

ASSEMBLY INSTRUCTION MANUAL

10" Conventional Augers

Hopper Assembly & Caster Wheel

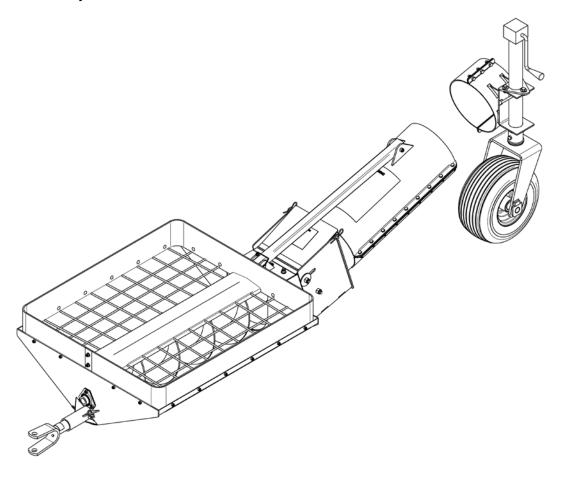




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Manufacturer's statement: for technical reasons Buhler Industries Inc. reserves the right to modify machinery design and specifications provided herein without any preliminary notice. Information provided herein is of descriptive nature. Performance quality may depend on soil fertility, applied agricultural techniques, weather conditions and other factors.



Introduction

The addition of this Farm King Conventional Hopper Assembly to your auger provides a more efficient method of conveying grain. Placing the hopper under the discharge of a grain bin permits transferring of grain to a waiting truck with minimal losses and does not require clean up of the area after use. This option will also permit you to use your conventional auger to unload trucks and wagons with minimal loss or spillage. The unique pivoting connection of the hopper to the auger allows the hopper to sit flat on the ground as the auger is adjusted for various heights of bins or trucks. This feature coupled with the constant velocity u-joint connection between the hopper and auger gives quiet vibration free operation. The additional jack/caster wheel option gives easy one-man maneuverability of the auger and allows raising of the hopper/auger assembly for lift free connecting to a towing vehicle.

Keep this manual handy for frequent reference. All new operators or owners must review this manual before using the equipment and at least annually thereafter. Contact your Farm King Dealer if you need assistance, information, or additional copies of this manual. Visit our website at www.farm-king.com for a complete list of dealers in your area.

Safety

Safety Instructions

Remember, YOU are the key to safety. Good safety practices not only protect you, but also the people around you. Make these practices a working part of your safety program. Be certain that everyone operating this equipment is familiar with the recommended operating and maintenance procedures and follows all the safety precautions. Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

The alert symbol is used throughout this manual. It indicates attention is required and identifies hazards. Follow the recommended precautions.



The safety alert symbol means...
ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



CAUTION

The caution symbol 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.



WARNING

The Warning Symbol indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.



DANGER

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



General Safety Instructions

- Have a first-aid kit available for use and know how to use it.
- Have a fire extinguisher available, stored in a highly visible location, and know how to use it.
- Wear appropriate protective gear. This list may include but is not limited to:
 - hard hat
 - protective shoes with slip resistant soles
 - protective glasses or goggles
 - heavy gloves
 - wet weather gear
 - hearing protection
 - respirator or filter mask
- Read and understand the Operator's Manual and all safety signs before operating, servicing, adjusting, repairing, or unplugging the equipment.
- Do not attempt any unauthorized modifications to your Farm King product as this could affect function or safety, and could affect the life of the equipment.
- Inspect and clean the working area before operating.
- Keep hands, feet, clothing, and hair away from moving parts.
- Ensure bystanders are clear of the area before operating.

Start-up Safety

- Do not let inexperienced operators or children run this equipment.
- Place all tractor and machine controls in neutral before starting.
- Do not operate inside a building unless there is adequate ventilation.
- Ensure all shields are in place and in good condition before operating.
- Stay clear of PTO shaft and machine when engaging PTO.
- The auger must be on a level surface and wheels free to move when raising or lowering. Everyone should be kept clear during these operations.

Operation Safety

- Do not permit riders.
- Do not wear loose fitting clothing during operation.
- · Empty the auger before moving to prevent upending.
- Do not allow anyone other than the operator close to the auger when in operation.
- Never stand under the auger while raising or lowering.
- Never raise the intake end of the auger above waist high, as the balance shifts forward, and the auger will tip over.
- Stay away from overhead obstructions and power lines during operation and transporting. Electrocution can occur without direct contact.



Transport Safety

- Review Transport Safety instructions in tractor manual before moving.
- Check with local authorities regarding transport on public roads. Obey all applicable laws and regulations.
- Do not tow equipment that does not have brakes at speeds over 20 mph (32 km/h).
- Do not tow equipment that does not have brakes that, when fully loaded, has a mass (weight) over 3,300 lb (1,497 kg) and more than 1.5 times the mass (weight) of the towing unit.
- Make sure the SMV (Slow Moving Vehicle) emblem and all the lights and reflectors that are required by the local highway and transport authorities are in place, are clean, and can be seen clearly by all overtaking and oncoming traffic.
- Never have the equipment in operation during transport.
- Take extreme caution in maneuvering on or around tight corners so as not to catch the end of the auger on trees, buildings, power lines, etc.
- When moving the auger on the road, always use a red flag, or if absolutely necessary to move at night, accessory lights for adequate warning to operators of other vehicles.
- Always travel at a safe speed.
- Inflate transport tires to recommended pressure.

Service and Maintenance Safety

- Stop engine, set brake, remove ignition key, and wait for all moving parts to stop before servicing, adjusting, repairing, or unplugging.
- Support the equipment with blocks or safety stands before working beneath it.
- Follow good shop practices including:
 - keep service area clean and dry
 - be sure electrical outlets and tools are properly grounded
 - use adequate light for the job.
- Use only tools, jacks, and hoists of sufficient capacity for the job.
- · Replace and secure all shields removed during servicing before operating.
- Use heavy leather gloves to handle sharp objects.
- Check hydraulics regularly for leaks. Use cardboard to look for leaks and use hand and eye
 protection.
- Relieve pressure on hydraulic system before repairing or adjusting.
- Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion, which may result in serious injury or death.

Storage Safety

- Store the unit in an area away from human activity.
- Do not permit children to play on or around the stored machine.
- Support the frame on stands and blocks to provide a secure base.
- When storing an auger, park it on level ground so that the bottom end will never be over its center of gravity.
- Block the wheels of the auger so that it will not move and tear the jack from it's mount.

Safety Signs

- Keep all safety signs clean and legible and replace any that are damaged or missing.
- When original parts are replaced, any safety signs affixed to those parts should be replaced as well. Replacement safety signs are available from your local dealer.

Installation

- To install safety signs, ensure area is clean and dry. Decide on the exact position before you remove the backing paper. Remove the smallest portion of the split backing paper and align over the specified area. Carefully press in place.
- Slowly peel back the remaining paper and smooth the remaining portion in place. Small air pockets can be pierced with a pin and smoothed out.
- Replace safety signs immediately should they become damaged, torn or illegible. Obtain replacements from your authorized dealer using the part numbers shown.







Assembly Instructions

Hopper Assembly

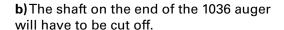
- 1. Block auger wheels. Support auger so that intake screen can be removed.
- 2. Remove intake screen.

(For C1036 augers, proceed to 3b)

3. a) If the serial number on the C1034 auger is prior to C1034D12000001, C1034TE12000001, or C1034E12000006, the shaft on the end of the auger will have to be cut off.

Cut the shaft so there is 2" (51 mm) remaining. Smooth and chamfer the end of the shaft to ease installation of the U-joint on the hopper assembly. Continue to step 4.

Auger ready for installation of hopper.



Cut the shaft so there is 2" (51 mm) remaining. Smooth and chamfer the end of the shaft to ease installation of the U-joint on the hopper assembly

c) Grind off the small rectangular bar at the end of the auger tube (see illustration). This will allow the half clamps to be installed properly.





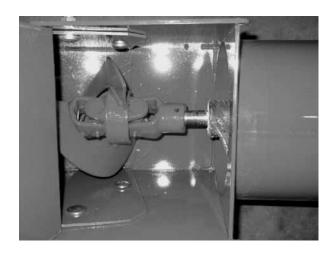
4. Slide two clamp halves onto auger tube.



5. Slide hopper assembly onto auger.



6. As the hopper is being slid over the auger, be sure to align hole in U-joint with hole in auger shaft (if present). On augers without a hole in the shaft, slide U-joint on shaft and use hole in U-joint as a pilot hole to drill shaft.



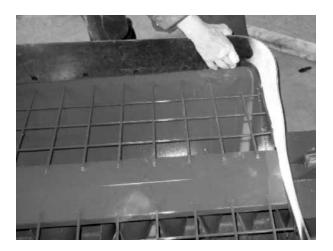
7. Insert 5/16" x 2-1/2" (8 x 64 mm) bolt into U-joint and shaft and secure with 5/16" (8 mm) locknut.



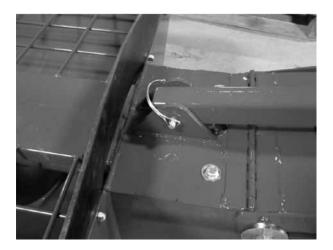
8. Slide clamp halves down to hopper and install the 3/8" x 1" (10 x 25 mm) bolts with flat washers and lock nuts. Adjust hopper to set flat (square) with the ground and tighten clamp bolts.



9. Install rubber hopper extension using the 1/4" x 1/2" (6 x 13 mm) carriage bolts provided.



10. Before transport of auger, bolt support bar in between tabs on upper half clamp using 3/8" x 2-1/2" (10 x 64 mm) bolt with lock nut. Use snap pin provided to secure the support bar to the hopper. Adjust height of hopper as needed to ensure pin fits correctly.



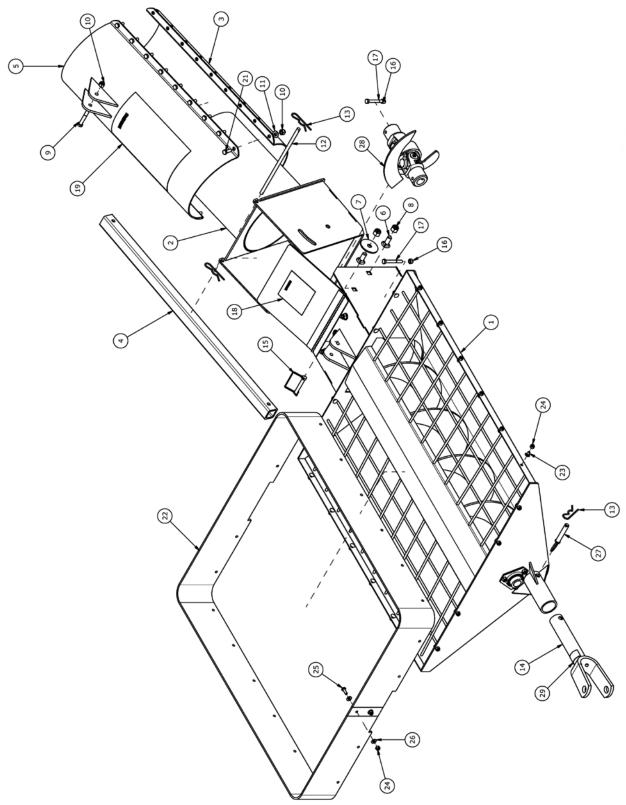
Caster Wheels

1. For installation of the caster wheel, check to see that the jack is fully retracted. Place the jack assembly on the right side of the auger tube. The jack assembly will mount below the gearbox on the 1034 PTO and electric drive augers. On other augers, place that jack in the position that best suits your needs. Once the location of the jack has been determined, place the loose clamp on the opposite side of the tube of the jack. Install the 3/8" x 1-1/2" (10 x 38 mm) bolts with lock washers and nuts. Loosely bolt the jack mount and loose clamp together. Before final tightening of the bolts in the clamps, check to make sure the jack is perpendicular to the ground. If the jack is angled, it will not caster correctly. Once it is verified that the jack is in the correct position and perpendicular to the ground, firmly tighten the bolts in the clamps.



Parts

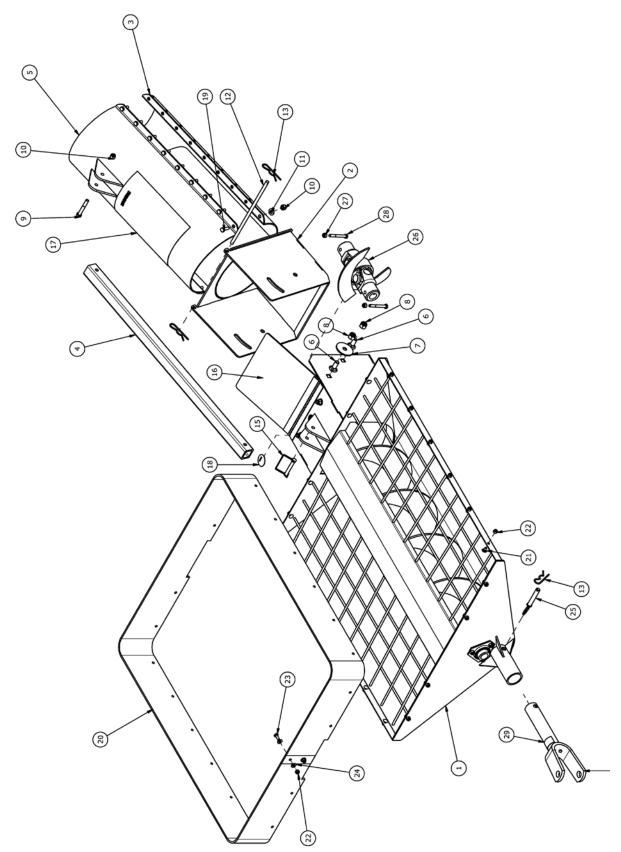
10" Conventional Hopper Kit (1" Diameter Auger Shaft)





ltem	Part Number	Description	Quantity
1	SZ000628	10" Hopper Assembly	1
2	SZ000632	Hopper Box Weldment	1
3	SZ992031024000	10"Tube Splice - 24"	1
4	SZ000635	Transport Lock Tube	1
5	SZ000634	Transport Lock Weldment	1
6	SZ126012	Bolt Crg 1/2-13 UNC 1-1/4 Short Neck	4
7	SZ9941718	Washer Flat, 0.53, 2.25 10Ga Galvanized	2
8	SZ125032	Nut Lock 1/2-13 UNC Nylock	4
9	SZ126072	Bolt HHCS 3/8-16 UNC 2-1/2 G5	1
10	SZ125030	Nut Lock 3/8-16 UNC Nylock	19
11	SZ127002	Washer Flat 3/8	18
12	SZ9901708	10" Hopper Access Door Pin	1
13	SZ128018	Pin Hair 1/8	3
14	SZ000639	Conventional Hopper Hitch	1
15	SZ000647	3/8" Snap Pin, 2-3/4"	1
16	SZ125035	Nut Lock 5/16-18 UNC Nylock	2
17	SZ126055	Bolt HHCS 5/16-18 UNC 2-1/2 G5	2
18	SZ06023	Decal, Warning, Keep Shield	1
19	SZ06010	Decal, Warning	1
20	SZ06057	Decal, Grease Gun Silhouette	1
21	SZ126065	Bolt HHCS 3/8-16 UNC 1" G5	18
22	SZ000638	10" Conventional Hopper Rubber Belting	1
23	SZ126003	Bolt, Carriage 1/4-20 UNC 1/2	20
24	SZ125028	Nut Lock 1/4-20 UNC Nylock	22
25	SZ126029	Bolt HHCS 1/4-20 UNC 3/4 G5	2
26	SZ127000	1/4 Flat Washer	4
27	SZ500111	1/2" x 2-3/4" Wheel Spindle Pin	1
28	SZ9699415	Hopper Joint Flighting w/ CV	1
29	SZ06528	Decal, Notice, Do NotTow Over 20 mph	1

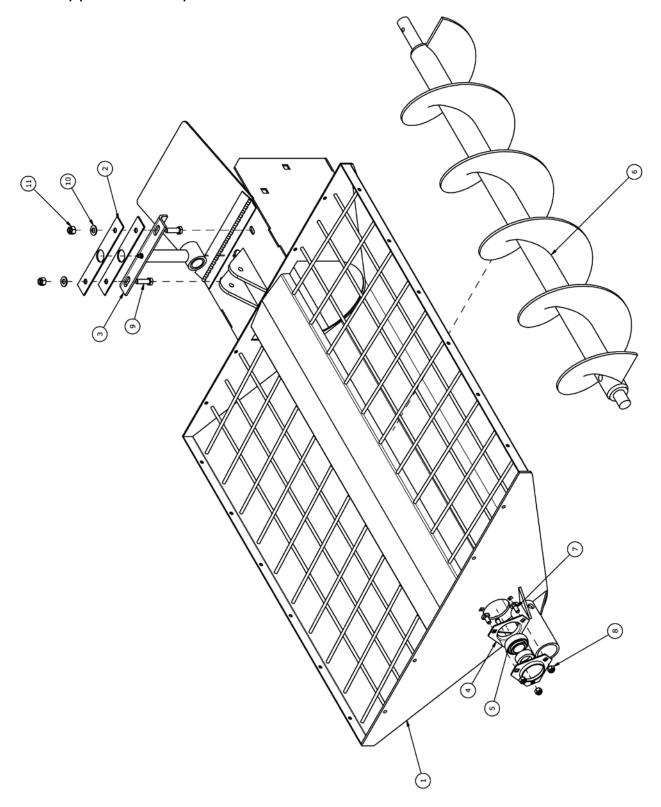
10" Conventional Hopper Kit (1-1/4" Diameter Auger Shaft)





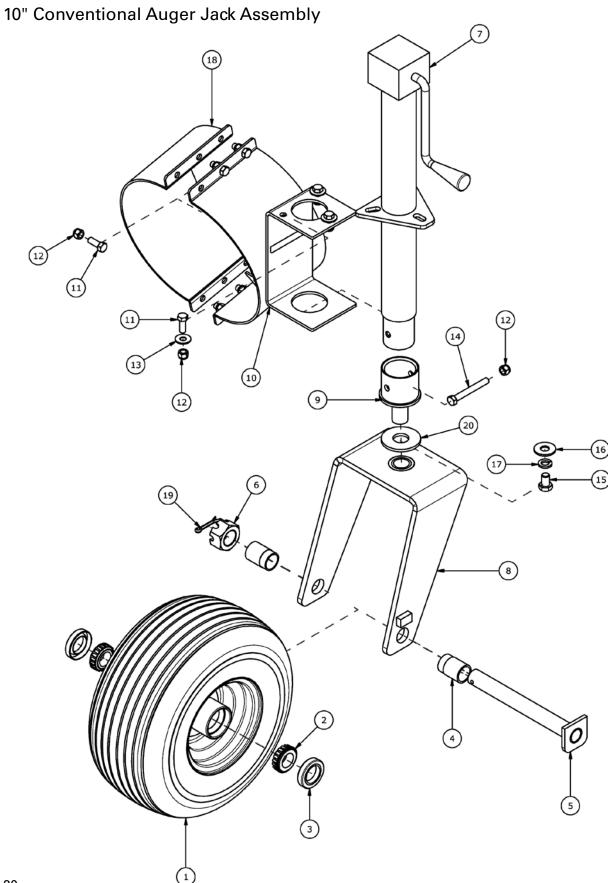
ltem	Part Number	Description	Quantity
1	SZ000628	10" Hopper Assembly	1
2	SZ000664	10" Hopper Box Weldment, FK	1
3	SZ992031024000	10" Tube Splice - 24"	1
4	SZ000635	Transport Lock Tube	1
5	SZ000634	Transport Lock Weldment	1
6	SZ126012	Bolt Crg 1/2-13 UNC 1-1/4 Short Neck	4
7	SZ9941718	Washer Flat, 0.53, 2.25 10Ga Galvanized	2
8	SZ125032	Nut Lock 1/2-13 UNC Nylock	4
9	SZ126072	Bolt HHCS 3/8-16 UNC 2-1/2 G5	1
10	SZ125030	Nut Lock 3/8-16 UNC Nylock	19
11	SZ127002	Washer Flat 3/8	18
12	SZ9901708	10" Hopper Access Door Pin	1
13	SZ128018	Pin Hair 1/8	3
14	SZ000639	Conventional Hopper Hitch	1
15	SZ000647	3/8" Snap Pin, 2-3/4"	1
16	SZ06023	Decal, Warning, Keep Shield	1
17	SZ06010	Decal, Warning	1
18	SZ06057	Decal, Grease Gun Silhouette	1
19	SZ126065	Bolt HHCS 3/8-16 UNC 1" G5	18
20	SZ000638	10" Conventional Hopper Rubber Belting	1
21	SZ126003	Bolt, Carriage 1/4-20 UNC 1/2	20
22	SZ125028	Nut Lock 1/4-20 UNC Nylock	22
23	SZ126029	Bit HHCS 1/4-20 UNC 3/4 G5	2
24	SZ127000	1/4 Flat Washer	4
25	SZ500111	1/2" x 2-3/4" Wheel Spindle Pin	1
26	SZ000678	CV Joint (SZ000677) w/ Flight	1
27	SZ125035	Nut Lock 5/16-18 UNC Nylock	2
28	SZ126055	BIt HHCS 5/16-18 UNC 2-1/2 G5	2
29	SZ06528	Decal, Notice, Do Not Tow Over 20 mph	1

10" Hopper Assembly





ltem	Part Number	Description	Quantity
1	SZ000618	Hopper Weldment	1
2	SZ9901752	Hopper Hanger Bearing Shim	2
3	SZ9901750	Weldment Bearing Hanger Hopper	1
4	SZ65052MSCI000	Flange, Bearing 52 mm 3 Bolt	2
5	SZ2017043	Bearing, 1" w/ Loose Lock Collar	1
6	SZ000629	10" Conventional Hopper Flighting	1
7	SZ126006	Bolt Carriage 5/16-18 UNC 3/4	3
8	SZ125035	Nut Lock 5/16-18 UNC Nylock	3
9	SZ126158	Bolt HHCS 3/8-16 UNC 1-1/4 G5	2
10	SZ127002	Washer Flat 3/8	2
11	SZ125030	Nut Lock 3/8-16 UNC Nylock	2





ltem	Part Number	Description	Quantity
1	966195	Tire w/ Wheel 15/600 x 6 x 4.4 Wheel	1
2	966776	Bearing Cone (L44643)	2
3	967497	Oil Seal - SE10	2
4	902505	Wheel Spacer Ø1-1/4" x 1-3/4"	2
5	902489	Wheel Yoke Pin Weldment	1
6	967498	1" Slotted Head Nut NF 14 (PI)	1
7	SZ000642	2000 LB Sidewind Round Jack	1
8	SZ000645	Wheel Yoke Weldment	1
9	SZ000730	Caster Pivot Weldment	1
10	SZ000640	Jack Half-clamp Mount	1
11	SZ126065	BLT HHCS 3/8-16 UNC 1" G5	9
12	SZ125030	Nut Lock 3/8-16 UNC Nylock	10
13	SZ127002	Washer Flat 3/8"	3
14	SZ126076	BLT HHCS 3/8" - 16 UNC 3" G5	1
15	SZ126088	BLT HHCS, 1/2" - 13 UNC 3/4" G5	1
16	SZ127003	Washer Flat 1/2"	1
17	SZ127012	Washer Lock, 1/2"	1
18	SZ992031210000	10" 3 Bolt Half-Clamp	1
19	9812433	3/16" x 1-1/2" Cotter Pin	1
20	SZ000736	Pivot UHMW Bearing	1

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