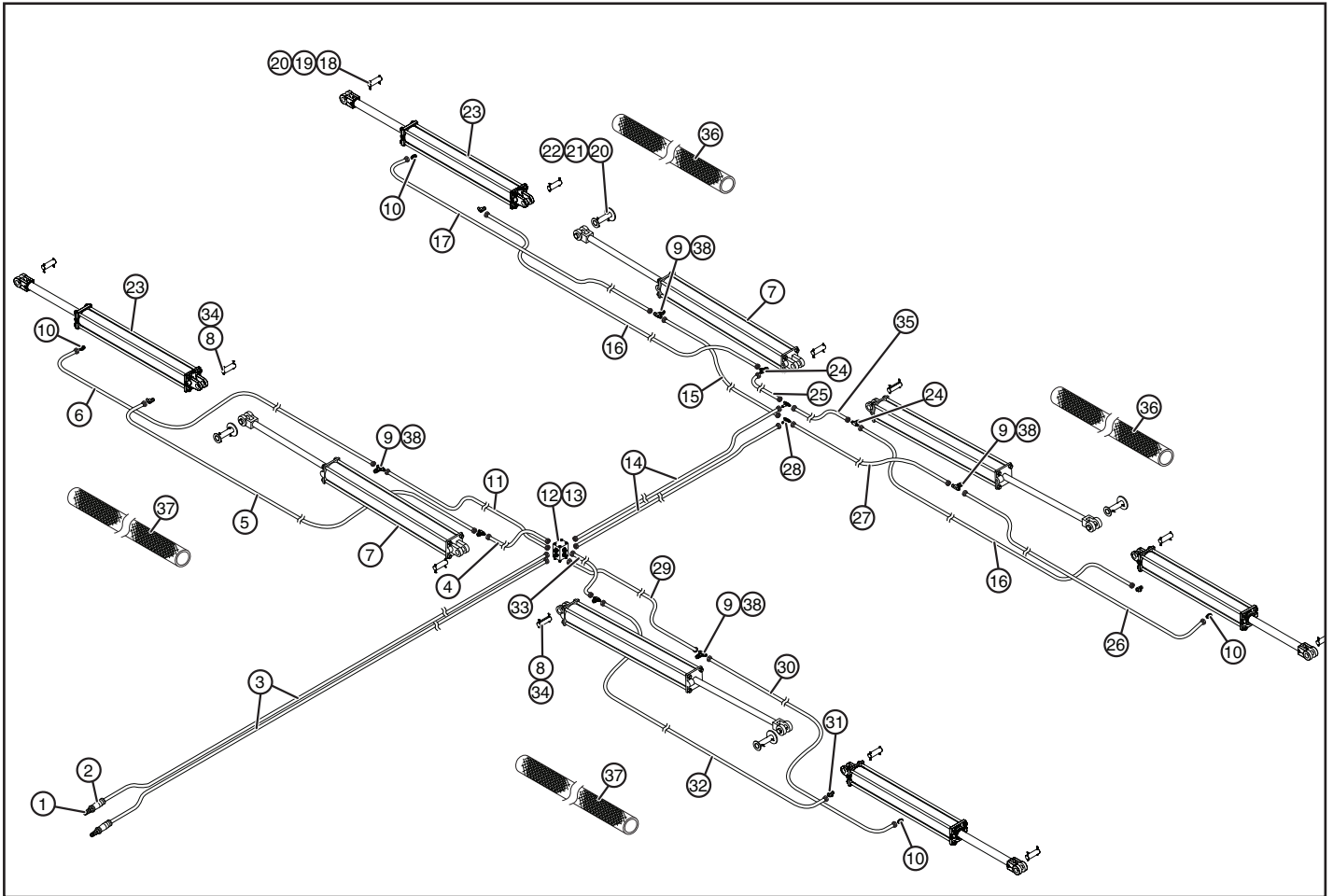
Wing Fold Hydraulics for IC-5024, IC-5027, and IC-5032



Item	Part Number	Description
1	HYF-4002	HYDRAULIC DISCONNECT
2	HYO-1210	HYD GRIP, RED
3	11166 10849	HOSE, HYDRAULIC (5024) HOSE, HYDRAULIC (5027 and 5032)
4	10595 10594 HYC-4040	4" X 30" HYD. CYLINDER (5024) 4" X 40" HYD. CYLINDER (WELDED STYLE) 4" X 40" HYD. CYLINDER (TIE ROD STYLE)
5	10621	HYDRAULIC RESTRICTOR, 1/16"
6	11298 10874	HOSE, HYDRAULIC (5024) HOSE, HYDRAULIC (5027 and 5032)
7	HYO-3022	HYDRAULIC MANIFOLD, 4-WAY
8	HYF-3820	HYD ADAPTER, 9/16 M-3/4 MORB
9	11299 HYH-8096	HOSE, HYDRAULIC (5024) HOSE, HYDRAULIC (5027 and 5032)
10	CL-1307	PIN, CLEVIS, 1-1/4 x 7.0
11	FW-0125	WASHER, FLAT, 1-1/4

Item	Part Number	Description
12	CP-1420	PIN, COTTER, 1/4 x 2.00
13	10980 11006	HOSE, HYDRAULIC (5024) HOSE, HYDRAULIC (5027 and 5032)
14	10980 HYH-8024	HOSE, HYDRAULIC (5024) HOSE, HYDRAULIC (5027 and 5032)
15	10978 10876	HOSE, HYDRAULIC (5024) HOSE, HYDRAULIC (5027 and 5032)
16	HYF-2820	HYD ELBOW, 9/16 M - 3/4 MORB
17	HYF-1888	HYD TEE, 9/16 M - 9/16 M - 9/16 M
18	11300 10875	HOSE, HYDRAULIC (5024) HOSE, HYDRAULIC (5027 and 5032)
19	HYO-2123	PIN, CLEVIS, CYLINDER, 1-1/4 X 3-1/2
20	CP-3620	PIN, COTTER, 3/16 x 2.00
21	10979 10874	HOSE, HYDRAULIC (5024) HOSE, HYDRAULIC (5027 and 5032)

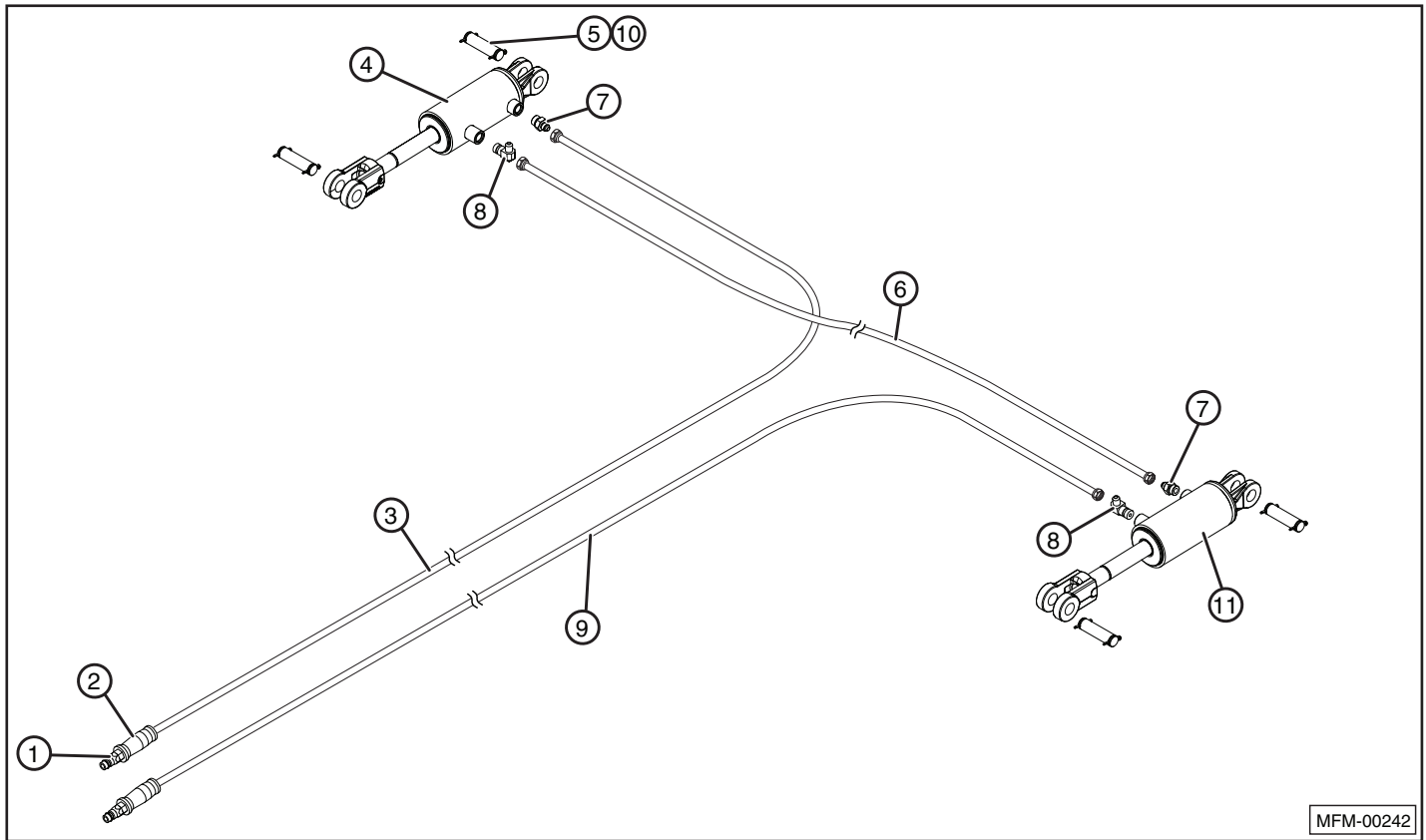
Wing Fold Hydraulics for IC-5040



Item	Part Number	Description
1	HYF-4002	HYDRAULIC DISCONNECT
2	HYO-1210	HYD GRIP, RED
3	11666	HOSE, HYDRAULIC
4	10850	HOSE, HYDRAULIC
5	HYH-8104	HOSE, HYDRAULIC
6	10853	HOSE, HYDRAULIC
7	10592	HYDRAULIC CYLINDER, 4" X 36"
8	HYO-2123	PIN, CLEVIS, CYLINDER, 1-1/4 X 3-1/2
9	HYF-1232	HYD TEE, 3/4 M - 3/4 F - 3/4 M
10	10621	HYD RESTRICTOR, 3/4 M - 3/4 MORB, RST
11	10852	HOSE, HYDRAULIC
12	HYO-3022	HYDRAULIC MANIFOLD, 4-WAY
13	HYF-3820	HYD ADAPTER, 9/16 M - 3/4 MORB
14	HYH-8096	HOSE, HYDRAULIC
15	10856	HOSE, HYDRAULIC
16	HYH-8110	HOSE, HYDRAULIC
17	10857	HOSE, HYDRAULIC
18	10707	BOLT, HEX, 1-1/4-7 X 7.5, GRADE 8, SPECIAL
19	NY-1307	NUT, LOCK, NYLON, 1-1/4-7

Item	Part Number	Description
20	FW-0125	WASHER, FLAT, 1-1/4
21	CL-1307	PIN, CLEVIS, 1-1/4 x 7.0
22	CP-1420	PIN, COTTER, 1/4 x 2.00
23	10451	HYDRAULIC CYLINDER, 4" X 24"
24	HYF-1089	HYD TEE, 9/16 M - 9/16 M - 3/4 MORB
25	10850	HOSE, HYDRAULIC
26	10857	HOSE, HYDRAULIC
27	10855	HOSE, HYDRAULIC
28	HYF-1888	HYD TEE, 9/16 M - 9/16 M - 9/16 M
29	10851	HOSE, HYDRAULIC
30	10853	HOSE, HYDRAULIC
31	HYF-2820	HYD ELBOW, 9/16 M - 3/4 MORB
32	HYH-8104	HOSE, HYDRAULIC
33	HYH-8030	HOSE, HYDRAULIC
34	CP-3620	PIN, COTTER, 3/16 x 2.00
35	10854	HOSE, HYDRAULIC
36	HYS-2006	HYD COVER, HOSE, 60"
37	HYS-2005	HYD COVER, HOSE, 42"
38	HYF-3220	HYD ADAPTER, 3/4 M - 3/4 MORB

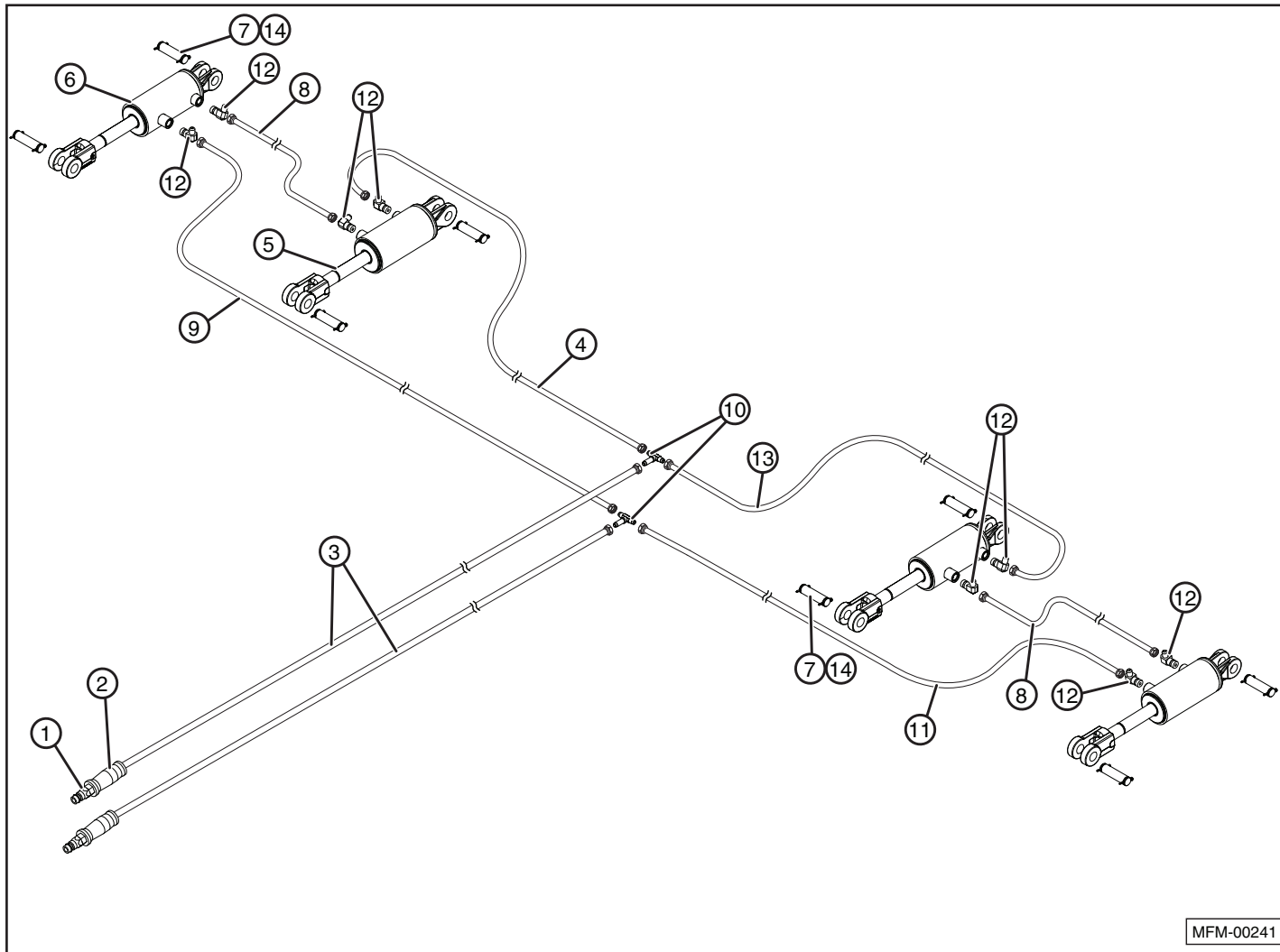
Spiral Reel Lift Hydraulics for IC-5012 and IC-5014



MFM-00242

Item	Part Number	Description
1	HYF-4002	HYD DISCONNECT, MALE
2	HYO-1213	HYD GRIP, BLACK
3	10811	HOSE, HYDRAULIC
4	10326	HYD CYLINDER, REPHASING, 3.25 X 4
5	HYO-2103	PIN, CYLINDER CLEVIS, 1 X 3-1/2
6	10809	HOSE, HYDRAULIC
7	HYF-3820	HYD ADAPTER, 9/16 M - 3/4 MORB
8	HYF-2820	HYD ELBOW, 3/8 M - 1/2 MORB
9	10810	HOSE, HYDRAULIC
10	135995	PIN, COTTER
11	10327	HYD CYLINDER, REPHASING, 3 X 4

Spiral Reel Lift Hydraulics for IC-5020, IC-5024, IC-5027, and IC-5032

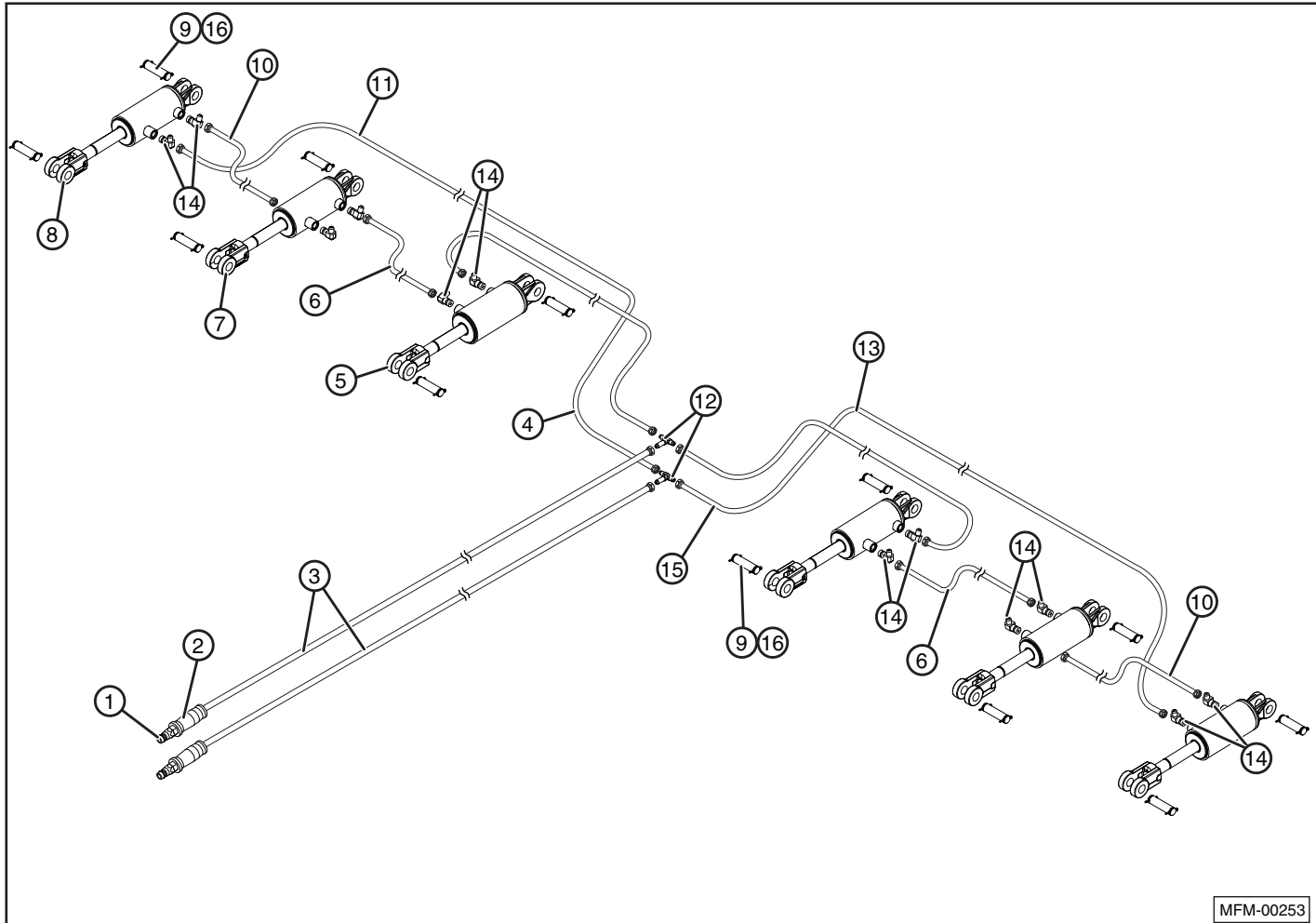


MFM-00241

Item	Part Number	Description
1	HYF-4002	HYD DISCONNECT, MALE
2	HYO-1213	HYD GRIP, BLACK
3	10990 10863	HOSE, HYDRAULIC (5020 and 5024) HOSE, HYDRAULIC (5027 and 5032)
4	10991 10866	HOSE, HYDRAULIC (5020 and 5024) HOSE, HYDRAULIC (5027 and 5032)
5	10325	HYD CYLINDER, REPHASING, 3.5 X 4
6	10326	HYD CYLINDER, REPHASING, 3.25 X 4
7	HYO-2103	PIN, CYLINDER CLEVIS, 1 X 3-1/2
8	10803 10868 10902 10869	HOSE, HYDRAULIC (5020) HOSE, HYDRAULIC (5024) HOSE, HYDRAULIC (5027) HOSE, HYDRAULIC (5032)

Item	Part Number	Description
9	10992 10993 10867 10870	HOSE, HYDRAULIC (5020) HOSE, HYDRAULIC (5024) HOSE, HYDRAULIC (5027) HOSE, HYDRAULIC (5032)
10	HYF-1888	HYD TEE, 9/16 M - 9/16 M - 9/16 M
11	10993 11301 10903 10871	HOSE, HYDRAULIC (5020) HOSE, HYDRAULIC (5024) HOSE, HYDRAULIC (5027) HOSE, HYDRAULIC (5032)
12	HYF-2820	HYD ELBOW, 9/16 M - 3/4 MORB
13	10986 10806	HOSE, HYDRAULIC (5020 and 5024) HOSE, HYDRAULIC (5027 and 5032)
14	135995	PIN, COTTER

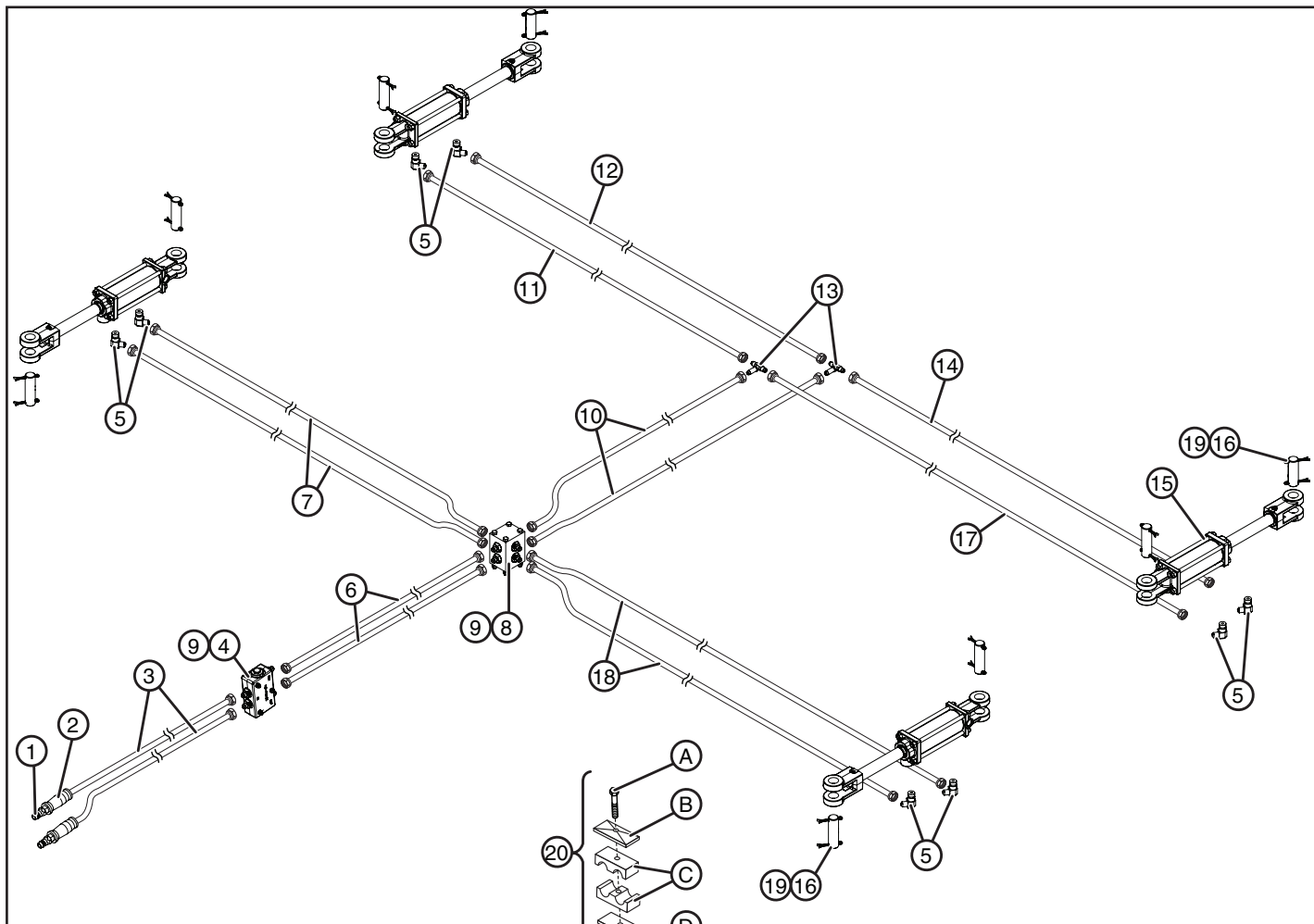
Spiral Reel Lift Hydraulics for IC-5040



MFM-00253

Item	Part Number	Description
1	HYF-4002	HYD DISCONNECT, MALE
2	HYO-1213	HYD GRIP, BLACK
3	10863	HOSE, HYDRAULIC
4	10866	HOSE, HYDRAULIC
5	10325	HYD CYLINDER, REPHASING, 3.5 X 4
6	10867	HOSE, HYDRAULIC
7	10326	HYD CYLINDER, REPHASING, 3.25 X 4
8	10327	HYD CYLINDER, REPHASING, 3 X 4
9	HYO-2103	PIN, CYLINDER CLEVIS, 1 X 3-1/2
10	10868	HOSE, HYDRAULIC
11	10865	HOSE, HYDRAULIC
12	HYF-1888	HYD TEE, 9/16 M - 9/16 M - 9/16 M
13	10864	HOSE, HYDRAULIC
14	HYF-2820	HYD ELBOW, 9/16 M - 3/4 MORB
15	10806	HOSE, HYDRAULIC
16	135995	PIN, COTTER

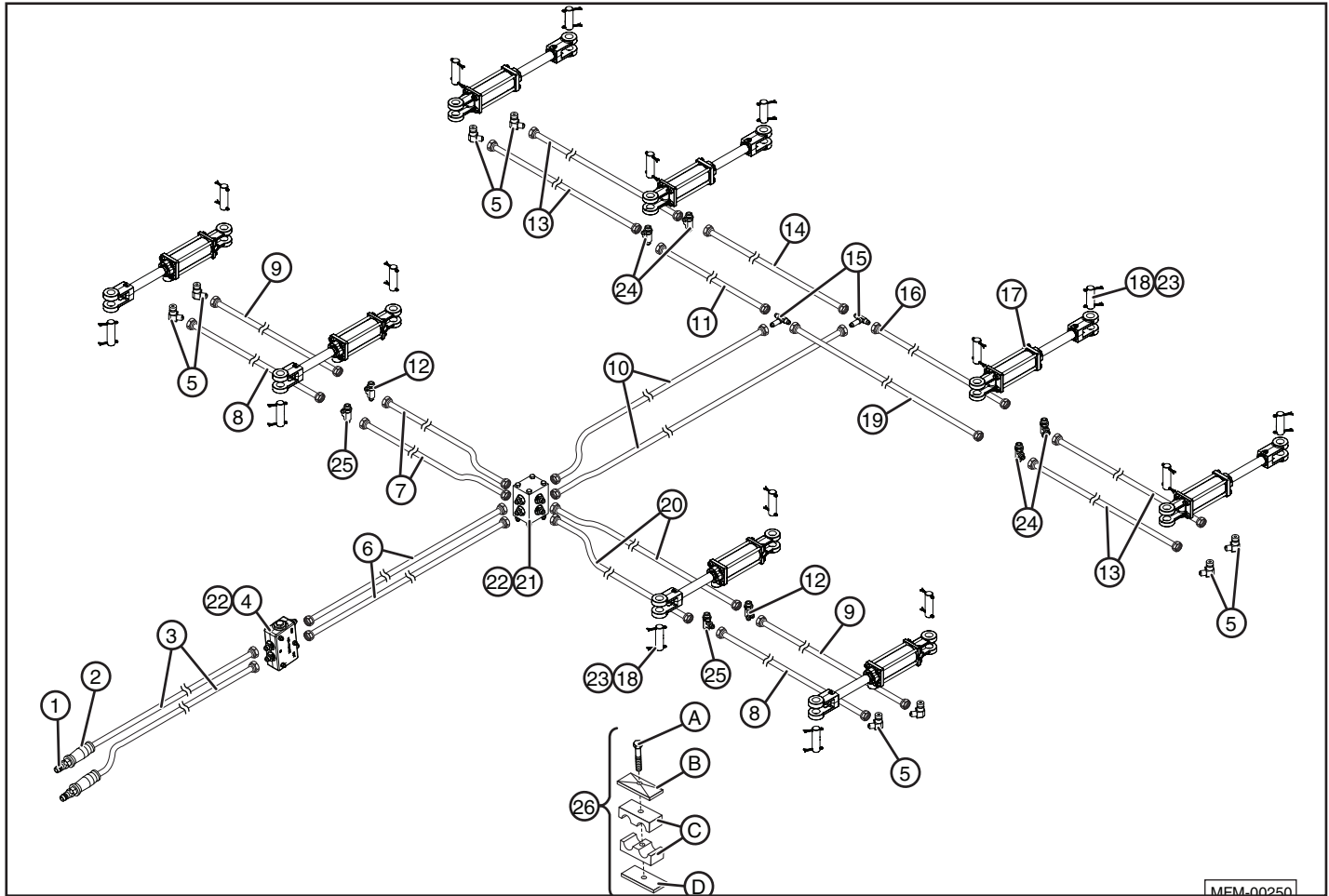
Disk Gang Angle Hydraulics for IC-5012 and IC-5014



Item	Part Number	Description
1	HYF-4002	HYD DISCONNECT, MALE
2	HYO-1211	HYD GRIP, GREEN
3	10808	HOSE, HYDRAULIC
4	HYO-3024	HYD VALVE, LOCK, 1-CIRCUIT
5	HYF-2820	HYD ELBOW, 9/16 M - 3/4 MORB
6	10805	HOSE, HYDRAULIC
7	10807	HOSE, HYDRAULIC
8	HYO-3022	HYDRAULIC MANIFOLD, 4-WAY
9	HYF-3820	HYD ADAPTER, 9/16 M - 3/4 MORB
10	10804	HOSE, HYDRAULIC
11	10801	HOSE, HYDRAULIC
12	10800	HOSE, HYDRAULIC
13	HYF-1888	HYD TEE, 9/1 6M - 9/16 M - 9/16 M

Item	Part Number	Description
14	10802	HOSE, HYDRAULIC
15	10584	HYD CYLINDER, 2 x 4
16	134953	PIN, CYLINDER CLEVIS, 1 X 3-1/4
17	10803	HOSE, HYDRAULIC
18	10806	HOSE, HYDRAULIC
19	135995	PIN, COTTER
20	10795	CLAMP ASSEMBLY, HYDRAULIC
A	HYO-1008	BOLT, HEX, 5/16-18 X 1-3/8
B	HYO-1004	COVER, HYD CLAMP
C	10796	BODY, HYD CLAMP
D	HYO-1206	PLATE, HYD CLAMP

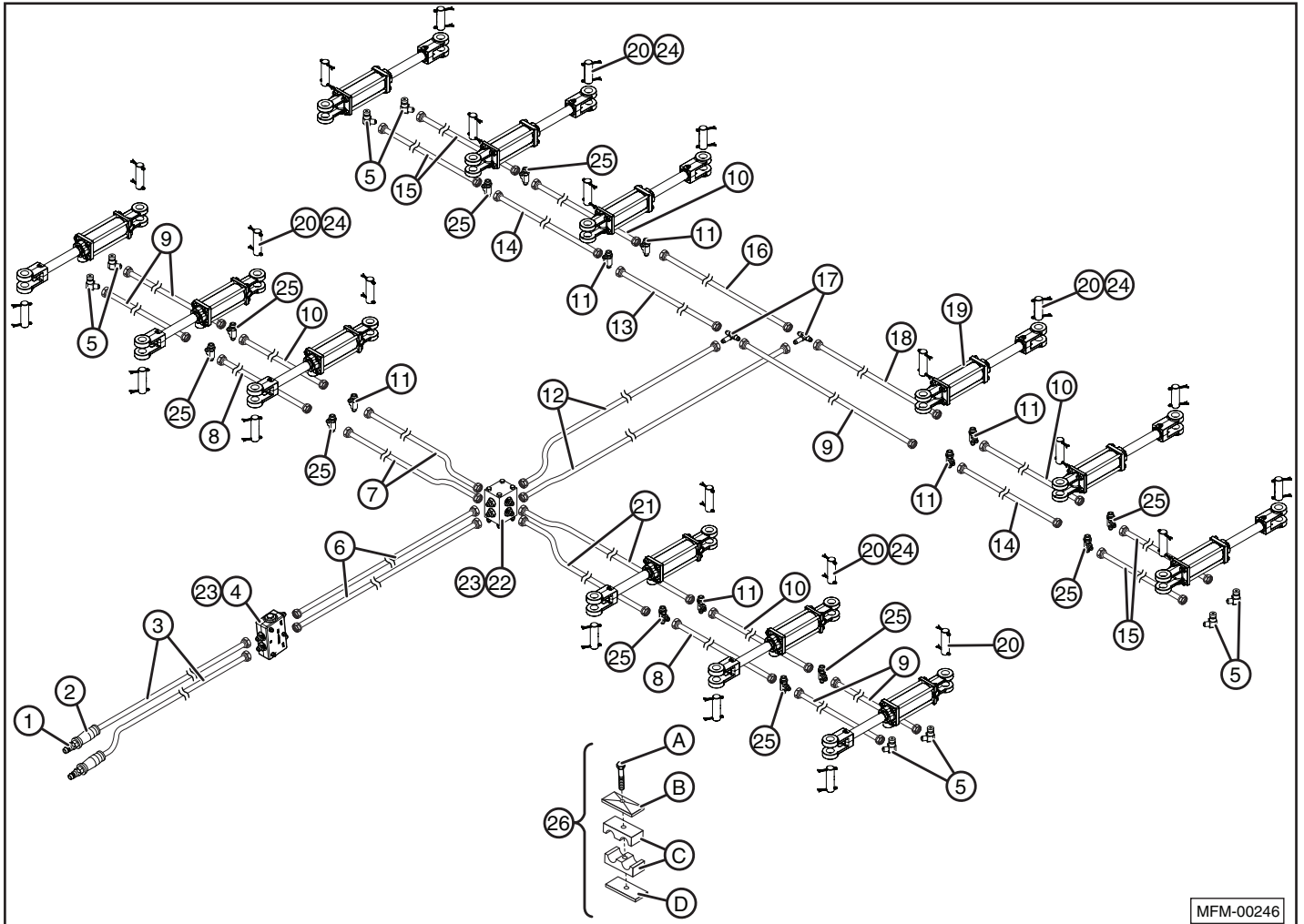
Disk Gang Angle Hydraulics for IC-5020, IC-5024, IC-5027, and IC-5032



Item	Part Number	Description
1	HYF-4002	HYD DISCONNECT, MALE
2	HYO-1211	HYD GRIP, GREEN
3	10808	HOSE, HYDRAULIC
4	HYO-3024	HYD VALVE, LOCK, 1-CIRCUIT
5	HYF-2820	HYD ELBOW, 9/16 M - 3/4 MORB
6	10981 10858	HOSE, HYDRAULIC (5020 and 5024) HOSE, HYDRAULIC (5027 and 5032)
7	10809 10807	HOSE, HYDRAULIC (5020 and 5024) HOSE, HYDRAULIC (5027 and 5032)
8	10982 11329 10860 10872	HOSE, HYDRAULIC (5020) HOSE, HYDRAULIC (5024) HOSE, HYDRAULIC (5027) HOSE, HYDRAULIC (5032)
9	10983 10860 11134 10873	HOSE, HYDRAULIC (5020) HOSE, HYDRAULIC (5024) HOSE, HYDRAULIC (5027) HOSE, HYDRAULIC (5032)
10	10984 10858 10804	HOSE, HYDRAULIC (5020 and 5024) HOSE, HYDRAULIC (5027) HOSE, HYDRAULIC (5032)
11	10986 10800	HOSE, HYDRAULIC (5020 and 5024) HOSE, HYDRAULIC (5027 and 5032)
12	HYF-1089	HYD TEE, 9/16 M - 9/16 M - 3/4 MORB
13	10989 10868 10901 10861	HOSE, HYDRAULIC (5020) HOSE, HYDRAULIC (5024) HOSE, HYDRAULIC (5027) HOSE, HYDRAULIC (5032)

Item	Part Number	Description
14	10985 10801	HOSE, HYDRAULIC (5020 and 5024) HOSE, HYDRAULIC (5027 and 5032)
15	HYF-1888	HYD TEE, 9/16 M - 9/16 M - 9/16 M
16	10987 10802	HOSE, HYDRAULIC (5020 and 5024) HOSE, HYDRAULIC (5027 and 5032)
17	10584 HYC-32004	HYD CYLINDER, 2 X 4 (WELDED STYLE) HYD CYLINDER, 2 X 4 (TIE ROD STYLE)
18	HYO-2103	PIN, CYLINDER CLEVIS, 1 X 3-1/2
19	10988 10803	HOSE, HYDRAULIC (5020 and 5024) HOSE, HYDRAULIC (5027 and 5032)
20	10806	HOSE, HYDRAULIC
21	HYO-3022	HYDRAULIC MANIFOLD, 4-WAY
22	HYF-3820	HYD ADAPTER, 9/16 M-3/4 MORB
23	135995	PIN, COTTER
24	HYF-1089 HYF-1809	HYD TEE, 9/16 M - 9/16 M - 3/4 MORB (5027 and 5032) HYD TEE, 9/16M -3/4Morb - 9/16M (5020 and 5024)
25	HYF-1809	HYD TEE, 9/16M -3/4Morb - 9/16M
26	10795	CLAMP ASSEMBLY, HYDRAULIC
A	HYO-1008	BOLT, HEX, 5/16-18 X 1-3/8
B	HYO-1004	COVER, HYD CLAMP
C	10796	BODY, HYD CLAMP
D	HYO-1206	PLATE, HYD CLAMP

Disk Gang Angle Hydraulics for IC-5040

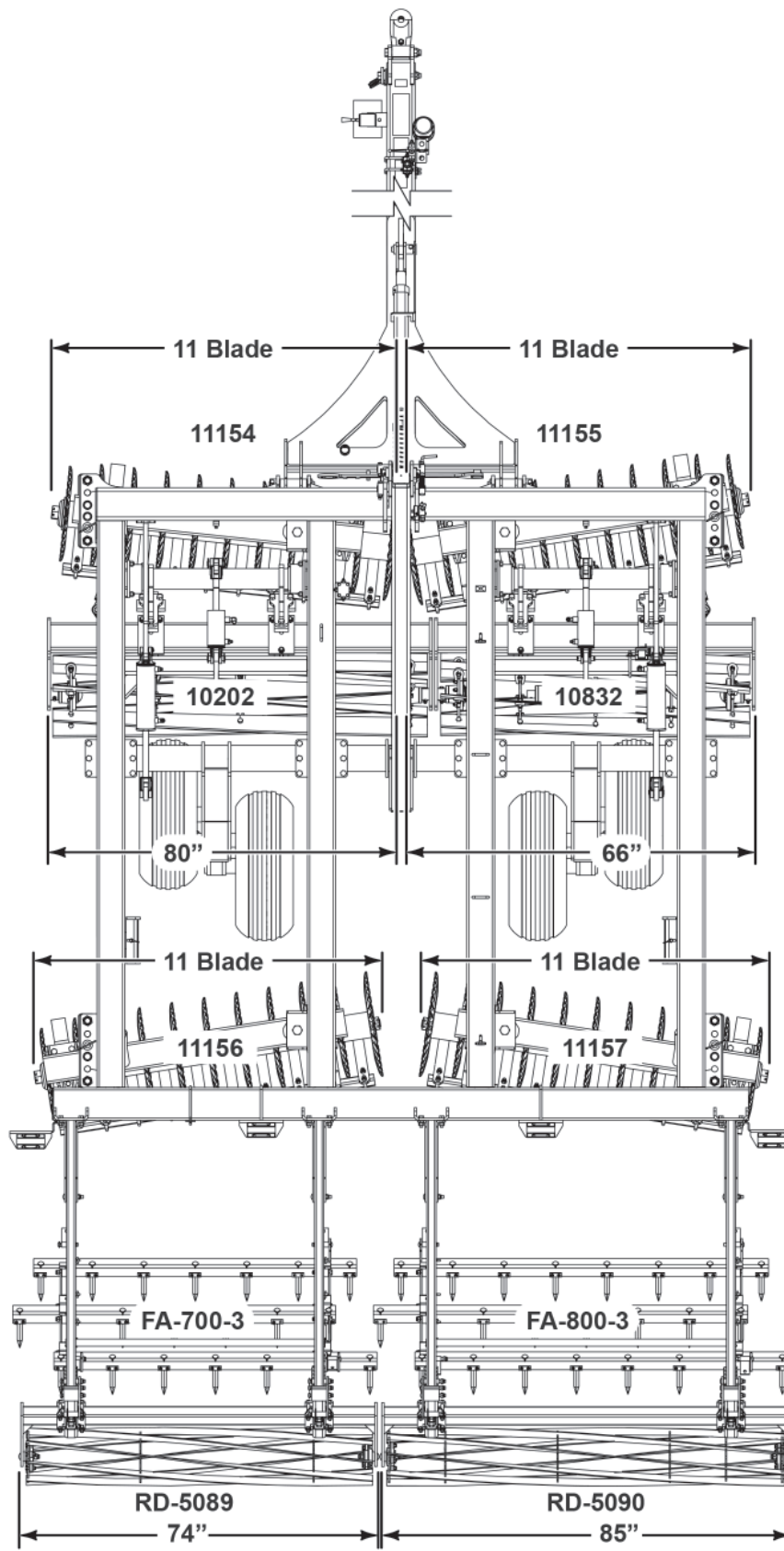


MFM-00246

Item	Part Number	Description
1	HYF-4002	HYD DISCONNECT, MALE
2	HYO-1211	HYD GRIP, GREEN
3	10808	HOSE, HYDRAULIC
4	HYO-3024	HYD VALVE, LOCK, 1-CIRCUIT
5	HYF-2820	HYD ELBOW, 9/16 M - 3/4 MORB
6	10858	HOSE, HYDRAULIC
7	10807	HOSE, HYDRAULIC
8	10859	HOSE, HYDRAULIC
9	10803	HOSE, HYDRAULIC
10	10860	HOSE, HYDRAULIC
11	HYF-1089	HYD TEE, 9/16M - 9/16M - 3/4Morb
12	10804	HOSE, HYDRAULIC
13	10800	HOSE, HYDRAULIC
14	11134	HOSE, HYDRAULIC
15	10862	HOSE, HYDRAULIC
16	10801	HOSE, HYDRAULIC

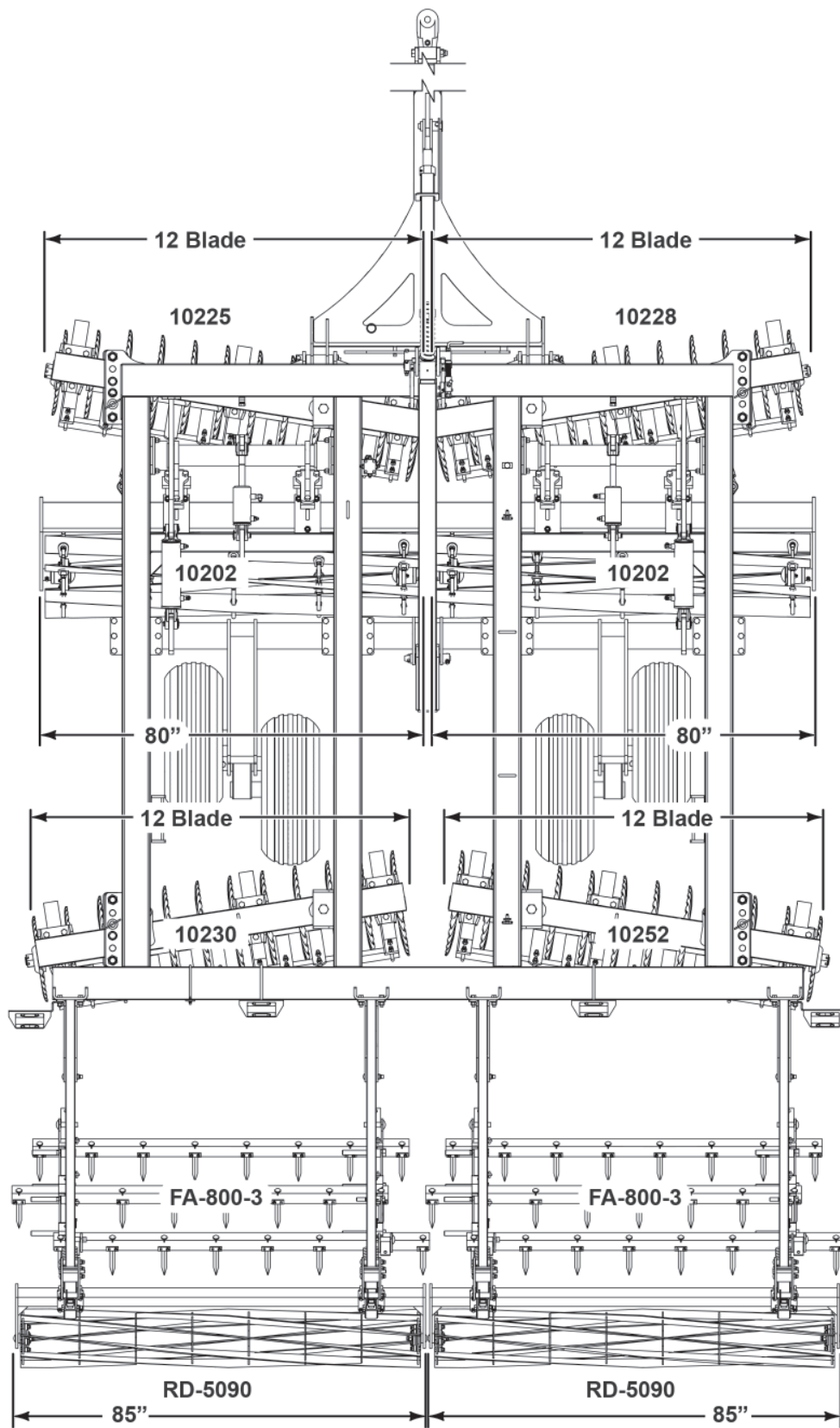
Item	Part Number	Description
17	HYF-1888	HYD TEE, 9/16 M - 9/16 M - 9/16 M
18	10802	HOSE, HYDRAULIC
19	10584	HYD CYLINDER, 2 X 4
20	HYO-2103	PIN, CYLINDER CLEVIS, 1 X 3-1/2
21	10806	HOSE, HYDRAULIC
22	HYO-3022	HYDRAULIC MANIFOLD, 4-WAY
23	HYF-3820	HYD ADAPTER, 9/16 M - 3/4 MORB
24	135995	PIN, COTTER
25	HYF-1809	HYD TEE, 9/16M -3/4Morb - 9/16M
26	10795	CLAMP ASSEMBLY, HYDRAULIC
A	BH-3120	BOLT, HEX, 5/16-18 X 2"
B	HYO-1004	COVER, HYD CLAMP
C	10796	BODY, HYD CLAMP
D	HYO-1206	PLATE, HYD CLAMP

Layout Diagram for IC-5012



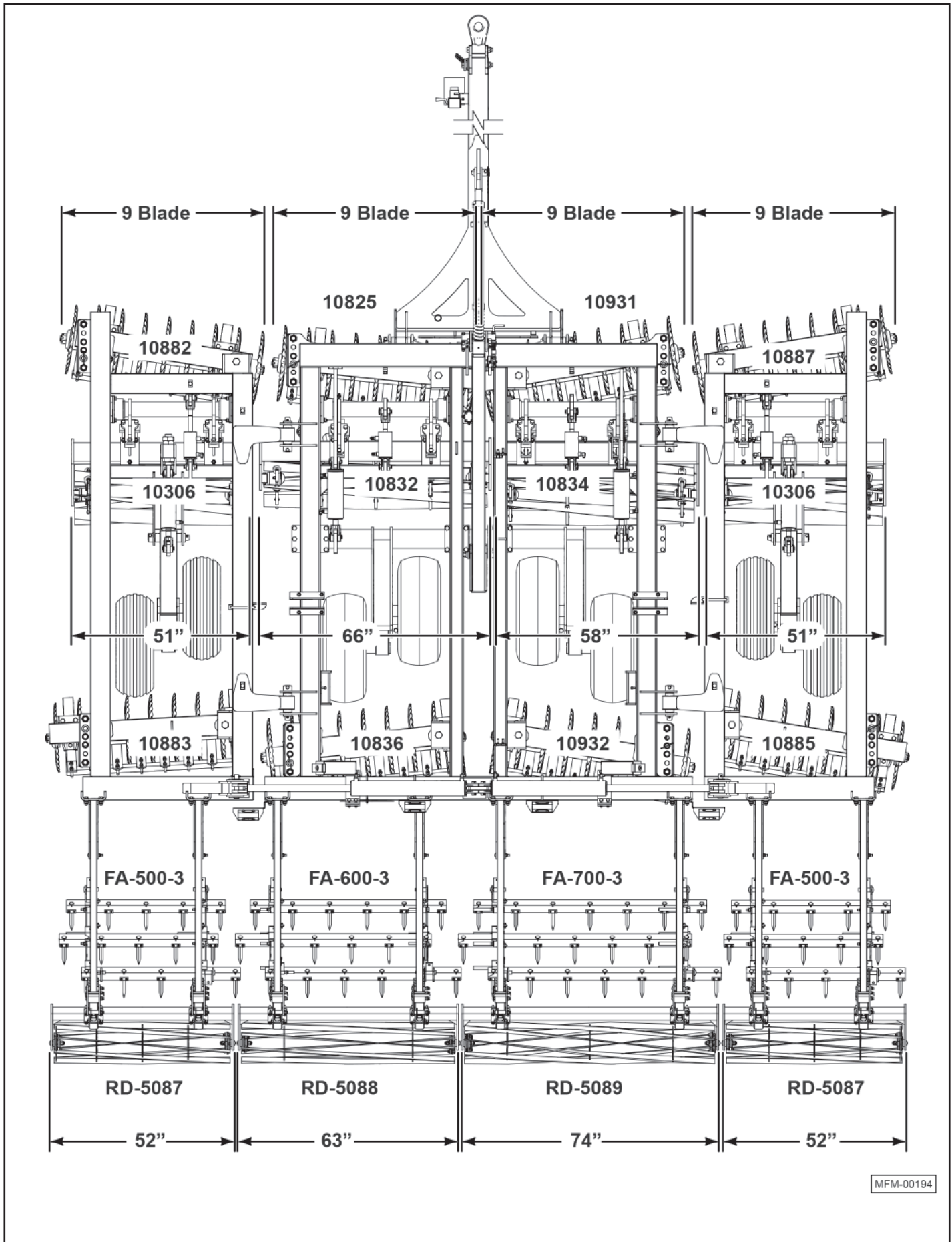
MFM-00287

Layout Diagram for IC-5014

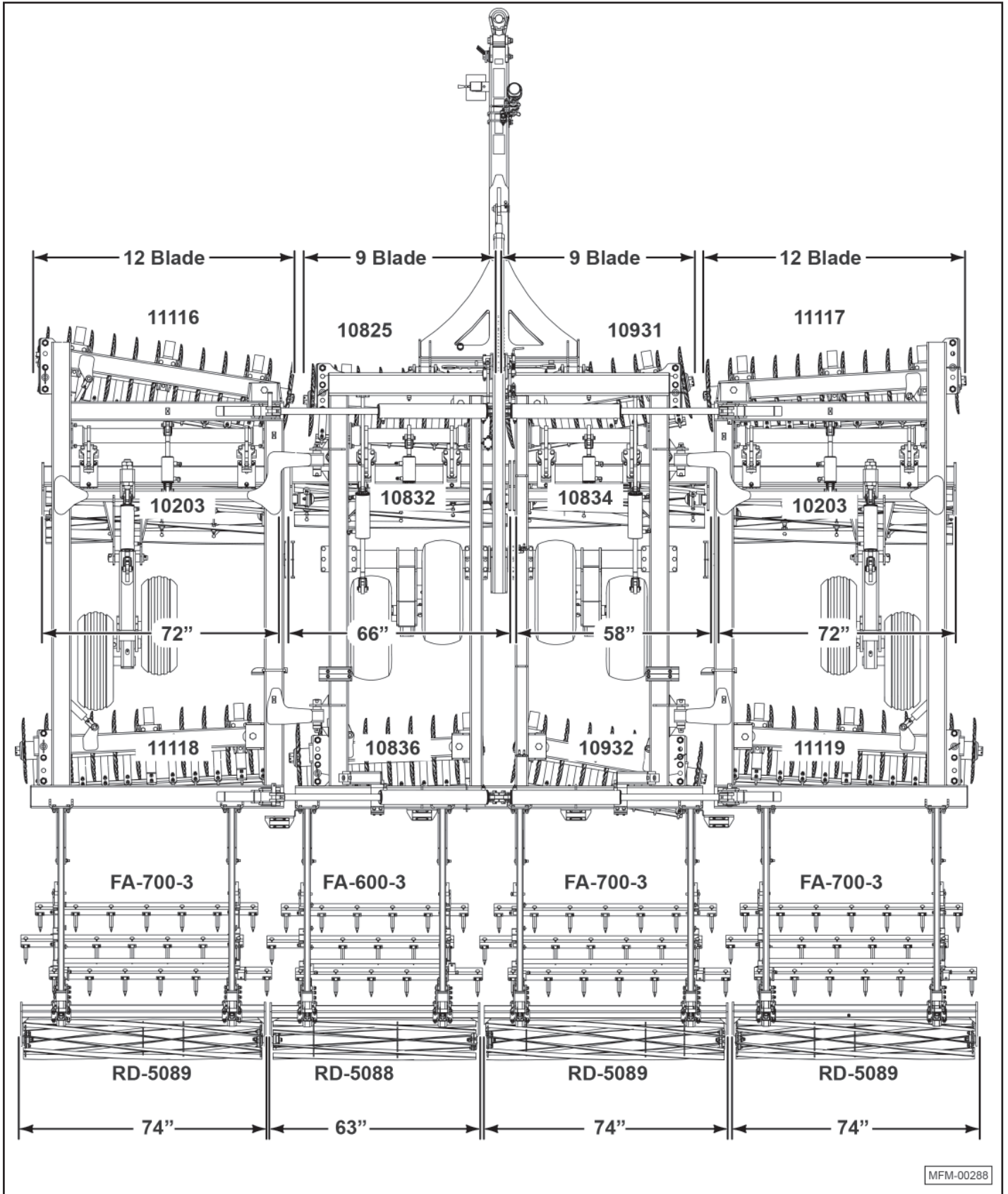


MFM-00197

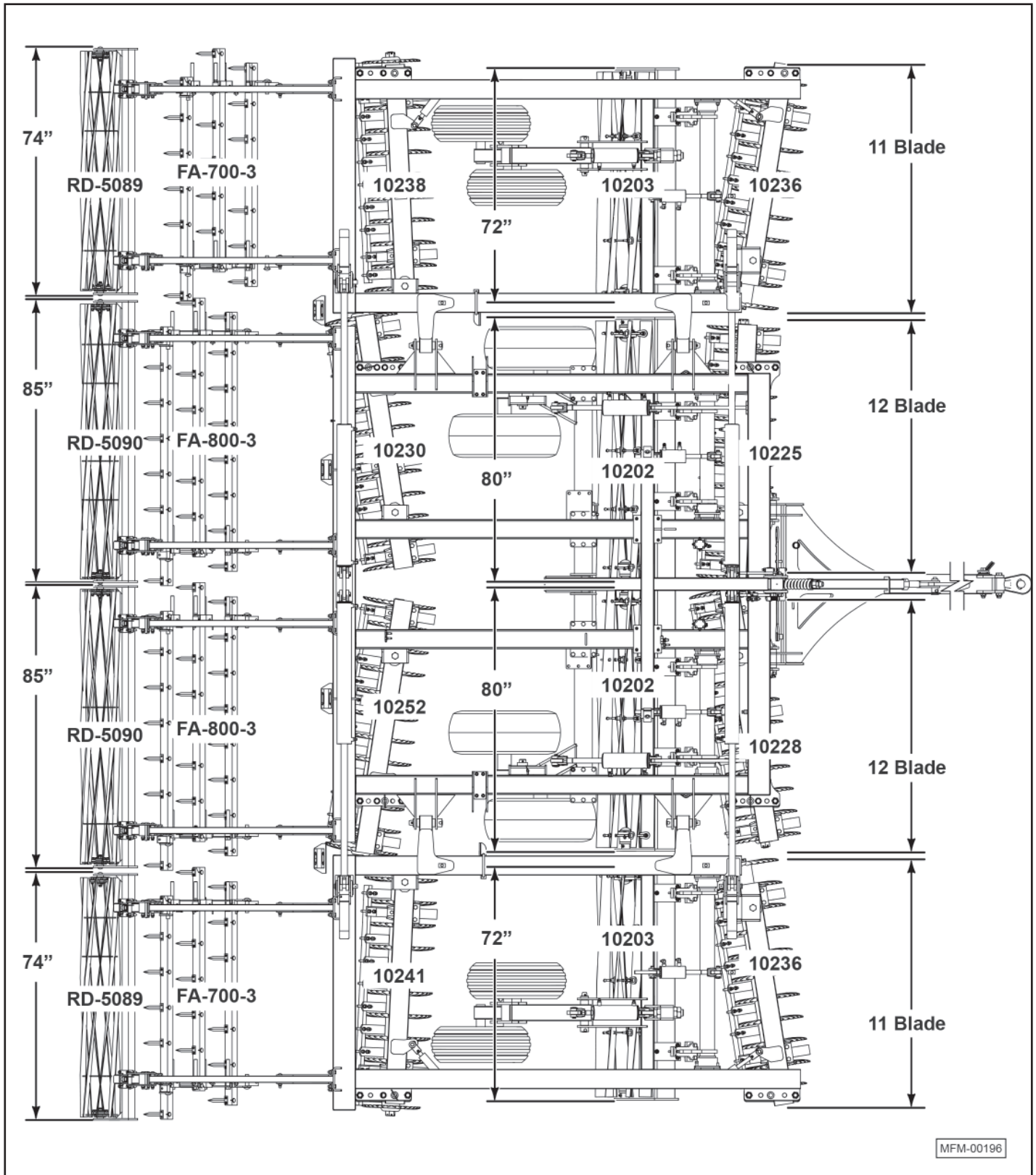
Layout Diagram for IC-5020



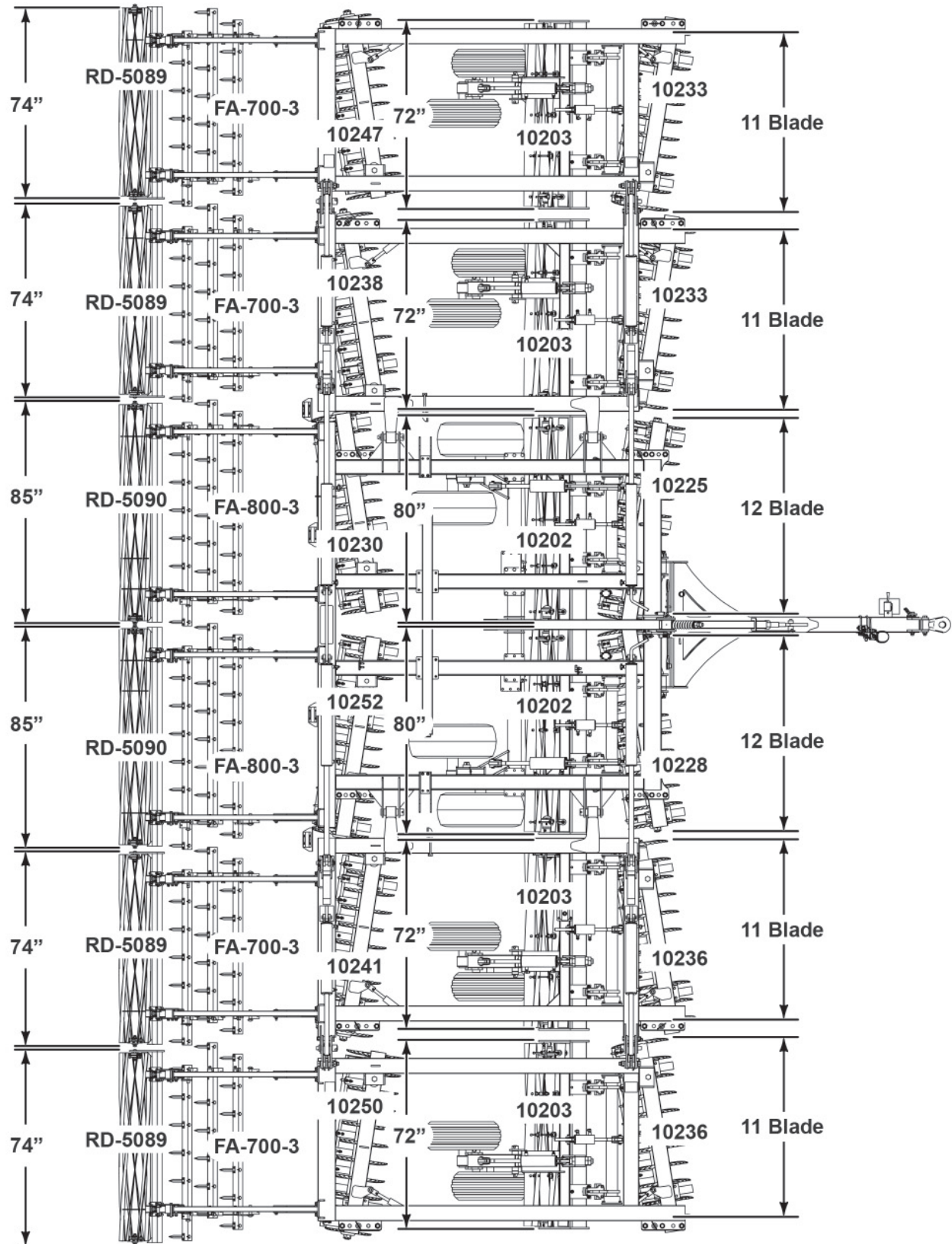
Layout Diagram for IC-5024



Layout Diagram for IC-5027



Layout Diagram for IC-5040



MFM-00195

Warranty Registration Form and Inspection Report

WARRANTY REGISTRATION FORM & INSPECTION REPORT

This form must be filled out by the dealer and buyer and the initialed and signed copy sent to: McFarlane Mfg. Co., Inc., 1259 South Water Street, P.O. Box 100, Sauk City, WI 53583.

WARRANTY REGISTRATION

This form must be filled out by the dealer and signed by both the dealer and customer at the time of delivery.

Customer Name _____ Dealer Name _____

Address _____ Address _____

City, State, Zip Code _____ City, State, Zip Code _____

Phone Number (____) _____

Model _____ Serial Number _____ Delivery Date _____

INSPECTION ITEMS

SAFETY

Buyer's
Initials

Buyer's
Initials

____ Wheel bolts are tightened to the correct torque. Refer to the Tire and Lug Torque Specifications Chart in this manual.

____ All decals are properly installed and readable. Refer to the Hazard and Information Signs section in this manual.

____ Tires are properly inflated. Refer to the Tire and Lug Torque Specifications Chart in this manual.

____ Read and understand all operating and safety instructions in this manual.

____ All fasteners are tightened to the correct torque. Refer to the Bolt Torque Specifications Chart in this manual.

____ All hydraulic hoses move freely without pinching or binding.

____ All hydraulic hoses, cylinders, and/or component fittings are tight with no leakage.

____ All grease fittings have been properly lubricated. Refer to the Lubrication section in this manual.

I have thoroughly instructed the buyer on the above-described equipment; the review included the Operation & Parts manual, equipment care, adjustments, safe operation, and applicable warranty policy.

Date _____ Dealer's Signature _____

The above equipment and operator's manual have been received by me, and I have been thoroughly instructed as to care, adjustments, safe operation, and applicable warranty policy.

Date _____ Owner's Signature _____

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Notes

Member of



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