

OPERATION & MAINTENANCE MANUAL

BALE FEEDER



KIRBY MANUFACTURING
P.O. BOX 989
MERCED, CALIFORNIA 95341-0989
(209)-723-0778
WWW.KIRBYMFG.COM

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NON-TRANSFERRABLE LIMITED WARRANTY

GENERAL TERMS AND CONDITIONS:

KIRBY MANUFACTURING, INC. (henceforth referred to as KMI), hereby warrants to the original purchaser of a newly manufactured KMI product, that all new KMI products are guaranteed against defects in materials or manufacture under normal use for a period of one year (1) or duty cycle of 3000 hours (whichever comes first) from the original in-service date.

Improper Activity will void this limited warranty. "Improper Activity" includes any, and all, of the following: Installation by anyone other than KMI or its authorized agent, improper installation, use/operation/maintenance other than in accordance with KMI's instructions, tampering, neglect, or damage by the application of force, acts of vandalism, accidents, misuse, abuse, repair/alteration, or adjustment by anyone other than KMI or its authorized agent.

FOR THE WARRANTY TO BE IN EFFECT: The warranty registration form must be signed, dated, and submitted to KMI within 15 days of the delivery date by the end user. If not returned, the warranty period begins from the date the equipment was invoiced to the dealer.

This warranty is subject to any existing conditions of supply which may directly affect our ability to obtain materials or manufacture replacement parts. This warranty shall in no way make KMI liable for personal injuries or damages, loss of time or expense of any kind either direct or indirect resulting from part failure or defect.

KIRBY MANUFACTURING, INC. DISCLAIMS ALL OTHER WARRANTIES, INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO AGENT OR EMPLOYEE OF KIRBY MANUFACTURING, INC IS AUTHORIZED TO EXTEND ANY OTHER WARRANTY OR OBLIGATION. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

WARRANTY PROVISIONS: During the warranty period (12 months or 3,000 hours), KMI will repair or replace parts of the product that prove defective because of improper material or workmanship, under normal use and maintenance. This warranty is subject to the following provisions:

1. Labor is covered for a period of 90 days from the original in-service date, except defects in workmanship, which is covered for the entirety of the warranty (12 months or 3,000 hours whichever comes first).
2. Labor will be paid at the dealer's standard hourly rate.
3. KMI will pay for standard ground shipping of parts within 90 days of the original in-service date.
 - a. The shipping carrier will be at the discretion of KMI.
 - b. All priority shipping is the responsibility of the dealer or customer.
4. All warranty work requires a KMI warranty claims form to be filled out and returned with all required documentation.
5. Warranty forms must be requested within 48 hours of the first business day after the repair.

6. All warranty claims must be submitted within 30 days of the warranty claim form date.
7. Replacement parts will have a 90-day warranty or the remainder of the KMI warranty period, whichever is longer. Parts must be installed by an authorized dealer or agent of KMI.
8. Any removed parts must be marked with serial number of the unit, date of repair and warranty number.
9. Parts must be held by the dealer upon request of KMI for 30 days.
10. Parts may be requested by KMI to be returned to KMI or a supporting vendor.
 - Supporting vendor - A return goods authorization (RGA) and warranty claim number will be issued.
 - KMI - Warranty claim number will be issued.
11. If deemed defective by KMI, parts with an RGA/Warranty claim number will be reimbursed, replaced, or credited back to the dealer at the net dealer cost.
12. Parts invoice for warranty goods received will be requested with warranty. If a part is purchased outside of KMI proof of purchase will be required for reimbursement.
13. The following are not covered under this warranty:
 - Overtime, freight, and travel.
 - Rental fees for loaner equipment to the end customer.
 - Other out of pocket expenses incurred during downtime.
 - Overnight/priority shipping.
 - Damages or repairs to tractors used with KMI equipment.
 - Truck and all truck parts/components (truck mounted models).
 - Normal wear and tear for normal replacement parts, cutting knives, exterior finish, chains, hydraulic oil & filters, belts, sprockets, u-joints etc.
 - Scale Systems have their own warranty and are not included in Kirby's limited warranty coverage. The warranty stated by the scale manufacturer will be honored by KMI. This does not include any freight, service calls or loaner unit for the specified repair. Scale warranty is outlined in the Scale System's owner's manual.
 - All parts requiring periodical maintenance, that have not been (but not limited to):
 - Greased (bearings, PTO & driveline u-joints).
 - Nuts and bolts tightened.
 - Chains adjusted.
 - Oil changed.
 - Filter changed.
 - Hydraulic hoses tightened.
14. Tires, wheels, and batteries have a limited warranty of 3 months from the date of original sale and warranty acceptance form. This includes oil seals for the axle hub. This does not include any flats or damage caused by negligent use or foreign objects.
15. Electrical switches and controls installed by KMI are covered against defect in workmanship for a period of one year under normal use. Part component switches are covered for 30 days.

PRODUCT IMPROVEMENTS: KMI reserves the right to make improvements and changes in material and / or design of its products with no obligation to incorporate such improvement into previously manufactured equipment.

DEALERS RESPONSIBILITIES

1. Instruct the customer in the safe operation and servicing of the unit.
2. Review the owner's manual with the customer and ensure the customer understands the complete operation, service, safety procedures and warranty of the unit.
3. Ensure customer signs and sends warranty registration to KMI within 15 days of delivery of unit.
4. Customer should be advised to have failed parts repaired or replaced immediately upon failure and that continued use could result in additional damage and excessive wear, voiding the warranty.
5. Follow correct warranty procedures including but not limited to notifying warranty department at KMI (209-723-0778) & submitting completed warranty claim form to KMI within the specified time as set forth under the “Warranty Provisions” section.
6. Perform warranty and service repairs.
7. **ALL DEALERS MUST WARRANTY THEIR TECHNICIAN'S WORK TO THE PURCHASER AND MUST INDEMNIFY KMI FROM SUCH CLAIMS.**

DELAYED WARRANTY REPAIRS

Warranty repairs should be scheduled and performed as soon as possible after notification of the dealer to KMI. There may be extenuating circumstances that require the availability of repair parts necessary to complete the repairs. In those cases, the dealer must notify KMI, in writing of the extenuating circumstance and advise that the continued use of the product will not add to the warranty claim. These claims, pre-approved by KMI, will then be processed as if the product is still within the warranty period.

DENIED CLAIMS

Dealers will be notified of a denied claim in writing that will state the reason for the denial. The dealer has the right to appeal this claim and must do so within 30 days of notification of denial. If there has been no appeal within the 30-day period, the claim will be considered closed.

Questions or comments? Contact Us:

Kirby Manufacturing, Inc.
P.O. Box 989
Merced, CA – 95341-0989
PH: (209) 723-0778
Fax: (209) 723 -3941

SAFETY PROCEDURES

When inspecting the machine ***all power must be shut off*** and secured. ***Do not attempt to work on machine when machine is running.***

Caution must be used when checking rotating parts under power. It is advisable to have two (2) persons present when checking for safety. The second person should be positioned by a stop switch so the machine can be stopped immediately in case of an emergency.

Do not leave machine unattended while in operation.

Be sure all guards and safety devices are in place.

Scale service requires special cautions-See section E.

Caution: The tractor power take-off (PTO) drive line should be removed from the tractor and the key removed prior to servicing or working on the equipment.

Caution: The truck engine should be shut off and keys removed and P.T.O. disengaged when servicing or working on the equipment.

SAFE OPERATIONS:

Operation of this bale feeder shall be limited to competent and experienced persons. In addition, anyone who will operate or work around a mixer/feeder must use good common sense. To be qualified, they must also know and meet all other qualifications, such as:

1. Some regulations specify that no one under the age of sixteen (16) may operate power machinery. It is your responsibility to know what these regulations are in your area and/or situation.
2. Current OSHA regulations state in part: At the time of initial assignment and at least annually thereafter, the employer shall instruct **EVERY** employee in the safe operation and servicing of all equipment with which the employee is or will be involved.
3. Unqualified persons are to **STAY OUT OF THE WORK AREA.**
4. A person who is qualified to operate the machinery should be trained in and/or have read & understood all operating and safety procedures.

FAILURE TO READ THIS BALE FEEDER MANUAL AND ITS SAFETY INSTRUCTIONS ARE A MISUSE OF THE EQUIPMENT.

IMPORTANT SAFETY PRECAUTIONS

These operating and maintenance instructions contain safety information to:

- make you aware of the hazards associated with the machine
- inform you of the risk of injury associated with those hazards
- tell you how to avoid or reduce the risk of injury.

TAKE NOTE: THE BELOW SAFETY ALERT SYMBOL FOUND THROUGHOUT THIS MANUAL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY AND THE SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH.



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

SIGNAL WORDS: Note the use of the signal words **DANGER**, **WARNING**, and **CAUTION** with the safety messages. The appropriate signal word for each has been selected using the following guidelines:

DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in serious injury or death. This signal word is to be limited to the **most** extreme situations typically for machine components which, for functional purposes, cannot be guarded.

WARNING: Indicates a potentially hazardous situation that, if not avoided, will result in serious injury or death, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

If you have questions not answered in this manual or require additional copies or the manual is damaged, please contact your dealer or Kirby Manufacturing, P.O. Box 989, Merced, California; Phone number (209)-723-0778.



OPERATING PRECAUTIONS & INSTRUCTIONS

A. Check to see that no obstructions are present in the Bale Feeder prior to start up.

B. Before loading, run the Bale Feeder empty and check all operations.

C. **Do not overload the Bale Feeder.**

Maximum load is 4 BALES (1 TON EACH) FOR a 20 FT BALE FEEDER.

Maximum load is 6 BALES (1 TON EACH) FOR a 28 FT BALE FEEDER.

Maximum load is determined by weight, **not** volume.

D. Be sure all shields are in place before operation.

E. Use common sense when operating equipment.

ALWAYS REMEMBER SAFETY FIRST: The careful operator is the best operator. Most accidents are caused by human error.

Certain precautions must be observed to prevent the possibility of injury or death.



DO NOT ALLOW PERSONNEL OTHER THAN THE TRAINED AND QUALIFIED OPERATOR NEAR THE MACHINE.



NEVER START MACHINE UNTIL ALL GUARDS AND SAFETY SHIELDS ARE IN PLACE.



DO NOT CLEAN, ADJUST OR LUBRICATE THE MACHINE WHILE IT IS IN MOTION, (ALWAYS turn off and remove keys prior to performing maintenance on the machine).



BEFORE STARTING TRACTOR ENGINE, BE SURE PTO SHIELDS TURN FREELY.



LOOSE CLOTHING SHOULD NOT BE WORN BY ANYONE NEAR THE MACHINE.

EQUIPMENT SAFETY GUIDELINES

Safety is a key concern when 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 equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, or for you, follow them. Perform regular safety audits to ensure adherence.

To provide a better view, certain photographs or illustrations in this manual may show an assembly with a safety shield removed. However, equipment should never be operated in this condition. Keep all shields in place. If shield removal becomes necessary for repairs, replace the shield prior to use.

Replace any **CAUTION, WARNING, DANGER**, or instruction safety decal that is not readable or is missing.

Do not attempt to operate this equipment under the influence of drugs or alcohol.

Review the safety instructions with **ALL** users annually.

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 of how it works.

To prevent injury or death, use a tractor equipped with a Roll Over-Protective System (ROPS). Do not paint over, remove, or deface any safety signs or warning decals on your equipment. Observe all safety signs and practice the instructions on them.

Never exceed the limitations of a piece of machinery, in its ability to do a job, or to do so Safely! If in question - **DON'T TRY IT!**

LIGHTING AND MARKING

It is the responsibility of the customer to know the lighting and marking requirements of the local highway authorities and to install and maintain the equipment to provide compliance with the regulations. Add extra lights when transporting at night or during periods of limited visibility.

KEEP ALL SHIELDS IN PLACE

Do not operate mixer/feeder without safety shields in place. Rotating parts can crush or dismember causing personal injury or death. Disconnect PTO driveline before removing shields for adjustment.

or service.

 **OPERATE BALE FEEDER SAFELY**

Rotating parts can entangle or strike people, resulting in personal injury or death. Never enter a Bale Feeder while in operation. Operate the Bale Feeder from the operator's seat only.

Do not exceed load capacity of the Bale Feeder. (See loading instructions). Reduce speed when turning or traveling on rough terrain. Avoid traveling over or near loose fill, rocks, ditches, or holes. Keep transmissions in gear when traveling downhill.

 **KEEP RIDERS OFF BALE FEEDER**

Keep riders off. Riders are subject to injury such as being struck by foreign objects, falling into the mixer and by being thrown off. Riders also obstruct the operator's view, resulting in the machine, being operated in an unsafe manner.

 **STAY CLEAR OF ROTATING DRIVELINES**

Entanglement in rotating driveline can cause serious injury or death. Always keep tractor master shield and driveline shields in place. Make sure rotating shields turn freely. Wear close fitting clothing. Stop the engine and be sure PTO driveline is stopped before adjusting connections or cleaning out PTO driven equipment.

 **AVOID HIGH-PRESSURE FLUIDS**

Escaping fluid under pressure can penetrate the skin causing serious injury or death. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.

 **SAFETY DECAL CARE**

Keep safety decals and signs always clean and legible. Replace safety decals and signs that are missing or have become illegible. Replaced parts that displayed a safety sign should also display the current sign. Safety decals or signs are available from your dealer or Kirby Manufacturing. (See Drawings BW-040 & BW-041).



BEFORE OPERATION

Carefully study and understand this manual. Note: it is the responsibility of the owner to train all current, new, and future operators of the equipment. If assistance is needed, please contact Kirby Manufacturing.

Do not hurry the learning process or take the unit for granted. Ease into it and become familiar with your new mixer/feeder. Practice operation of your bale feeder and its attachments. Completely familiarize yourself and other operators with its operation before using.

Do not wear loose-fitting clothing which may catch in moving parts. Always wear protective clothing and substantial shoes.

Keep wheel lug nuts or bolts tightened to specified torque. **See Section 2 of Appendix.**

Assure that agricultural implement tires are inflated to the proper pressure.

Be sure that there are no tools lying on or in the mixer/feeder. Give the equipment a visual inspection for any loose bolts, worn parts or cracked welds, and make necessary repairs. Follow the maintenance safety instructions included in this manual.

Do not use the unit until you are sure that the area is clear, especially of children and animals. **Always** check inside of mixer prior to starting it up.

It is possible that this mixer/feeder may be used in dry areas or the presence of combustibles, special precautions should be taken to prevent fires and firefighting equipment should be readily available.

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

IMPORTANT: Drive components can be damaged from excessive speed. Do not operate tractor at speeds more than recommended PTO rpm. This feed mixer may be equipped with either a 1000 RPM or a 540 RPM driveline. Match tractor PTO with the feed mixer driveline.

IMPORTANT: To prevent driveline damage, adjust tractor drawbar to recommended setting. Disengage power to tractor PTO before turning tractor. Remove clevis if equipped. Turn offset drawbar down. Adjust drawbar length.

ADJUST TRAILER HITCH CLEVIS. Mixer should be approximately level when attached to tractor.

Securely attach to towing unit. Use a high strength, appropriately sized hitch pin with a mechanical retainer.

IMPORTANT: Connect safety tow chain (customer supplied) between trailer and tractor. The safety tow chain assembly should have a minimum tensile strength rating of 50,000 lbs.

DURING OPERATION

Beware of bystanders, **particularly children!** Always look around to make sure that it is safe to start the engine of the towing vehicle or move 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 or equipment, except as required for operation.

Keep hands and clothing clear of moving parts. Do not clean, lubricate, or adjust your mixer/feeder while it is running.

Be especially observant of the operating area and terrain - watch for holes, rocks, or other hidden hazards. Always inspect the area prior to operation.

Do not operate on steep slopes as overturn may result. **Operate** up and down (not across) intermediate slopes. Avoid sudden starts and stops. Pick the most level possible route when transporting across fields. Avoid the edges of ditches or gullies and steep hillsides. Be extra careful when working on inclines.

Periodically clear the equipment of hay, feed, twine, or other materials to prevent buildup of dry combustible materials.

Maneuver the tractor or towing vehicle at safe speeds. Avoid overhead wires or other obstacles. Contact with overhead lines could cause serious injury or death. Allow for unit length when making turns.

Do not walk or work under raised components or attachments unless securely positioned and blocked.

Keep all bystanders, pets and livestock clear of the work area.

Operate the towing vehicle from the operator's seat only. Never stand alongside of the unit with engine running. Never attempt to start engine and/or operate machine while standing alongside of unit.

Never leave a running mixer/feeder unattended.

As a precaution, always check the hardware on mixer/feeder prior to operating the equipment. Correct all problems. Follow the maintenance safety procedures.

FOLLOWING OPERATION

Following operation, or when unhitching, stop the tractor or towing vehicle, set the brakes, disengage the PTO and all power drives, shut off the engine and remove the ignition keys.

Store the unit in an area away from high traffic areas.

To prevent damage to the equipment and injury to livestock, do not park equipment where it will be exposed to livestock for long periods of time.

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

Make sure parked machine is on a hard, level surface and engage all safety devices.

Wheel chocks should be used to prevent unit from rolling.



HIGHWAY AND TRANSPORT OPERATIONS

Always keep the brake pedals latched together. Never use independent braking with machine in tow as loss of control and/or upset of unit can 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.

Comply with state and local laws governing highway safety and movement of farm machinery on public roads.

Use approved accessory lighting, flags, and necessary warning devices to protect operators of other vehicles on the highway during daylight and nighttime transport. The use of flashing amber lights is acceptable in most localities. However, some localities prohibit their use. Local laws should be checked for all highway lighting and marking requirements.

When driving the tractor and mixer/feeder on the road or highway under 20 MPH (40 KPH) at night or during the day, use flashing amber warning lights and a slow-moving vehicle (SMV) identification emblem.

Plan your route to avoid heavy traffic. Be a safe courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc.

Be observant of bridge loading ratings. Do not cross bridges rated lower than the gross weight at which you are operating. Watch for obstructions overhead and to the side while transporting.

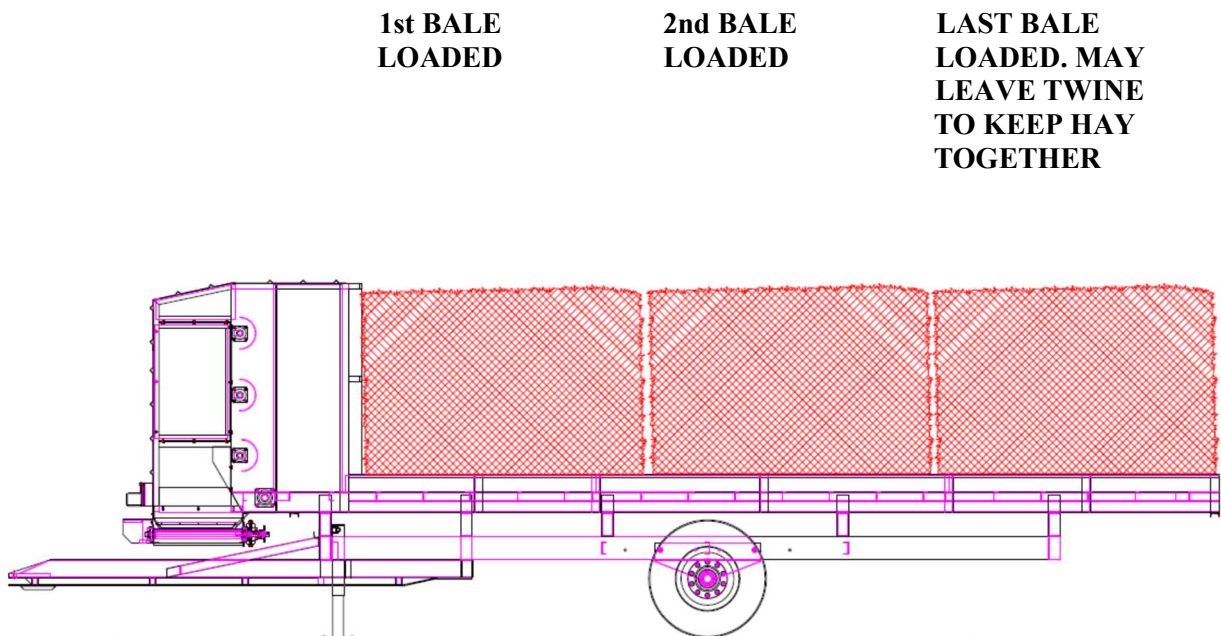
Always operate mixer/feeder in a position to provide maximum visibility.

Make allowances for increased length and weight of the mixer/feeder when making turns, stopping the unit, etc.

EQUIPMENT OPERATIONS

A. LOADING OF YOUR BALE FEEDER

1. Make sure that the P.T.O is disengaged (this is to ensure the safety of the individual who is loading).
2. Make sure that the feeder tongue is properly hooked to trailer hitch (never leave the unit loaded when it is parked on the landing gear).
3. Start loading the bale or bales closest to the beaters first and then work your way back. Set the bales on edge so the twines are facing you. This will make the next step easier.
4. Remove all twines from bales. If hay tends to fluff apart, you may want to leave one twine on the last bale.
5. When you are done loading, make sure everyone and any foreign object is clear of danger and removed from the floor of the unit. Engage the P.T.O at this time.



NOTE: Above drawing is to illustrate loading only; never load an unhitched Bale Feeder

B. OPERATING YOUR BALE FEEDER

- When running your unit for the first time or running a new load of hay always start out at 1 or 2 on your flow control and move up to the right speed. The setting will vary from tractor to tractor, type of hay and weather conditions. Most units run at about “3”.
- Engage the P.T.O; raise the engine’s RPM up to the tractor manufacturer’s recommendations. It will require 540 RPM at the P.T.O for the Bale Feeder to work properly.
- When the beaters and cross feed have reached optimum speed, start the hydraulics control on the floor. If the beaters stall or get plugged, the oil by-passes in the flow control. You maybe feeding the hay into the beaters faster than the knives can cut it. If this is the case, slow the floor down with the flow control.
- After you have run the first set of bales, CHECK floor chains for tightness: the chains will stretch. Continue checking weekly. There should be no more than 6” of slack on the floor chain (Lift floor chain in the middle of the span and measure from bottom on chain to floor).
- When you finish a load, always shut off floor and then the beaters (this clears the beaters and gets it ready for the next load). On start up always start the beaters first and then the floor.

C. CROSS FEED BELT ADJUSTMENT – FOR IDLER ROLLER

Idler roller is opposite of discharge side. To keep your belt running true, follow the adjustment procedures below:

- If your belt is rubbing or riding to the left side of the cross-feed conveyor. You can correct this misalignment by tightening the left side of the belt. This is accomplished by tightening idler roller adjustment screw on the left side of the idler roller.
- If your belt is rubbing or riding to the right side of the cross-feed conveyor. You can correct this misalignment by tightening the right side of the belt. This is accomplished by tightening idler roller adjustment screw on the right side of the idler roller.
- Once the belt is centered and running true, tighten the jam nuts on the adjustment screws and recheck belt alignment.

GENERAL MAINTENANCE

Good maintenance is your responsibility. Poor maintenance is an invitation to trouble.

Make sure there is plenty of ventilation. Never operate the engine of the towing vehicle in a closed building. The exhaust fumes may cause asphyxiation.

Before working on the mixer/feeder, stop the towing vehicle, set the brakes, and disengage the PTO and all power drives, shut off the engine and remove the ignition keys.

Be certain all moving parts on attachments have come to a complete stop before attempting to perform maintenance.

Always use a safety support and block the wheels. Never use a jack to support the machine.

Always use the proper tools or equipment for the job at hand.

Use extreme caution when adjusting.

Never use your hands to locate hydraulic leaks on attachments. Use a small piece of cardboard or wood. Hydraulic fluid escaping under pressure can penetrate the skin.

When disconnecting hydraulic lines, shut off hydraulic supply and relieve all hydraulic pressure.

Openings in the skin and minor cuts are susceptible to infection from hydraulic fluid. If injured by escaping hydraulic fluid, see a doctor at once. Gangrene can result. Without immediate treatment, serious infection and reactions can occur.

Replace all shields and guards after servicing and before moving. After servicing, be sure all tools, parts and service equipment are removed.

Do not allow grease or oil to build up on any step or platform.

Never replace hex bolts with less than grade five (5) bolts unless otherwise specified.

Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications.

Kirby Manufacturing will not be responsible for damages caused using *unapproved parts* and/or accessories. This will void your warranty.

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

A fire extinguisher and first aid kit should be kept readily accessible while performing maintenance on this mixer/feeder.

BALE FEEDER STRUCTURE & TRAILER

Observe for cracks in metal and welds in beater cabinet, trailer frame, axle assembly and around discharge door and chute. Re-weld, as necessary.

Observe trailer hitch for:

- Cracked welds. Re-weld, as necessary.
- Bent or worn. Replace or repair, as necessary.

Observe that all bolts are in place and that all sets crews are properly seated. Replace or tighten as required.

Observe for hydraulic oil leaks. Repair any leaks.

Trailer mount only. Observe trailer tires:

- For cuts or punctures in tires.
- Check for proper inflation using pressure gauge (fill to the maximum pressure rating shown on side of tire).

Observe wheel hubs and bearings:

- Check for oil seal leaks. Replace if seal leaks.
- Check wheel hubs for proper bearing tightness. Tighten as required.
- Observe oil level in cap, oil must be **level** with bottom of filler hole. Fill with proper lubricant to overflow.

BEATERS, SHAFTS & BEARINGS

CAUTION! THE FEEDER SHALL NOT BE IN OPERATION FOR THE FOLLOWING:

Observe beater shaft bearings:

- Check for cracks in bearing housings. Replace if cracked.
- Check carriage bolts holding housing to beater posts. They must be tight.
- Check set screws, either for looseness or missing.
- Check for wear in housing or excessive bearing movement in housing. Replace if housing is worn.

Observe beaters, beater shafts and floor shafts.

- Beater integrity: check welds to shafts on both ends.
- Check that all knives are in place and secured.
- Replace all missing, sheared or stretched bolts.
- Check that beater rotations are balanced and true

Observe cutting and beater chamber, sides, ends and roof. Walls ends and roof should be straight, not bulging in appearance.

SPROCKET & CHAINS

With feeder turned off and secured, observe chain for properly seating on sprocket. Use caution and at a safe distance, observe feeder chains while in operation. Look for chain jerking motion when chain wraps around sprocket. Jerking motion may indicate:

- Misalignment of chain and sprocket. Realign where needed.
- Worn or loose chain. Replace worn chain.
- Loose chain idlers. Reposition and tighten idler.
- Bent shafts. Replace with new shafts.

Observe sprocket tooth wear pattern.

- Tooth worn on sides indicates misalignment. Realign sprocket.
- Tooth worn to a sharp point indicates loose or worn chain. Replace worn sprockets.
- Tooth worn to cup at base indicates excessive load on chain. Replace worn sprockets.

Observe sprockets for the following.

- Main key sheared or shearing. Replace key.
- Main set screws loose or missing. Tighten or replace.
- Movement or signs of movement of sprockets on shaft. Realign and tighten or replace.
- Alignment - Using a straight bar, ensure that both sprocket faces are in full contact with the edge of the bar.

DRIVELINES & POWER TAKEOFFS

Tractor mounted PTO driveline:

- Shields must be secured by locking devices.
- Shields must slide freely.
- Observe shields for damage.
- Driveline shafts must slide freely, binding may cause false readings on the scale system. Lubricate all shaft splines.
- U-joints cross & yoke must fit tight in the bearing cups and have zerk fittings for lubrication. Lubricate all zerk fittings until grease is seen coming out of cross yoke caps.

Truck mounted feeder PTOs:

- Observe for oil leaking around PTO shaft seal. Replace seal.
- Check PTO for loose bolts holding PTO to transmission or engine crank shaft. Tighten bolts.
- Check U-joints, bearings, yokes, and set bolts. Replace worn parts and tighten all bolts.
- Lubricate driveline “U” joints as per the “*Preventive Maintenance and Lubrication Schedule*”.

Bale feeder drive line:

- Check for loose or missing set screws or lock collars in pillow block bearings and driveline yokes. Tighten or replace lock collars set screws.

- Check for loose or missing bolts in pillow block bearings. Tighten or replace.
- Observe driveline under operation. CAUTION STAY CLEAR OF ALL MOVING PARTS, DO NOT WEAR LOOSE CLOTHING!!
- Check for vibration, worn bearings, bad U-joint bearings, or bent shaft. Replace worn or damaged parts.
- Observe for linear movement through bearings, this is indicated by unpainted surface of shaft exposed on each side of bearing locking collar. Realign and tighten loose locking collars.
- Observe for loose set screws or PTO shaft not slipping in sleeve, causing end thrust load on the bearings.
- Check for bent shaft. Replace and grease as per lubrication schedule.

GEARBOXES

50 TO 1 & RIGHT-ANGLE GEARBOXES

Things to check:

- Observe shaft seals for leaks. Replace seals.
- Check for loose bolts that secure gearbox to mounting bracket. Tighten as required.
- Check for misalignment to other components: chains, couplers, u-joints. Realign.
- Check input shaft, movement indicates worn bearings. Replace.
- Check that the oil is level with the filler plug. Fill to overflow or half full.

For regular service, refer to the “*Lubrication and Maintenance Schedule*” of the manual.

LUBRICATION & MAINTENANCE

Floor chain bearings.

- There are two bearings on the forward end of the floor chain conveyor.
- There are two bearings on the rear end of the floor chain conveyor.
- All floor chain bearings have grease zerks that need to be greased.
- Check that all grease lines and grease zerks are in place and in good working order, not plugged, loose or kinked.
- Pump grease using a standard hand pump grease gun for each bearing. Always be sure the machine is operating, and the bearings are rotating to ensure that the bearings are taking grease.

Discharge conveyor bearings.

- There are two take-up bearings on the discharge end of the cross-feed conveyor.
- There are also two flange bearings on the opposite side of the discharge.
- All cross-feed bearings have grease zerks that need to be greased.
- Check that all grease lines and grease zerks are in place and in good working order, not plugged, loose or kinked.
- Pump grease using a standard hand pump grease gun 3 to 4 times for each bearing. Always be sure the machine is operating, and the bearings are rotating to ensure that they take grease.

CAUTION: Excessive grease will blow out the bearing seals. **DO NOT OVER GREASE. THIS SHOULD BE A TWO MAN OPERATION. ENSURE ALL SAFETY PRECAUTIONS ARE TAKEN**

- **BEWARE OF ALL MOVING PARTS.**
- **DO NOT WEAR LOOSE CLOTHING.**
- **BEWARE OF THE PTO.**

Power takeoff. U-joints and slip sleeves.

- Follow safety procedures. **DO NOT** service while the tractor is running, or the PTO is engaged or in motion.
- Key should be removed from tractor or truck before attempting to grease the PTO, U-Joints & Yokes.
- U-joints (crosses and yokes) must be tight in the bearing cups.
- Bearings are greased through zerk grease fittings. Pump grease using a standard hand pump grease gun until you observe grease coming out of **ALL FOUR** CAPS OF THE U-JOINT bearings.
- Check all safety shields and ensure that all are in place.

LUBRICATION SCHEDULE

(Unless stated differently in this manual use the below chart as a general lubrication schedule guideline when performing preventative maintenance on your equipment)

PM SERVICE	Prior to all starts	1 st 50 Hours	Every 100 Hours	Every 500 Hours	Every 1000 Hours	Every 3 Months	Every 6 Months	Every 12 Months
Check hydraulic oil level in tank	X ⁽¹⁾							
Oil all drive chains		X	X					
Oil all floor chains		X	X					
Change oil in all gearboxes		X			X ⁽³⁾		X ⁽³⁾	
Grease all Bearings			X ⁽⁴⁾					
Grease PTO, Drive Line & Slip Sleeve			X ⁽⁵⁾					
Grease all floor take-up sprockets			X					
Change hydraulic oil filters on tank				X ^(1,2)		X ^(1,2)		
Repack Wheel bearings								X
Change hydraulic oil in tank								X ⁽¹⁾

NOTE: For a more detailed Preventative Maintenance (PM) Schedule refer to the “Maintenance Schedule Checklist” located at the end of this chapter.

- (1) for truck mounts only
- (2) 500hrs or 3 months whichever comes first.
- (3) 1,000hrs or 6 months whichever comes first.
- (4) one full pump from grease gun per bearing, do not over grease (over greasing bearings can damage seals)
- (5) grease crosses on driveline yokes until grease is seen coming out of all four ends of cross.

IMPORTANT: ALWAYS CHECK OIL LEVELS PRIOR TO STARTING THE MACHINE

LUBRICANT TYPES:

(Always make sure the equipment is turned OFF & SECURED prior to performing lubrication activities)

Gearboxes:

The gearboxes are originally filled with “Chevron Meropa Ultra Gear 220” gear oil. When topping-off oil in the gearboxes, it is suggested to use “Chevron Meropa Ultra Gear 220” gear oil. Mixing of different brands or types of gear oil is never a good idea. If switching to a different brand or type of gearbox oil, it is recommended that all the existing oil be drained from the gearbox prior to switching oils. Always use a good quality SAE viscosity grade 90 gear oil in the gearboxes with an Extreme Pressure (EP) additive.

Drive Chains, Floor Chains, Threaded Take-Ups, and Bushings Joints:

The drive chains and floor chains should be lubricated periodically with an all-purpose SAE viscosity grades 30 oil. Apply an appropriate amount of oil to all bushing and pin link joints connections on the chain. Apply only enough oil to lubricate the link connections. This is a case where more is not better, since excess oil will only make the equipment messy and could cause a slip hazard. A few drops of oil should be applied to all bushing joints, sprockets, and threaded bearing take-ups.

Housed Bearings, Wheel Bearings, PTO Crosses and Power Shaft Splines:

The housed bearings and wheel bearings should be lubricated on a regular maintenance scheduled. For housed bearings such as pillow block, flanged and take-up bearings it is best to use an all-purpose heavy-duty NLGI Grade 2 grease with Extreme Pressure (EP) additive. One full pump from grease gun per bearing is all that is needed, do not over grease the bearings, (over greasing housed bearings can damage lip seals). Grease should never be seen flowing out of the lip seals on the housed bearings, since this is a sign of over greasing and a damaged seal. Likewise, the PTO crosses and shaft splines should be lubricated using an all-purpose heavy-duty grease with Extreme Pressure (EP) additive. When lubricating the PTO crosses using a grease gun, it is necessary to inject grease until the grease is seen flow out of all four (4) caps on the cross. Since wheel bearings can operate at higher temperatures, it is recommended to clean and re-pack wheel bearings with a “high-temp” wheel bearing grease.

Hydraulic System:

A superior quality hydraulic oil should be used when adding oil to the hydraulic system or changing the oil in the hydraulic tank. It is recommended to use a high-grade hydraulic oil with a viscosity of AW68.

PROCEDURE FOR CHANGING OILS:

The following information pertains to changing oils in both the gearboxes and the hydraulic circuits on the Bale Feeder. Always make sure to change and sample oil immediately after the equipment has been in operation. This will ensure that the oils are warm which will allow them to flow more freely when being drained. Also, this will ensure that any particles that may be in the oil will be in suspension while draining and therefore will be flushed out.

ALWAYS PARK EQUIPMENT ON A LEVEL SURFACE WHEN CHANGING OIL AND CHECKING OIL LEVELS.

I. GEARBOXES:

Draining gearboxes:

1. Locate drain plug on bottom of gearbox.
2. Wipe area clean around drain plug.
3. Place drain pan under gearbox drain plug.
4. Remove drain plug from bottom of gearbox.
5. While oil is draining out capture a small specimen in a clear glass jar.
6. Observe this specimen for contamination and possible wear pieces.
7. **SECURELY** replace plug when last of oil has drained from gearbox.

Filling gearboxes:


1. Remove fill plug on side of gear box, (this plug is near the middle of the gearbox).
2. Using a hand pump fill gearbox through the fill hole, (Note: warm oil will flow easier).
3. Continue filling until the oil starts to flow from fill hole.
4. Replace plug and wipe any excess oil from the equipment.
5. Run equipment and recheck oil levels and check for leaks.

II. HYDRAULIC SYSTEM, (truck mount only):

A superior quality hydraulic oil should be used when adding oil to the hydraulic system or changing the oil in the hydraulic tank. It is recommended to use a hydraulic oil with a viscosity of AW68. When changing hydraulic oil in the hydraulic tank, completely drain all fluid from the tank and the hoses. After all the oil has drained from the tank and hoses, it is good practice to inspect the inside of the tank for contamination. If contamination is found, flushing of the tank may be required. After all fluid has been removed from the tank and the tanks has been found to be in good working order, fill the tank until the oil is visible in the “fluid level gauge tube” mounted on the side of the tank. Once filled to the proper level, run the equipment, and cycle all hydraulic circuits. After cycling hydraulic circuits, recheck tank oil levels and add additional oil as needed.

IMPORTANT: ALWAYS CHECK OIL LEVELS PRIOR TO STARTING THE MACHINE

Trailer Maintenance Schedule/Checklist

Maintenance Schedule/Checklist					
Equipment: Bale Feeder (trailer mount)					
Frequency: 100 hours, (approximately 1 week intervals); (UNLESS STATED OTHERWISE BELOW)					
Customer _____		Location _____			
Date service performed _____		Hours on unit _____			
Equipment ser. no. _____		Service technician _____			
MAJOR AREAS					
1. CUSTOMER INFO.					
	minor areas	item	description	check-off	follow-up required (y/n)
	general	1	speak with equipment operators		
		2	speak with maintenance technicians		
2. HYDRAULIC SYSTEM					
	minor areas	item	description	check-off	follow-up required (y/n)
	general	1	check for leaks; (hoses, fittings, seals, etc)		
		2	check oil levels, fill if needed		
		3	check pressure bypass settings		
		4	check for worn hoses & loose fittings		
		5	start Bale Feeder and check general operating parameters		
		6	check operations of hydraulic cylinders & motors		
3. MECHANICAL SYSTEM					
	minor areas	item	description	check-off	follow-up required (y/n)
	general	1	are all guards in place, (notify appropriate personal if not)		
		2	start Bale Feeder and listen for unusual noises		
		3	look for worn/broken parts		
		4	lubricate all grease zerk fittings and/or points of lubrication		
		5	check drive line shear pin		
		6	check operation of running/clearance lights, (repair if needed)		
	floor chain system	1	check tightness is chains, (adjust if needed)		
		2	check for damage & wear on chain		
		3	check chain guide wear, (repair if needed)		
		4	lubricate floor chain take-up bearings		
	drive chain system	1	check tightness of chains, (adjust if needed)		
		2	check for damage & wear on chain & sprockets		
		3	check chain/sprocket alignment, (adjust if needed)		
		4	lubricate drive chain & shaft bearings		
	frame & panels	1	check wear on inside of housing walls		
		2	check wear on floor panels & seams		
		3	check frame for cracks, (if needed repair)		
		4	check tire pressure and wear		

	cross conveyor		1 check for wear on cross conveyor belt		
			2 check bearing and grease		
			3 check drive system		
			4 check conveyor belt tracking and take-ups, (adjust if needed)		
			5 check operations of cross conveyor		
	gear boxes		1 check yokes for tightness, (check set screws)		
			2 check oil levels, (fill if needed)		
			3 check seals for leaks, (change seals if needed)		
			4 check for shafts and yokes tightness, (tighten if needed)		
			5 check tightness of gearbox mounting bolt, (tightness to frame)		
	PTO		1 check and grease shaft, (check set screws & locking collar)		
4. WEIGH SYSTEM					
(if applicable)	minor areas	item	description	check-off	follow-up required (y/n)
	general		1 check operations of scales		
			2 check for rotation of load cells, (free and not bond-up)		
			3 check for damaged wiring		
			4 check and clean load cell mounting brackets		
			5 check mounting frames for cracks, (repair if needed)		
			6 check to see if "V" blocks are loose and not carrying the load		
5. TEST FEEDER OPERATIONS					
	minor areas	item	description	check-off	follow-up required (y/n)
	general		1 "run-in" Bale Feeder for a period of time (15min+) to insure smooth operations. Walk around equipment and inspect all components for smooth operations		
ADDITIONAL NOTES AND COMMENTS:					
<u>AFTER SERVICE IS COMPLETED; WRITE SERVICED DATE WITH YOUR INITIALS ON A STICKER AND PLACE ON UNIT NEXT TO SERIAL NUMBER ID PLATE.</u>					

NOTE: It is suggested to make copies of this “Maintenance Schedule/Checklist” form to assist with performing routine maintenance inspection of the equipment. This will also serve as a retention record of all safety and maintenance inspections.

Truck Maintenance Schedule/Checklist

Maintenance Schedule/Checklist



Equipment: Bale Feeder (truck mount)

Frequency: 100 hours; approximately 1 week intervals; UNLESS STATED OTHERWISE BELOW

	Customer	_____	Location	_____
	Date service performed	_____	Hours on unit	_____
	Equipment ser. no.	_____	Service technician	_____
MAJOR AREAS				
1. CUSTOMER INFO.				
	minor areas	item	description	check-off follow-up required (y/n)
	general		1 speak with equipment operators	
			2 speak with maintenance technicians	
2. HYDRAULIC SYSTEM				
	minor areas	item	description	check-off follow-up required (y/n)
	general		1 check for leaks; (hoses, fittings, seals, etc)	
			3 check oil levels, fill if needed	
			4 change all oil filters, (every 500 hrs)	
			5 change hydraulic oil, (every 2000 hrs.; approx. 1 year)	
			6 check pressure bypass (relief) settings	
			7 check for worn hoses	
			8 start Bale Feeder and listen for unusual noises	
			9 start Bale Feeder and check general operating parameters	
			10 check driveline; (lubricate yokes every 100 hrs)	
			11 check operations of hydraulic cylinders & motors	
			14 clean heat exchanger (radiator) on hydraulic system (daily)	
3. MECHANICAL SYSTEM				
	minor areas	item	description	check-off follow-up required (y/n)
	general		1 are all guards in place, (notify appropriate personal if not)	
			2 start Bale Feeder and listen for unusual noises	
			3 look for worn/broken parts	
			4 lubricate all grease zerk fittings and/or points of lubrication	
			5 check drive line shear pin	
			6 check operation of running/clearance lights, (repair if needed)	
	floor chain system		1 check tightness of chains, (adjust if needed)	
			2 check for damage & wear on chain	
			3 check chain guide wear, (repair if needed)	
			4 lubricate floor chain take-up bearings	
	drive chain system		1 check tightness is chains, (adjust if needed)	
			2 check for damage & wear on chain & sprockets	
			3 check chain/sprocket alignment, (adjust if needed)	
			4 lubricate drive chain & shaft bearings	

	frame & panels		1 check wear on inside of housing walls		
			2 check wear on floor panels & seams		
			3 check scale chassis frame for cracks, (if needed repair)		
	cross conveyor		1 check for wear on cross conveyor belt		
			2 check bearings and grease		
			3 check drive system		
			4 check conveyor belt tracking and take-ups, (adjust if needed)		
			5 check operations of cross conveyor		
	gear boxes		1 check yokes for tightness, (check set screws)		
			2 check oil levels, (fill if needed)		
			3 check seals for leaks, (change seals if needed)		
			4 check for shafts and yokes tightness, (tighten if needed)		
			5 check tightness of gearbox mounting bolt, (tightness to frame)		
	PTO		1 check and grease shaft, (check set screws & locking collar)		
4. WEIGH SYSTEM					
(if applicable)	minor areas	item	description	check-off	follow-up required (y/n)
	general		1 check operations of scales		
			2 check for rotation of load cells, (free and not bond-up)		
			3 check for damaged wiring		
			4 check and clean load cell mounting brackets		
			5 check mounting frames for cracks, (repair if needed)		
			6 check to see if "V" blocks are loose and not carrying the load		
5. TEST FEEDER OPERATIONS					
	minor areas	item	description	check-off	follow-up required (y/n)
	general		1 "run-in" Bale Feeder for a period of time (15min+) to insure smooth operations. Walk around equipment and inspect all components for smooth operations		
ADDITIONAL NOTES AND COMMENTS:					
<u>AFTER SERVICE IS COMPLETED; WRITE SERVICED DATE WITH YOUR INITIALS ON A STICKER AND PLACE STICKER ON UNIT NEXT TO SERIAL NUMBER ID PLATE.</u>					
NOTE: The above maintenance program covers the operation of the Bale Feeder and does not include truck maintenance checks or safety checks, (other than guarding).					

NOTE: It is suggested to make copies of this “Maintenance Schedule/Checklist” form to assist with performing routine maintenance inspection of the equipment. This will also serve as a retention record of all safety and maintenance inspections.

ELECTRONIC SCALES & LOADCELLS

CAUTION: DO NOT WELD ON EQUIPMENT. Scales must be disconnected from power source and/or battery before welding to prevent damage to micro-processor and strain gauges.

Observe (4) bolts on each load cell stabilizer bracket. They should move freely. Battery or 12-volt power supply must have a minimum of 12 volt-15volt for satisfactory operation of scale. **SEE SCALE MANUAL FOR PROPER OPERATION.**

Battery terminals, connections must be clean and corrosion free and kept tightened.

Loose connection to power or ground will interfere with scale.

Observe J-Box, load cell cables, and power cords for cuts, hanging loose or pulled too tight at the terminals and for loose connections. Correct these conditions.

CAUTION: DO NOT EXPOSE OPEN WIRES, J-BOX OR SCALE INSTRUMENTS TO DIRECT FORCE OF WATER. All entry points are water resistant but must not be subjected to direct force of water.

Scale instruments are very dependable, but microprocessors are sensitive to electrical interference.

- (I) For stationary mixer operated from commercial power, be sure to confirm that the power source is stable.
- (II) Check to eliminate the power supply as the source of a scale problem. To do this connect the scale directly to a separate charged 12-volt vehicle battery. If the scale problem goes away, the power source is the problem.
- (III) This method may also be used to trace or isolate many other glitches from unknown sources.

CAUTION: SCALE REPAIRS ARE BEST ACCOMPLISHED BY TRAINED AND QUALIFIED SCALE REPAIR PERSONNEL.

CAUTION: ELECTRICAL MOTORS, POWER SUPPLIES, AND CONTROL CABINETS MUST BE REPAIRED BY QUALIFIED SERVICE ELECTRICIANS.

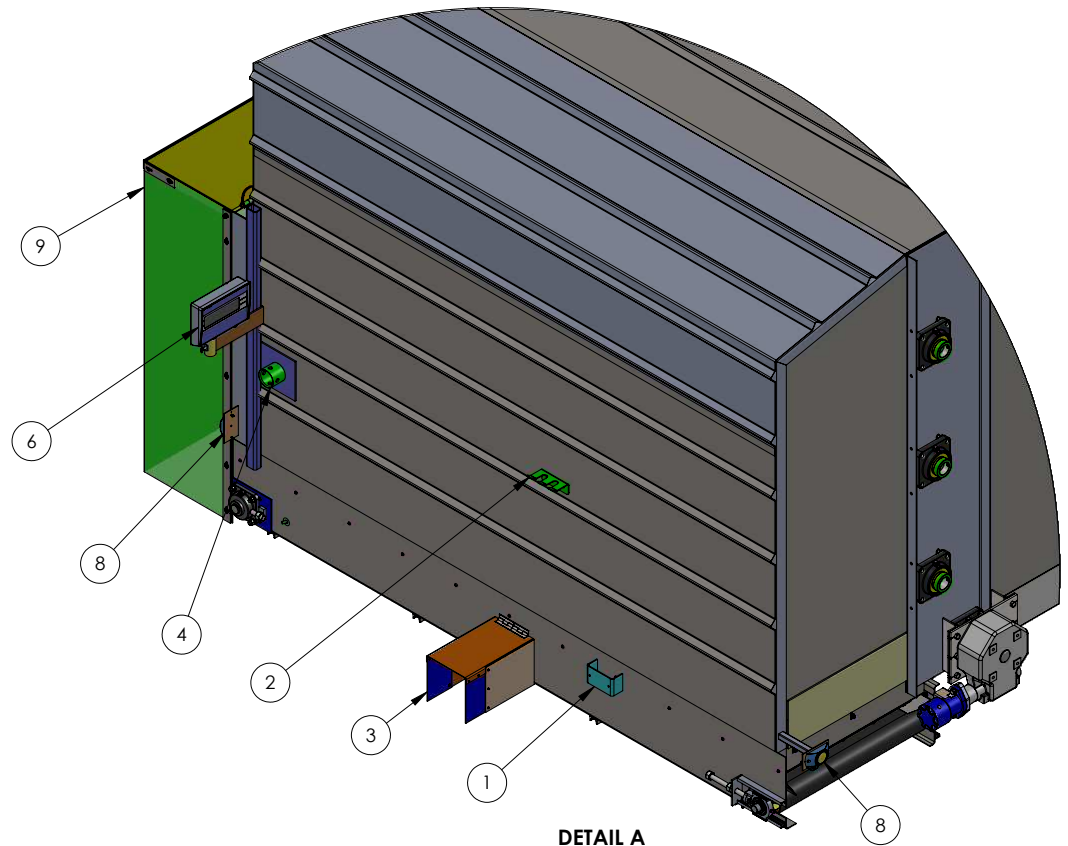
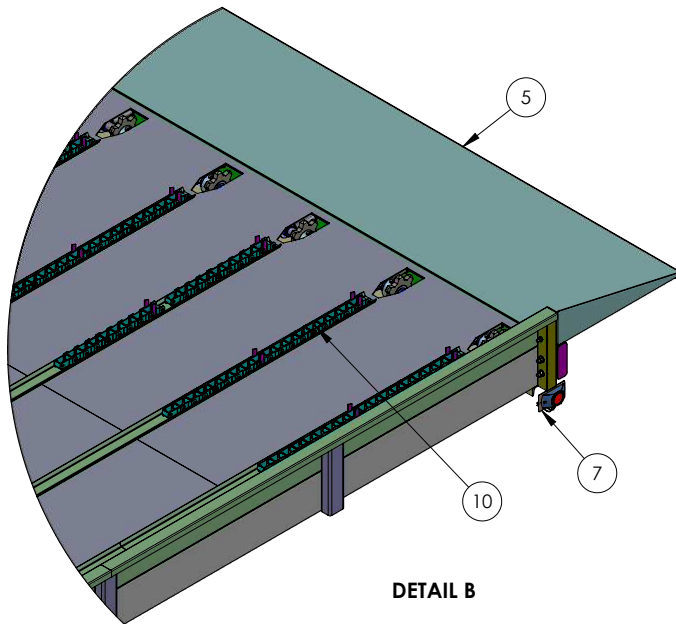
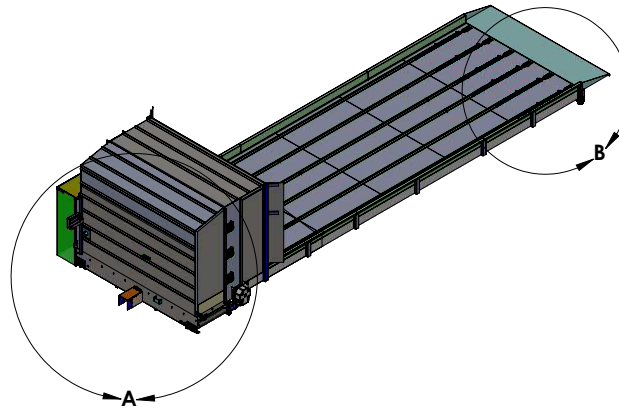
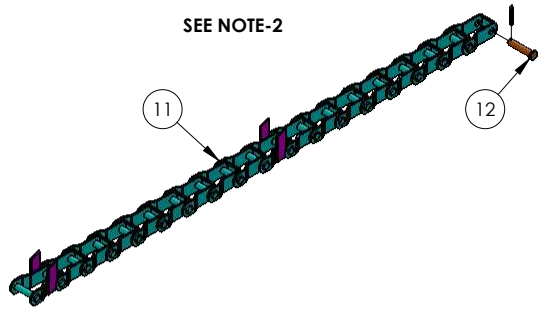
SPARE PARTS

DRAWING NO	DESCRIPTION
BW-001	BALE FEEDER BODY OPTIONS
BW-002	BODY OPTIONS, DISPLAY & DEFLECTOR LIGHT
BW-003	BODY OPTIONS, FLOOR EXTENSION
BW-004	WIND GUARD ASSEMBLY
BW-005	WIND GUARD ASSEMBLY, 12" EXTENSION
BW-006	CROSSFEED, L/H FEED, MECHANICAL BELT
BW-007	CROSSFEED, R/H FEED, MECHANICAL BELT
BW-008	CROSSFEED, R/H FEED, MECHANICAL BELT, UHMW
BW-009	CROSSFEED, L/H FEED, HYDRAULIC BELT, BOLT-ON
BW-010	FOLDING SPOUT
BW-011	TRAILER ASSEMBLY
BW-012	AXLE ASSEMBLY, 10-HOLE ON 11 1/4" B.C.
BW-013	AXLE HUB STUD, SINGLE WHEEL
BW-014	DRIVELINE PTO ASSEMBLY
BW-015	SUBFRAME, TRUCK MOUNT
BW-016	IDLER TAKE-UP ASSEMBLY
BW-017	BEATER DRIVE ASSEMBLY, MECHANICAL
BW-018	BEATER DRIVE ASSEMBLY, ALL HYDRAULIC
BW-019	BEATER DRIVE ASSEMBLY, SEMI-HYDRAULIC
BW-020	BEATER ASSEMBLY
BW-021	FLOOR DRIVE ASSEMBLY w/50:1 GEARBOX
BW-022	FLOOR DRIVE ASSEMBLY, NO GEARBOX
BW-023	FLOOR DRIVE ASSEMBLY w/S1CL6KS5 GEARBOX
BW-024	GEARBOX ASSEMBLY 50:1
BW-025	HEAVY DUTY RIGHT-ANGLE GEARBOX ASSEMBLY
BW-026	GREASE LINE DETAIL, FLOOR & BEATER DRIVE

BW-027	SCHEMATIC SEMI-HYDRAULIC
BW-028	SCHEMATIC ALL-HYDRAULIC
BW-029	TANK, HYDRAULIC, 69 GALLONS
BW-030	TANK, HYDRAULIC, 70 GALLONS
BW-031	HYDRAULICS, TRAILER
BW-032	ALL HYDRAULIC, TRUCK
BW-033	ALL HYDRAULIC, TRUCK
BW-034	SEMI - HYDRAULIC, TRUCK
BW-035	SEMI - HYDRAULIC, TRUCK
BW-036	HYDRAULIC, FOLDING SPOUT
BW-037	ELECTRICAL SCHEMATIC BALE FEEDER – I
BW-038	ELECTRICAL SCHEMATIC BALE FEEDER – II
BW-039	TRUCK CAB COMPONENTS
BW-040	DECALS - I
BW-041	DECALS - II

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
11	--	6733	FLOOR CHAIN, D667X
12	1	6739	D667X CHAIN - PIN & KEY

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	061078	MOUNT, FLOW CONTROL VALVE
2	1	1600-6017B	BRACKET, HYDRAULIC 2 HOSE
3	1	62017	P.T.O. GUARD
4	1	5555	JACK STAND TUBE MOUNT
5	1	SEE NOTE-1	BODY OPTIONS, FLOOR EXTENSION
6	1	SEE NOTE-1	REMOTE DISPLAY
7	2	SEE NOTE-1	DEFLECTOR LIGHT ASSY, 2" RED
8	2	SEE NOTE-1	DEFLECTOR LIGHT ASSY, 2" AMBER
9	1	SEE NOTE-1	WIND GUARD ASSEMBLY
10	--	SEE NOTE-2	FLOOR CHAIN



NOTES:

- 1 - SEE DRAWING NO. BW-001 THROUGH BW-005 FOR OPTIONS AND PART NUMBERS.
- 2 - TO ORDER A FLOOR CHAIN ASSEMBLY, SPECIFY LENGTH OF UNIT AND NUMBER OF CHAINS NEEDED.

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

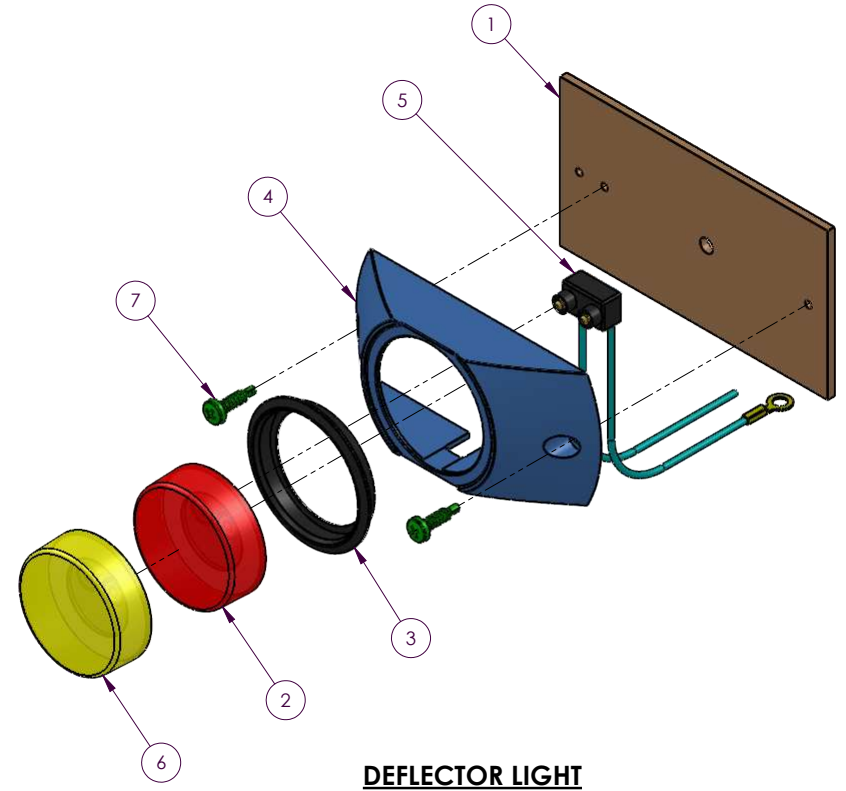
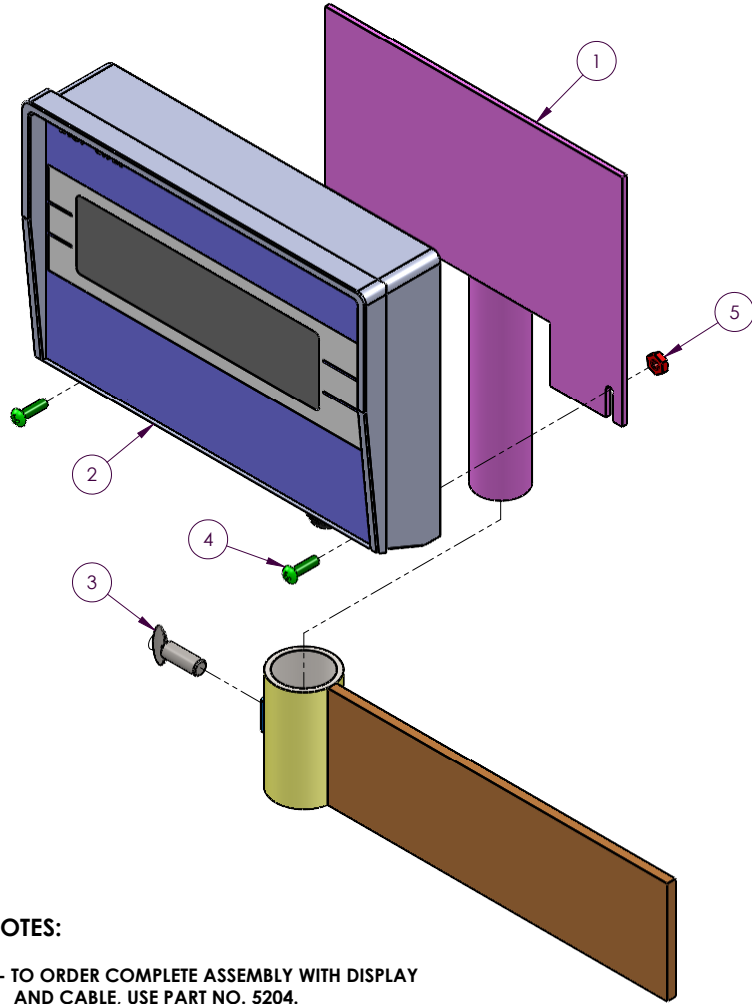
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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ±
 ANGULAR: MACH ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941				
		JOB #: MATERIAL: SEE BOM				DESCRIPTION BALE WAGON BODY OPTIONS
DRAWN BY:	DATE	NAME	MATERIAL/FIN:	SIZE	PART NUMBER	REV.
DESIGNED BY:	9-15-20	MCCLURE	FINISH:	C	BW-001	-
APPROVED BY:			VENDOR:	SCALE: 1:4	WEIGHT:	SHEET 1 OF 1
			VENDOR P/N:	lbs		

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	21204	BRACKET, REMOTE DISPLAY MOUNTING
2	1	SEE NOTES	REMOTE DISPLAY, RD 2500V
3	1	10175	THUMB SCREW, 3/8" NC x 1" LG.
4	2	9080	SCREW, RD HD MACH. 12-24NC x 3/4" LG.
5	2	9084	NUT, HEX, MACH. 12-24 NC

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	391110	MOUNT PLATE, CLEARANCE LIGHT
2	1	4680	LIGHT, CLEARANCE, 2" RND RED, 12V
3	1	4682	GROMMET, RUBBER, 2" RND LIGHT
4	1	4688	DEFLECTOR MOUNT, 2" RND LIGHT
5	1	4703	CONNECTOR PLUG, 2-WIRE PRONG
6	1	4681	LIGHT, CLEARANCE, 2" RND AMBER, 12V
7	2	10032	SCREW, PH, SELF TAP, #10 x 3/4" LG.



NOTES:

- 1 - TO ORDER COMPLETE ASSEMBLY WITH DISPLAY AND CABLE, USE PART NO. 5204.
- 2 - TO ORDER COMPLETE ASSEMBLY WITH DISPLAY, CABLE, XMTR AND RCVR, USE PART NO. 5205.

NOTES:

- 1 - TO ORDER AN ASSEMBLY WITH A RED LIGHT, USE PART NO. LP-0055.
- 2 - TO ORDER AN ASSEMBLY WITH AN AMBER LIGHT, USE PART NO. LP-0055A.

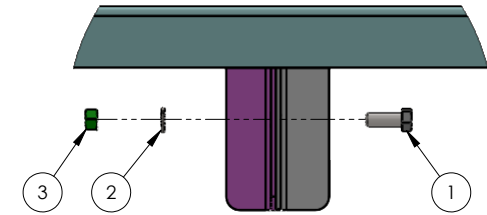
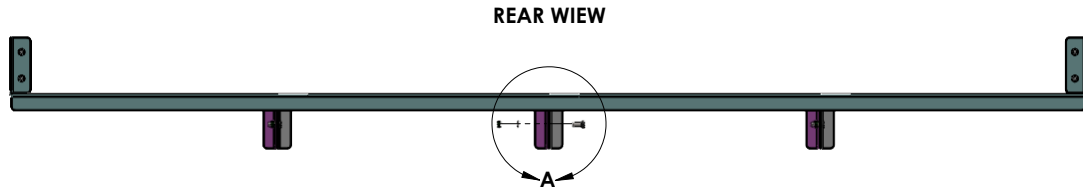
NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

Notes:		Kirby Mig Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941		 DESCRIPTION BODY OPTIONS, DISPLAY & DEFLECTOR LIGHT		
		JOB #: MATERIAL: SEE BOM				
DATE	NAME	MATERIAL/FIN	FINISH	SIZE	PART NUMBER	REV.
DRAWN BY: 6-27-18	ACCLURE			C	BW-002	-
DESIGNED BY: 6-27-18		VENDOR		SCALE: 1:2	WEIGHT: 41.445 lbs	SHEET 1 OF 1
APPROVED BY:		VENDOR P/N:				

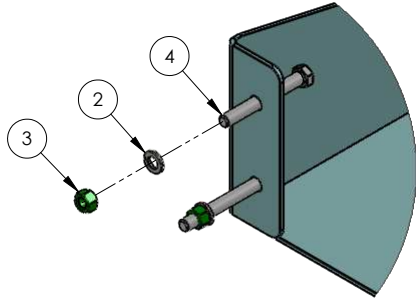
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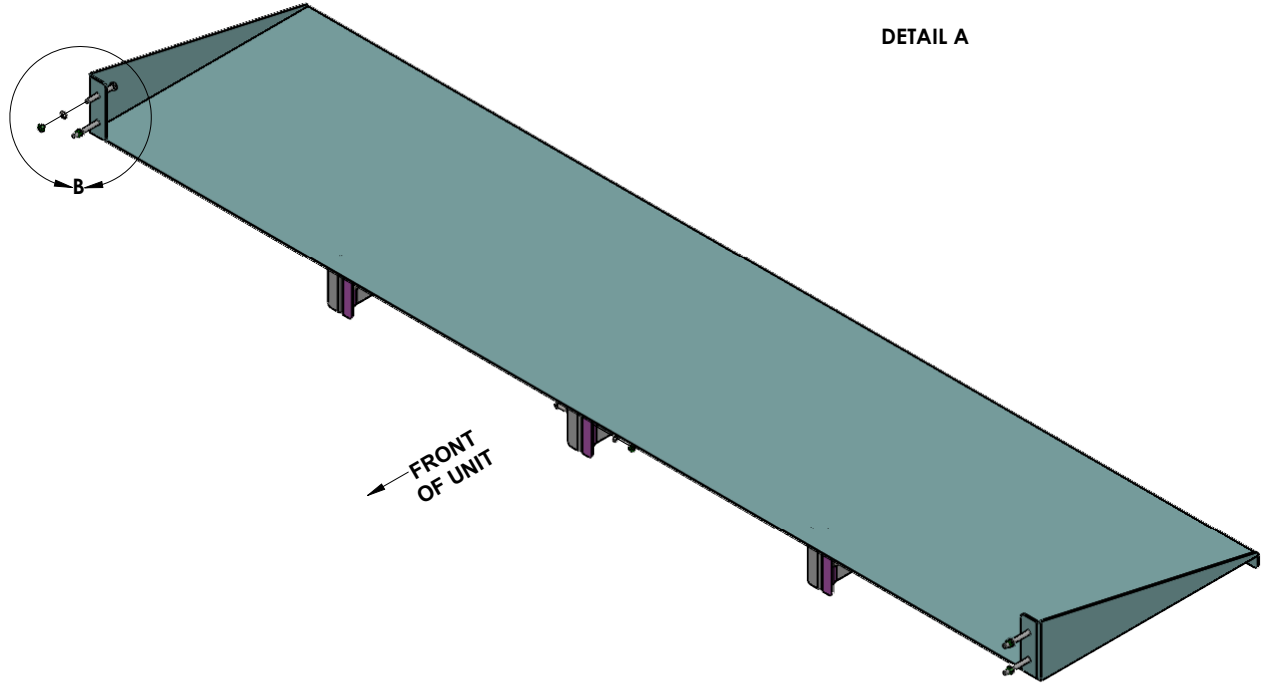
ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	3	10181	BOLT, 3/8" NC x GRD-5 x 1" LG.
2	7	10178	WASHER, 3/8" LOCK
3	7	10170	NUT- 3/8" NC
4	4	10220	BOLT 3/8" NC x 3" LG.



DETAIL A



DETAIL B



NOTES:

- 1 - TO ORDER A FLOOR EXTENSION, 8' 6" WIDE UNIT, 4-CHAIN, USE PART NO. BW-0030.
- 2 - TO ORDER A FLOOR EXTENSION, 8' 6" WIDE UNIT, 6-CHAIN, USE PART NO. BW-0031.
- 3 - TO ORDER A FLOOR EXTENSION, 9' WIDE UNIT, 6-CHAIN, USE PART NO. BW-0032.

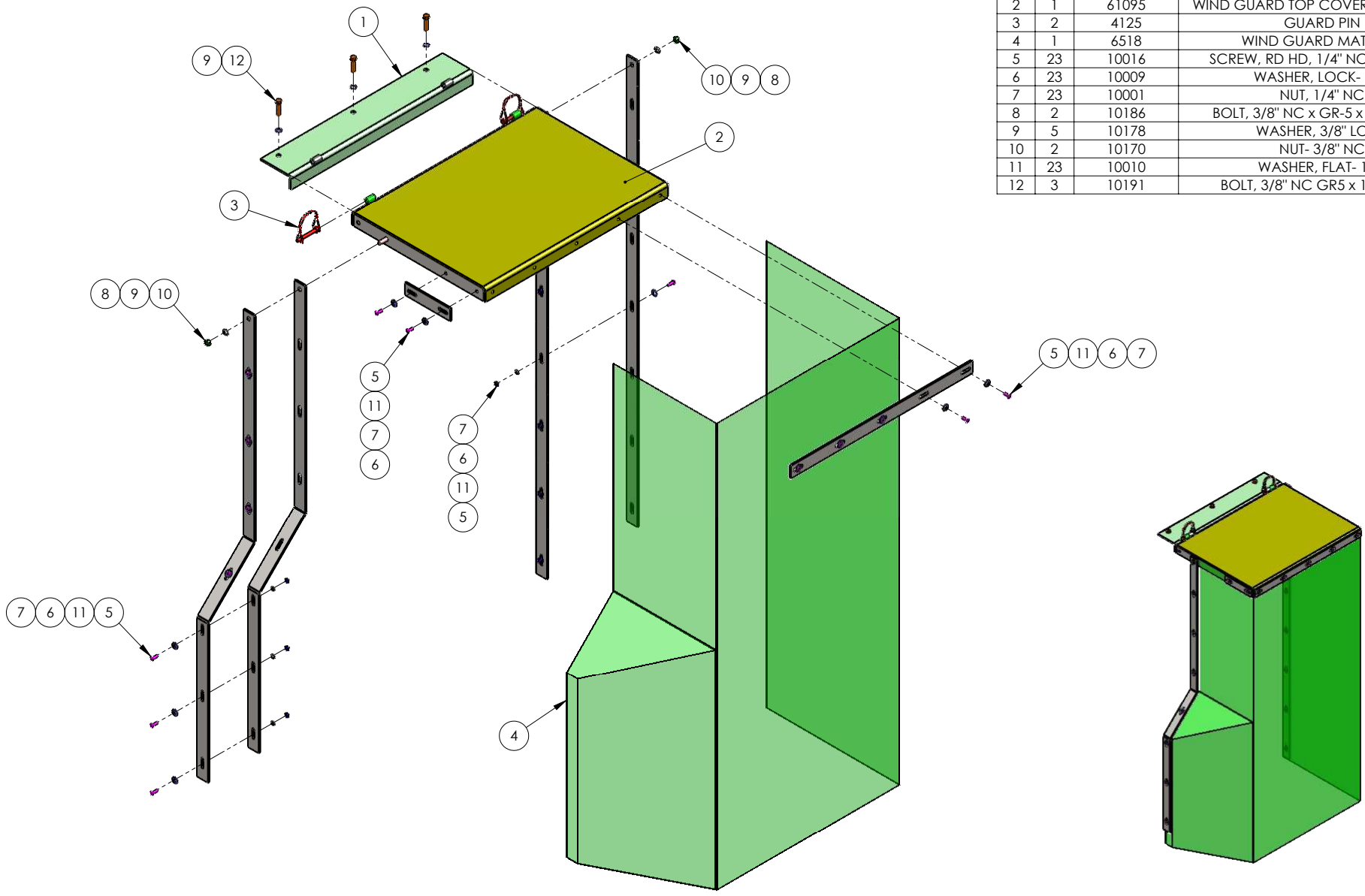
NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ±
 ANGULAR: MACH ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #: MATERIAL: SEE BOM			
DRAWN BY:	DATE: 9-15-20	NAME: MCCURE	FINISH:	SIZE: C	DESCRIPTION: BODY OPTIONS, FLOOR EXTENSION
DESIGNED BY:	DATE: 9-15-20	VENDOR:		PART NUMBER: BW-003	REV: -
APPROVED BY:		VENDOR P/N:		SCALE: 1:12	WEIGHT: 144.194 lbs
				SHEET 1 OF 1	

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	61096	MOUNTING BRACKET, WIND GUARD
2	1	61095	WIND GUARD TOP COVER PANEL ASSY
3	2	4125	GUARD PIN
4	1	6518	WIND GUARD MATERIAL
5	23	10016	SCREW, RD HD, 1/4" NC x 3/4" LG.
6	23	10009	WASHER, LOCK- 1/4"
7	23	10001	NUT, 1/4" NC
8	2	10186	BOLT, 3/8" NC x GR-5 x 1-1/4" LG.
9	5	10178	WASHER, 3/8" LOCK
10	2	10170	NUT- 3/8" NC
11	23	10010	WASHER, FLAT- 1/4"
12	3	10191	BOLT, 3/8" NC GR5 x 1 1/2" LG.




NOTES:

1 - TO ORDER A COMPLETE ASSEMBLY, USE PART NO. BW-0015.

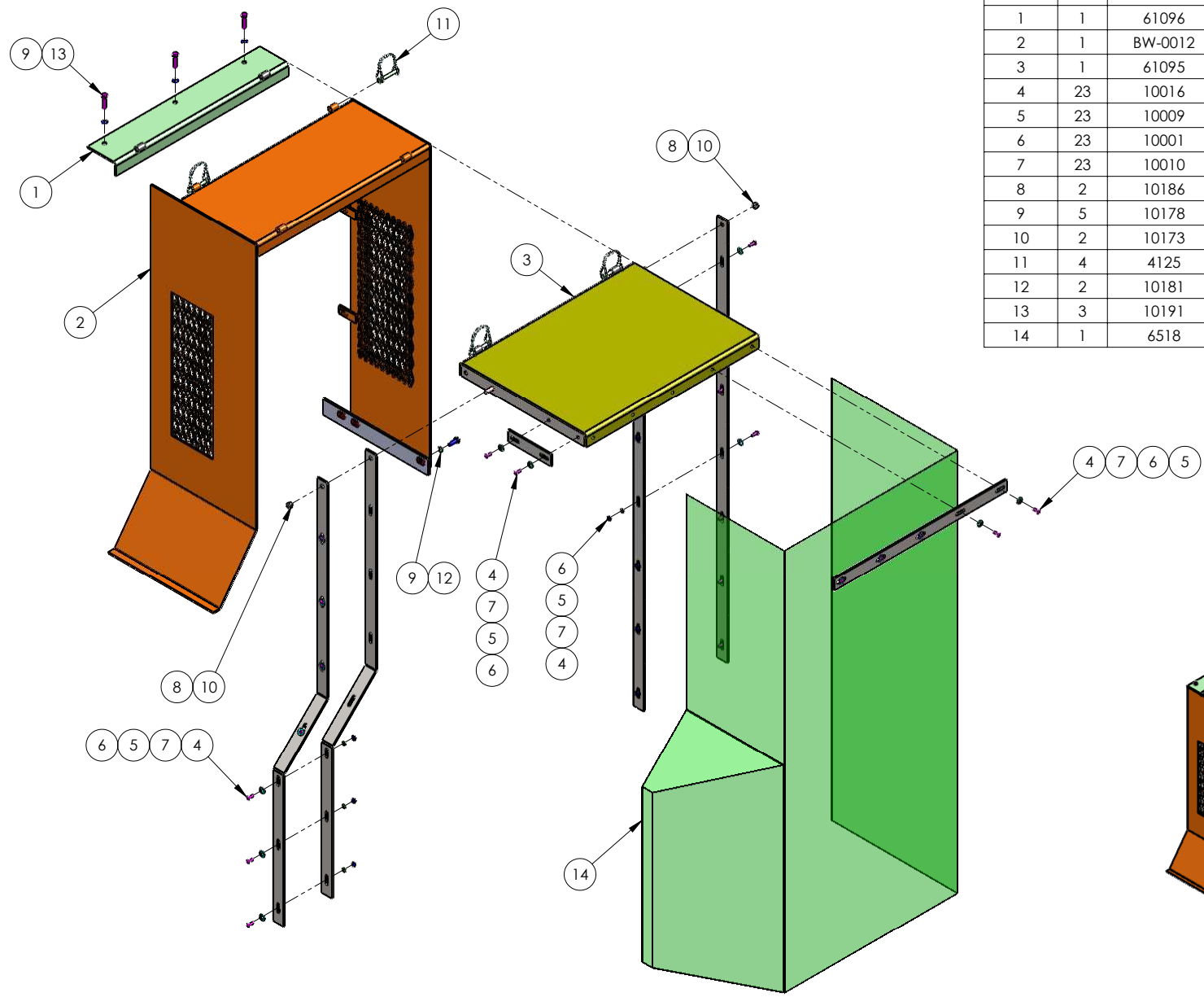
NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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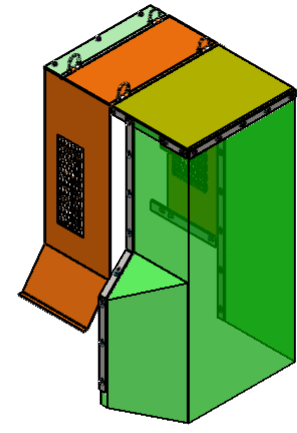
DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ±
 ANGULAR: MACH ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941		 DESCRIPTION WIND GUARD ASSEMBLY		
		JOB #: MATERIAL: SEE BOM				
DRAWN BY:	DATE:	NAME:	FINISH:	SIZE: C	PART NUMBER: BW-004	REV.:
DESIGNED BY:			VENDOR:	SCALE: 1:7	WEIGHT: 62.959 lbs	SHEET 1 OF 1
APPROVED BY:			VENDOR P/N:			

8 7 6 5 4 3 2 1



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	61096	MOUNTING BRACKET, WIND GUARD
2	1	BW-0012	EXTENSION COVER, 12 INCH
3	1	61095	WIND GUARD TOP COVER PANEL ASSY
4	23	10016	SCREW, RD HD, 1/4" NC x 3/4" LG.
5	23	10009	WASHER, LOCK- 1/4"
6	23	10001	NUT, 1/4" NC
7	23	10010	WASHER, FLAT- 1/4"
8	2	10186	BOLT, 3/8" NC x GR-5 x 1-1/4" LG.
9	5	10178	WASHER, 3/8" LOCK
10	2	10173	NUT, NYLOCK- 3/8" NC
11	4	4125	GUARD PIN
12	2	10181	BOLT, 3/8" NC x GRD-5 x 1" LG.
13	3	10191	BOLT, 3/8" NC GR5 x 1 1/2" LG.
14	1	6518	WIND GUARD MATERIAL



NOTES:

1 - TO ORDER A COMPLETE ASSEMBLY, USE PART NO. BW-0013.

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL: ±
 ANGULAR: MACH ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL: ±

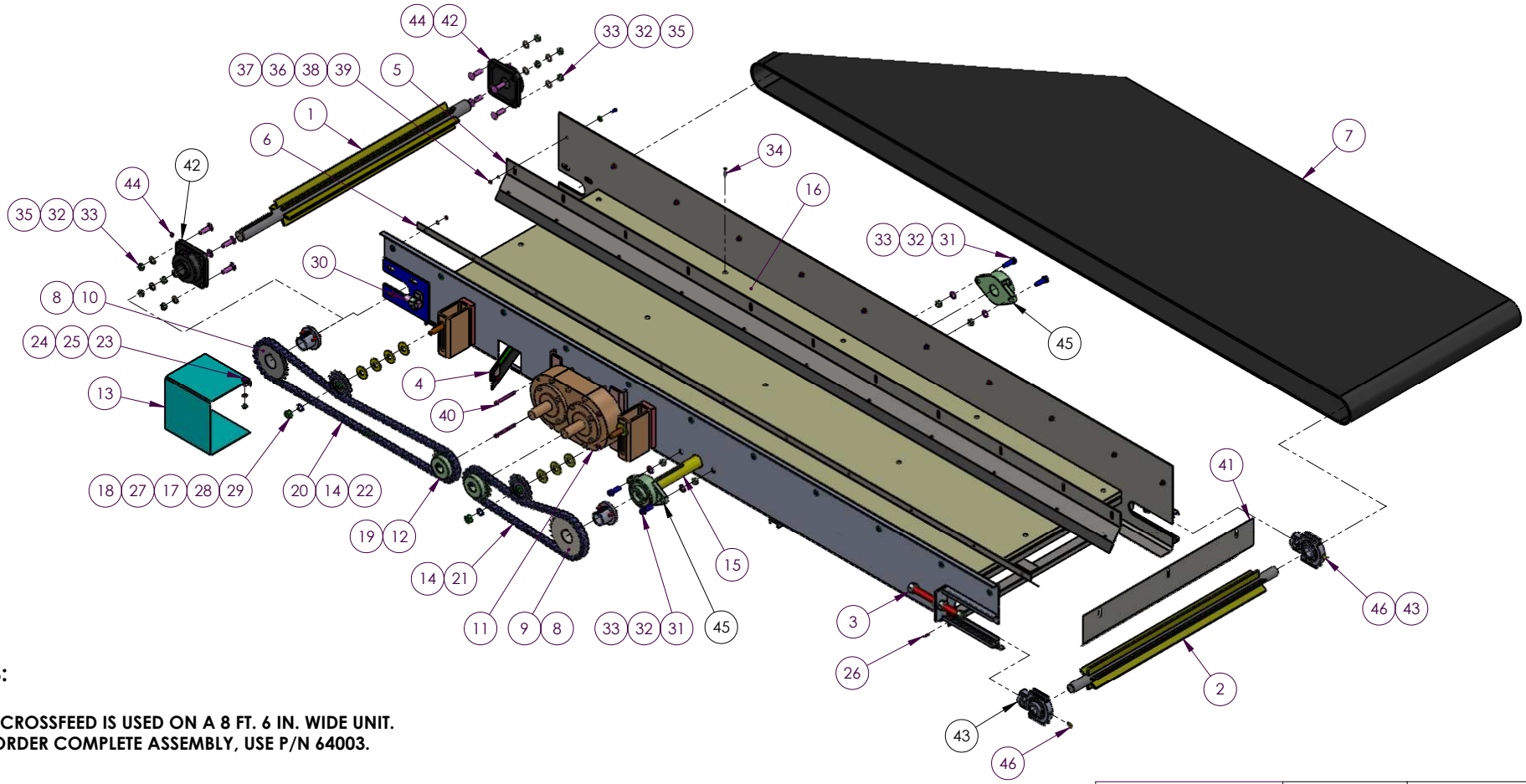
Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941				
		JOB #: MATERIAL: SEE BOM				DESCRIPTION WIND GUARD ASSEMBLY, 12" EXTENSION
DRAWN BY:	DATE	NAME	FINISH:	SIZE	PART NUMBER	REV.
DESIGNED BY:	10-5-18	ACCLURE	VENDOR:	C	BW-005	
APPROVED BY:			VENDOR P/N:	SCALE: 1:7	WEIGHT: 137.071 lbs	SHEET 1 OF 1

8 7 6 5 4 3 2 1

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	62005	PADDLE DRIVE ROLLER
2	1	62006	PADDLE IDLER ROLLER
3	2	61018	TAKE-UP BOLT, 3/4" NC x 9" LG.
4	1	62007	BELT CLEANER ASSEMBLY
5	1	62009	WIPER, FRONT
6	1	62008	WIPER, BACK
7	1	6519	BELTING, RUFF-TOP-RUBBER- 30"
8	2	16053	BUSHING, P1 x 1-1/2" BORE
9	1	17107	SPROCKET, 60-P-25
10	1	17101	SPROCKET, 60-P-22
11	1	7290	GEARBOX, REVERSE 1:1
12	2	3083	SPROCKET, 60-B-17 x 1.25" BORE
13	1	61093	GUARD, CHAIN DRIVE
14	2	6636	CHAIN, # 60H CON / LINK
15	1	133221	SHAFT, PTO
16	1	13200	PLYWOOD, 5/8" CROSSFEED BED

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
17	2	3001	SPROCKET, 60-15 IDLER SOLID
18	2	61016	BOLT, IDLER SPROCKET
19	2	3685	KEY- 1/4" SQ. x 1 1/4" LG.
20	1	6635	CHAIN, #60H, (6 1/2 FT LG.)
21	1	6635	CHAIN, #60H, (4 FT LG.)
22	1	6637	CHAIN, 60H OFFSET LINK
23	2	10181	BOLT, 3/8" NC x GRD-5 x 1" LG.
24	2	10170	NUT- 3/8" NC
25	2	10178	WASHER, 3/8" LOCK
26	2	11355	ROLL PIN, SPRING, 3/16" x 1" LG.
27	8	10552	WASHER, FLAT- 5/8"
28	2	10553	WASHER- 5/8" LOCK
29	2	10550	NUT, 5/8" NC
30	2	10669	SET SCREW,SQ HEAD 3/4" NC x 2"

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
31	4	10411	BOLT - 1/2" NC GRD.5 x 1 1/2" LG.
32	12	10398	WASHER, LOCK- 1/2"
33	12	10390	NUT 1/2" NC
34	15	10025	SCREW, SELF TAP
35	8	10412	BOLT, CARRIAGE - 1/2" NC x 1 3/4" LG.
36	22	10010	WASHER, FLAT- 1/4"
37	22	10016	SCREW, RD HD, 1/4" NC x 3/4" LG.
38	22	10009	WASHER, LOCK- 1/4"
39	22	10001	NUT, 1/4" NC
40	4	10142	BOLT - 5/16" NC x GRD-5 x 3 1/4" LG.
41	1	62010	END WIPER ASSEMBLY
42	2	2077	BEARING, 4-HOLE FLANGE, 1-1/2" BORE
43	2	2101	BEARING, TAKE-UP- 1/1/4"
44	2	11310	GREASE ZERK, 1/8" M NPTF
45	2	2132	BEARING, 2-HOLE FLANGE, 1 1/2" BORE
46	2	11311	ZERK, GREASE, 1/8" NPTF x 45°



NOTES:

1 - THIS CROSSFEED IS USED ON A 8 FT. 6 IN. WIDE UNIT.
TO ORDER COMPLETE ASSEMBLY, USE P/N 64003.

**NOTE: UNIT SERIAL # NEEDED
FOR ALL PART ORDERS**

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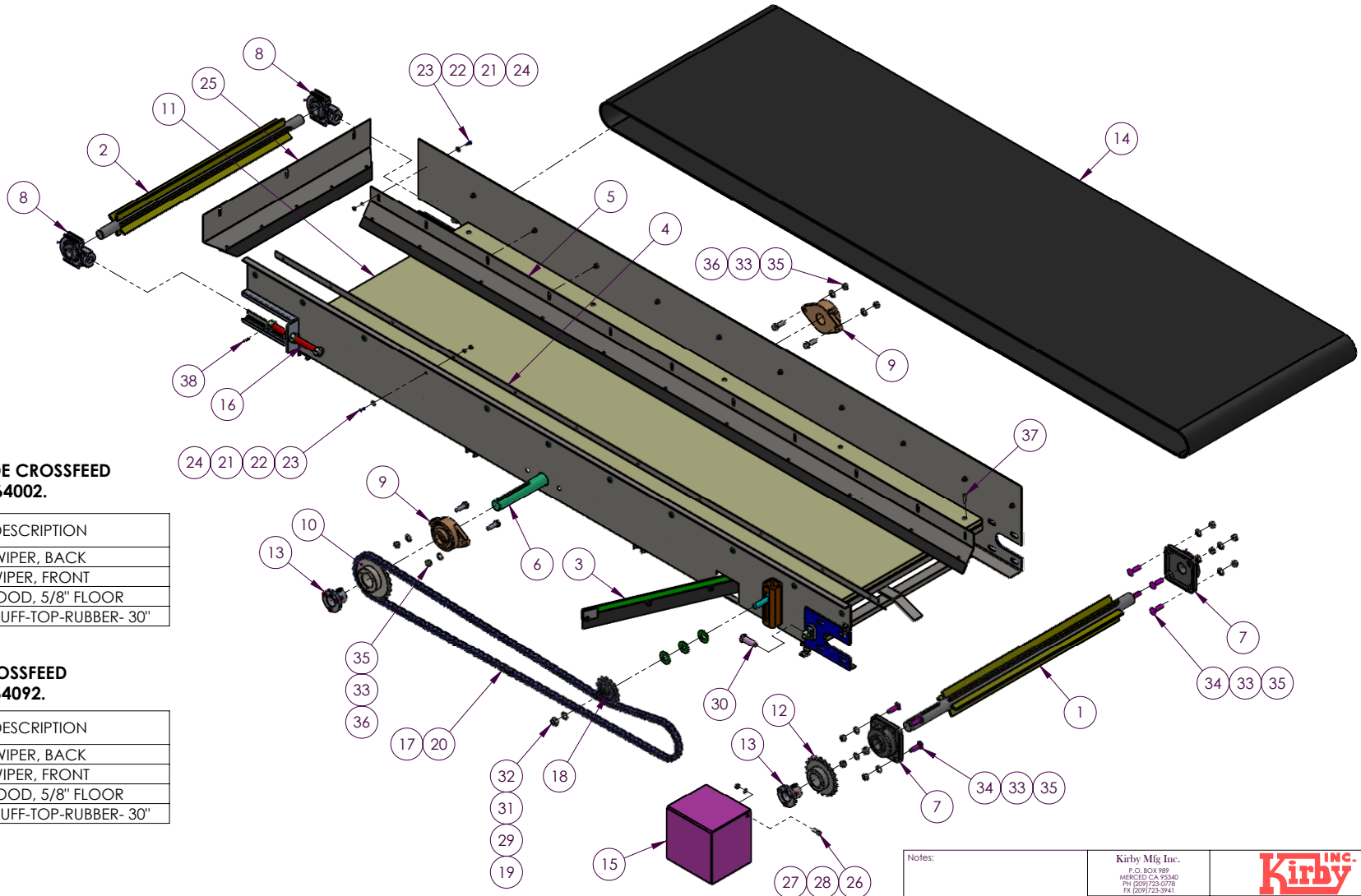
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #: MATERIAL: SEE BOM			
DRAWN BY:	DATE:	NAME:	FINISH:	SIZE:	DESCRIPTION:
DESIGNED BY:	7-23-18	ACCLURE	VENDOR:	C	CROSSFEED, L/H FEED, MECHANICAL BELT
APPROVED BY:			VENDOR P/N:	PART NUMBER:	BW-006
				SCALE: 1:1Q	WEIGHT: 413.440 lbs
				SHEET 1 OF 1	

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	62005	PADDLE DRIVE ROLLER
2	1	62006	PADDLE IDLER ROLLER
3	1	62007	BELT CLEANER ASSEMBLY
4	1	SEE NOTES	WIPER, BACK
5	1	SEE NOTES	WIPER, FRONT
6	1	133221	SHAFT, P.T.O.
7	2	2077	BEARING, 4-HOLE FLANGE, 1-1/2" BORE
8	2	2101	BEARING, TAKE-UP- 1/1/4"
9	2	2132	BEARING, 2-HOLE FLANGE, 1 1/2" BORE
10	1	17107	SPROCKET, 60-P-25
11	1	SEE NOTES	PLYWOOD, 5/8" FLOOR
12	1	17101	SPROCKET, 60-P-22
13	2	16053	BUSHING, P1 x 1-1/2" BORE

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
14	1	SEE NOTES	BELTING, RUFF-TOP-RUBBER- 30"
15	1	61093	GUARD, CHAIN DRIVE
16	2	61018	TAKE-UP BOLT, 3/4" NC x 9" LG.
17	1	6636	CHAIN, # 60H CON / LINK
18	1	3001	SPROCKET, 60-15 IDLER SOLID
19	1	61016	BOLT, IDLER SPROCKET
20	1	6635	CHAIN, #60H, (11 FT LG.)
21	22	10009	WASHER, LOCK- 1/4"
22	22	10010	WASHER, FLAT- 1/4"
23	22	10016	SCREW, RD HD, 1/4" NC x 3/4" LG.
24	22	10001	NUT, 1/4" NC
25	1	62010	END WIPER ASSEMBLY

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
26	2	10181	BOLT, 3/8" NC x GRD-5 x 1" LG.
27	2	10170	NUT- 3/8" NC
28	2	10178	WASHER, 3/8" LOCK
29	3	10552	WASHER, FLAT- 5/8"
30	2	10669	SET SCREW,SQ HEAD 3/4" NC x 2"
31	1	10553	WASHER- 5/8" LOCK
32	1	10550	NUT, 5/8" NC
33	12	10398	WASHER, LOCK- 1/2"
34	8	10412	BOLT, CARRIAGE- 1/2" NC x 1 3/4" LG.
35	12	10390	NUT 1/2" NC
36	4	10411	BOLT - 1/2" NC GRD.5 x 1 1/2" LG.
37	10	10025	SCREW, SELF TAP
38	2	11355	ROLL PIN, SPRING, 3/16" x 1" LG.



NOTES:
1 - TO ORDER A 8 FT. 6 IN. WIDE CROSSFEED ASSEMBLY, USE PART NO. 64002.

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
4	1	62008	WIPER, BACK
5	1	62009	WIPER, FRONT
11	1	13200	PLYWOOD, 5/8" FLOOR
14	1	6519	BELTING, RUFF-TOP-RUBBER- 30"

2 - TO ORDER A 9 FT. WIDE CROSSFEED ASSEMBLY, USE PART NO. 64092.

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
4	1	62128	WIPER, BACK
5	1	62129	WIPER, FRONT
11	1	13201	PLYWOOD, 5/8" FLOOR
14	1	6519A	BELTING, RUFF-TOP-RUBBER- 30"

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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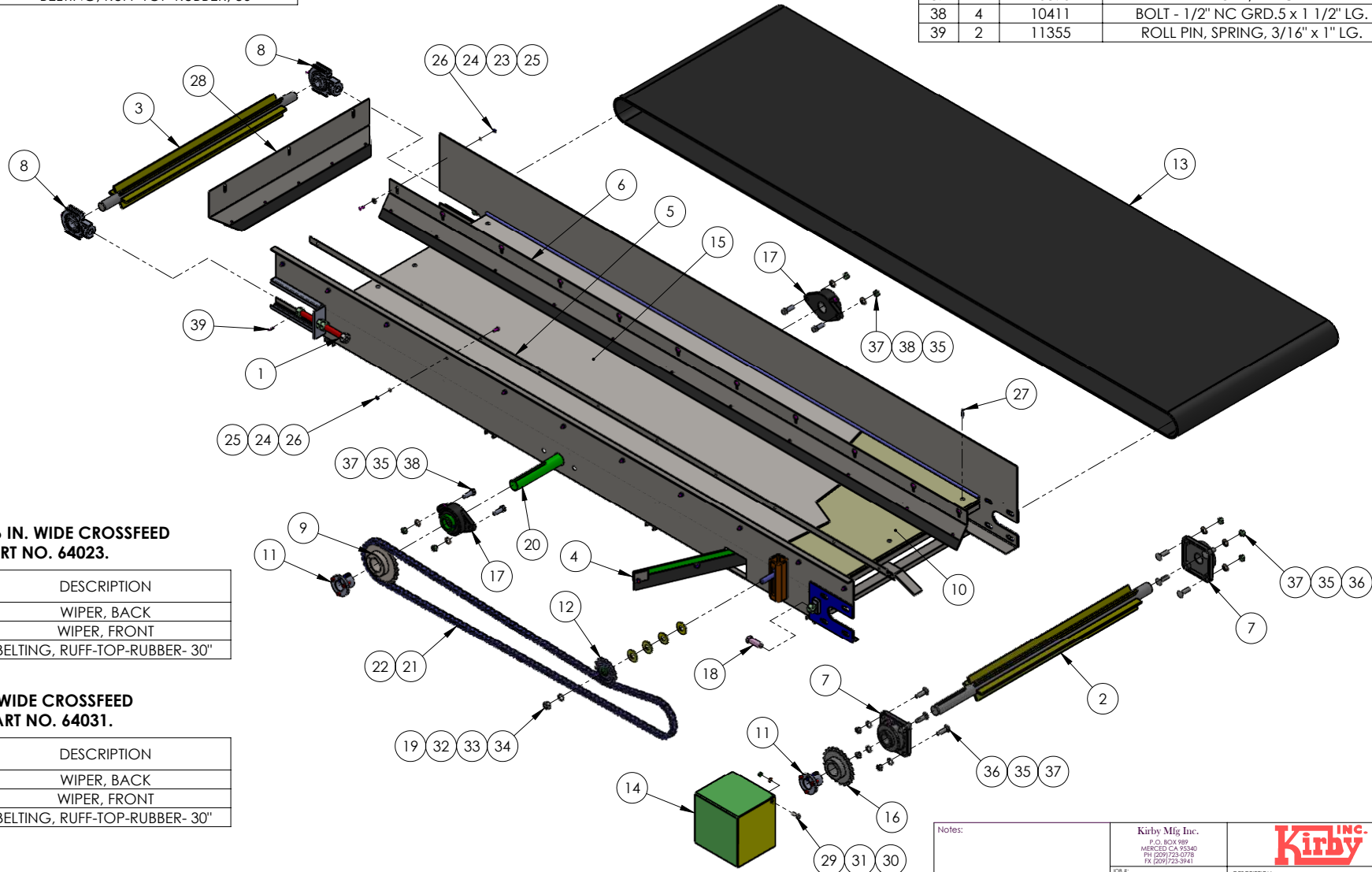
DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL: ±
 ANGULAR: MACH ± BEND ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

Notes:		Kirby Mig Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-9278 FX (209)723-3941			
		JOB #: MATERIAL: SEE BOM			
DRAWN BY: 7-18-18		NAME: MCCLEURE		DESCRIPTION CROSSFEED, R/H FEED, MECHANICAL BELT	
DESIGNED BY: 7-18-18		FINISH:		SIZE C	
APPROVED BY:		VENDOR:		PART NUMBER BW-007	
		VENDOR P/N:		SCALE: 1:10	
				WEIGHT: 395.227 lbs	
				SHEET 1 OF 1	

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	2	61018	TAKE-UP BOLT, 3/4" NC x 9" LG.
2	1	62005	PADDLE DRIVE ROLLER
3	1	62006	PADDLE IDLER ROLLER
4	1	62007	BELT CLEANER ASSEMBLY
5	1	SEE NOTES	WIPER, BACK
6	1	SEE NOTES	WIPER, FRONT
7	2	2077	BEARING, 4-HOLE FLANGE, 1-1/2" BORE
8	2	2101	BEARING, TAKE-UP- 1/1/4"
9	1	17107	SPROCKET, 60-P-25
10	1	13190	PLYWOOD, 3/8" FLOOR
11	2	16053	BUSHING, P1 x 1-1/2" BORE
12	1	3001	SPROCKET, 60-15 IDLER SOLID
13	1	SEE NOTES	BELTING, RUFF-TOP-RUBBER, 30"

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
14	1	61093	GUARD, CHAIN DRIVE
15	1	11441	UHMW, FLOOR
16	1	17101	SPROCKET, 60-P-22
17	2	2132	BEARING, 2-HOLE FLANGE, 1 1/2" BORE
18	2	10669	SET SCREW,SQ HEAD 3/4" NC x 2"
19	1	61016	BOLT, IDLER SPROCKET
20	1	133221	SHAFT, PTO INPUT 8'6" B.W.
21	1	6635	CHAIN, #60H, (11 FT LG.)
22	1	6636	CHAIN, # 60H CON / LINK
23	11	10010	WASHER, FLAT- 1/4"
24	22	10009	WASHER, LOCK- 1/4"

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
25	22	10016	SCREW, RD HD, 1/4" NC x 3/4" LG.
26	22	10001	NUT, 1/4" NC
27	17	10025	SCREW, SELF TAP
28	1	62010	END WIPER ASSEMBLY
29	2	10181	BOLT, 3/8" NC x GRD-5 x 1" LG.
30	2	10170	NUT- 3/8" NC
31	2	10178	WASHER, 3/8" LOCK
32	4	10552	WASHER, FLAT- 5/8"
33	1	10553	WASHER- 5/8" LOCK
34	1	10550	NUT, 5/8" NC
35	12	10398	WASHER, LOCK- 1/2"
36	8	10412	BOLT, CARRIAGE - 1/2" NC x 1 3/4" LG.
37	12	10390	NUT 1/2" NC
38	4	10411	BOLT - 1/2" NC GRD.5 x 1 1/2" LG.
39	2	11355	ROLL PIN, SPRING, 3/16" x 1" LG.



NOTES:
1 - TO ORDER A 8 FT. 6 IN. WIDE CROSSFEED ASSEMBLY, USE PART NO. 64023.

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
5	1	62008	WIPER, BACK
6	1	62009	WIPER, FRONT
13	1	6519	BELTING, RUFF-TOP-RUBBER- 30"

2 - TO ORDER A 9 FT. WIDE CROSSFEED ASSEMBLY, USE PART NO. 64031.

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
5	1	62128	WIPER, BACK
6	1	62129	WIPER, FRONT
13	1	6519A	BELTING, RUFF-TOP-RUBBER- 30"

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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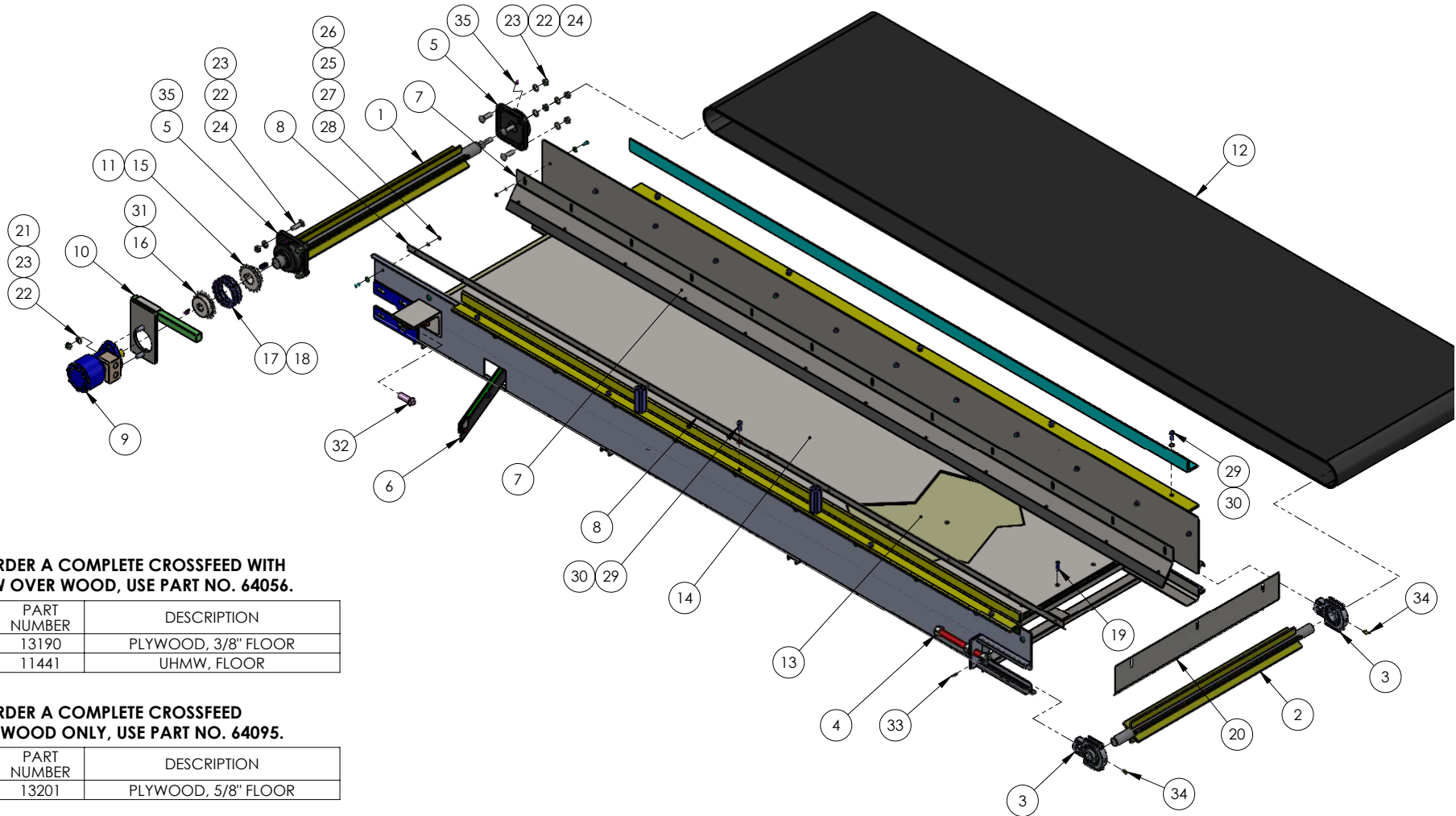
DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL: ±
 ANGULAR: MACH ± BEND ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL: ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #: MATERIAL: SEE BOM			
DRAWN BY:	DATE:	NAME:	FINISH:	SIZE:	REV.:
DESIGNED BY:	7/19/2014	MCCLURE	VENDOR:	PART NUMBER:	BW-008
APPROVED BY:	7/19/2014		VENDOR P/N:	SCALE: 1:14	WEIGHT: 555.536 lbs
				DESCRIPTION: CROSSFEED, R/H FEED, MECHANICAL BELT, UHMW	
				SHEET 1 OF 1	

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	62005	PADDLE DRIVE ROLLER
2	1	62006	PADDLE IDLER ROLLER
3	2	2101	BEARING, TAKE-UP- 1/1/4"
4	2	61018	TAKE-UP BOLT, 3/4" NC x 9" LG.
5	2	2077	BEARING, 4-HOLE FLANGE, 1-1/2" BORE
6	1	62007	CROSSFEED BELT CLEANER
7	1	62028	WIPER, FRONT
8	1	62029	WIPER, REAR
9	1	7913	MOTOR, HYDRAULIC
10	1	BW-6001	MOTOR MOUNT
11	1	3694	KEY, SQ. 3/8" x 1 1/4" LG.
12	1	6520	BELTING, RUFF-TOP-RUBBER- 30"

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
13	1	SEE NOTES	PLYWOOD, FLOOR
14	1	SEE NOTES	UHMW, FLOOR
15	1	2746	SPROCKET, 50-B-18 x 1.50" BORE
16	1	2742	SPROCKET, 50-B-18 x 1.00" BORE
17	1	6703	CHAIN, 50-2 DRIVE (.95 FT LG.)
18	1	6704	CHAIN, #50-2 CON-LINK
19	20	10025	SCREW, SELF TAP
20	1	62010	END WIPER ASSEMBLY
21	2	10411	BOLT - 1/2" NC GRD.5 x 1 1/2" LG.
22	10	10398	WASHER, LOCK- 1/2"
23	10	10390	NUT 1/2" NC
24	8	10412	BOLT, CARRIAGE - 1/2" NC x 1 3/4" LG.

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
25	24	10010	WASHER, FLAT- 1/4"
26	24	10016	SCREW, RD HD, 1/4" NC x 3/4" LG.
27	24	10009	WASHER, LOCK- 1/4"
28	24	10001	NUT, 1/4" NC
29	10	10181	BOLT, 3/8" NC x GRD-5 x 1" LG.
30	10	10178	WASHER, 3/8" LOCK
31	1	7879B	KEY, WOODRUFF- 1/4" x 1"
32	2	10669	SET SCREW,SQ HEAD 3/4" NC x 2"
33	2	11355	ROLL PIN, SPRING, 3/16" x 1" LG.
34	2	11311	ZERK, GREASE, 1/8" NPTF x 45°
35	2	11310	GREASE ZERK, 1/8" M NPTF



NOTES:
1 - TO ORDER A COMPLETE CROSSFEED WITH UHMW OVER WOOD, USE PART NO. 64056.

ITEM NO.	QTY	PART NUMBER	DESCRIPTION
13	1	13190	PLYWOOD, 3/8" FLOOR
14	1	11441	UHMW, FLOOR

2 - TO ORDER A COMPLETE CROSSFEED WITH WOOD ONLY, USE PART NO. 64095.

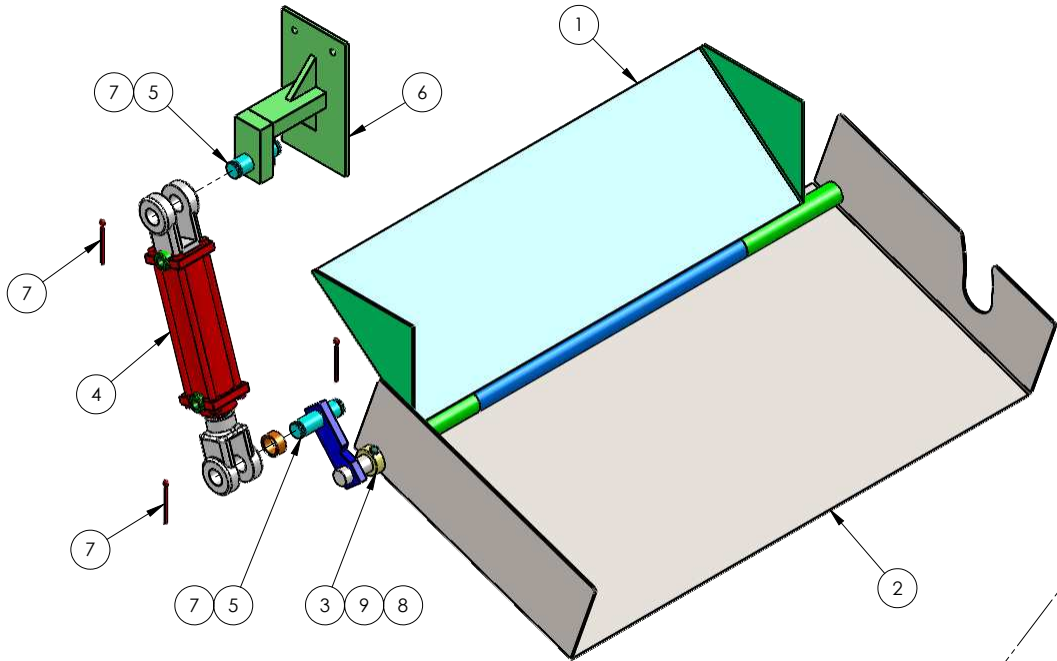
ITEM NO.	QTY	PART NUMBER	DESCRIPTION
13	1	13201	PLYWOOD, 5/8" FLOOR

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

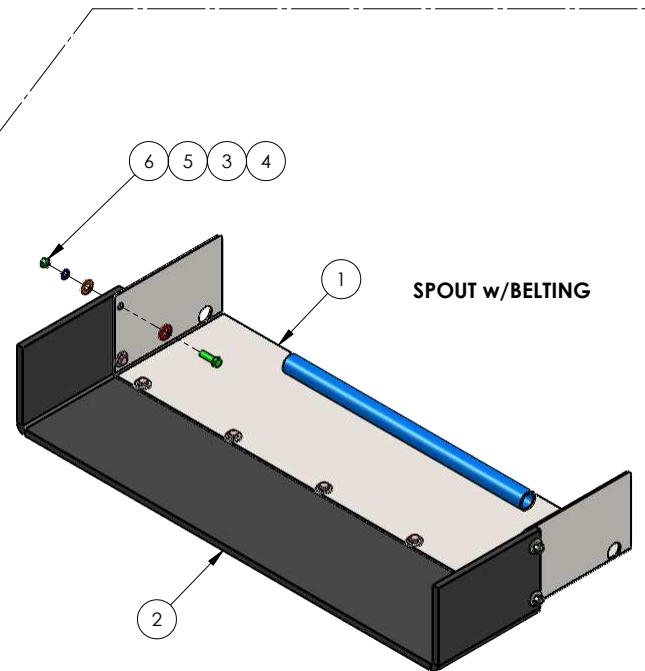
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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ±
 ANGULAR: MACH ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

Notes:		Kirby Mig Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-9278 FX (209)723-3941		
		JOB #: MATERIAL: SEE BOM		
DRAWN BY:	DATE:	NAME:	FINISH:	DESCRIPTION: CROSSFEED, L/H FEED, HYDRAULIC BELT, BOLT-ON
DESIGNED BY:	DATE:	VENDOR:		SIZE: C PART NUMBER: BW-009
APPROVED BY:		VENDOR P/N:		SCALE: 1:10 WEIGHT: 688.623 lbs SHEET 1 OF 1



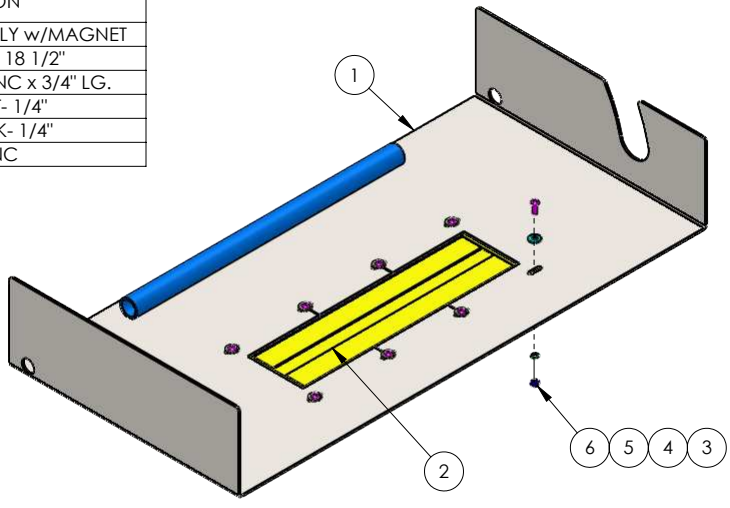
ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	63040	SPOUT BASE ASSEMBLY
2	1	63041	FOLDING SPOUT FLIPPER ASSEMBLY
3	2	4317	SHAFT COLLAR, 1" BORE
4	1	7925	CYLINDER, 2" X 6" STROKE
5	2	7928	CLEVIS PIN, CYLINDER
6	1	27272	RAM MOUNT, CROSSFEED SPOUT
7	4	11215	COTTER PIN, 3/16" x 2 1/2" LG.
8	2	10002	NUT, NYLOCK- 1/4" NC
9	2	10040	BOLT- 1/4" NC (GRD.8) x 2" LG.



SPOUT w/BELTING

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	63041M	SPOUT FLIPPER ASSEMBLY w/MAGNET
2	1	5511	MAGNET PLATE, 18 1/2"
3	8	10016	SCREW, RD HD, 1/4" NC x 3/4" LG.
4	8	10010	WASHER, FLAT- 1/4"
5	8	10009	WASHER, LOCK- 1/4"
6	8	10001	NUT, 1/4" NC

SPOUT w/MAGNET



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	63041-8IN	SPOUT FLIPPER ASSEMBLY w/BELTING
2	1	6536	BELTING, SPOUT FIPPER ASSEMBLY
3	18	10179	WASHER, 3/8" FLAT
4	9	10186	BOLT, 3/8" NC x GR-5 x 1-1/4" LG.
5	9	10178	WASHER, 3/8" LOCK
6	9	10170	NUT- 3/8" NC

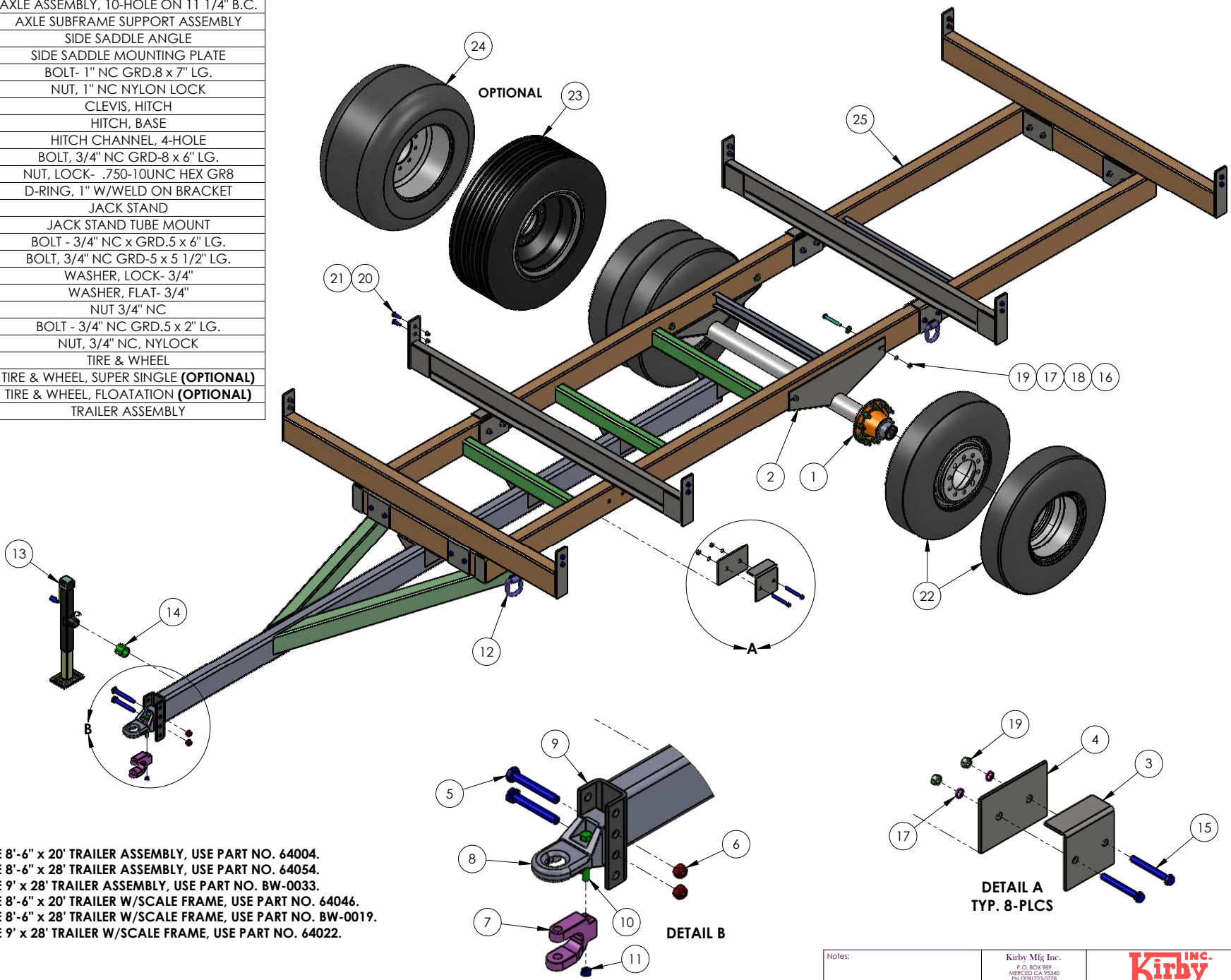
NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL: ±
 ANGULAR: MACH ±
 BEND ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #:			
		MATERIAL:		SEE BOM	
		DATE		PART NUMBER	
		NAME		REV.	
		ACCLURE		SCALE: 3/4"	
		FINISH:		WEIGHT: lbs	
		VENDOR:		SHEET 1 OF 1	
		VENDOR P/N:			
DRAWN BY: 9-10-18		DATE		SIZE C	
DESIGNED BY: 9-10-18		NAME		PART NUMBER BW-010	
APPROVED BY:		ACCLURE		SCALE: 3/4"	
		FINISH:		WEIGHT: lbs	
		VENDOR:		SHEET 1 OF 1	
		VENDOR P/N:			

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	6219	AXLE ASSEMBLY, 10-HOLE ON 11 1/4" B.C.
2	2	62025	AXLE SUBFRAME SUPPORT ASSEMBLY
3	8	61128	SIDE SADDLE ANGLE
4	8	61129	SIDE SADDLE MOUNTING PLATE
5	2	10860	BOLT- 1" NC GRD.8 x 7" LG.
6	2	10802	NUT, 1" NC NYLON LOCK
7	1	5590B	CLEVIS, HITCH
8	1	5590A	HITCH, BASE
9	1	5590C	HITCH CHANNEL, 4-HOLE
10	1	5590D	BOLT, 3/4" NC GRD-8 x 6" LG.
11	1	5590E	NUT, LOCK- .750-10UNC HEX GR8
12	4	5669	D-RING, 1" W/WELD ON BRACKET
13	1	5570	JACK STAND
14	1	5555	JACK STAND TUBE MOUNT
15	16	10705	BOLT - 3/4" NC x GRD.5 x 6" LG.
16	4	10698	BOLT, 3/4" NC GRD-5 x 5 1/2" LG.
17	20	10658	WASHER, LOCK- 3/4"
18	4	10659	WASHER, FLAT- 3/4"
19	20	10650	NUT 3/4" NC
20	16	10666	BOLT - 3/4" NC GRD.5 x 2" LG.
21	16	10647	NUT, 3/4" NC, NYLOCK
22	4	6464	TIRE & WHEEL
23	2	6427	TIRE & WHEEL, SUPER SINGLE (OPTIONAL)
24	2	6439	TIRE & WHEEL, FLOATATION (OPTIONAL)
25	1	SEE NOTES	TRAILER ASSEMBLY



NOTES:

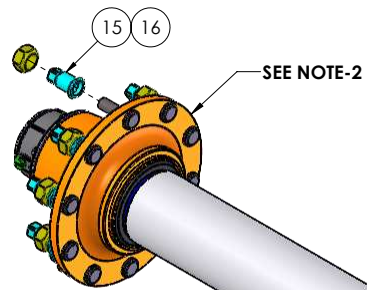
- 1 - TO ORDER A COMPLETE 8'-6" x 20' TRAILER ASSEMBLY, USE PART NO. 64004.
- 2 - TO ORDER A COMPLETE 8'-6" x 28' TRAILER ASSEMBLY, USE PART NO. 64054.
- 3 - TO ORDER A COMPLETE 9' x 28' TRAILER ASSEMBLY, USE PART NO. BW-0033.
- 4 - TO ORDER A COMPLETE 8'-6" x 20' TRAILER W/SCALE FRAME, USE PART NO. 64046.
- 5 - TO ORDER A COMPLETE 8'-6" x 28' TRAILER W/SCALE FRAME, USE PART NO. BW-0019.
- 6 - TO ORDER A COMPLETE 9' x 28' TRAILER W/SCALE FRAME, USE PART NO. 64022.

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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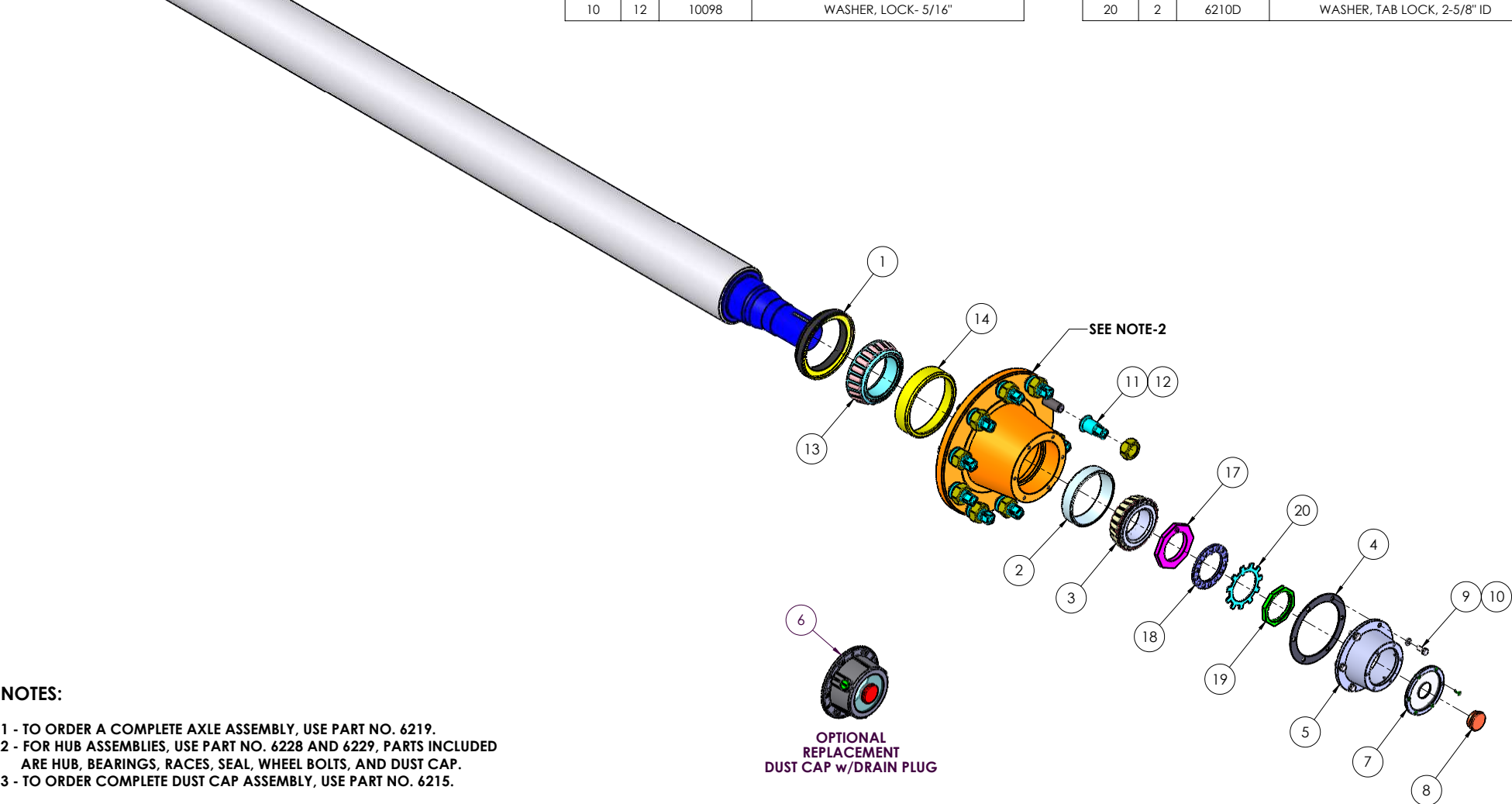
DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ±
 ANGULAR: MACH ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)725-9278 FX (209)723-3941		
		JOB #: MATERIAL: SEE BOM		
		DESCRIPTION		TRAILER ASSEMBLY
		SIZE		PART NUMBER
		C		BW-011
		SCALE: 1:16		WEIGHT: 5080.621 lbs
				SHEET 1 OF 1



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	2	6216	SEAL, 10-BOLT HUB
2	2	6212	RACE, BEARING, 10-HOLE HUB, OUTER
3	2	6211	BEARING, TAPPED, 2-3/4" ID, OUTER
4	2	6215a	GASKET- 10 HOLE HUB OIL CAP
5	2	SEE NOTE-3	DUST CAP, HUB
6	2	6215D	DUST CAP w/ DRAIN PLUG, (OPTIONAL)
7	2	6215B	CAP, OIL WINDOW
8	2	6215C	PLUG, OIL CAP WINDOW
9	12	10102	BOLT- 5/16" NC GRD.5 x 3/4" LG.
10	12	10098	WASHER, LOCK- 5/16"

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
11	10	6069	SPACER NUT, LH DUAL WHEEL - INNER
12	10	6067	NUT, LH DUAL WHEEL - OUTER
13	2	6213	BEARING, TAPPED, 3-1/2" ID - INNER
14	2	6214	RACE, BEARING, INNER, 10 HOLE HUB
15	10	6070	SPACER NUT, RH DUAL WHEEL - INNER
16	10	6068	NUT, RH DUAL WHEEL - OUTER
17	2	6210a	SPINDLE NUT- INNER
18	2	6210b	SPINDLE WASHER
19	2	6210c	SPINDLE NUT- OUTER
20	2	6210D	WASHER, TAB LOCK, 2-5/8" ID



NOTES:

- 1 - TO ORDER A COMPLETE AXLE ASSEMBLY, USE PART NO. 6219.
- 2 - FOR HUB ASSEMBLIES, USE PART NO. 6228 AND 6229, PARTS INCLUDED ARE HUB, BEARINGS, RACES, SEAL, WHEEL BOLTS, AND DUST CAP.
- 3 - TO ORDER COMPLETE DUST CAP ASSEMBLY, USE PART NO. 6215.

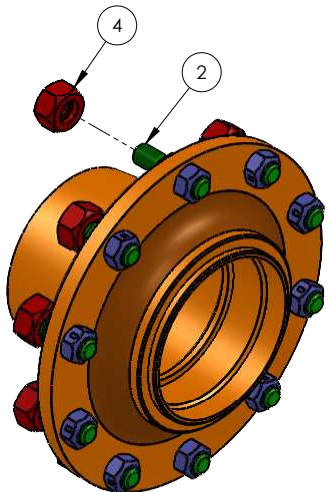
NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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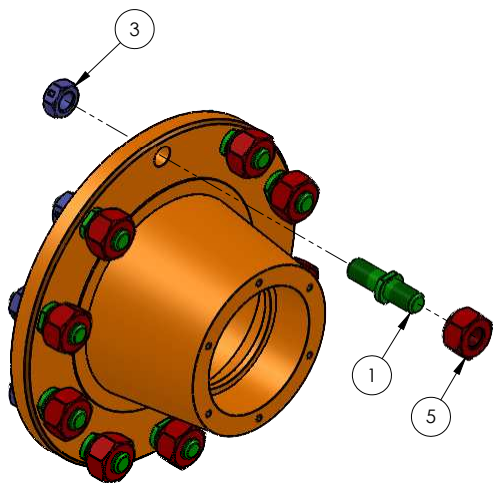
DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ±
 ANGULAR: MACH ± BEND ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #: MATERIAL: SEE BOM			
		DATE		DESCRIPTION	
DRAWN BY: 8-3-18		NAME: MCCLEURE		AXLE ASSEMBLY, 10-HOLE ON 1 1/4" B.C.	
DESIGNED BY: 8-3-18		FINISH:		SIZE: C	
APPROVED BY:		VENDOR:		PART NUMBER: BW-012	
		VENDOR P/N:		SCALE: 1:4	
				WEIGHT: 356.801 lbs	
				SHEET 1 OF 1	

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	10	6217A	CLIPPED COLLAR WHEEL STUD- LH
2	10	6218A	CLIPPED COLLAR WHEEL STUD- RH
3	20	10649	NUT, LOCK- 3/4" NF
4	10	6057	LUG NUT- RH
5	10	6056	LUG NUT- LH



CLIPPED COLLAR STUD



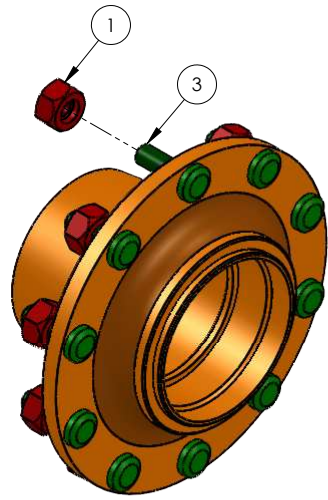
RH HUB

LH HUB

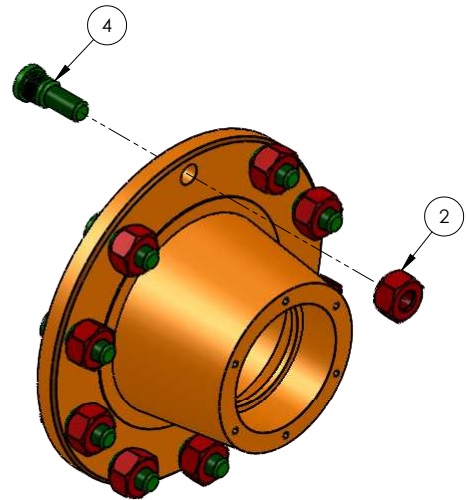
NOTES:
1 - TO ORDER A HUB STUD, SELECT TYPE NEEDED.

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	10	6057	LUG NUT- RH
2	10	6056	LUG NUT- LH
3	10	6218	STUD BOLT, RH, 3/4" NF
4	10	6217	STUD BOLT, LH, 3/4" NF



STUD BOLT



RH HUB

LH HUB

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DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

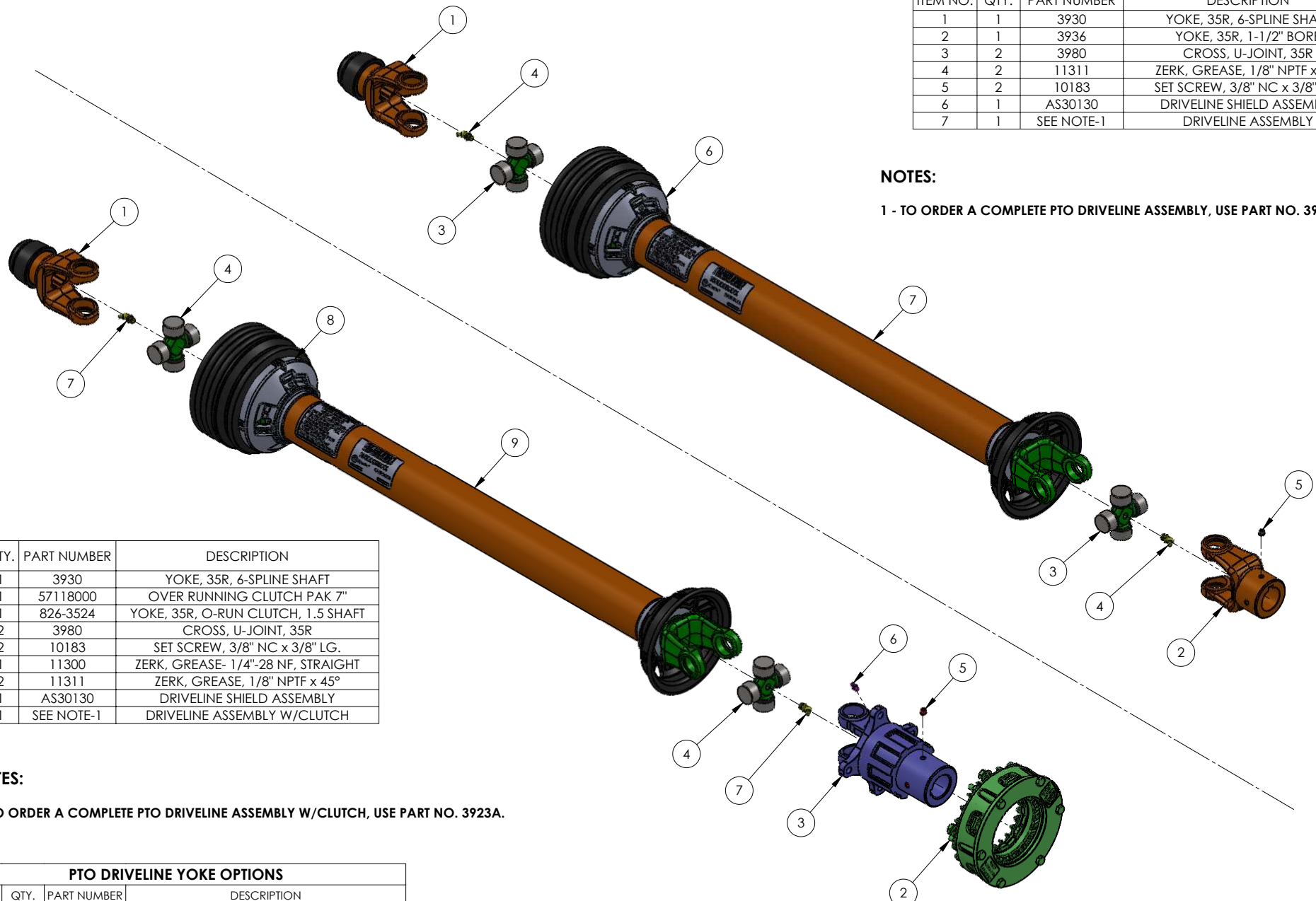
Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-9278 FX (209)723-3941	
		JOB #: MATERIAL: SEE BOM	
DATE	NAME	MATERIAL P/N	FINISH
DESIGNED BY: 9-14-20	ACCLURE	VENDOR	
APPROVED BY:		VENDOR P/N	

Kirby INC.		DESCRIPTION AXLE HUB STUD, SINGLE WHEEL	
SIZE C	PART NUMBER BW-013	REV. -	
SCALE: 5:14	WEIGHT: 108 lbs	SHEET 1 OF 1	

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	3930	YOKE, 35R, 6-SPLINE SHAFT
2	1	3936	YOKE, 35R, 1-1/2" BORE
3	2	3980	CROSS, U-JOINT, 35R
4	2	11311	ZERK, GREASE, 1/8" NPTF x 45°
5	2	10183	SET SCREW, 3/8" NC x 3/8" LG.
6	1	AS30130	DRIVELINE SHIELD ASSEMBLY
7	1	SEE NOTE-1	DRIVELINE ASSEMBLY

NOTES:

1 - TO ORDER A COMPLETE PTO DRIVELINE ASSEMBLY, USE PART NO. 3923.



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	3930	YOKE, 35R, 6-SPLINE SHAFT
2	1	57118000	OVER RUNNING CLUTCH PAK 7"
3	1	826-3524	YOKE, 35R, O-RUN CLUTCH, 1.5 SHAFT
4	2	3980	CROSS, U-JOINT, 35R
5	2	10183	SET SCREW, 3/8" NC x 3/8" LG.
6	1	11300	ZERK, GREASE- 1/4"-28 NF, STRAIGHT
7	2	11311	ZERK, GREASE, 1/8" NPTF x 45°
8	1	AS30130	DRIVELINE SHIELD ASSEMBLY
9	1	SEE NOTE-1	DRIVELINE ASSEMBLY W/CLUTCH

NOTES:

1 - TO ORDER A COMPLETE PTO DRIVELINE ASSEMBLY W/CLUTCH, USE PART NO. 3923A.

PTO DRIVELINE YOKE OPTIONS

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
2	1	3940	YOKE, 1000 PTO, 1-3/8" x 21 SPLINE
2	1	3941	YOKE, 1000 PTO, 1-3/4" x 20 SPLINE

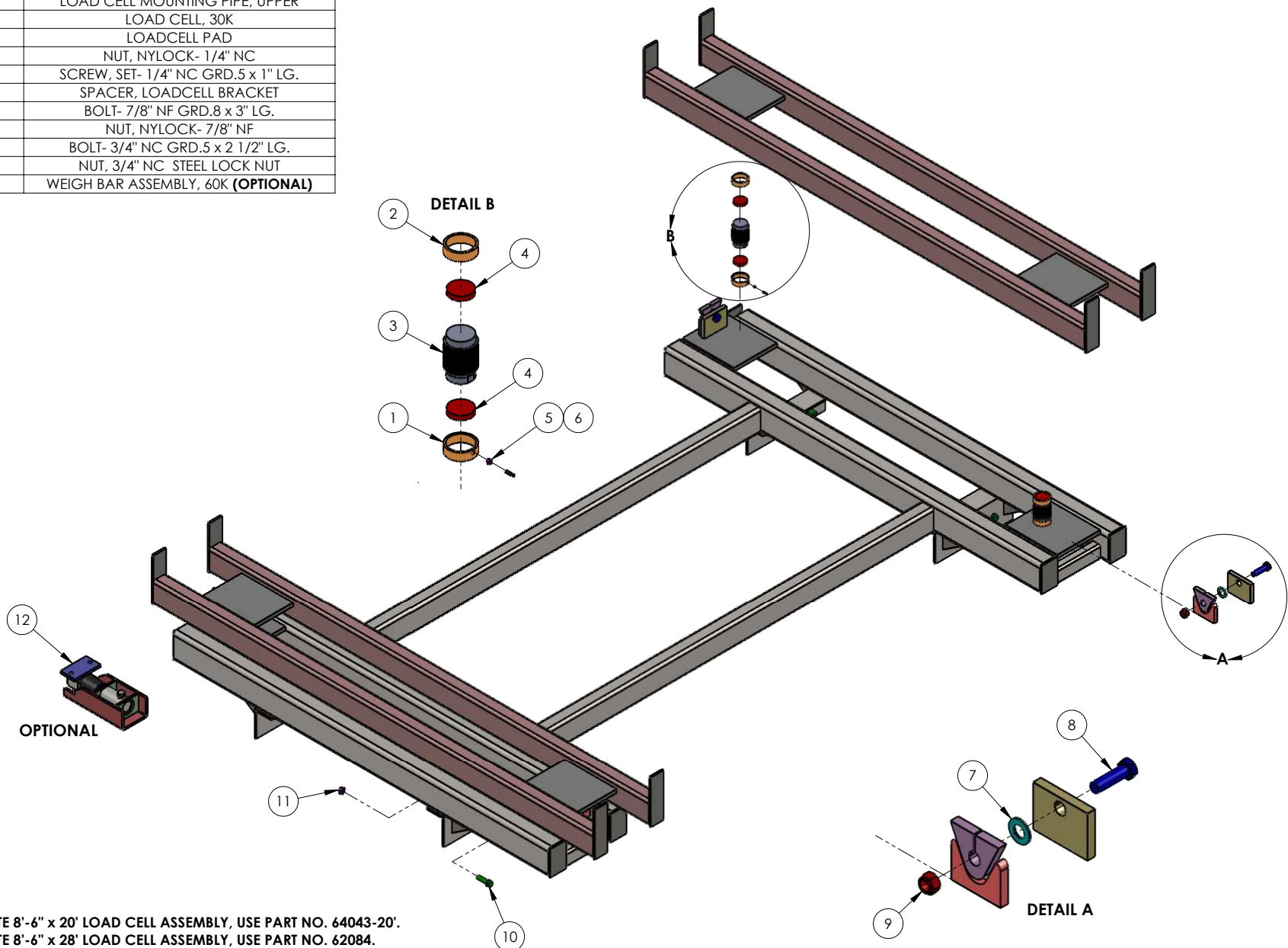
NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

PROPRIETARY AND CONFIDENTIAL
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 TOLERANCES:
 FRACTIONAL ±
 ANGULAR: MACH ± BEND ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-9778 FX (209)723-3941			
		JOB #: MATERIAL: 3923			
DRAWN BY:	10-B-18	DATE:	10-B-18	ACCLURE:	FINISH:
DESIGNED BY:	10-B-18			VENDOR:	
APPROVED BY:				VENDOR P/N:	
SIZE:	C	PART NUMBER:	BW-014	REV:	
SCALE:	1:4	WEIGHT:	lbs	SHEET:	1 OF 1

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	4	21313-2	LOAD CELL MOUNTING PIPE, LOWER
2	4	21313	LOAD CELL MOUNTING PIPE, UPPER
3	4	5297	LOAD CELL, 30K
4	8	5332	LOADCELL PAD
5	4	10002	NUT, NYLOCK- 1/4" NC
6	4	10015	SCREW, SET- 1/4" NC GRD.5 x 1" LG.
7	4	21257	SPACER, LOADCELL BRACKET
8	4	10762	BOLT- 7/8" NF GRD.8 x 3" LG.
9	4	10742	NUT, NYLOCK- 7/8" NF
10	8	10671	BOLT- 3/4" NC GRD.5 x 2 1/2" LG.
11	8	10648	NUT, 3/4" NC STEEL LOCK NUT
12	1	60K KIT	WEIGH BAR ASSEMBLY, 60K (OPTIONAL)



NOTES:

- 1 - TO ORDER A COMPLETE 8'-6" x 20' LOAD CELL ASSEMBLY, USE PART NO. 64043-20'.
- 2 - TO ORDER A COMPLETE 8'-6" x 28' LOAD CELL ASSEMBLY, USE PART NO. 62084.
- 3 - TO ORDER A COMPLETE 9' x 28' LOAD CELL ASSEMBLY, USE PART NO. 62085.
- 4 - TO ORDER A COMPLETE 8'-6" x 20' WEIGH BAR ASSEMBLY, USE PART NO. 64047-20'.
- 5 - TO ORDER A COMPLETE 8'-6" x 28' WEIGH BAR ASSEMBLY, USE PART NO. BW-0002.

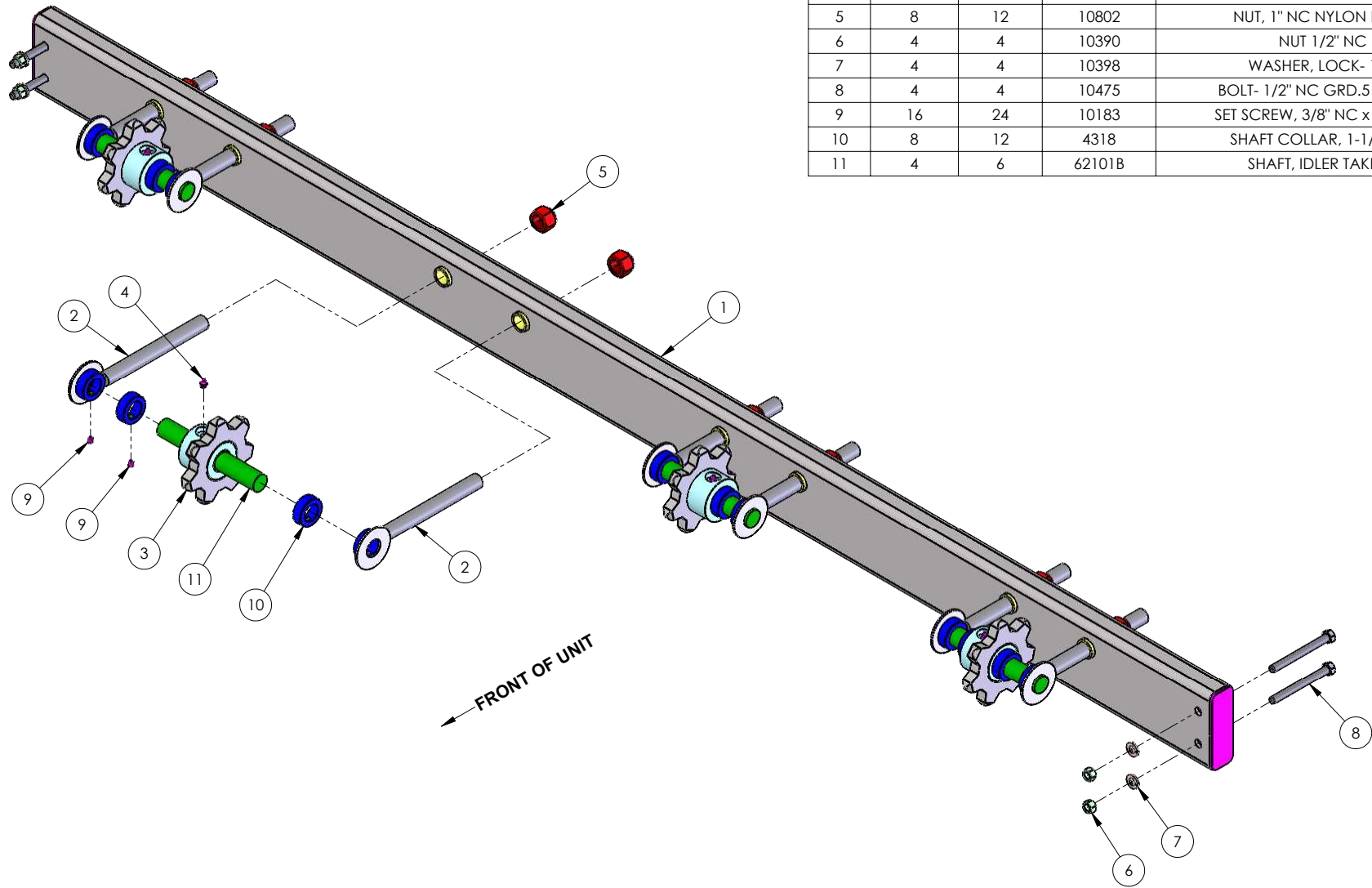
NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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 FRACTIONAL ±
 ANGULAR: MACH ± BEND ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0779 FX (209)723-3941			
		JOB #: MATERIAL: SEE BOM			
		DATE		DESCRIPTION	
		NAME		SUBFRAME, TRUCK MOUNT	
DRAWN BY: 9-10-18		ACCLURE		SIZE	
DESIGNED BY: 9-10-18		FINISH:		PART NUMBER	
APPROVED BY:		VENDOR:		BW-015	
		VENDOR P/N:		SCALE: 1:1/2	
				WEIGHT: lbs	
				SHEET 1 OF 1	

ITEM NO.	4-CHAIN QTY.	6-CHAIN QTY.	PART NUMBER	DESCRIPTION
1	1	1	SEE NOTES 1-3	WELDMENT, IDLER TUBE
2	8	12	161011	IDLER TAKE-UP 1 1/4" ALLTHREAD
3	4	6	27033	SPROCKET, 1-1/4" IDLER, D667X
4	4	6	11310	GREASE ZERK, 1/8" M NPTF
5	8	12	10802	NUT, 1" NC NYLON LOCK
6	4	4	10390	NUT 1/2" NC
7	4	4	10398	WASHER, LOCK- 1/2"
8	4	4	10475	BOLT- 1/2" NC GRD.5 x 5" LG.
9	16	24	10183	SET SCREW, 3/8" NC x 3/8" LG.
10	8	12	4318	SHAFT COLLAR, 1-1/4" I.D.
11	4	6	62101B	SHAFT, IDLER TAKE-UP



NOTES:

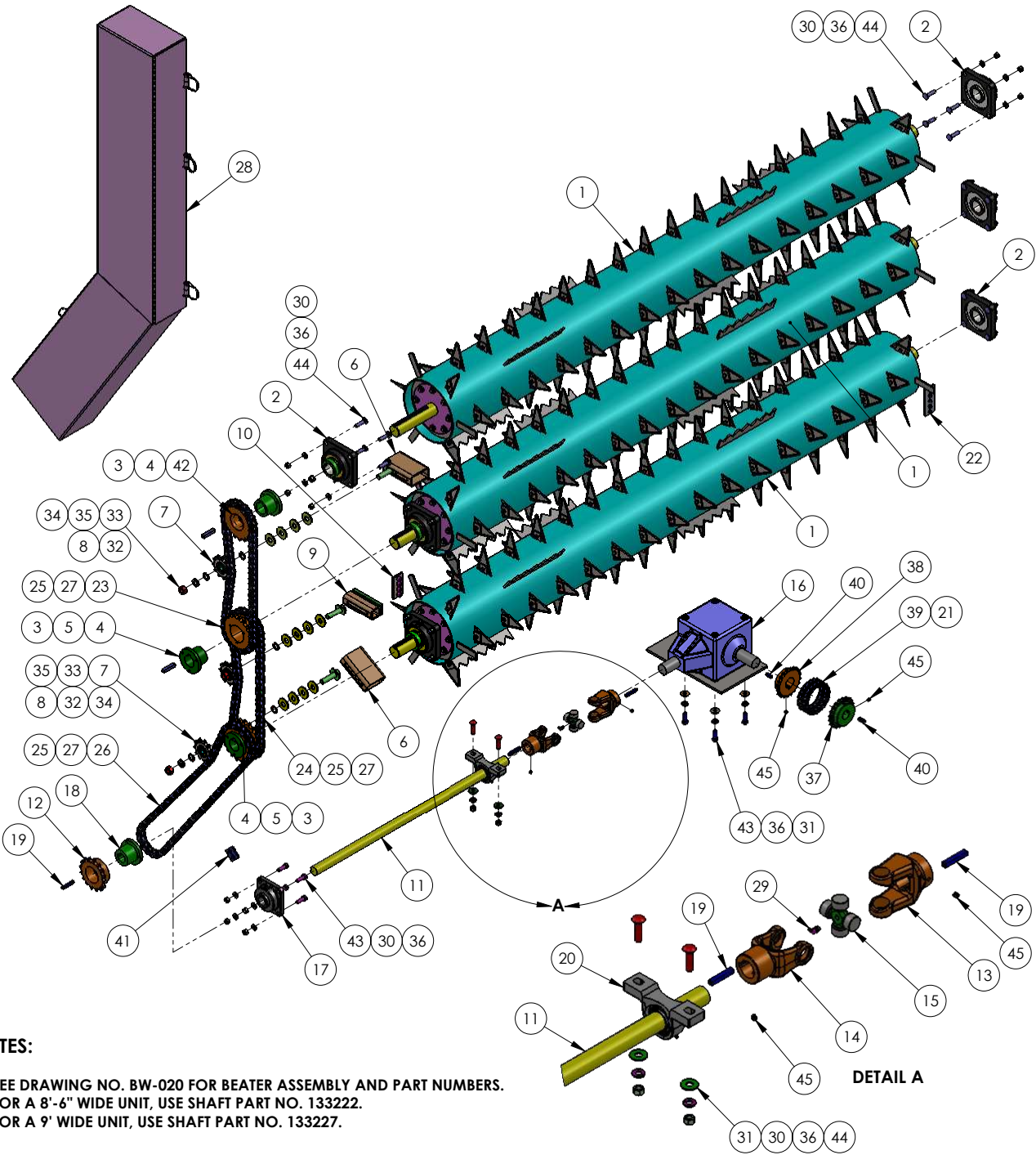
- 1 - TO ORDER TUBE WELDMENT, 8'-6", 4-CHAIN, USE PART NO. 62101F.
- 2 - TO ORDER TUBE WELDMENT, 8'-6", 6-CHAIN, USE PART NO. 62102A.
- 3 - TO ORDER TUBE WELDMENT, 9', 6-CHAIN, USE PART NO. 62014A.

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

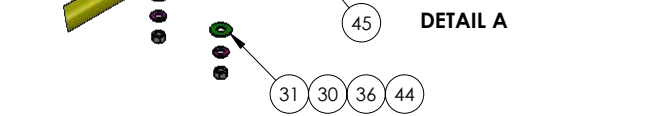
Notes:		Kirby Mig Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #: MATERIAL: SEE BOM			
DATE	NAME	MATERIAL/FIN.	DESCRIPTION IDLER TAKE-UP ASSEMBLY		
DRAWN BY: 9-11-18	MCCLURE	FINISH:	SIZE C	PART NUMBER BW-016	REV. -
DESIGNED BY: 9-11-18		VENDOR:	SCALE: 1:5	WEIGHT: 170.873 lbs	SHEET 1 OF 1
APPROVED BY:		VENDOR P/N:			



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	3	SEE NOTE-1	BEATER ASSEMBLY
2	6	2154	BEARING, 4-HOLE FLANGE, 2" BORE
3	3	3695A	KEY- 1/2" SQ. x 2 1/2" LG.
4	3	16099	BUSHING, TAPER LOCK- Q1 x 2" I.D.
5	2	17330	SPROCKET, Q1 TAPER LOCK- DS 80 Q 19
6	2	61086	IDLER MOUNT, (80 CHAIN)
7	3	3301	SPROCKET, 80-11 IDLER
8	3	61088	CHAIN IDLER BOLT
9	1	61085	IDLER BLOCK, (80 CHAIN)
10	1	21231	MOUNT, GREASE FITTING
11	1	SEE NOTE-2&3	SHAFT,CROSS OVER
12	1	17160	SPROCKET, Q1 TAPER LOCK- 80 Q 16
13	1	3938	U-JOINT YOKE, 35R 1 3/4" BORE
14	1	3936	YOKE, 35R, 1-1/2" BORE
15	1	3980	CROSS, U-JOINT, 35R
16	1	7209	GEARBOX, RIGHT ANGLE
17	1	2077	BEARING, 4-HOLE FLANGE, 1-1/2" BORE
18	1	16091	BUSHING, TAPER LOCK- Q1 x 1 1/2" I.D.
19	3	3693	KEY, SQ. 3/8" x 2 1/2" LG.
20	1	2047	BEARING, PILLOW BLOCK 1-1/2" BORE
21	1	6710	CHAIN, 60-2 CON/LINK
22	1	61136	MOUNT, GREASE FITTING
23	1	6716	CHAIN, 80H BEATER DRIVE (5.11 FT)
24	1	6716	CHAIN, 80H BEATER DRIVE (5.02 FT)
25	3	6717	CHAIN, 80H CON/LINK
26	1	6716	CHAIN, 80H BEATER DRIVE (6.99 FT)
27	3	6718	CHAIN, 80H OFFSET LINK
28	1	63015	GUARD, BEATER DRIVE
29	1	11311	ZERK, GREASE, 1/8" NPTF x 45°
30	30	10390	NUT 1/2" NC
31	6	10399	WASHER- 1/2" FLAT
32	12	10659	WASHER, FLAT- 3/4"
33	3	10650	NUT 3/4" NC
34	6	10657	WASHER, 3/4" FLAT MACHINE
35	3	10658	WASHER, LOCK- 3/4"
36	34	10398	WASHER, LOCK- 1/2"
37	1	3114	SPROCKET, 60B20, 1-1/2" BORE
38	1	3116	SPROCKET, 60-B-20 x 1.75" ID
39	1	6709	CHAIN, #60-2 DRIVE (1.26 FT LG.)
40	2	3694	KEY, SQ. 3/8" x 1 1/4" LG.
41	1	61134	MOUNT, GREASE FITTING
42	1	17166	SPROCKET, Q1 TAPER LOCK- 80 Q 19
43	8	10411	BOLT - 1/2" NC GRD.5 x 1 1/2" LG.
44	26	10424	BOLT, CARRIAGE- 1/2" NC GRD.5 x 2" LG.
45	8	10183	SET SCREW, 3/8" NC x 3/8" LG.

NOTES:
 1 - SEE DRAWING NO. BW-020 FOR BEATER ASSEMBLY AND PART NUMBERS.
 2 - FOR A 8'-6" WIDE UNIT, USE SHAFT PART NO. 133222.
 3 - FOR A 9' WIDE UNIT, USE SHAFT PART NO. 133227.

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

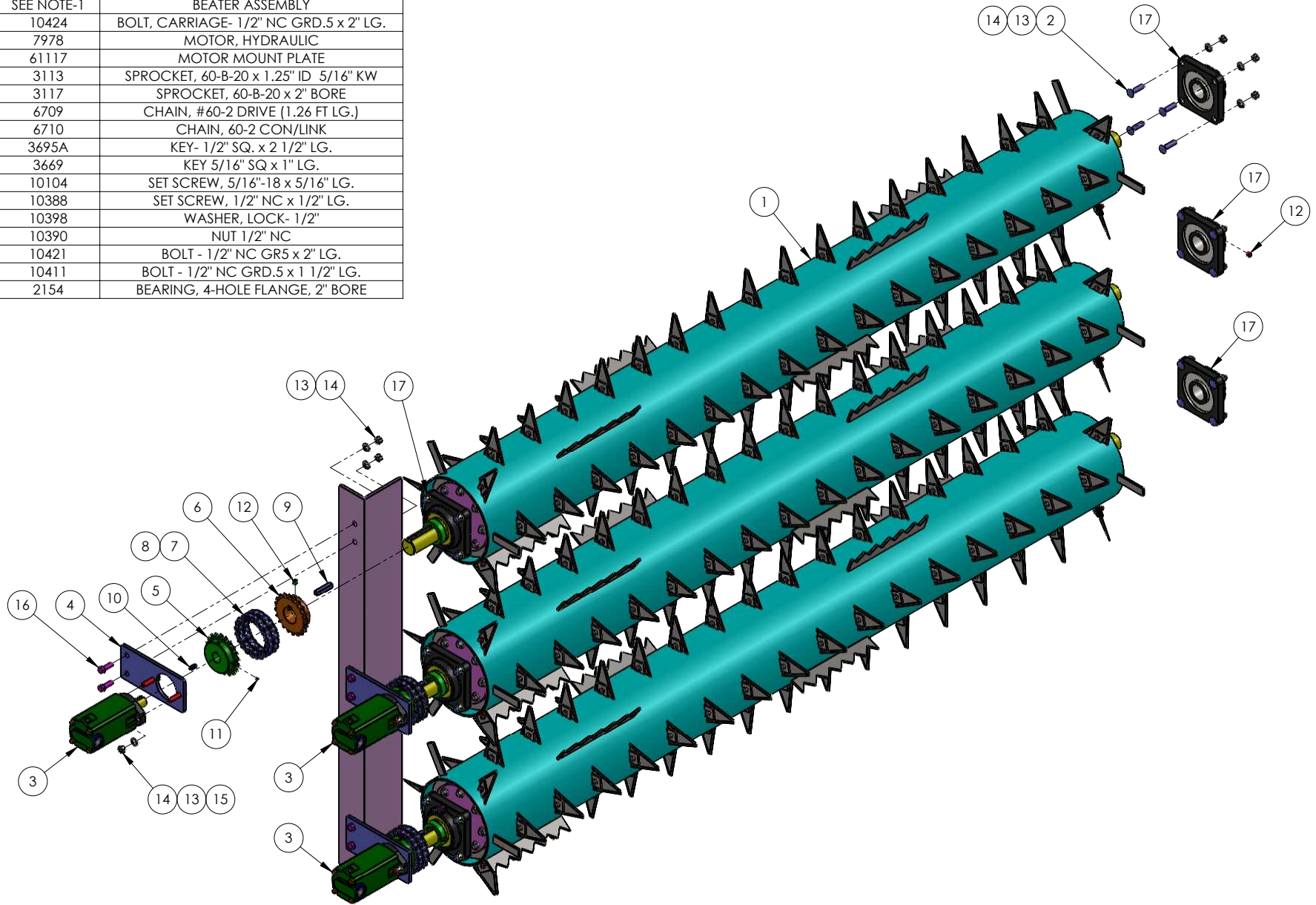


Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #: MATERIAL: SEE BOM			DESCRIPTION BEATER DRIVE ASSEMBLY, MECHANICAL
DRAWN BY:	DATE	NAME	FINISH:	SIZE	
DESIGNED BY:	DATE	ACCLURE	VENDOR:	PART NUMBER	
APPROVED BY:			VENDOR P/N:	REV.	
				SCALE: 1:12	WEIGHT: 1521 lbs
				SHEET 1 OF 1	

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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL: ±
 ANGULAR: MACH ± BEND ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	3	SEE NOTE-1	BEATER ASSEMBLY
2	24	10424	BOLT, CARRIAGE- 1/2" NC GRD.5 x 2" LG.
3	3	7978	MOTOR, HYDRAULIC
4	3	61117	MOTOR MOUNT PLATE
5	3	3113	SPROCKET, 60-B-20 x 1.25" ID 5/16" KW
6	3	3117	SPROCKET, 60-B-20 x 2" BORE
7	3	6709	CHAIN, #60-2 DRIVE (1.26 FT LG.)
8	3	6710	CHAIN, 60-2 CON/LINK
9	3	3695A	KEY- 1/2" SQ. x 2 1/2" LG.
10	3	3669	KEY 5/16" SQ x 1" LG.
11	6	10104	SET SCREW, 5/16"-18 x 5/16" LG.
12	12	10388	SET SCREW, 1/2" NC x 1/2" LG.
13	36	10398	WASHER, LOCK- 1/2"
14	36	10390	NUT 1/2" NC
15	6	10421	BOLT - 1/2" NC GR5 x 2" LG.
16	6	10411	BOLT - 1/2" NC GRD.5 x 1 1/2" LG.
17	6	2154	BEARING, 4-HOLE FLANGE, 2" BORE




NOTES:

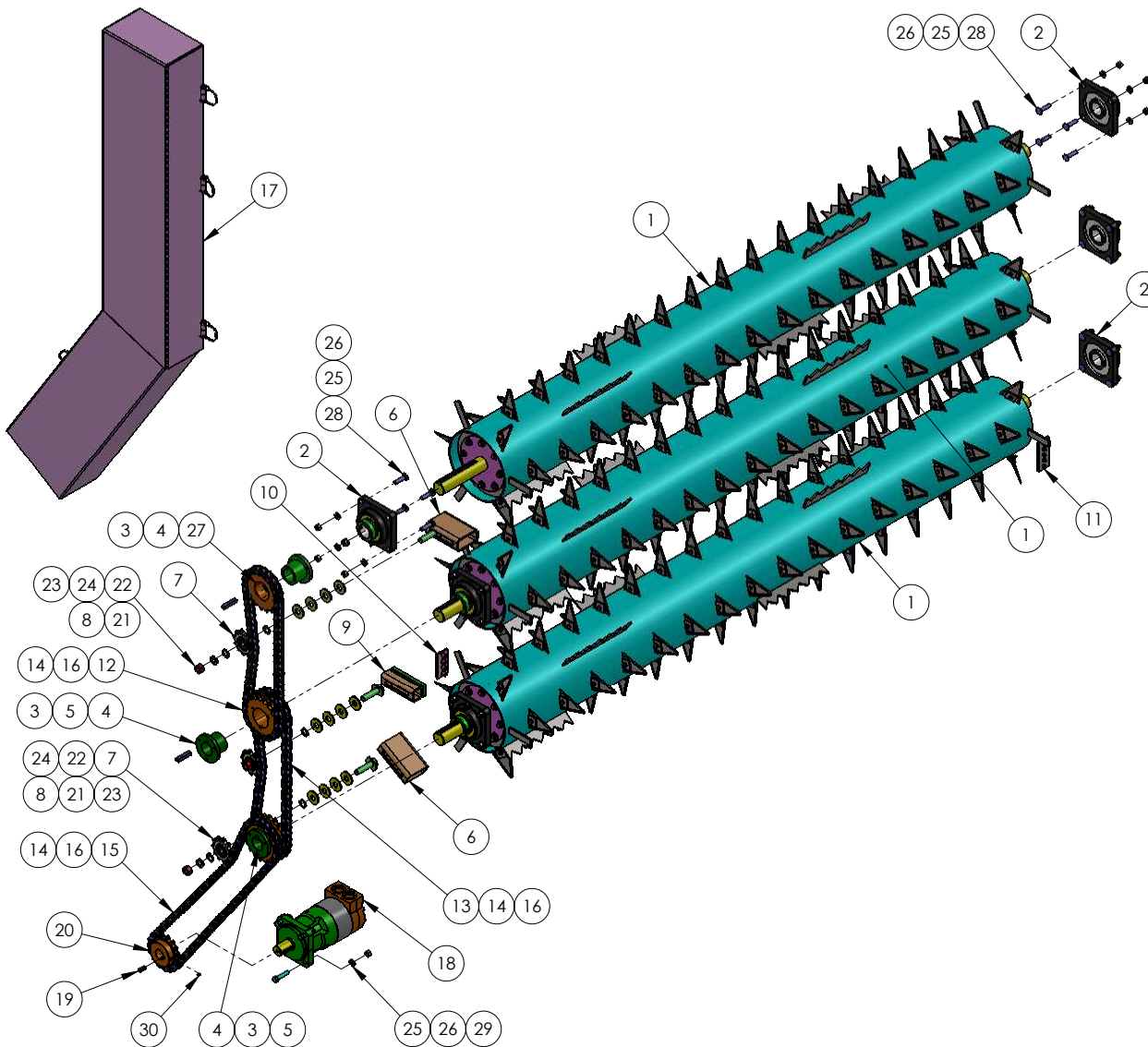
1 - SEE DRAWING NO. BW-020 FOR BEATER ASSEMBLY AND PART NUMBERS.

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL: ±
 ANGULAR: MACH ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941		 DESCRIPTION BEATER DRIVE ASSEMBLY, ALL HYDRAULIC	
		JOB #: MATERIAL: SEE BOM			
DRAWN BY:	DATE:	NAME:	FINISH:	SIZE:	REV.:
DESIGNED BY:	10-10-18	MCCLURE	VENDOR:	C	•
APPROVED BY:			VENDOR P/N:	SCALE: 1:8	SHEET 1 OF 1
			PART NUMBER: BW-018		WEIGHT: 1301 lbs



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	3	SEE NOTE-1	BEATER ASSEMBLY
2	6	2154	BEARING, 4-HOLE FLANGE, 2" BORE
3	3	3695A	KEY- 1/2" SQ. x 2 1/2" LG.
4	3	16099	BUSHING, TAPER LOCK- Q1 x 2" I.D.
5	2	17330	SPROCKET, Q1 TAPER LOCK- DS 80 Q 19
6	2	61086	IDLER BLOCK, (80 CHAIN)
7	3	3301	SPROCKET, 80-11 IDLER
8	3	61088	CHAIN IDLER SPROCKET BOLT
9	1	61085	IDLER BLOCK, (80 CHAIN)
10	1	21231	MOUNT, GREASE FITTING
11	1	61136	MOUNT, GREASE FITTING
12	1	6716	CHAIN, 80H BEATER DRIVE (5 1/2 FT)
13	1	6716	CHAIN, 80H BEATER DRIVE (5 1/4 FT)
14	3	6717	CHAIN, 80H CON/LINK
15	1	6716	CHAIN, 80H BEATER DRIVE (7 FT)
16	3	6718	CHAIN, 80H OFFSET LINK
17	1	63015	GUARD, BEATER DRIVE
18	1	7975	MOTOR, HYDRAULIC
19	1	3694	KEY, SQ. 3/8" x 1 1/4" LG.
20	1	3334	SPROCKET, 80-B-15, 1-1/2" BORE
21	12	10659	WASHER, FLAT- 3/4"
22	3	10650	NUT 3/4" NC
23	6	10657	WASHER, 3/4" FLAT MACHINE
24	3	10658	WASHER, LOCK- 3/4"
25	28	10398	WASHER, LOCK- 1/2"
26	28	10390	NUT 1/2" NC
27	1	17166	SPROCKET, Q1 TAPER LOCK- 80 Q 19
28	24	10424	BOLT, CARRIAGE- 1/2" NC GRD.5 x 2" LG.
29	4	10426	BOLT- 1/2" NC GR5 x 2 1/4" LG.
30	2	10183	SET SCREW, 3/8" NC x 3/8" LG.

NOTES:

1 - SEE DRAWING NO. BW-020 FOR BEATER ASSEMBLY AND PART NUMBERS.

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

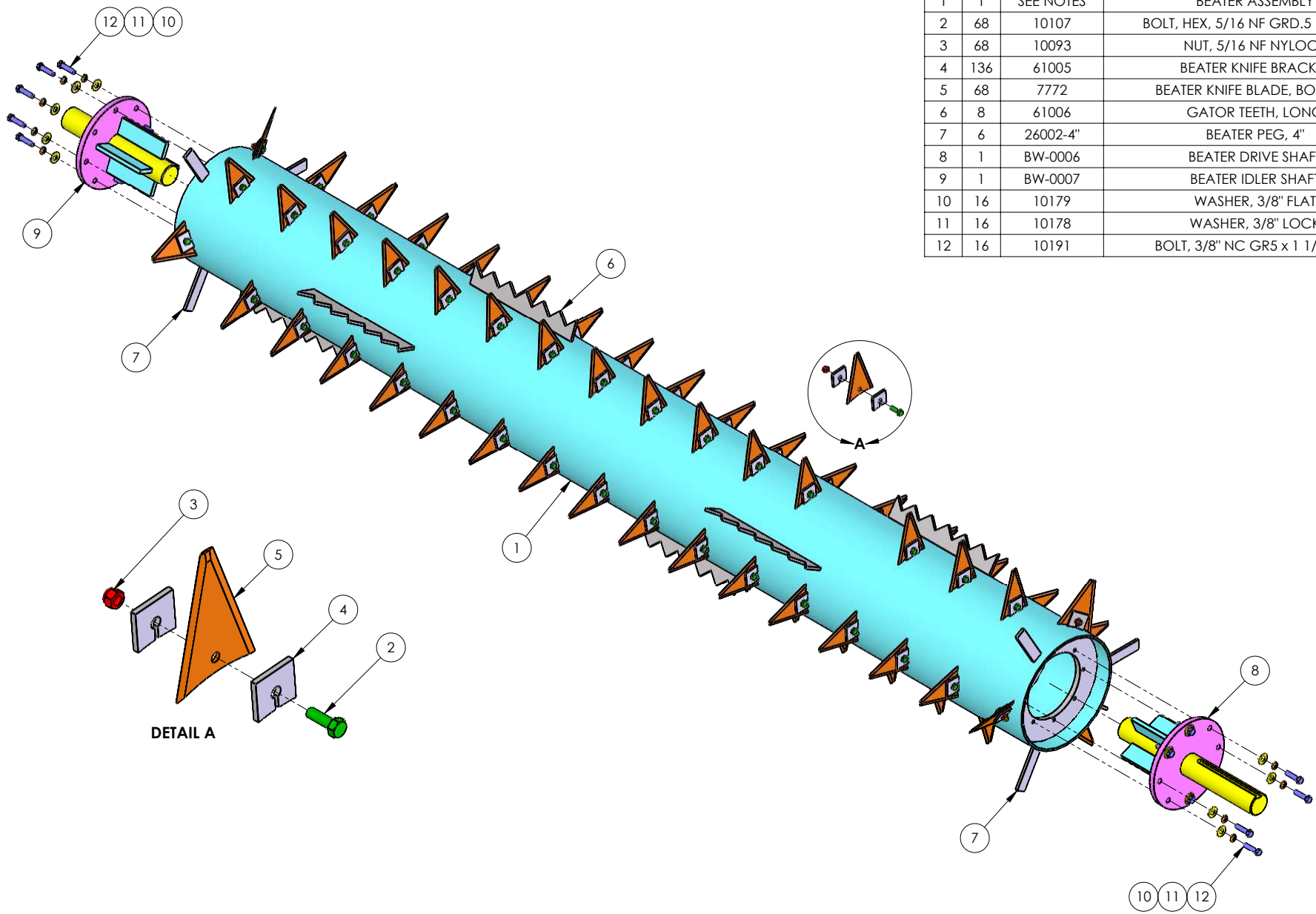
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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ±
 ANGULAR: MACH ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #:			
		MATERIAL:		BEATER DRIVE ASSEMBLY, SEMI-HYDRAULIC	
		MATERIAL P/N:		SEE BOM	
DRAWN BY: 9-26-18		DATE: 9-26-18		NAME: ACCIURE	
DESIGNED BY: 9-26-18		DATE: 9-26-18		FINISH: VENDOR	
APPROVED BY:		DATE:		VENDOR P/N:	
				SCALE: 1:12 WEIGHT: 1405 lbs SHEET 1 OF 1	

8 7 6 5 4 3 2 1

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	SEE NOTES	BEATER ASSEMBLY
2	68	10107	BOLT, HEX, 5/16 NF GRD.5 x 1" LG.
3	68	10093	NUT, 5/16 NF NYLOCK
4	136	61005	BEATER KNIFE BRACKET
5	68	7772	BEATER KNIFE BLADE, BOLT-ON
6	8	61006	GATOR TEETH, LONG
7	6	26002-4"	BEATER PEG, 4"
8	1	BW-0006	BEATER DRIVE SHAFT
9	1	BW-0007	BEATER IDLER SHAFT
10	16	10179	WASHER, 3/8" FLAT
11	16	10178	WASHER, 3/8" LOCK
12	16	10191	BOLT, 3/8" NC GR5 x 1 1/2" LG.



DETAIL A

NOTES:
 1 - TO ORDER A COMPLETE BEATER ASSEMBLY FOR A 8'-6" WIDE UNIT, USE PART NO. BW-9001.
 2 - TO ORDER A COMPLETE BEATER ASSEMBLY FOR A 9' WIDE UNIT, USE PART NO. BW-9002.

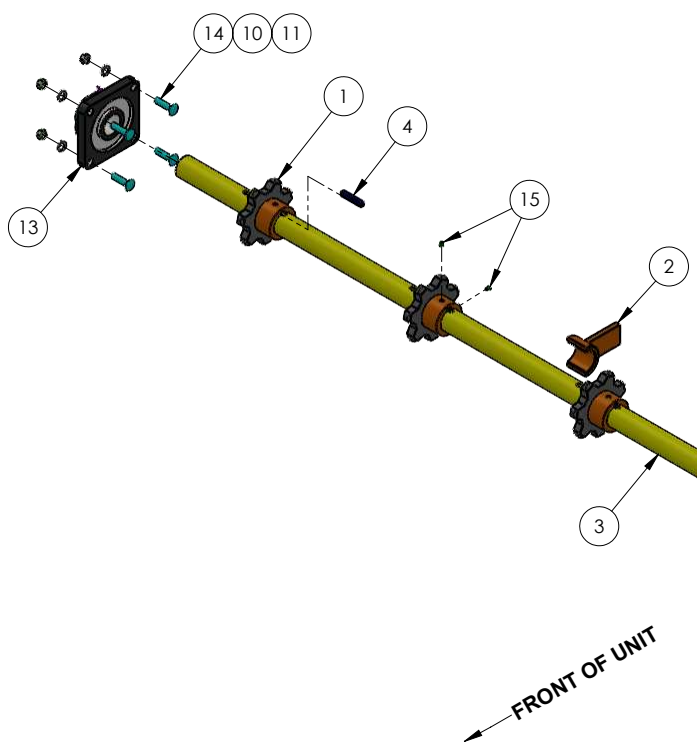
NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ±
 ANGULAR: MACH ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

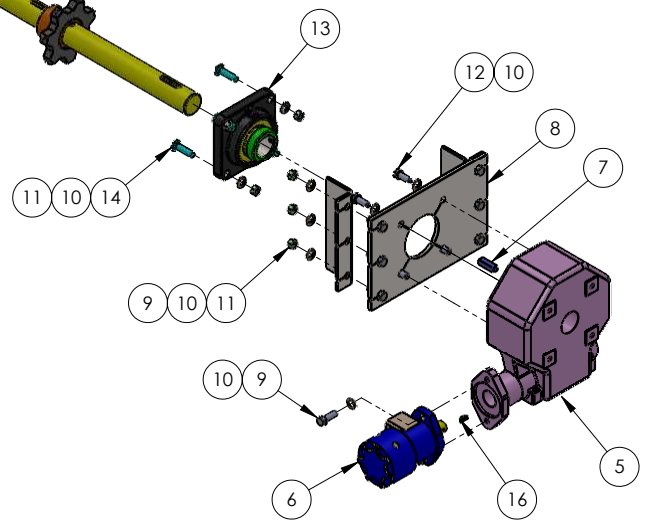
Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #: MATERIAL: SEE BOM			
DATE	NAME	MATERIAL	FINISH	SIZE	REV.
DRAWN BY: 9-26-18	ACCLURE		VENDOR	C	
DESIGNED BY: 9-26-18			VENDOR P/N	PART NUMBER	BW-020
APPROVED BY:				SCALE: 1:1	WEIGHT: 304.922 lbs
				SHEET 1 OF 1	

8 7 6 5 4 3 2 1



FRONT OF UNIT

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	6	27034	SPROCKET, FLOOR DRIVE, D667X
2	2	61055	BEARING, HALF BRONZE, 2" DIA.
3	1	SEE NOTES	SHAFT, FLOOR DRIVE
4	6	3693	KEY, SQ. 3/8" x 2 1/2" LG.
5	1	7236	GEARBOX, 50:1
6	1	7965	MOTOR, HYDRAULIC
7	1	7235F	KEY, SQ. 1/2" x 1.80 LG.
8	1	61059	BRACKET ASSEMBLY, GEARBOX MOUNT
9	8	10411	BOLT - 1/2" NC GRD.5 x 1 1/2" LG.
10	20	10398	WASHER, LOCK- 1/2"
11	14	10390	NUT 1/2" NC
12	4	10406	BOLT - 1/2" NC GRD.5 x 1 1/4" LG.
13	2	2154	BEARING, 4-HOLE FLANGE, 2" BORE
14	8	10424	BOLT, CARRIAGE- 1/2" NC GRD.5 x 2" LG.
15	12	10183	SET SCREW, 3/8" NC x 3/8" LG.
16	1	7879B	KEY, WOODRUFF- 1/4" x 1"



NOTES:
 1 - FOR A 8'-6" WIDE UNIT, 4-CHAIN, USE SHAFT PART NO. 133224.
 2 - FOR A 8'-6" WIDE UNIT, 6-CHAIN, USE SHAFT PART NO. 133093.
 3 - FOR A 9" WIDE UNIT, 6-CHAIN, USE SHAFT PART NO. 133226.

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

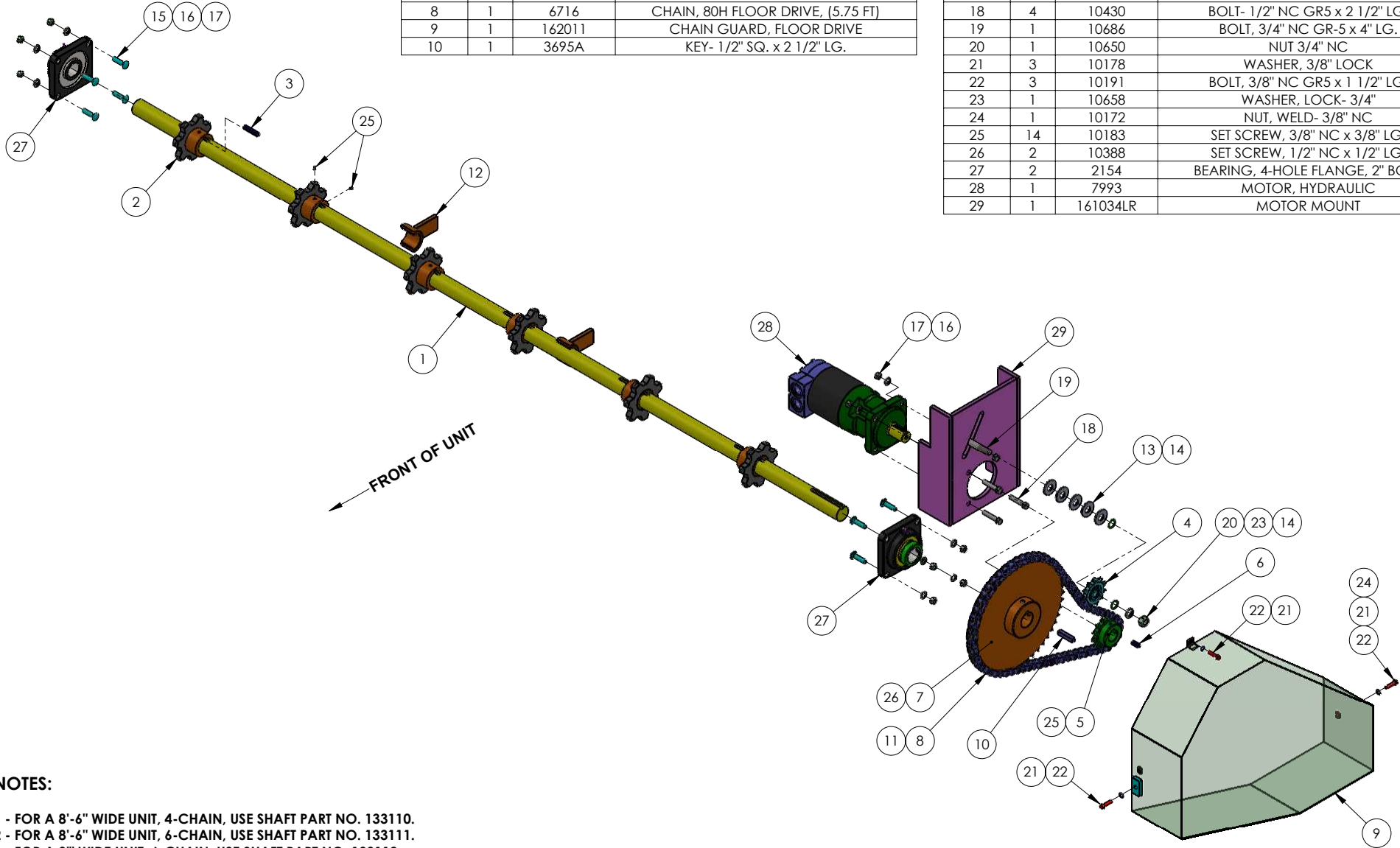
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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL: ±
 ANGULAR: MACH ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL: ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #: MATERIAL: SEE BOM			
DRAWN BY: 10-3-18		DATE: 10-3-18		DESCRIPTION FLOOR DRIVE ASSEMBLY w/50:1 GEARBOX	
DESIGNED BY: 10-3-18		APPROVED BY:		PART NUMBER BW-021	
				SCALE: 1:8	
				WEIGHT: 338.275 lbs	
				SHEET 1 OF 1	

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	SEE NOTES	SHAFT, FLOOR DRIVE
2	6	27034	SPROCKET, FLOOR DRIVE, D667X
3	6	3693	KEY, SQ. 3/8" x 2 1/2" LG.
4	1	3301	SPROCKET, 80-11 IDLER
5	1	3326	SPROCKET, 80-B-13, 1-1/2" BORE
6	1	3694	KEY, SQ. 3/8" x 1 1/4" LG.
7	1	3361	SPROCKET, 80BS48, 2" BORE
8	1	6716	CHAIN, 80H FLOOR DRIVE, (5.75 FT)
9	1	162011	CHAIN GUARD, FLOOR DRIVE
10	1	3695A	KEY- 1/2" SQ. x 2 1/2" LG.

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
11	1	6717	CHAIN, 80H CON/LINK
12	2	61055	BEARING, HALF BRONZE, 2" DIA.
13	6	10659	WASHER, FLAT- 3/4"
14	2	10657	WASHER, 3/4" FLAT MACHINE
15	8	10424	BOLT, CARRIAGE- 1/2" NC GRD.5 x 2" LG.
16	12	10398	WASHER, LOCK- 1/2"
17	12	10390	NUT 1/2" NC
18	4	10430	BOLT- 1/2" NC GR5 x 2 1/2" LG.
19	1	10686	BOLT, 3/4" NC GR-5 x 4" LG.
20	1	10650	NUT 3/4" NC
21	3	10178	WASHER, 3/8" LOCK
22	3	10191	BOLT, 3/8" NC GR5 x 1 1/2" LG.
23	1	10658	WASHER, LOCK- 3/4"
24	1	10172	NUT, WELD- 3/8" NC
25	14	10183	SET SCREW, 3/8" NC x 3/8" LG.
26	2	10388	SET SCREW, 1/2" NC x 1/2" LG.
27	2	2154	BEARING, 4-HOLE FLANGE, 2" BORE
28	1	7993	MOTOR, HYDRAULIC
29	1	161034LR	MOTOR MOUNT



NOTES:

- 1 - FOR A 8'-6" WIDE UNIT, 4-CHAIN, USE SHAFT PART NO. 133110.
- 2 - FOR A 8'-6" WIDE UNIT, 6-CHAIN, USE SHAFT PART NO. 133111.
- 3 - FOR A 9" WIDE UNIT, 6-CHAIN, USE SHAFT PART NO. 133112.

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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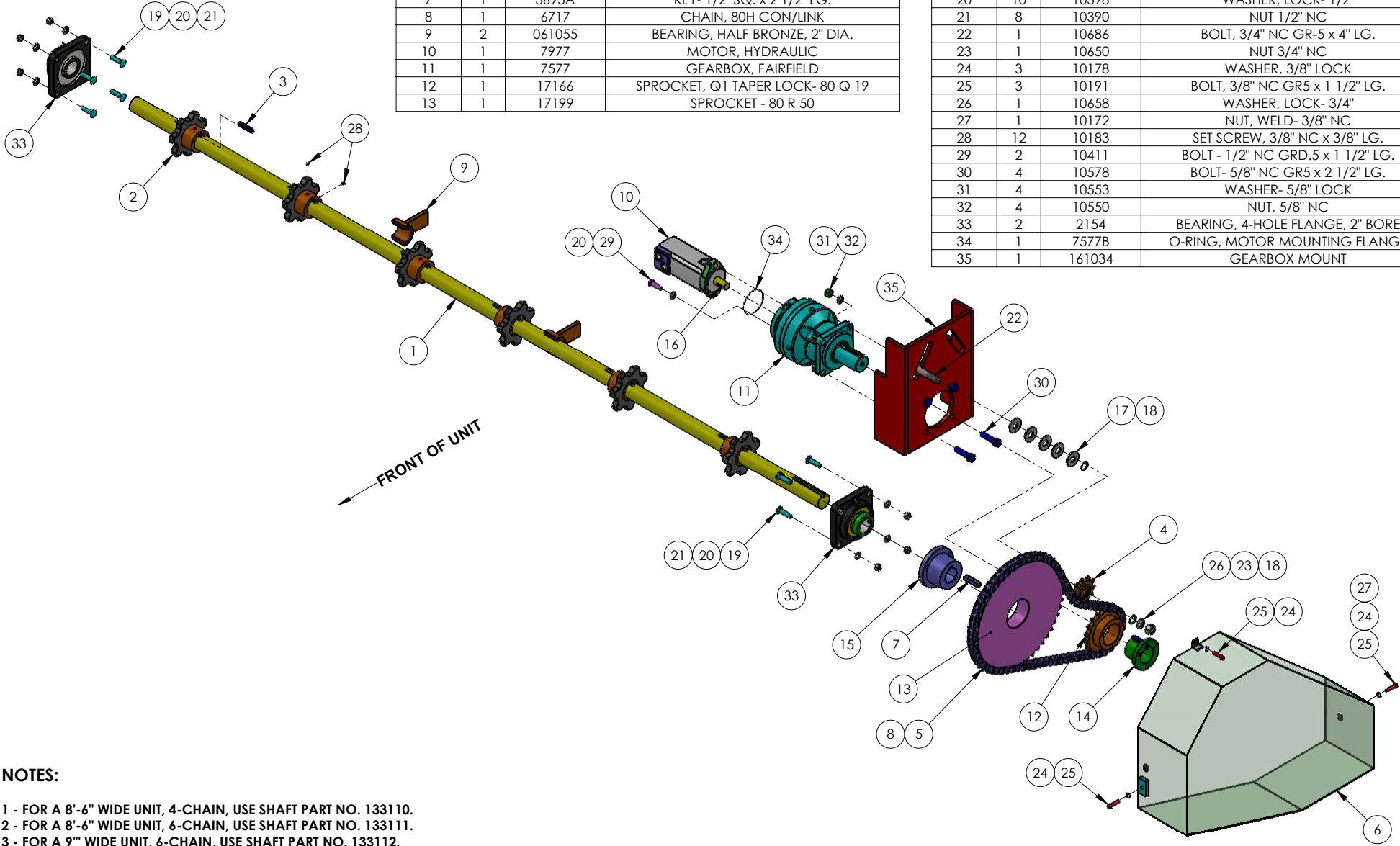
DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ±
 ANGULAR: MACH ± BEND ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

DATE	NAME	MATERIAL/FIN.
DESIGNED BY: 10-4-18	ACCLURE	FINISH:
APPROVED BY:		VENDOR:
		VENDOR P/N:

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #: MATERIAL: SEE BOM			
				DESCRIPTION FLOOR DRIVE ASSEMBLY, NO GEARBOX	
				SIZE C	PART NUMBER BW-022
				SCALE: 1:8	WEIGHT: 519 lbs
				SHEET 1 OF 1	

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	SEE NOTES	SHAFT, FLOOR DRIVE
2	6	027034	SPROCKET, FLOOR DRIVE, D667X
3	6	3693	KEY, SQ. 3/8" x 2 1/2" LG.
4	1	3301	SPROCKET, 80-11 IDLER
5	1	6716	CHAIN, 80H FLOOR DRIVE, (5.98 FT.)
6	1	162011R	CHAIN GUARD ASSEMBLY
7	1	3695A	KEY- 1/2" SQ. x 2 1/2" LG.
8	1	6717	CHAIN, 80H CON/LINK
9	2	061055	BEARING, HALF BRONZE, 2" DIA.
10	1	7977	MOTOR, HYDRAULIC
11	1	7577	GEARBOX, FAIRFIELD
12	1	17166	SPROCKET, Q1 TAPER LOCK- 80 Q 19
13	1	17199	SPROCKET - 80 R 50

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
14	1	16103	BUSHING, TAPERLOCK, Q1 x 2-1/4" ID
15	1	16171	BUSHING, TAPERLOCK R1 x 2" I.D.
16	1	7879B	KEY, WOODRUFF- 1/4" x 1"
17	6	10659	WASHER, FLAT- 3/4"
18	2	10657	WASHER, 3/4" FLAT MACHINE
19	8	10424	BOLT, CARRIAGE- 1/2" NC GRD.5 x 2" LG.
20	10	10398	WASHER, LOCK- 1/2"
21	8	10390	NUT 1/2" NC
22	1	10686	BOLT, 3/4" NC GR-5 x 4" LG.
23	1	10650	NUT 3/4" NC
24	3	10178	WASHER, 3/8" LOCK
25	3	10191	BOLT, 3/8" NC GR5 x 1 1/2" LG.
26	1	10658	WASHER, LOCK- 3/4"
27	1	10172	NUT, WELD- 3/8" NC
28	12	10183	SET SCREW, 3/8" NC x 3/8" LG.
29	2	10411	BOLT - 1/2" NC GRD.5 x 1 1/2" LG.
30	4	10578	BOLT- 5/8" NC GR5 x 2 1/2" LG.
31	4	10553	WASHER- 5/8" LOCK
32	4	10550	NUT, 5/8" NC
33	2	2154	BEARING, 4-HOLE FLANGE, 2" BORE
34	1	7577B	O-RING, MOTOR MOUNTING FLANGE
35	1	161034	GEARBOX MOUNT



NOTES:

- 1 - FOR A 8'-6" WIDE UNIT, 4-CHAIN, USE SHAFT PART NO. 133110.
- 2 - FOR A 8'-6" WIDE UNIT, 6-CHAIN, USE SHAFT PART NO. 133111.
- 3 - FOR A 9" WIDE UNIT, 6-CHAIN, USE SHAFT PART NO. 133112.

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ±
 ANGULAR: MACH ± BEND ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

DATE	NAME	MATERIAL	FINISH
DESIGNED BY: 10-4-18	ACCLURE	VENDOR	
APPROVED BY:		VENDOR P/N:	

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
JOB #:		SEE BOM			
MATERIAL:				DESCRIPTION FLOOR DRIVE ASSEMBLY w/S1CL6KS5 GEARBOX	
SIZE C	PART NUMBER BW-023	SCALE: 1:8	WEIGHT: 576 lbs	REV.:	SHEET 1 OF 1

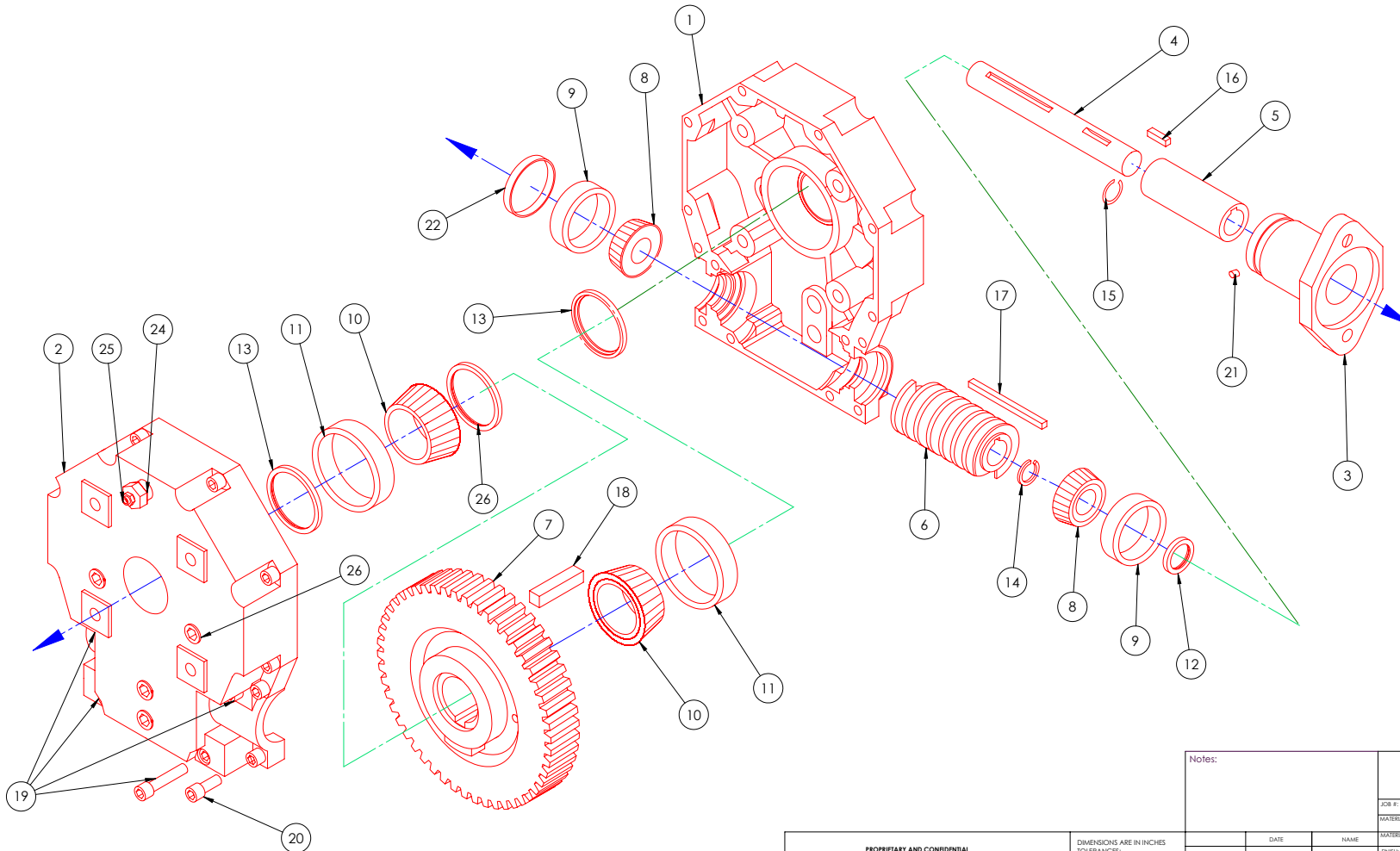
NOTES: UNLESS OTHERWISE SPECIFIED

1 - TO ORDER A COMPLETE GEARBOX ASSEMBLY, USE PART NO. 7236.

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

ITEM NO	QTY	PART NO.	DESCRIPTION
1	1	7235B	CASTING, MACHINED, W00001
2	1	7235C	CASTING, MACHINED, W00002
3	1	7236R	HYDRAULIC MOUNTING ADAPTER
4	1	7236A	SHAFT
5	1	7236U	COUPLER
6	1	7236D	WORM GEAR, R/H, 50:1
7	1	7236W	GEAR, BRASS, R/H
8	2	7066	BEARING CONE
9	2	6074	BEARING CUP
10	2	7236G	BEARING CONE
11	2	7236H	BEARING CUP
12	1	7236J	SEAL 1"
13	2	7236K	SEAL 2"

ITEM NO	QTY	PART NO.	DESCRIPTION
14	1	7236I	SNAP RING 1"
15	1	7236V	RET RING (TRU-ARC N5000-100)
16	1	7236O	1/4" SQ. KEY STOCK X 1" LG.
17	1	7236X	1/4" SQ. KEY STOCK X 2 7/8" LG.
18	1	7235F	1/2" SQ. KEY STOCK X 1 11/16" LG.
19	4	7236Q	3/8" -16 SHCS BOLT X 2 1/4" LG.
20	10	7236P	3/8"-16 SHCS BOLT X 1 1/2" LG.
21	1	7236Z	ADAPTER SET SCREW, 1/4" NF X 1/2" LG
22	1	7235E	DUST COVER SEAL
23	8	7236L	PLUG 1/2" NPT SKHD HEX
24	1	7236M	BUSHING 1/2"NPT X 1/8"NPT
25	1	7236N	PRESSURE RELIEF PLUG (5 PSI)
26	1	61122	50:1 GEARBOX SPACER



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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ±
 ANGULAR: MACH ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

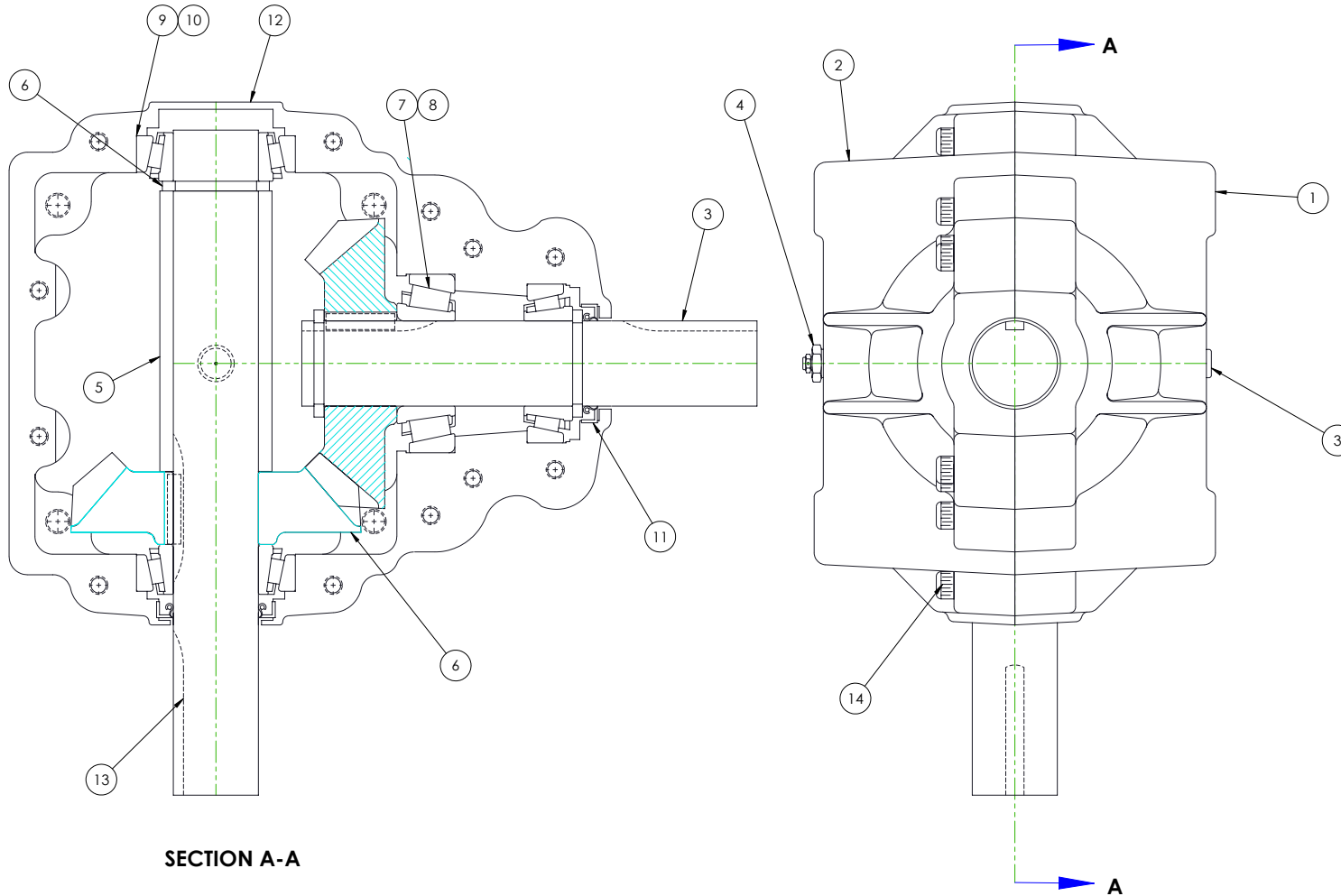
Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #:			
		MATERIAL:		SIZE C	
		DATE		PART NUMBER BW-024	
		NAME		REV. -	
		MATERIAL/FIN.		SCALE: 1:1	
		DRAWN BY: 10-5-18		WEIGHT: lbs	
		APPROVED BY:		SHEET 1 OF 1	
		VENDOR:			
		VENDOR P/N:			

NOTES: UNLESS OTHERWISE SPECIFIED

1 - TO ORDER A COMPLETE GEARBOX ASSEMBLY, USE PART NO. 7209.

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	7209A	CASTING, MACHINED
2	1	7209B	CASTING, MACHINED
3	1	7209P	PLUG, 1/2NPT SKHD HEX
4	1	7209R	PLUG, PRESSURE RELIEF, 5 PSI
5	1	7209E	SPACER
6	1	7209L	SHAFT, REV ROT. W/ GEAR
7	1	7209G	BEARING CUP 3720
8	1	7209H	BEARING CONE 3782
9	3	6005	BEARING CUP 25520
10	3	7216	BEARING CONE 25581
11	2	7209K	SEAL 1 3/4"
12	1	7148	SEAL CAP K155
13	1	7209M	SHAFT, STD ROT. W/GEAR
14	12	7209O	BOLT, 3/8-16 X 2.250 SHCS



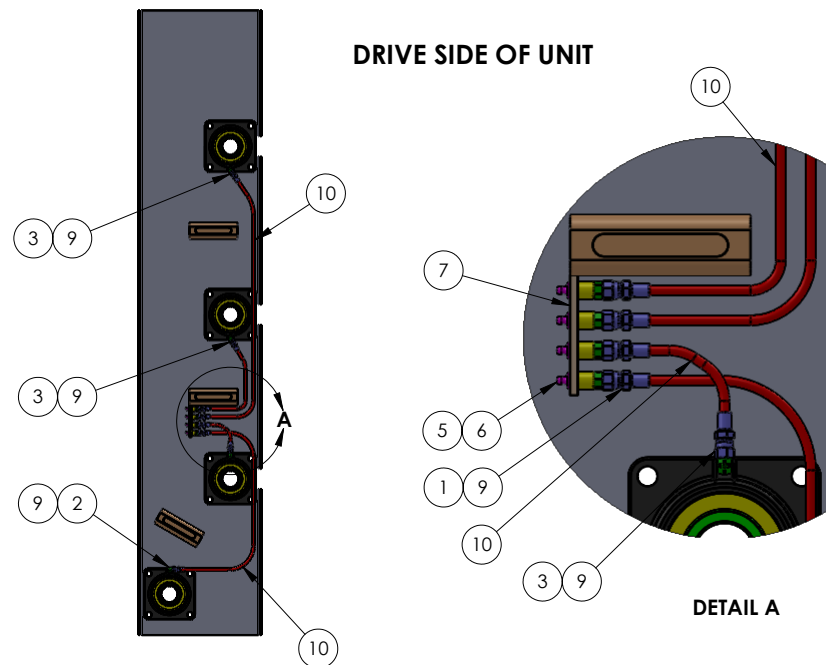
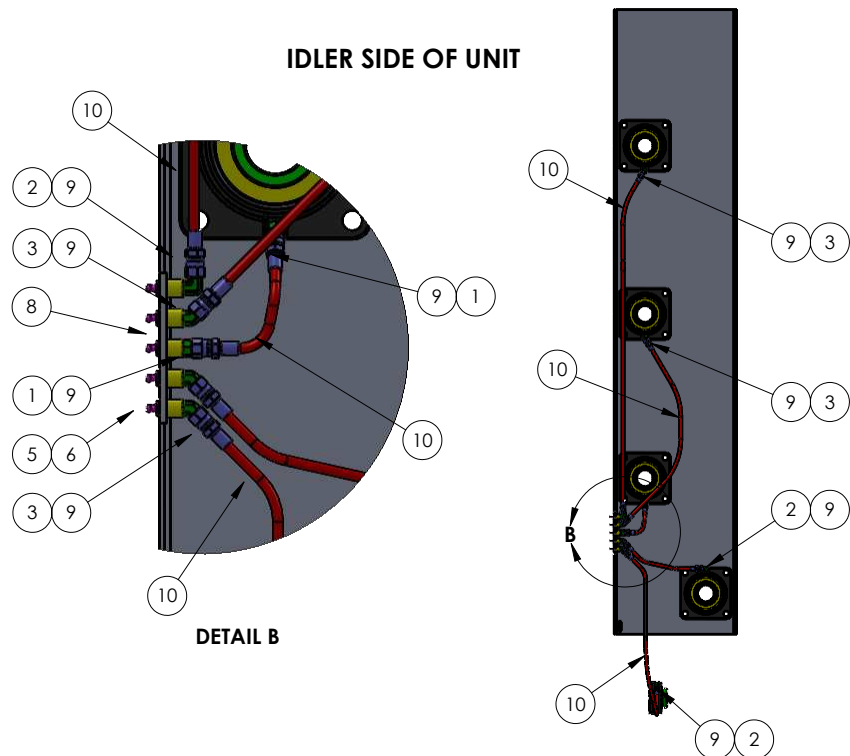
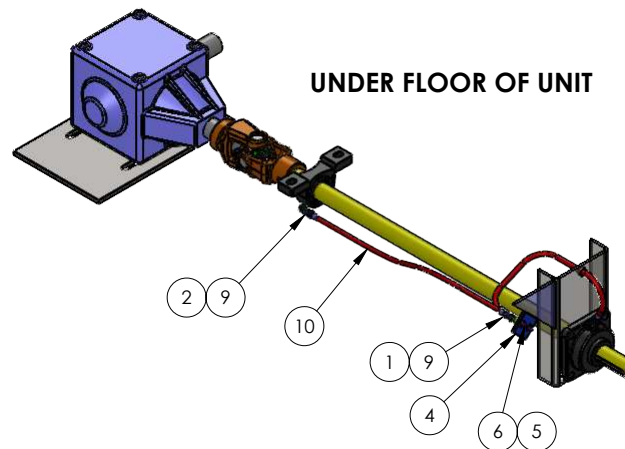
SECTION A-A

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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL: ±
 ANGULAR: MACH ± BEND ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941		 DESCRIPTION HEAVY DUTY RIGHT-ANGLE GEARBOX ASSEMBLY	
JOB #:		MATERIAL:			
DRAWN BY: 10-5-18		ACCLURE		SIZE: C	
DESIGNED BY:		VENDOR:		PART NUMBER: BW-025	
APPROVED BY:		VENDOR P/N:		SCALE: 1:1	
				WEIGHT: lbs	
				SHEET 1 OF 1	

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	9	4 FTX-S	FITTING, 1/4" M JIC x 1/8" M NPTF
2	5	4-CTX-S	FITTING, 90°, 1/4" M JIC x 1/8" M NPTF
3	8	4 VTX-S	FITTING, 45°, 1/4" M JIC x 1/8" M NPTF
4	1	61134	MOUNT, GREASE FITTING, 2-POS.
5	11	9250	COUPLER, STRT. 1/8" F NPTF
6	11	11310	GREASE ZERK, 1/8" M NPTF
7	1	21231	MOUNT, GREASE FITTING, 4-POS.
8	1	61136	MOUNT, GREASE FITTING, 5-POS.
9	22	106CY-4-2	HOSE END, 1/8" x 1/4" F JIC, SWIVEL
10	11	HLB02	HOSE, 1/8" GREASE (CUT TO LENGTH)



NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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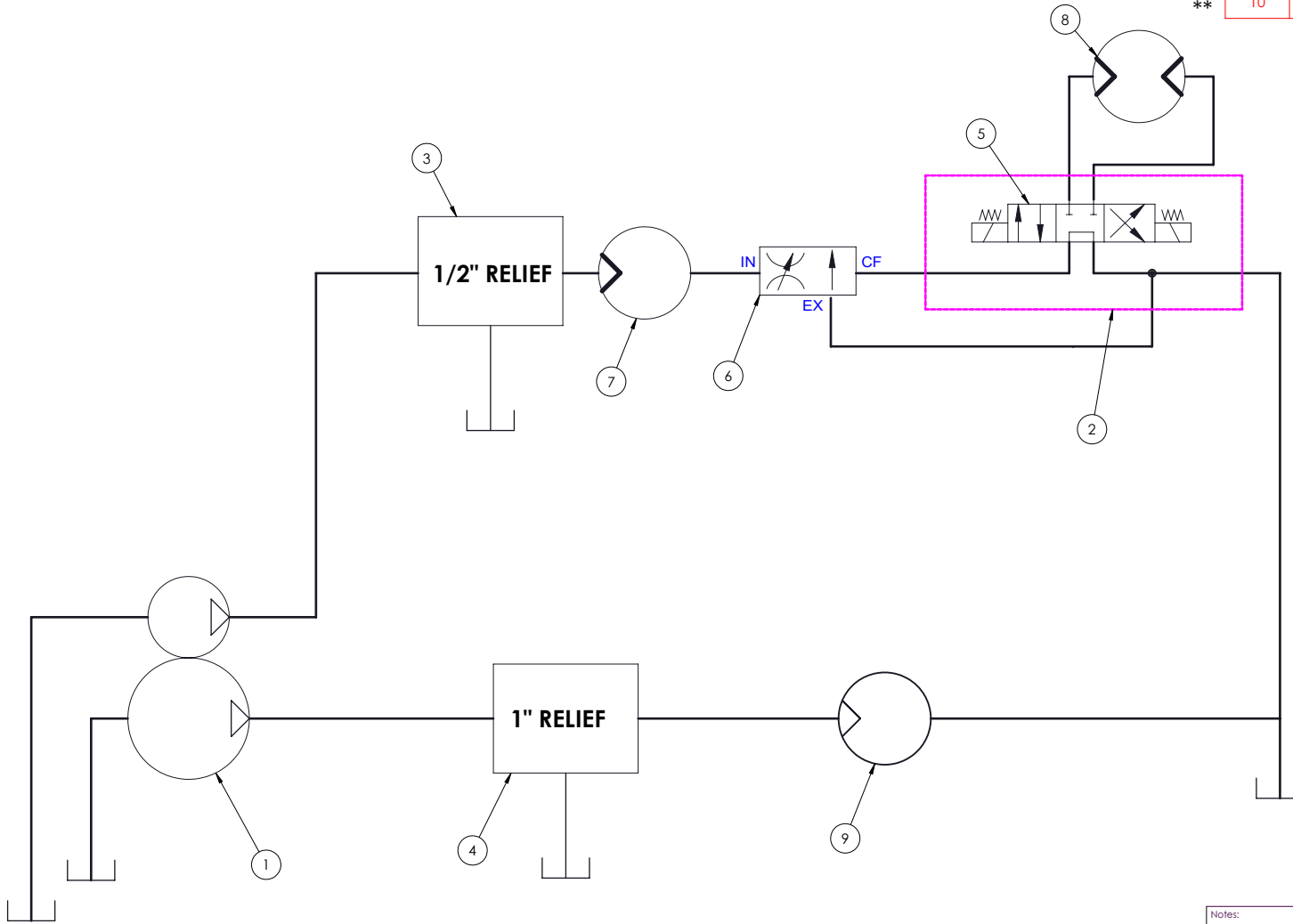
DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ±
 ANGULAR: MACH ± BEND ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #: MATERIAL: SEE BOM			
DRAWN BY:	DATE	NAME	MATERIAL/FIN.	FINISH:	DESCRIPTION
DESIGNED BY:	10-4-18	ACCLURE	VENDOR:		GREASE LINE DETAIL, FLOOR & BEATER DRIVE
APPROVED BY:			VENDOR P/N:		SIZE: C PART NUMBER: BW-026
			SCALE: 1/8"	WEIGHT: 554 lbs	REV: - SHEET 1 OF 1

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	7884	HYDRAULIC PUMP
2	1	8071	VALVE BLOCK SUB PLATE
3	1	8074/7892	RPEC-JAN-FEC RELIEF VALVE
4	1	8073/8050	RPGC-FAN-CEE RELIEF VALVE
5	1	7894	4-WAY SOLENOIDS
6	1	8055	FLOW CONTROL W/O RELIEF
7	1	7913	HYDRAULIC CROSSFEED MOTOR
8	1	7993	HYDRAULIC FLOOR DRIVE
9	1	7975	HYDRAULIC BEATER MOTOR
10	1	8043	VALVE, ELECTRIC FLOW CONTROL

** DENOTES OPTIONAL FLOW CONTROL



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 FRACTIONAL: ±
 ANGULAR: MACH ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

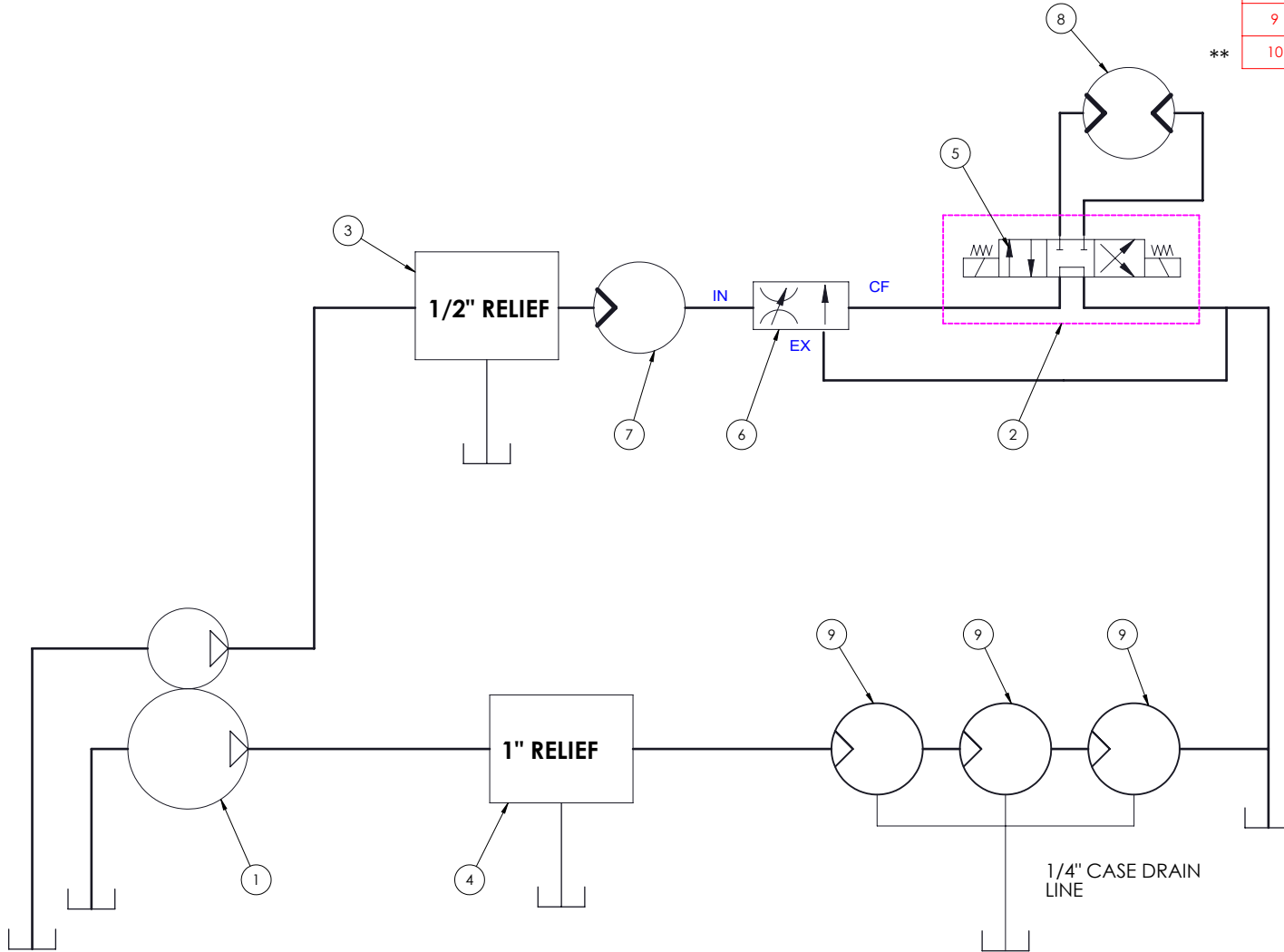
Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #: MATERIAL:			
		DATE: 10-30-18		DESCRIPTION: SCHEMATIC SEMI-HYDRAULIC	
		NAME: MCCLURE		PART NUMBER: BW-027	
		FINISH:		REV:	
		VENDOR:		SCALE: 1:1	
		VENDOR P/N:		WEIGHT: lbs	
				SHEET 1 OF 1	

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	7884	HYDRAULIC PUMP
2	1	8071	VALVE BLOCK SUB PLATE
3	1	8074/7892	RPEC-JAN-FEC RELIEF VALVE
4	1	8073/8050	RPGC-FAN-CEE RELIEF VALVE
5	1	7894	4-WAY SOLENOID
6	1	8055	FLOW CONTROL W/O RELIEF
7	1	7913	HYDRAULIC CROSSFEED MOTOR
8	1	7993	HYDRAULIC FLOOR MOTOR
9	3	7978	HYDRAULIC BEATER MOTOR
10	1	8043	VALVE, ELECTRIC FLOW CONTROL

**

** DENOTES OPTIONAL FLOW CONTROL

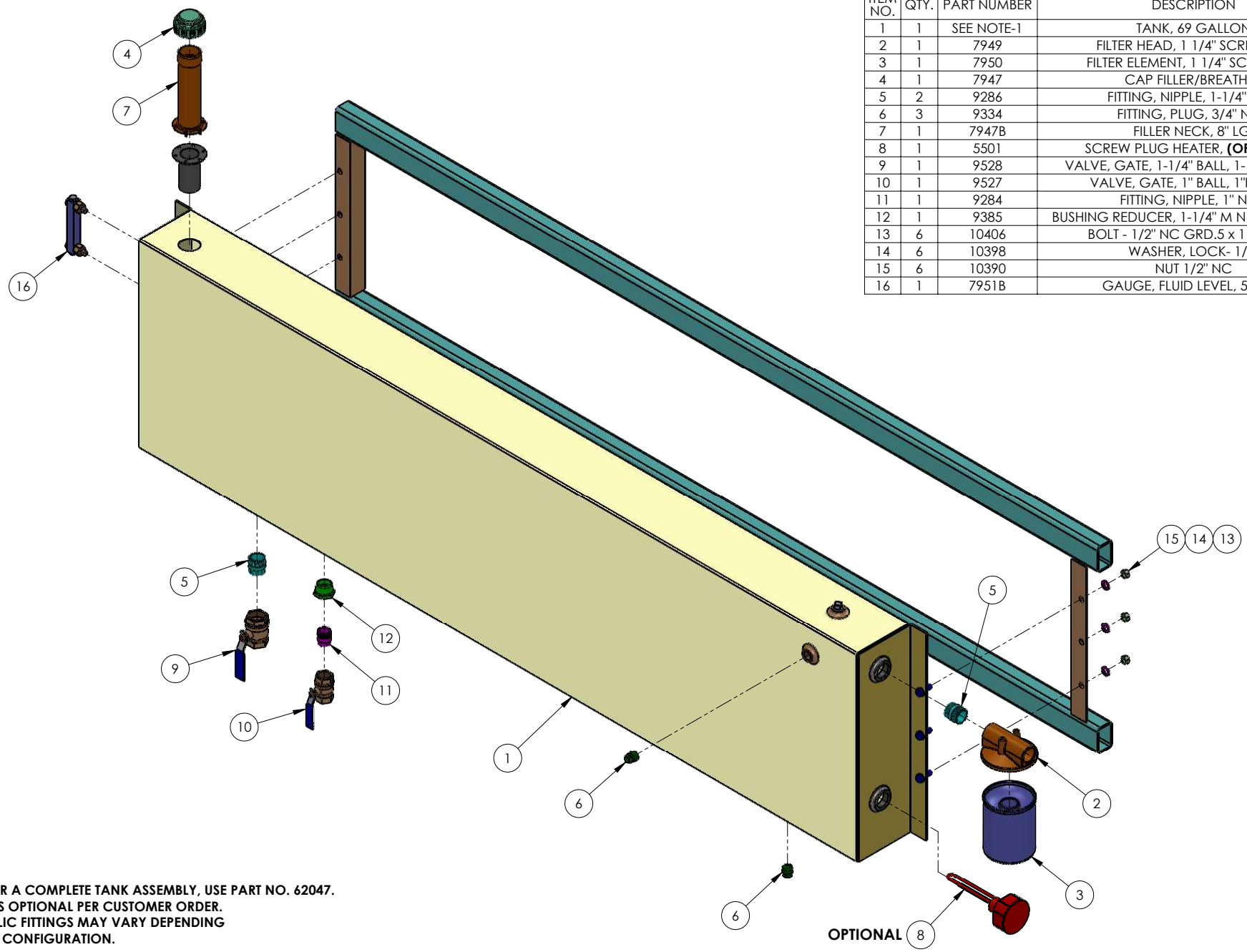


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 FRACTIONAL: ±
 ANGULAR: MACH ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #:			
		MATERIAL:		DESCRIPTION SCHEMATIC ALL-HYDRAULIC	
		FINISH:			
DRAWN BY: 10-30-18		NAME: MCCLURE		SIZE: C	
CHECKED BY:		VENDOR:		PART NUMBER: BW-028	
APPROVED BY:		VENDOR P/N:		SCALE: 1:1	
				WEIGHT: lbs	
				SHEET 1 OF 1	

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	SEE NOTE-1	TANK, 69 GALLON
2	1	7949	FILTER HEAD, 1 1/4" SCREW-ON
3	1	7950	FILTER ELEMENT, 1 1/4" SCREW-ON
4	1	7947	CAP FILLER/BREATHER
5	2	9286	FITTING, NIPPLE, 1-1/4" NPTF
6	3	9334	FITTING, PLUG, 3/4" NPTF
7	1	7947B	FILLER NECK, 8" LG.
8	1	5501	SCREW PLUG HEATER, (OPTIONAL)
9	1	9528	VALVE, GATE, 1-1/4" BALL, 1-1/4"/F NPTF
10	1	9527	VALVE, GATE, 1" BALL, 1"/F NPTF
11	1	9284	FITTING, NIPPLE, 1" NPTF
12	1	9385	BUSHING REDUCER, 1-1/4" M NPTF x 1" F NPTF
13	6	10406	BOLT - 1/2" NC GRD.5 x 1 1/4" LG.
14	6	10398	WASHER, LOCK- 1/2"
15	6	10390	NUT 1/2" NC
16	1	7951B	GAUGE, FLUID LEVEL, 5" TUBE



NOTES:

- 1 - TO ORDER A COMPLETE TANK ASSEMBLY, USE PART NO. 62047.
- 2 - HEATER IS OPTIONAL PER CUSTOMER ORDER.
- 3 - HYDRAULIC FITTINGS MAY VARY DEPENDING ON UNIT CONFIGURATION.

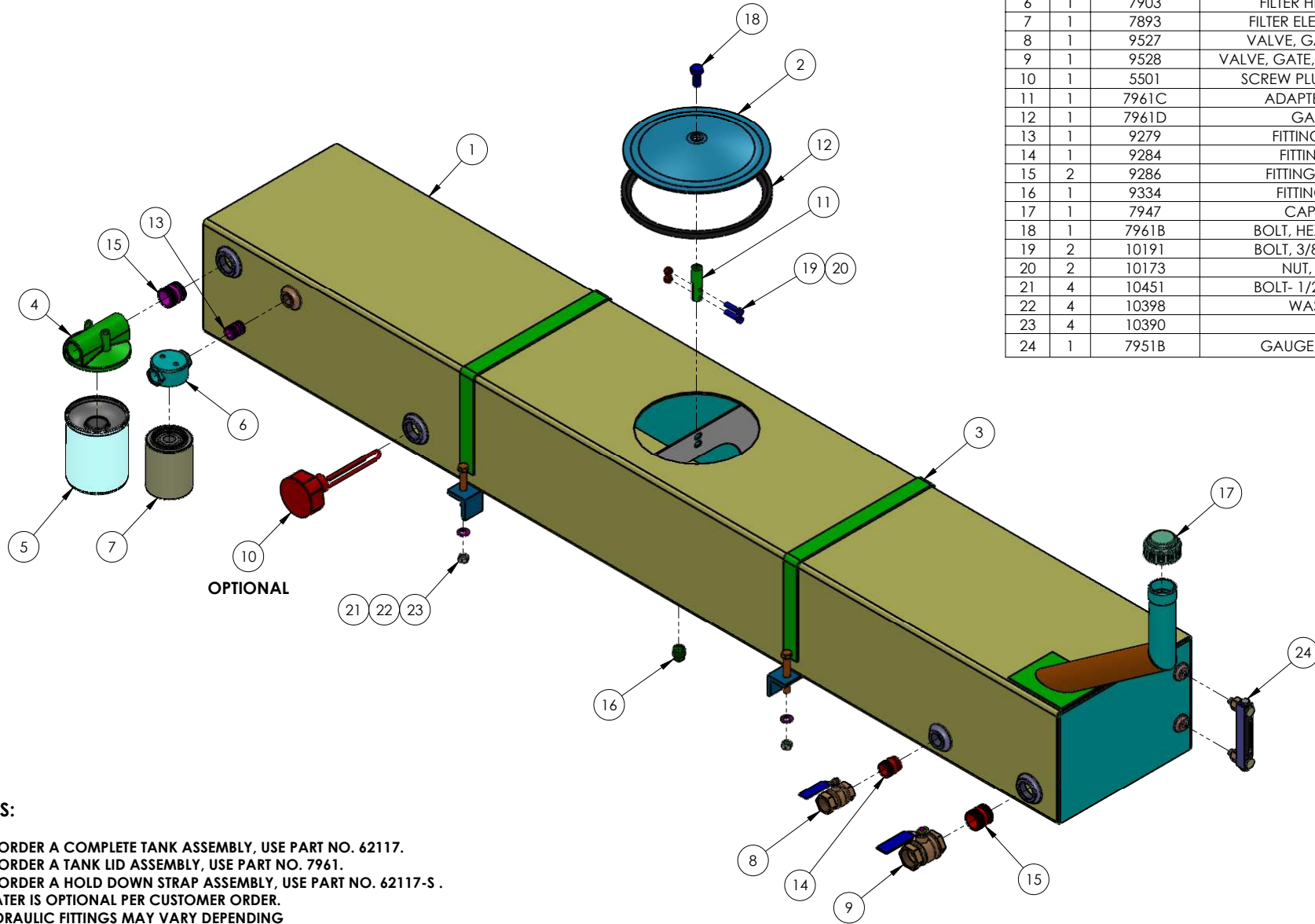
NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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 TOLERANCES:
 FRACTIONAL: ±
 ANGULAR: MACH ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL: ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #: MATERIAL: SEE BOM			
				DESCRIPTION TANK, HYDRAULIC, 69 GALLONS	
				SIZE C	PART NUMBER BW-029
				SCALE: 1:1	WEIGHT: lbs
				SHEET 1 OF 1	

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	SEE NOTE-1	TANK, HYDRAULIC, 70 GALLONS
2	1	SEE NOTE-2	TANK LID, 12" HYDRAULIC ASSEMBLY
3	2	SEE NOTE-3	HOLD DOWN STRAP ASSEMBLY
4	1	7949	FILTER HEAD, 1 1/4" SCREW-ON
5	1	7950	FILTER ELEMENT, 1 1/4" SCREW-ON
6	1	7903	FILTER HEAD, 3/4" SCREW-ON
7	1	7893	FILTER ELEMENT, 3/4" SCREW-ON
8	1	9527	VALVE, GATE, 1" BALL, 1"/F NPTF
9	1	9528	VALVE, GATE, 1-1/4" BALL, 1-1/4"/F NPTF
10	1	5501	SCREW PLUG HEATER, (OPTIONAL)
11	1	7961C	ADAPTER, COVER & BAFFLE
12	1	7961D	GASKET, 12" COVER
13	1	9279	FITTING, NIPPLE, 3/4" NPTF
14	1	9284	FITTING, NIPPLE, 1" NPTF
15	2	9286	FITTING, NIPPLE, 1-1/4" NPTF
16	1	9334	FITTING, PLUG, 3/4" NPTF
17	1	7947	CAP FILLER/BREATHER
18	1	7961B	BOLT, HEX, 5/8" NC x 1 3/8" LG.
19	2	10191	BOLT, 3/8" NC GR5 x 1 1/2" LG.
20	2	10173	NUT, NYLOCK- 3/8" NC
21	4	10451	BOLT- 1/2" NC GR5 x 3 1/2" LG.
22	4	10398	WASHER, LOCK- 1/2"
23	4	10390	NUT 1/2" NC
24	1	7951B	GAUGE, FLUID LEVEL, 5" TUBE




NOTES:

- 1 - TO ORDER A COMPLETE TANK ASSEMBLY, USE PART NO. 62117.
- 2 - TO ORDER A TANK LID ASSEMBLY, USE PART NO. 7961.
- 3 - TO ORDER A HOLD DOWN STRAP ASSEMBLY, USE PART NO. 62117-S.
- 4 - HEATER IS OPTIONAL PER CUSTOMER ORDER.
- 5 - HYDRAULIC FITTINGS MAY VARY DEPENDING ON UNIT CONFIGURATION.

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

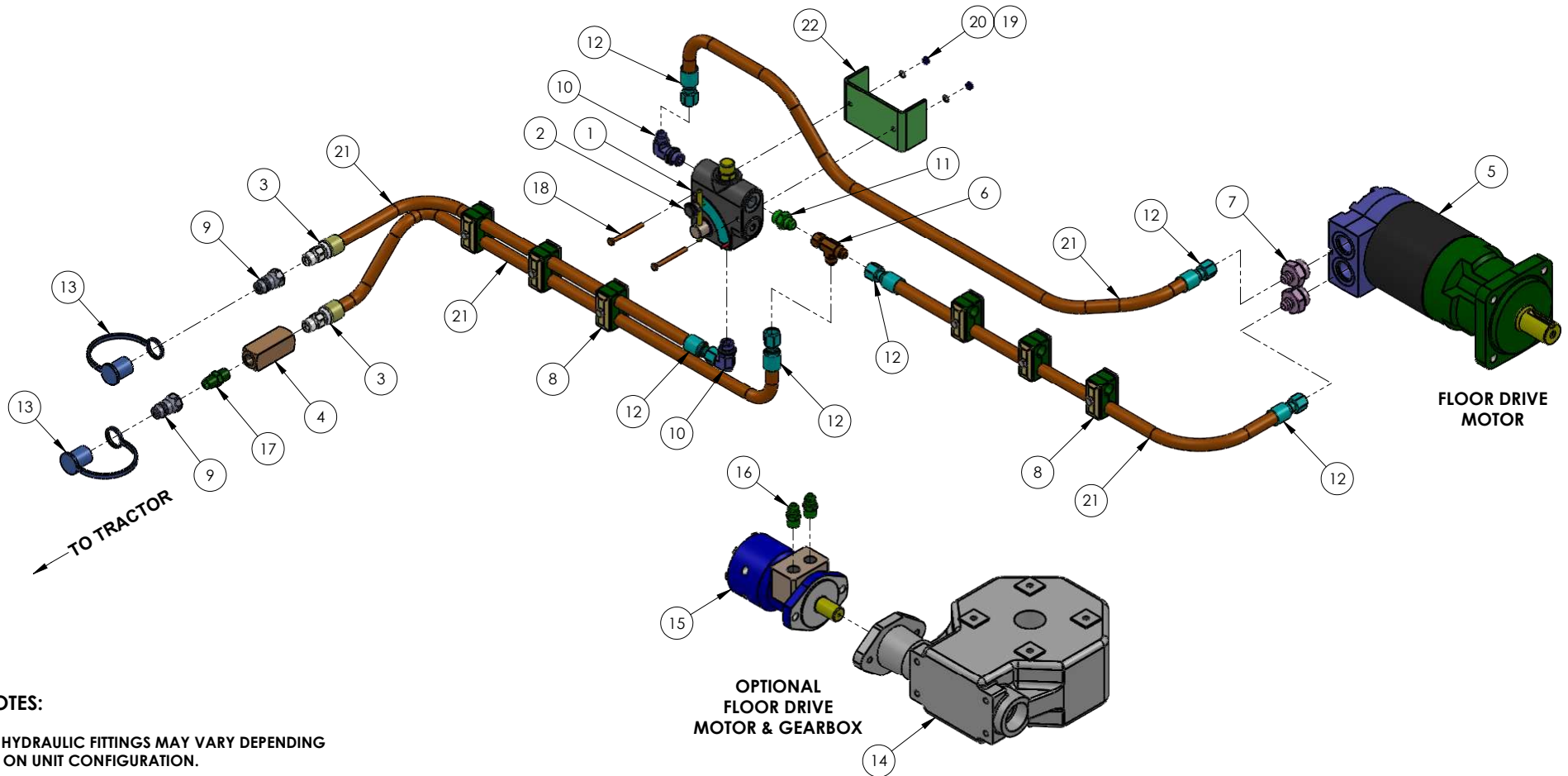
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 TOLERANCES:
 FRACTIONAL ±
 ANGULAR: MACH ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941		 DESCRIPTION TANK, HYDRAULIC, 70 GALLONS		
		JOB #: MATERIAL: SEE BOM				
DATE	NAME	MATERIAL/FIN	FINISH	SIZE	PART NUMBER	REV.
DESIGNED BY: 10-16-18	ACCLURE		VENDOR	C	BW-030	
APPROVED BY:		VENDOR P/N:		SCALE: 1:1	WEIGHT: lbs	SHEET 1 OF 1

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	8056	VALVE, FLOW CONTROL, w/RELIEF
2	1	8055A	HANDLE, FLOW CONTROL
3	2	10143-8-8	HOSE END, 1/2" x 1/2" M NPTF
4	1	7897	CHECK VALVE 1/2" NPTF
5	1	7993	MOTOR, HYDRAULIC
6	1	8 R6X-S	FITTING, TEE, 1/2" MJIC x 1/2" MJIC x 1/2" FMJIC
7	2	8-16 F5OX-S	FITTING, 1/2" M JIC x 1" M O-RING
8	6	8687	HOSE CLAMP, 1/2" DOUBLE
9	2	8731	FITTING, COUPLER TIP, 1/2" F NPTF
10	2	8-10 C5OX-S	FITTING, 90°, 1/2" MJIC x 5/8" M O-RING
11	1	8-10 F5OX-S	FITTING, 1/2" M JIC x 5/8" M O-RING

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
12	6	10643-8-8	HOSE END, 1/2" FM JIC, SWIVEL
13	2	5209-4M	DUST CAP
14	1	7236	GEARBOX, SUPERIOR
15	1	7965	MOTOR, HYDRAULIC
16	2	8-8 FTX-S	FITTING, 1/2" M JIC x 1/2" M NPTF
17	1	1_2 FF-S	FITTING, STRT. 1/2" M NPTF x 1/2" M NPTF
18	2	10215	BOLT- 1/4" NC GRD.5 x 2 3/4" LG.
19	2	10009	WASHER, LOCK- 1/4"
20	2	10001	NUT, 1/4" NC
21	4	451TC-8-RL	HOSE, HYDRAULIC, 1/2" (CUT TO LENGTH)
22	1	61078	MOUNT, FLOW CONTROL VALVE



NOTES:

1 - HYDRAULIC FITTINGS MAY VARY DEPENDING ON UNIT CONFIGURATION.

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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 THREE PLACE DECIMAL ±

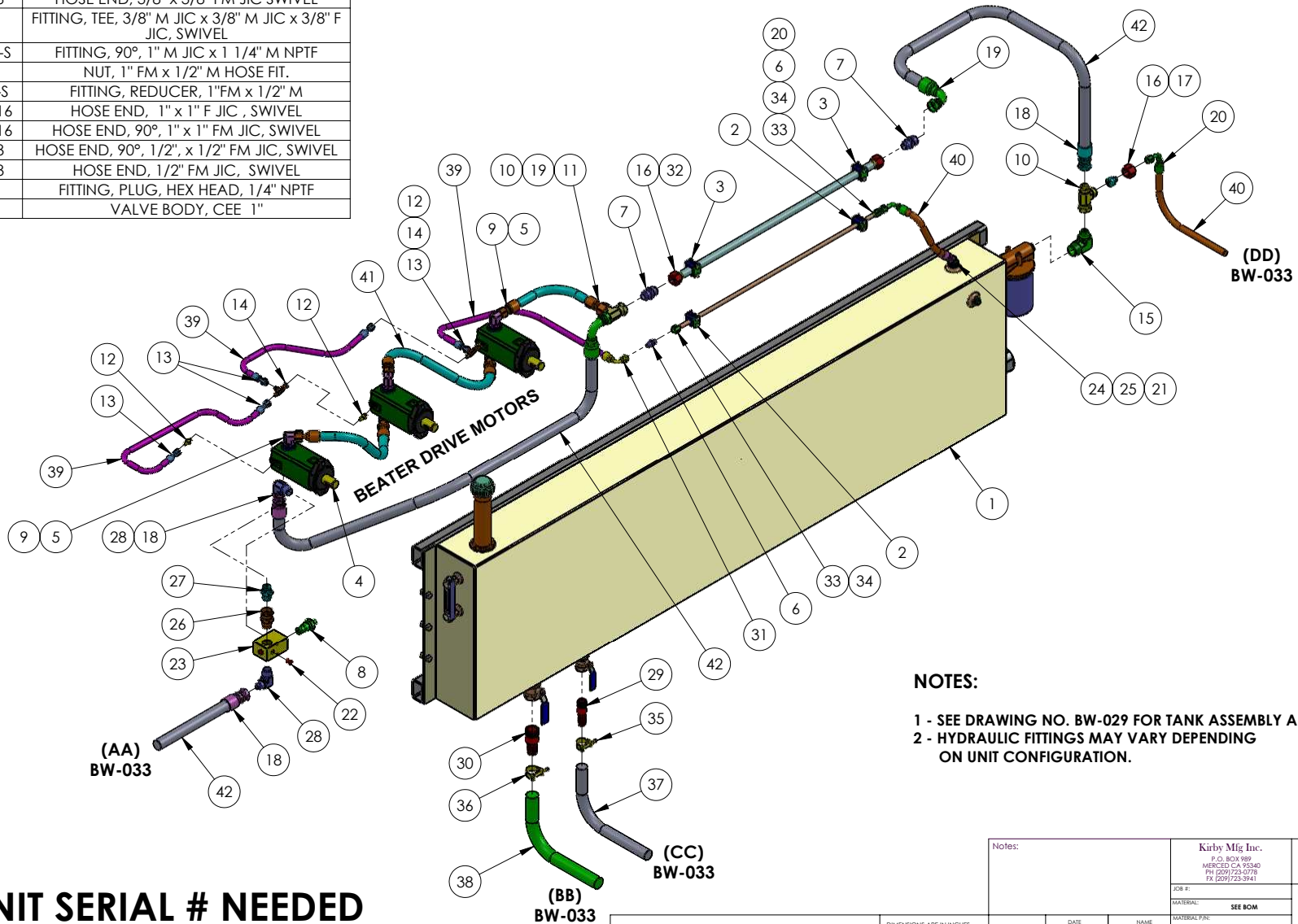
Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #: MATERIAL: SEE BOM			
DRAWN BY:	DATE:	NAME:	MATERIAL:	FINISH:	SIZE:
DESIGNED BY:	2-1-18	MCCLURE	VENDOR:		C
APPROVED BY:			VENDOR P/N:		
			SCALE: 1:5	WEIGHT: lbs	SHEET 1 OF 1

PART NUMBER **BW-031**

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	SEE NOTE-1	TANK, HYDRAULIC, 69 GALLONS
2	2	2127-PP-KIT	CLAMP, SINGLE HOSE, 1/2" TUBE
3	2	3254-PP	CLAMP, SINGLE HOSE, 1" TUBE
4	3	7978	MOTOR, HYDRAULIC
5	5	12 C5OX-S	FITTING, 90°, 3/4" M JIC x 3/4" M O-RING
6	2	8 HTX-S	FITTING, UNION- 1/2" M JIC x 1/2" M JIC
7	2	16 HTX-S	FITTING, UNION 1" M JIC x 1" M JIC
8	1	8073	RELIEF VALVE, 1"
9	5	10643-12-12	HOSE END, 3/4" x 3/4" FM JIC, SWIVEL
10	2	16 R6X-S	FITTING, TEE, 1" M JIC x 1" M JIC x 1" F JIC, SWIVEL
11	1	10643-16-12	HOSE END, 3/4" x 1" F JIC, SWIVEL
12	3	6-4 F5OX-S	FITTING, 3/8" M JIC x 1/4" M O-RING
13	5	10643-6-6	HOSE END, 3/8" x 3/8" FM JIC SWIVEL
14	2	6 R6X-S	FITTING, TEE, 3/8" M JIC x 3/8" M JIC x 3/8" F JIC, SWIVEL
15	1	16-20 CTX-S	FITTING, 90°, 1" M JIC x 1 1/4" M NPTF
16	3	16 BTX-S	NUT, 1" FM x 1/2" M HOSE FIT.
17	1	16-8 TRTX-S	FITTING, REDUCER, 1" FM x 1/2" M
18	3	10643-16-16	HOSE END, 1" x 1" F JIC, SWIVEL
19	2	13943-16-16	HOSE END, 90°, 1" x 1" FM JIC, SWIVEL
20	2	13943-8-8	HOSE END, 90°, 1/2", x 1/2" FM JIC, SWIVEL
21	1	10643-8-8	HOSE END, 1/2" FM JIC, SWIVEL
22	2	1 4 HP-S	FITTING, PLUG, HEX HEAD, 1/4" NPTF
23	1	8050	VALVE BODY, CEE 1"

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
24	1	9383	BUSHING, REDUCER, 3/4" M NPTF x 1/2" F NPTF
25	1	8-8 VTX-S	FITTING, 45°, 1/2" M JIC x 1/2" M NPTF
26	1	16 F6X-S	FITTING, 1" F JIC x 1" M NPTF, SWIVEL
27	1	16-12 F5OX-S	FITTING, 1" M JIC x 3/4" M O-RING
28	2	16 CTX-S	FITTING, 90°, 1" M JIC x 1" M NPTF
29	1	9294	KING NIPPLE, 1" M NPTF x 1" HOSE BARB
30	1	9295	KING NIPPLE, 1-1/4" M NPTF x 1-1/4" HOSE BARB
31	1	13943-8-6	HOSE END, 90°, 3/8" x 1/2" FM JIC, SWIVEL
32	2	16 TX-S	FITTING, 1" JIC NUT SLEEVE
33	2	8 BTX-S	FITTING, NUT- 1/2" FMJIC

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
34	2	8 TX-S	FITTING, 1/2" JIC NUT SLEEVE
35	1	TBC150	HOSE CLAMP, T-BOLT, 1-1/2" I.D.
36	1	TBC175	HOSE CLAMP, T-BOLT, 1-3/4" I.D.
37	1	8756	HOSE, HYDRAULIC, 1" RETURN (CUT TO LENGTH)
38	1	8755	HOSE, HYDRAULIC, 1-1/4" RETURN (CUT TO LENGTH)
39	3	451TC-6-RL	HOSE, HYDRAULIC, 3/8" (CUT TO LENGTH)
40	2	451TC-8-RL	HOSE, HYDRAULIC, 1/2" (CUT TO LENGTH)
41	3	451TC-12-RL	HOSE, HYDRAULIC, 3/4" (CUT TO LENGTH)
42	3	451TC-16-RL	HOSE, HYDRAULIC, 1" (CUT TO LENGTH)



NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

NOTES:

- 1 - SEE DRAWING NO. BW-029 FOR TANK ASSEMBLY AND PART NUMBERS.
- 2 - HYDRAULIC FITTINGS MAY VARY DEPENDING ON UNIT CONFIGURATION.

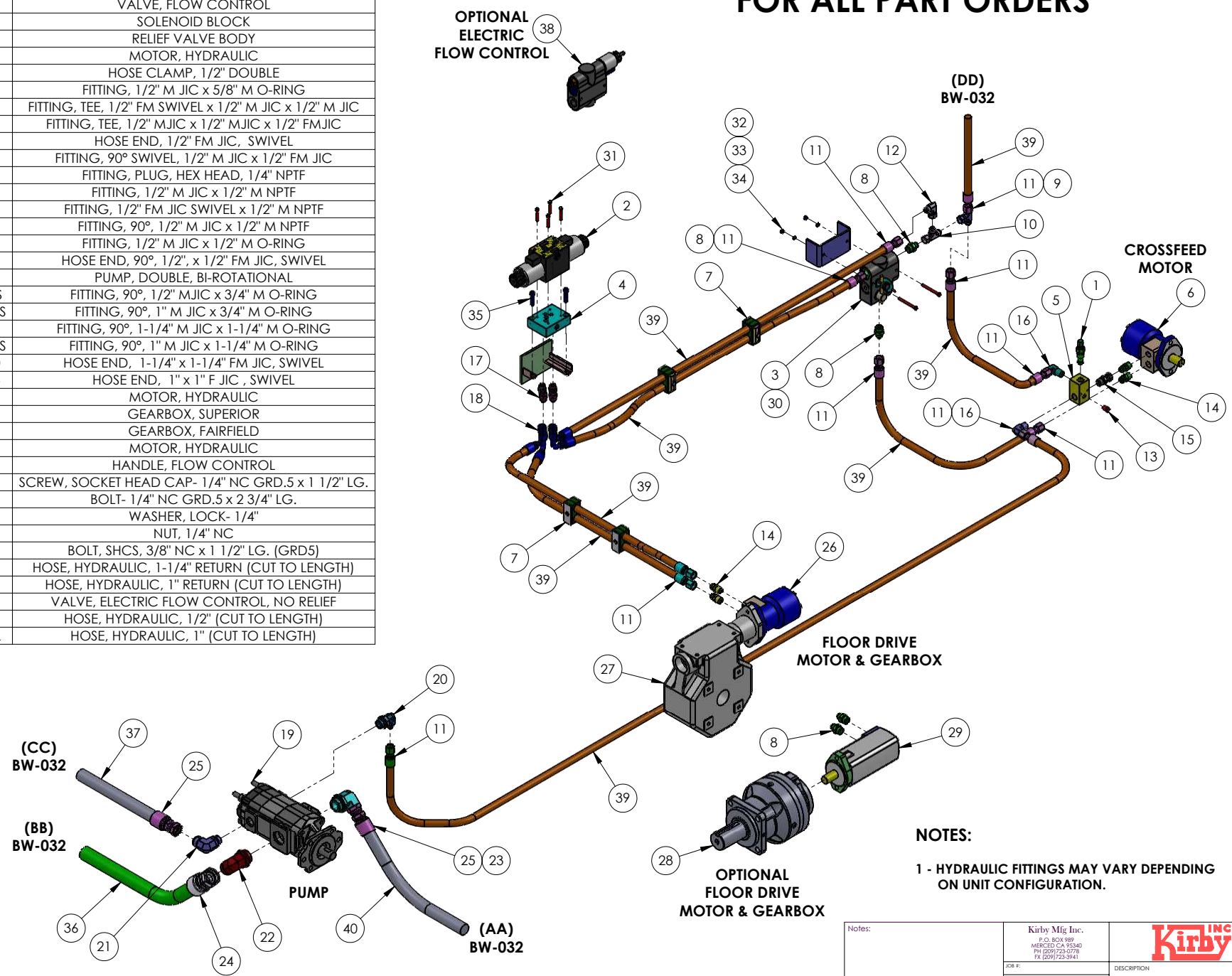
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TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941				
		JOB #: MATERIAL: SEE BOM				DESCRIPTION ALL HYDRAULIC TRUCK
DRAWN BY:	10-24-18	ACCLURE	FINISH:	SIZE	PART NUMBER	REV.
DESIGNED BY:	10-24-18		VENDOR:	C	BW-032	-
APPROVED BY:			VENDOR P/N:	SCALE: 1:10	WEIGHT: lbs	SHEET 1 OF 1

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	7892	RELIEF VALVE, 1/2"
2	1	7894	VALVE 4-WAY SOLENIOD
3	1	8055	VALVE, FLOW CONTROL
4	1	8071	SOLENOID BLOCK
5	1	8074	RELIEF VALVE BODY
6	1	7913	MOTOR, HYDRAULIC
7	4	8687	HOSE CLAMP, 1/2" DOUBLE
8	5	8-10 F5OX-S	FITTING, 1/2" M JIC x 5/8" M O-RING
9	1	8 S6X-S	FITTING, TEE, 1/2" FM SWIVEL x 1/2" M JIC x 1/2" M JIC
10	1	8 R6X-S	FITTING, TEE, 1/2" MJIC x 1/2" MJIC x 1/2" FMJIC
11	11	10643-8-8	HOSE END, 1/2" FM JIC, SWIVEL
12	1	8 C6X-S	FITTING, 90° SWIVEL, 1/2" M JIC x 1/2" FM JIC
13	2	1 4 HP-S	FITTING, PLUG, HEX HEAD, 1/4" NPTF
14	4	8-8 FTX-S	FITTING, 1/2" M JIC x 1/2" M NPTF
15	1	8-8 F6X-S	FITTING, 1/2" FM JIC SWIVEL x 1/2" M NPTF
16	2	8-8 CTX-S	FITTING, 90°, 1/2" M JIC x 1/2" M NPTF
17	4	8 F5OX-S	FITTING, 1/2" M JIC x 1/2" M O-RING
18	4	13943-8-8	HOSE END, 90°, 1/2", x 1/2" FM JIC, SWIVEL
19	1	7884	PUMP, DOUBLE, BI-ROTATIONAL
20	1	8-12 C5OX-S	FITTING, 90°, 1/2" MJIC x 3/4" M O-RING
21	1	16-12 C5OX-S	FITTING, 90°, 1" M JIC x 3/4" M O-RING
22	1	20 C5OX-S	FITTING, 90°, 1-1/4" M JIC x 1-1/4" M O-RING
23	1	16-20 C5OX-S	FITTING, 90°, 1" M JIC x 1-1/4" M O-RING
24	1	10643-20-20	HOSE END, 1-1/4" x 1-1/4" FM JIC, SWIVEL
25	2	10643-16-16	HOSE END, 1" x 1" F JIC, SWIVEL
26	1	7965	MOTOR, HYDRAULIC
27	1	7236	GEARBOX, SUPERIOR
28	1	7577	GEARBOX, FAIRFIELD
29	1	7977	MOTOR, HYDRAULIC
30	1	8055A	HANDLE, FLOW CONTROL
31	4	10030	SCREW, SOCKET HEAD CAP- 1/4" NC GRD.5 x 1 1/2" LG.
32	2	10215	BOLT- 1/4" NC GRD.5 x 2 3/4" LG.
33	2	10009	WASHER, LOCK- 1/4"
34	2	10001	NUT, 1/4" NC
35	2	7236P	BOLT, SHCS, 3/8" NC x 1 1/2" LG. (GRD5)
36	1	8755	HOSE, HYDRAULIC, 1-1/4" RETURN (CUT TO LENGTH)
37	1	8756	HOSE, HYDRAULIC, 1" RETURN (CUT TO LENGTH)
38	1	8043	VALVE, ELECTRIC FLOW CONTROL, NO RELIEF
39	8	451TC-8-RL	HOSE, HYDRAULIC, 1/2" (CUT TO LENGTH)
40	1	451TC-16-RL	HOSE, HYDRAULIC, 1" (CUT TO LENGTH)

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS



NOTES:
 1 - HYDRAULIC FITTINGS MAY VARY DEPENDING ON UNIT CONFIGURATION.

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		JOB #:			
		MATERIAL:		SEE BOM	
		DATE		FINISH	
		NAME		VENDOR	
		APPROVED BY:		VENDOR P/N:	
DRAWN BY: 10-24-18		ACCLURE		SIZE: C	
DESIGNED BY: 10-24-18				PART NUMBER: BW-033	
APPROVED BY:				SCALE: 1:8	
				WEIGHT: lbs	
				SHEET 1 OF 1	

PROPRIETARY AND CONFIDENTIAL
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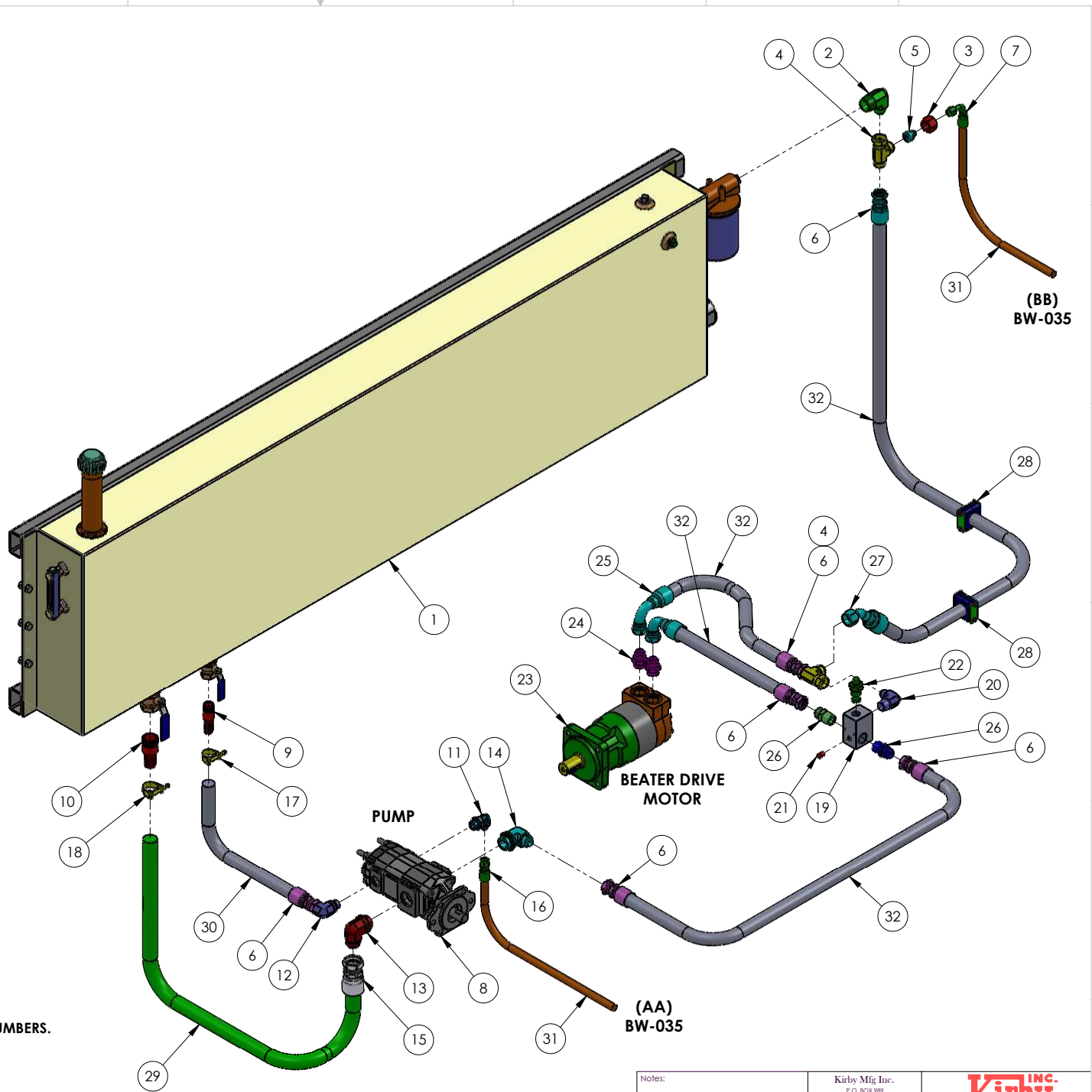
DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL: ±
 ANGULAR: MACH ± BEND ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL: ±

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	SEE NOTE-1	TANK, HYDRAULIC, 69 GALLONS
2	1	16-20 CTX-S	FITTING, 90°, 1" M JIC x 1 1/4" M NPTF
3	1	16 BTX-S	NUT, 1" FM x 1/2" M HOSE FIT.
4	2	16 R6X-S	FITTING, TEE, 1" M JIC x 1" M JIC x 1" F JIC, SWIVEL
5	1	16-8 TRTX-S	FITTING, REDUCER, 1" FM x 1/2" M
6	6	10643-16-16	HOSE END, 1" x 1" F JIC, SWIVEL
7	1	13943-8-8	HOSE END, 90°, 1/2", x 1/2" FM JIC, SWIVEL
8	1	7884	PUMP, DOUBLE, BI-ROTATIONAL
9	1	9294	KING NIPPLE, 1" M NPTF x 1" HOSE BARB
10	1	9295	KING NIPPLE, 1-1/4" M NPTF x 1-1/4" HOSE BARB
11	1	8-12 C5OX-S	FITTING, 90°, 1/2" M JIC x 3/4" M O-RING
12	1	16-12 C5OX-S	FITTING, 90°, 1" M JIC x 3/4" M O-RING
13	1	20 C5OX-S	FITTING, 90°, 1-1/4" M JIC x 1-1/4" M O-RING
14	1	16-20 C5OX-S	FITTING, 90°, 1" M JIC x 1-1/4" M O-RING
15	1	10643-20-20	HOSE END, 1-1/4" x 1-1/4" FM JIC, SWIVEL
16	1	10643-8-8	HOSE END, 1/2" FM JIC, SWIVEL
17	1	TBC150	HOSE CLAMP, T-BOLT, 1-1/2" I.D.
18	1	TBC175	HOSE CLAMP, T-BOLT, 1-3/4" I.D.
19	1	8050	VALVE BODY, CEE 1"
20	1	16 CTX-S	FITTING, 90°, 1" M JIC x 1" M NPTF
21	2	1_4 HP-S	FITTING, PLUG, HEX HEAD, 1/4" NPTF
22	1	8073	RELIEF VALVE, 1"
23	1	7975	MOTOR, HYDRAULIC, 112-1066
24	2	16 F5OX-S	FITTING, 1" M JIC x 1" M O-RING
25	2	13943-16-16	HOSE END, 90°, 1" x 1" FM JIC, SWIVEL
26	2	16 FTX-S	FITTING, 1" M JIC x 1" M NPTF
27	1	13743-16-16	HOSE END, 45°, 1" x 1" FM JIC, SWIVEL
28	2	H5357PP-KIT	CLAMP, 1" HOSE
29	1	8755	HOSE, HYDRAULIC, 1-1/4" RETURN (CUT TO LENGTH)
30	1	8756	HOSE, HYDRAULIC, 1" RETURN (CUT TO LENGTH)
31	2	451TC-8-RL	HOSE, HYDRAULIC, 1/2" (CUT TO LENGTH)
32	4	451TC-16-RL	HOSE, HYDRAULIC, 1" (CUT TO LENGTH)

NOTES:

- 1 - SEE DRAWING NO. BW-029 FOR TANK ASSEMBLY AND PART NUMBERS.
- 2 - HYDRAULIC FITTINGS MAY VARY DEPENDING ON UNIT CONFIGURATION.

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS



Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0278 FX (209)723-3941			
		JOB #:			
		MATERIAL:		SEMI - HYDRAULIC TRUCK	
		SEE BOM		PART NUMBER	
		DATE		SCALE: 1:8	
		NAME		WEIGHT: lbs	
		ACCLURE		SHEET 1 OF 1	
		FINISH:		REV.:	
		VENDOR:		C	
		VENDOR P/N:		PART NUMBER	
		DESIGNED BY: 11-2-18		BW-034	
		APPROVED BY:		SCALE: 1:8	
				WEIGHT: lbs	
				SHEET 1 OF 1	

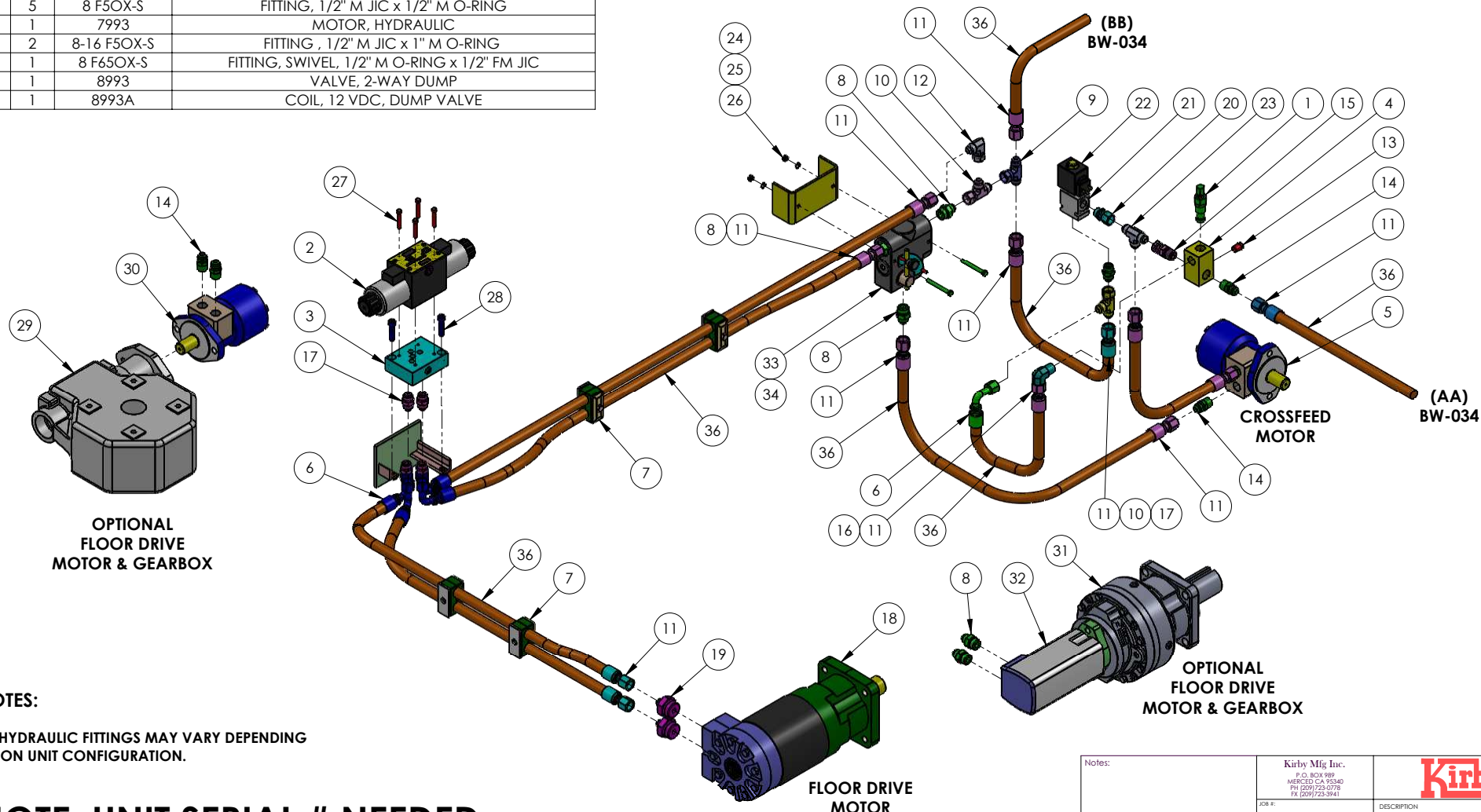
PROPRIETARY AND CONFIDENTIAL
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DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	7892	RELIEF VALVE, 1/2"
2	1	7894	VAVLE 4-WAY SOLENIOD
3	1	8071	SOLENOID BLOCK
4	1	8074	RELIEF VALVE BODY
5	1	7913	MOTOR, HYDRAULIC
6	5	13943-8-8	HOSE END, 90°, 1/2", x 1/2" FM JIC, SWIVEL
7	4	8687	HOSE CLAMP, 1/2" DOUBLE
8	5	8-10 F5OX-S	FITTING, 1/2" M JIC x 5/8" M O-RING
9	1	8 S6X-S	FITTING, TEE, 1/2" FM SWIVEL x 1/2" M JIC x 1/2" M JIC
10	2	8 R6X-S	FITTING, TEE, 1/2" MJIC x 1/2" MJIC x 1/2" FMJIC
11	13	10643-8-8	HOSE END, 1/2" FM JIC, SWIVEL
12	1	8 C6X-S	FITTING, 90° SWIVEL, 1/2" M JIC x 1/2" FM JIC
13	2	1_4 HP-S	FITTING, PLUG, HEX HEAD, 1/4" NPTF
14	5	8-8 FTX-S	FITTING, 1/2" M JIC x 1/2" M NPTF
15	1	8-8 F6X-S	FITTING, 1/2" FM JIC SWIVEL x 1/2" M NPTF
16	1	8-8 CTX-S	FITTING, 90°, 1/2" M JIC x 1/2" M NPTF
17	5	8 F5OX-S	FITTING, 1/2" M JIC x 1/2" M O-RING
18	1	7993	MOTOR, HYDRAULIC
19	2	8-16 F5OX-S	FITTING, 1/2" M JIC x 1" M O-RING
20	1	8 F65OX-S	FITTING, SWIVEL, 1/2" M O-RING x 1/2" FM JIC
21	1	8993	VALVE, 2-WAY DUMP
22	1	8993A	COIL, 12 VDC, DUMP VALVE

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
23	1	8 JTX-S	FITTING- 1/2" MJIC UNION TEE
24	2	10054	BOLT, 1/4" NC GRD.5 x 2 1/2" LG.
25	2	10009	WASHER, LOCK- 1/4"
26	2	10001	NUT, 1/4" NC
27	4	10030	SCREW, SOCKET HEAD CAP- 1/4" NC GRD.5 x 1 1/2" LG.
28	2	7236P	BOLT, SHCS, 3/8" NC x 1 1/2" LG. (GRD5)
29	1	7236	GEARBOX, SUPERIOR
30	1	7965	MOTOR, HYDRAULIC
31	1	7577	GEARBOX, FAIRFIELD
32	1	7977	MOTOR, HYDRAULIC
33	1	8055	VALVE, FLOW CONTROL
34	1	8055A	HANDLE, FLOW CONTROL
35	1	8043	VALVE, ELECTRIC FLOW CONTROL, NO RELIEF
36	10	451TC-8-RL	HOSE, HYDRAULIC, 1/2" (CUT TO LENGTH)

**OPTIONAL
ELECTRIC
FLOW CONTROL**



**OPTIONAL
FLOOR DRIVE
MOTOR & GEARBOX**

**CROSSFEED
MOTOR**

**FLOOR DRIVE
MOTOR**

**OPTIONAL
FLOOR DRIVE
MOTOR & GEARBOX**

NOTES:

1 - HYDRAULIC FITTINGS MAY VARY DEPENDING ON UNIT CONFIGURATION.

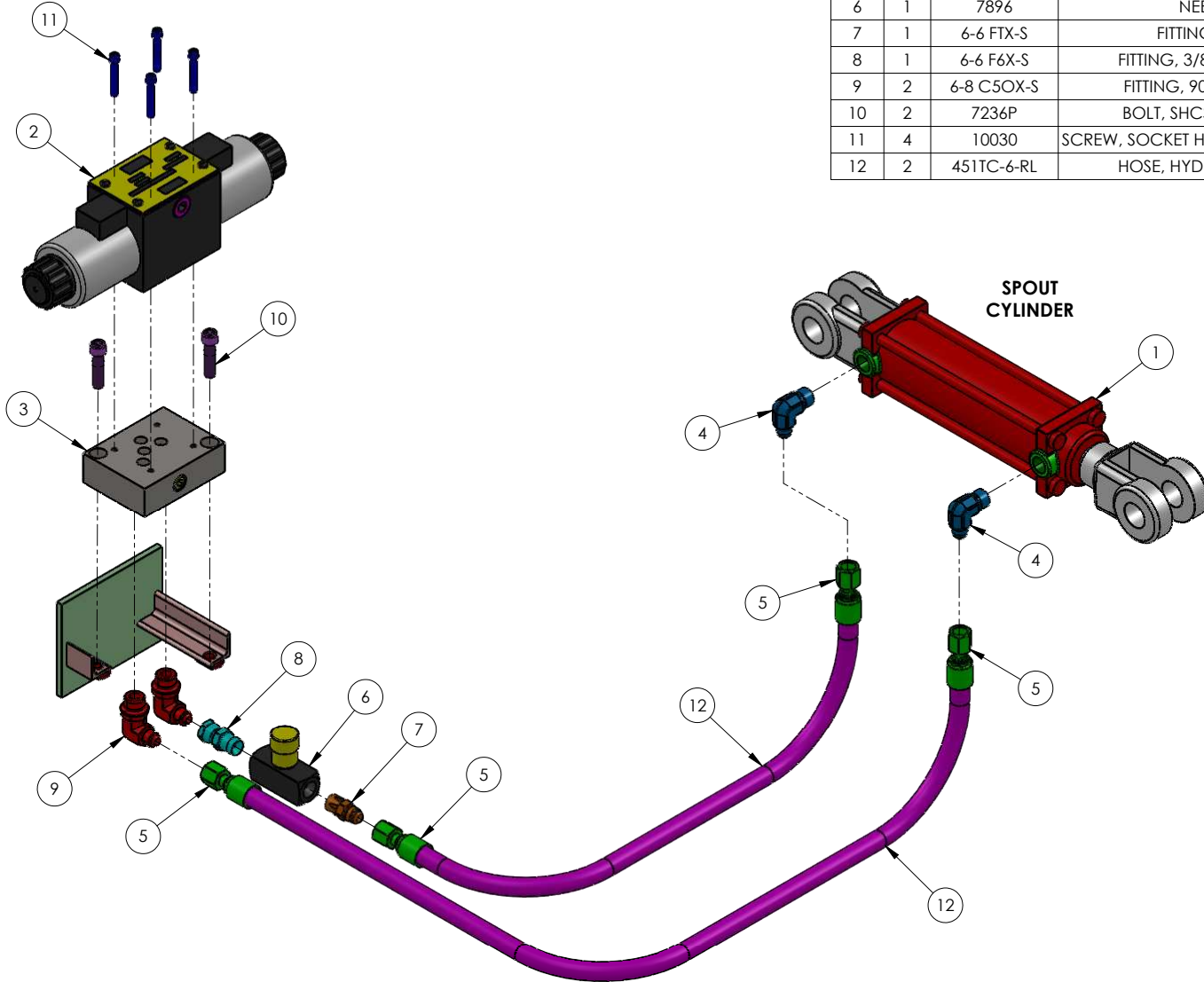
NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941		
		JOB #: MATERIAL: SEE BOM		
DRAWN BY:	11-2-18	ACCLURE	FINISH:	SIZE C
DESIGNED BY:	11-2-18		VENDOR:	PART NUMBER BW-035
APPROVED BY:			VENDOR P/N:	SCALE: 1:4 WEIGHT: lbs SHEET 1 OF 1

PROPRIETARY AND CONFIDENTIAL
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DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL: ±
ANGULAR: MACH ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL: ±

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	7925	CYLINDER, 2" X 6" STROKE
2	1	7894	VAVLE 4-WAY SOLENIOD
3	1	8071	SOLENOID BLOCK
4	2	6-6 CTX-S	FITTING, 90°, 3/8" M JIC x 3/8" M NPTF
5	4	10643-6-6	HOSE END, 3/8" x 3/8" FM JIC SWIVEL
6	1	7896	NEEDLE VALVE, 3/8" NPTF
7	1	6-6 FTX-S	FITTING, 3/8" MNPTF x 3/8" MJIC
8	1	6-6 F6X-S	FITTING, 3/8" FM JIC SWIVEL x 3/8" M NPTF
9	2	6-8 C5OX-S	FITTING, 90°, 3/8" M JIC x 1/2" M O-RING
10	2	7236P	BOLT, SHCS, 3/8" NC x 1 1/2" LG. (GRD5)
11	4	10030	SCREW, SOCKET HEAD CAP- 1/4" NC GRD.5 x 1 1/2" LG.
12	2	451TC-6-RL	HOSE, HYDRAULIC, 3/8" (CUT TO LENGTH)



NOTES:

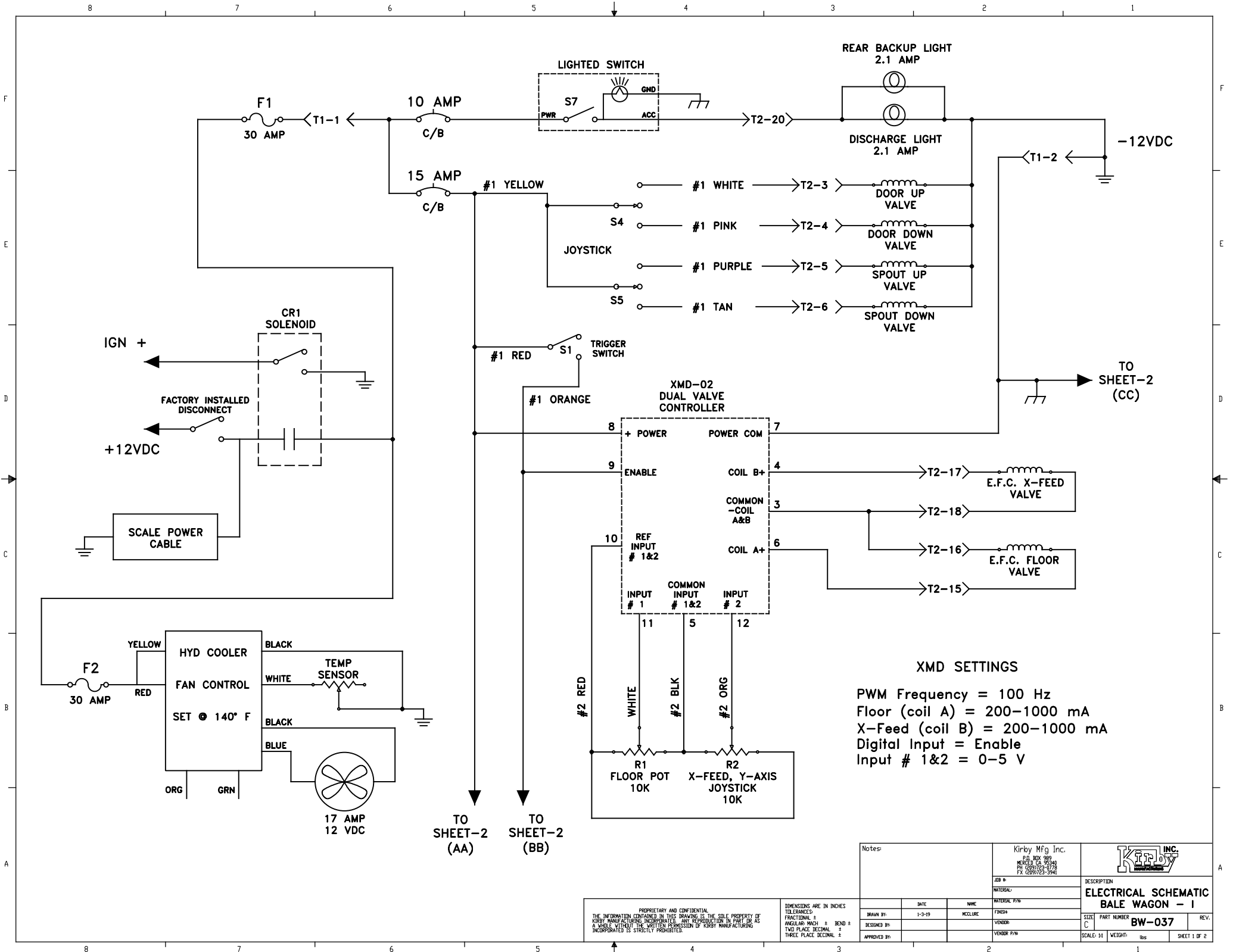
1 - HYDRAULIC FITTINGS MAY VARY DEPENDING ON UNIT CONFIGURATION.

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL: ±
 ANGULAR: MACH ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL: ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-9778 FX (209)723-3941			
		JOB #: MATERIAL: SEE BOM			
DATE	NAME	MATERIAL/FIN.	FINISH	DESCRIPTION	
DRAWN BY: 11-5-18	ACCLURE			HYDRAULIC, FOLDING SPOUT	
DESIGNED BY: 11-5-18		VENDOR		SIZE	PART NUMBER
APPROVED BY:		VENDOR P/N		C	BW-036
				SCALE: 1:3	WEIGHT: 27 lbs
				SHEET 1 OF 1	

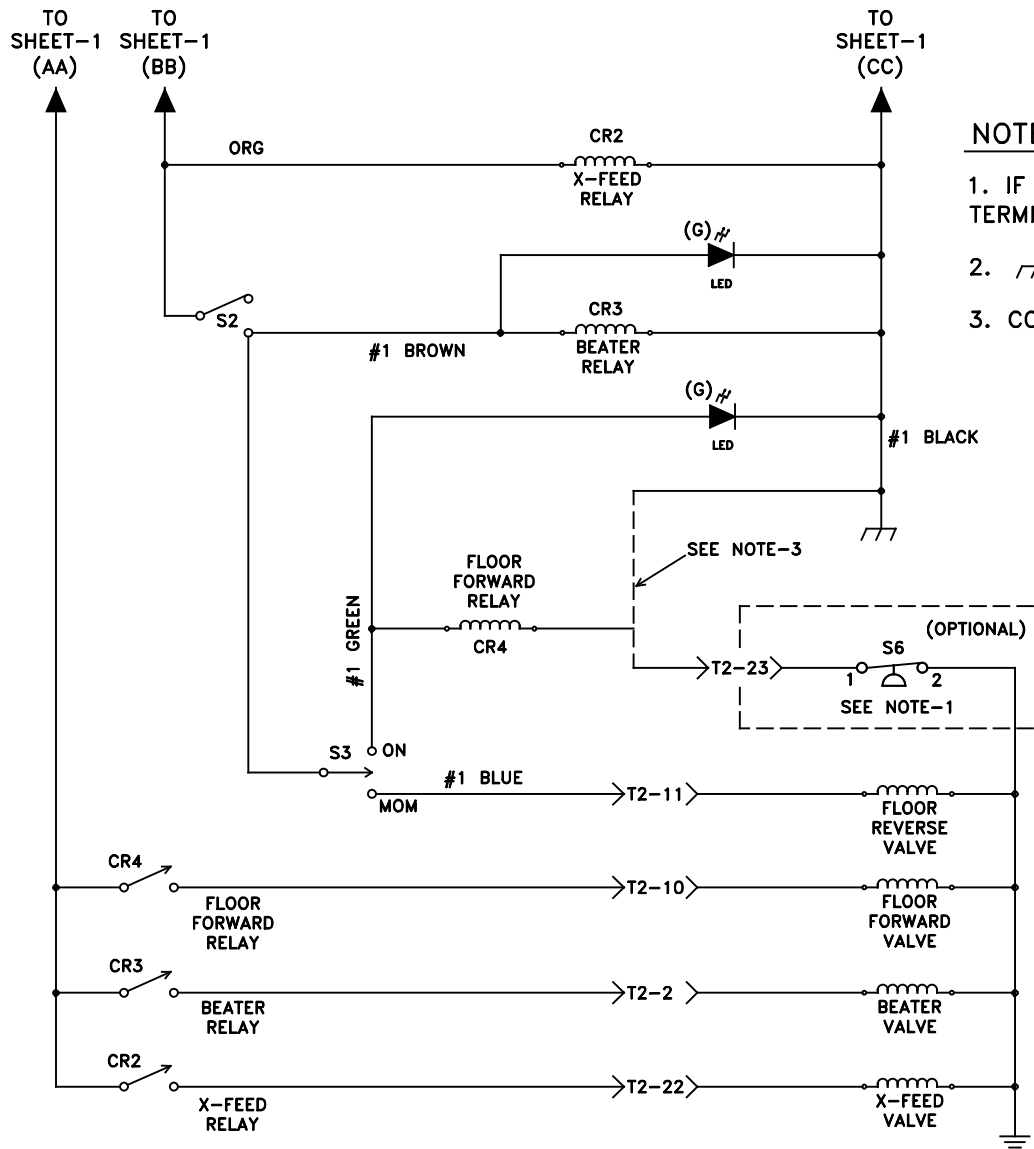


XMD SETTINGS
 PWM Frequency = 100 Hz
 Floor (coil A) = 200-1000 mA
 X-Feed (coil B) = 200-1000 mA
 Digital Input = Enable
 Input # 1&2 = 0-5 V

PROPRIETARY AND CONFIDENTIAL.
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Notes:		Kirby Mfg. Inc. P.O. Box 989 Merced, CA 95340 PH (209)765-0778 FX (209)765-3941			
JOB #		MATERIAL		DESCRIPTION	
DATE		MATERIAL P/N		ELECTRICAL SCHEMATIC	
DESIGNED BY:	DATE	NAME	W/C/LLR	FUNDA	REV.
APPROVED BY:					
VENDOR P/N		SCALE: 1/4"		WEIGHT: lbs	
				SHEET 1 OF 2	

ELECTRICAL SCHEMATIC
BALE WAGON - I
 PART NUMBER **BW-037**
 SCALE: 1/4" WEIGHT: lbs



NOTES: UNLESS OTHERWISE SPECIFIED

1. IF INSTALLED, PRESSURE SWITCH ON BEATERS HYDRAULIC CIRCUIT N.C. TERMINAL #1 & #2 (SET 200 PSI BELOW BEATER RELIEF)
2. INTERNAL CHASSIS GND FRAME GND
3. CONNECT TO CHASSIS GROUND ONLY IF NO PRESSURE SWITCH IS USED.

PIN #	COLOR	JOYSTICK WIRES
1	BLACK	GROUND
2	RED	BEATERS
3	BLUE	DOOR UP
4	ORANGE	DOOR DOWN
5	YELLOW	SPOUT UP
6	BROWN	SPOUT DOWN
7	RED/BLACK	
8	BLUE/BLACK	
9	ORANGE/BLACK	
10	YELLOW/BLACK	FLOOR FORWARD
11	BROWN/BLACK	FLOOR REVERSE
12	BLACK/RED	
13	BLUE/RED	
14	ORANGE/RED	
15	YELLOW/RED	BRAND FLOOR F/C COIL +
16	BROWN/RED	COIL -
17	BLACK/BLUE	BRAND X FEED COIL +
18	RED/BLUE	X FEED COIL -
19	ORANGE/BLUE	
20	YELLOW/BLUE	FEED LIGHT
21	BROWN/BLUE	
22	BLACK/ORANGE	X-FEED SOLENOID
23	RED/ORANGE	PRESSURE SWITCH
24	BLUE/ORANGE	
	YELLOW/ORANGE	

LOCATION	PART NO.	DESCRIPTION
S1	5485A2	ON/OFF TRIGGER SWITCH
S2	676-3000	ON/ON SWITCH
S3	676-3015	ON/OFF/MOM SWITCH
S4, S5	676-3010	MOM/OFF/MOM SWITCH
S6	8002	N.C. PRESSURE SWITCH OPTIONAL
CR2-CR4	73980	RELAY, 12V
CR1	8045A	IGNITION SOLENOID (OPTIONAL)
S7	4747	LIGHTED SWITCH

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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL: ±
 ANGULAR: MACH ± BEND ±
 TWO PLACE DECIMAL: ±
 THREE PLACE DECIMAL: ±

Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED, CA 95340 TEL: (209) 535-1778 FX: (209) 723-3941		
JOB #	DATE	NAME	WATERGUC P/N	
DRAWN BY:	1-3-19	MCCLURE	FINISH	DESCRIPTION ELECTRICAL SCHEMATIC BALE WAGON - II
DESIGNED BY:			VENDOR	
APPROVED BY:			VENDOR P/N	SIZE: PART NUMBER C BW-038
SCALE: 1:1			WEIGHT: lbs	SHEET 2 OF 2



COMMON SPARE PARTS FOR JOYSTICK CONTROLLER

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	4745	CIRCUIT BREAKER, 10-AMP (FEED LIGHT)
2	1	4748	CIRCUIT BREAKER, 15-AMP (JOYSTICK)
3	1	4747	SWITCH, AMBER, DUCK BILL
4	1	5485E	JOYSTICK, SINGLE AXIS
5	3	73980	* RELAY, 12V
6	1	22102F	ARMREST PAD, JOYSTICK BOX
7	1	676-3015	SWITCH, ON/OFF/MOM
8	1	676-3000	SWITCH, ON/OFF
9	2	676-3010	SWITCH, MOM/OFF/MOM
10	1	5484C	* DRIVER CARD, DOUBLE OUTPUT
11	1	70097794	KNOB, POTENTIOMETER
12	2	70117610	POTENTIOMETER, 10K OHM
13	1	5485A2	TRIGGER SWITCH

* NOT SHOWN

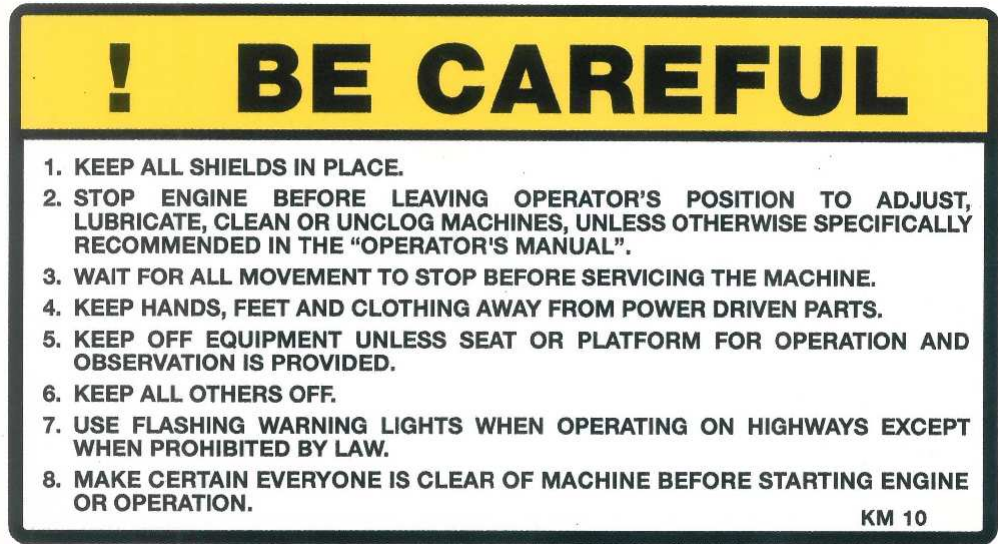
NOTES:

- 1 - UNIT SERIAL NUMBER NEEDED FOR ALL PART ORDERS.
- 2 - TO ORDER A SCALE HEAD (EZ 2500V), USE PART NO. 5280.
- 3 - TO ORDER A CABLE KIT FOR SCALE HEAD, USE PART NO. 5282.
- 4 - TO ORDER CABLE (15') FOR SCALE HEAD J-BOX, USE PART NO. 5282B
- 5 - TO ORDER POWER CORD (10' 4-WIRE) FOR SCALE HEAD, USE PART NO. 5282C.
- 6 - TO ORDER A COMPLETE JOYSTICK CONTROLLER ASSEMBLY, USE PART NO. BW-0016. FOR INDIVIDUAL COMPONENTS, USE SPARE PARTS LIST SHOWN ON DRAWING.

<p>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF KIRBY MANUFACTURING INCORPORATED. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF KIRBY MANUFACTURING INCORPORATED IS STRICTLY PROHIBITED.</p>		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: ± ANGULAR: MACH ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		Notes: Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941			
		DRAWN BY: 8-11-17 DESIGNED BY: APPROVED BY:		NAME: MCCURE FINISH: VENDOR: VENDOR P/N:		DESCRIPTION: TRUCK CAB COMPONENTS SIZE: C PART NUMBER: BW-039 SCALE: 1/2 WEIGHT: lbs SHEET 1 OF 1	



P/N KM07



P/N KM10



P/N KM35



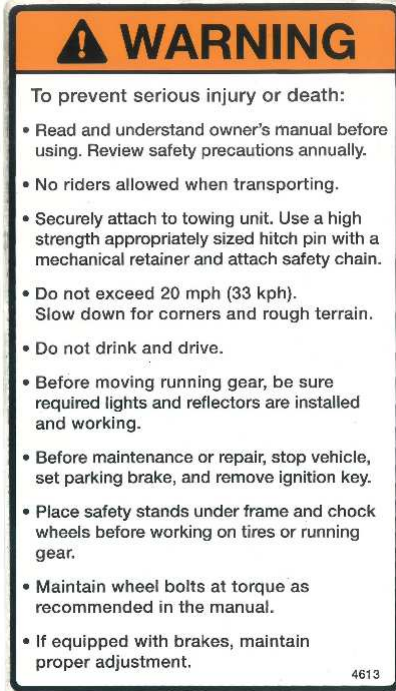
P/N KM27

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

<p style="text-align: center;">PROPRIETARY AND CONFIDENTIAL</p> <p style="font-size: small;">THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF KIRBY MANUFACTURING INCORPORATED. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF KIRBY MANUFACTURING INCORPORATED IS STRICTLY PROHIBITED.</p>		<p style="text-align: center;">DIMENSIONS ARE IN INCHES</p> <p style="font-size: x-small;">TOLERANCES: FRACTIONAL: ± ANGULAR: MACH ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±</p>		<p>Notes:</p>		<p>Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0278 FX (209)723-3941</p>		<p style="text-align: center;">Kirby INC.</p> <p style="text-align: center;">DESCRIPTION DECALS - I</p>	
		<p>DESIGNED BY: _____ DATE: _____ NAME: _____</p> <p>APPROVED BY: _____</p>		<p>MATERIAL: _____</p> <p>FINISH: _____</p> <p>VENDOR: _____</p> <p>VENDOR P/N: _____</p>		<p>SIZE: C</p> <p>PART NUMBER: BW-040</p> <p>SCALE: 3/2 WEIGHT: lbs SHEET 1 OF 1</p>			



P/N KM09



P/N 4613



P/N KM44



P/N KM62



P/N KM18

NOTE: UNIT SERIAL # NEEDED FOR ALL PART ORDERS

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DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL: ±
 ANGULAR: MACH ±
 TWO PLACE DECIMAL ±
 THREE PLACE DECIMAL: ±

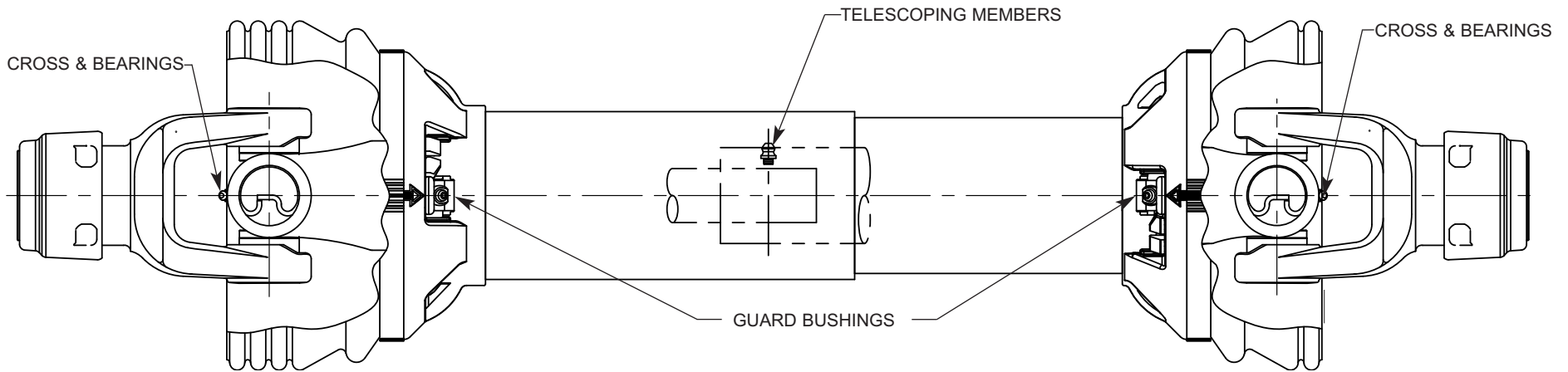
Notes:		Kirby Mfg Inc. P.O. BOX 989 MERCED CA 95340 PH (209)723-0778 FX (209)723-3941		Kirby INC.	
JOB #:		MATERIAL:		DESCRIPTION	
DRAWN BY:		FINISH:		DECALS - II	
DESIGNED BY:		VENDOR:		SIZE	PART NUMBER
APPROVED BY:		VENDOR P/N:		C	BW-041
				SCALE: 3:2	WEIGHT: lbs
				SHEET 1 OF 1	



Weasler®

DRIVE SHAFT LUBRICATING PROCEDURE

SERVICE INSTRUCTIONS



LUBRICATE ALL FITTINGS WITH A GOOD QUALITY LITHIUM SOAP COMPATIBLE E.P. GREASE MEETING THE N.L.G.I. #2 SPECIFICATIONS AND CONTAINING NO MORE THAN 1% MOLYBDENUM DISULFIDE.

AN E.P. GREASE MEETING THE N.L.G.I. #2 SPECIFICATIONS AND CONTAINING 3% MOLYBDENUM DISULFIDE MAY BE SUBSTITUTED IN THE TELESCOPING MEMBERS ONLY.

LOCATION	STANDARD INTERVAL	EXTENDED LUBE INTERVAL	LEVER ACTION PUMPS
CROSS & BEARINGS	*8 HRS.	50 HRS.	5
TELESCOPING MEMBERS	8 HRS.	50 HRS.	8-10
CE & NON-ROTATING GUARD BUSHINGS (1000 RPM MAX.)	8 HRS.	50 HRS.	5

**CONSTANT ANGLE APPLICATIONS MAY REQUIRE A LUBE INTERVAL OF 4 HOURS*

ROTATING GUARD BUSHINGS SHOULD BE LUBRICATED UPON REPLACEMENT

CAUTION!! REPLACEMENT PARTS ARE NOT LUBRICATED

REPLACEMENT PARTS MUST BE LUBRICATED AT TIME OF ASSEMBLY AND DURING USE PER THE LUBE RECOMMENDATIONS

UNCONTROLLED DOCUMENT 56-15144-06

Weasler Engineering, Inc.
P.O. Box 558, West Bend, WI 53095 USA
Tel: +1-262.338.2161, Fax: +1-262.338.3709
E-mail: oemsales@weasler.com
web site: www.weasler.com

Weasler Engineering BV
P.O. Box 266, 6600 AG, Wijchen, The Netherlands
Tel: +31 (0)24 64 89 100, Fax: +31 (0)24 64 89 109
E-mail: sales@weasler.nl
web site: www.weasler.com

Weasler Engineering Kft
P.O. Box 262, H6001, Kecskemet, Hungary
Tel: +36 (0)76 500 410, Fax: +36 (0)76 500 415
E-mail: sales@weasler.nl
web site: www.weasler.com

Webb Torque Specification Guidelines

The purpose of this publication is to assist users with safe installation and maintenance practices while maintaining optimum performance of their wheel-end equipment. If additional information is required, please refer to TMC Recommended Practices: 217D, 222C, 237A, 656, and 662.

Hub Piloted with Flange Nut (8 & 10 Stud Hubs)

Applied to M22 x 1.5 studs with two-piece flange nuts • Recommended torque oiled: 450 to 500 ft-lbs

Step 1. Place a drum pilot pad at the 12:00 o'clock position. Apply two drops of 30 weight oil between the nut and the nut flange, and two drops to the outermost 2 or 3 threads of the wheel stud. For corrosive environments, apply a light coating of anti-seize to the mounting pads of the hub as well as the pilot diameter of the brake drum to ease installation and removal.

Note: Avoid getting any lubricant on the mating surfaces of the hub flange, drum flange, or disc wheel mounting flange areas.

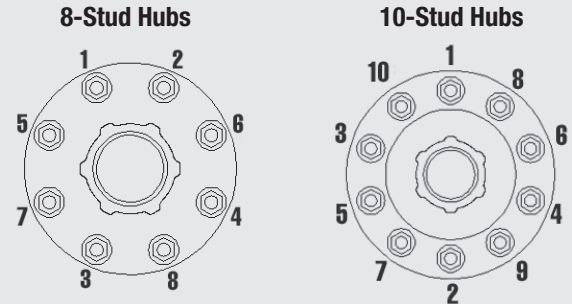
Step 2. Starting with the top nut, tighten all flange nuts to 50 ft-lbs using the sequence shown at right.

Step 3. Tighten all flange nuts to the recommended torque of 450-500 ft-lbs using the sequence shown at right.

Step 4. Check all disc wheels for proper positioning on pilots and proper seating against flange.

Recheck torque after first 50 to 100 miles of service or reference TMC RP 237A, "Torque Checking Guidelines For Disc Wheels" for individual fleet maintenance alternatives.

Tightening Sequence



Stud Piloted with Double Cap Nuts (6 & 10 Stud Hubs)

Applied to 3/4 - 16 and 1 1/8 - 16 fastener sizes • Recommended torque dry: 450 to 500 ft-lbs

Inner Cap Nuts

Step 1. Place a drum pilot pad at the 12:00 o'clock position. For corrosive environments, apply a light coating of anti-seize to the mounting pads of the hub as well as the pilot of the brake drum to ease installation and removal. **Note:** Avoid getting any lubricant on the mating surfaces of the hub flange, drum flange, or disc wheel mounting flange areas. Starting with the top nut, tighten all inner cap nuts to 50 ft-lbs using the sequence shown at the right.

Step 2. Tighten all inner cap nuts to the recommended torque of 450 to 500 ft-lbs, dry, using the sequence shown at right.

Outer Cap Nuts

Step 1. Place a drum pilot at the 12:00 o'clock position. Then, starting with the top nut, tighten all outer cap nuts to 50 ft-lbs using the sequence shown at right.

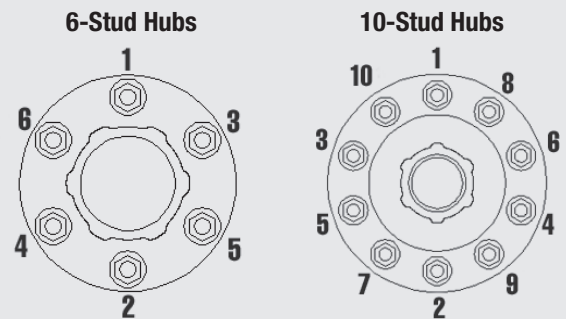
Step 2. Tighten all outer cap nuts to the recommended torque of 450 to 500 ft-lbs using the sequence shown at right.

Step 3. Check disc-wheels for proper positioning on pilots and proper seating against flange.

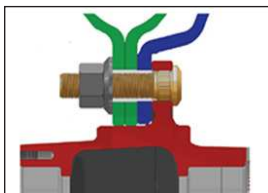
Recheck torque after first 50 to 100 miles of service or reference TMC RP 237A, "Torque Checking Guidelines For Disc Wheels" for individual fleet maintenance alternatives.

NOTE: In all applications where an aluminum disc wheel is to be installed, a special inner cap nut must be substituted for a standard inner cap nut.

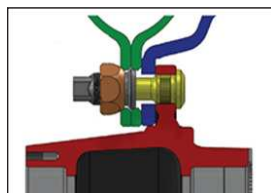
Tightening Sequence



Mount Identification



FN Mount (Flange Nut)



BSN Mount (Ball Seat Nut)



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Contact your local Webb Wheel Products supplier for training that can cut your operating costs!



Webb Torque Specification Guidelines

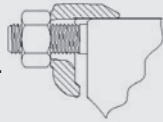
The purpose of this publication is to assist users with safe installation and maintenance practices while maintaining optimum performance of their wheel-end equipment. If additional information is required, please refer to TMC Recommended Practices: 217D, 222C, 237A, 656, and 662.

3, 5 and 6 Spoke Wheels

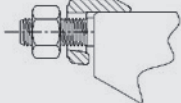
Recommended torque dry: 200 to 260 ft-lbs (Applies to ¾-10 fastener sizes)

Tighten clamps evenly in the sequence shown at right.

Heel-Less Clamps: Do not depend on a fulcrum at the bottom of the clamp to produce the force to wedge the rims. Heel of clamp does not touch wheel.



Heel-Type Clamps: Gap permissible but not required. If gap exceeds 1/4" or if clamp bottoms out before reaching 80% of recommended torque, check to insure that the proper clamps and spacers are being used.

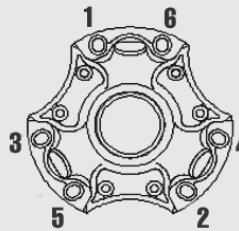


Recheck torque after first 50 to 100 miles of service or reference TMC RP 237A, "Torque Checking Guidelines For Disc Wheels" for individual fleet maintenance alternatives.

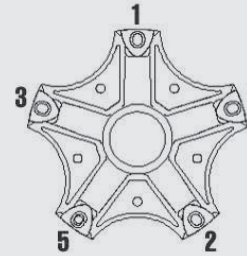
IMPORTANT: Do not overtorque! Rim clamp does not have to heel. Overtorquing can deform rim spacer and damage back flange.

Tightening Sequence

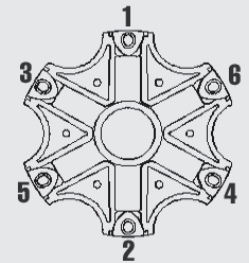
3-Spoke Wheel



5-Spoke Wheel



6-Spoke Wheel



Drive Studs and Hub Cap Bolt Torque

Recommended Dry Torque Values

Description	Thread Size	Torque Requirements ft-lbs Min/Max
Drive studs/ axle installation torque	1/2 - 20	80/90
	5/8 - 18	175/185
	3/4 - 16	250/275

Bolt-On ABS Ring

Recommended Dry Torque Values

Description	Thread Size	Torque Requirements ft-lbs Min/Max
Screws For Bolt-On ABS Ring	# 8 - 32	15/20

Brake Drum or Rotor Assembly Torque Requirements

For Mounting Bolts or Nuts: Grade 8 Fasteners

Thread Size	Tighten/Loosen	Torque Requirements ft-lbs Min/Max	Thread Size	Tighten/Loosen	Torque Requirements ft-lbs Min/Max
5/8 - 18	Rotate bolt or nut	150/200	3/4 - 16 wheels	Rotate nut	275/300
5/8 - 18 through holes	Rotate nut	150/175	3/4 - 16 hubs	Rotate nut	100/225
3/4 - 10	Rotate nut	250/275	1 - 14	Rotate nut	175/225



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Contact your local Webb Wheel Products supplier for training that can cut your operating costs!



Scan this QR code to get certified on brake drum selection and wheel-end installation, and we'll send a token of our appreciation.

