



Concrete Mixer

For

Skid Steer Loaders

Operator's Manual
Set-Up Assembly
Maintenance
Parts Information



Read this Manual Before Use

SAFETY	3-4
SAFETY DECAL LOCATIONS	5
INSTALLATION INSTRUCTIONS	6-7
OPERATING INSTRUCTIONS	8
ROUTINE MAINTENANCE	9
PARTS INFORMATION	10-11
GENERAL SPECIFICATIONS	12
BOLT TORQUE INFORMATION	13
NOTES	14
WARRANTY	15

REFERENCE INFORMATION

Write the serial number for your attachment in the spaces below (refer to earth auger’s operator’s manual for serial number location). Always refer to this serial number when calling for service or parts.

Attachment Serial Number.....

YOUR ATTACHMENTS DEALER

ADDRESS:

PHONE:

CONTACT:

NOTE: *Erskine Attachments LLC reserves the right to make improvements in design or changes in specifications at any time without notice and without incurring any obligations to install them on units previously sold.*

SAFETY

DO NOT use or perform maintenance on this machine until this manual has been read and understood. In addition, read the Operation and Maintenance Manual(s) pertaining to the attachment and the attachment carrier (“Loader”).

The user is responsible for inspecting the machine daily, and for having parts repaired or replaced when continued use of the machine would cause damage, excessive wear to other parts or make the machine unsafe for continued operation.

If an operating procedure, tool device, maintenance or work method not specifically recommended is used; you must satisfy yourself that it is safe for you and others. You must also ensure that the attachment will not be damaged or made unsafe by the procedures you choose.

Erskine Attachments LLC cannot anticipate every possible circumstance that might involve potential hazard. The safety messages found in this manual and on the machine are therefore not all inclusive.

The signal words **CAUTION**, **WARNING**, or **DANGER** are used to indicate hazards.

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

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

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

The word **IMPORTANT** is used in the text when immediate damage will occur due to improper technique or operation.

The word **NOTE** is used to convey information that is out of context with the manual text; special information such as specifications, techniques, reference information, and other information of a supplementary nature.

Improper operation can cause serious injury or death.

Pre-operation

- This attachment is designed for mixing cement, concrete, or mortar only. **NEVER** use this machine for any other purpose.
- Read the operator's manual for the "Skid Steer Loader." **NEVER** allow untrained people to operate.
- Operating instructions must be given to everyone before operating this attachment and at least once a year thereafter in accordance with OSHA regulations.
- **NEVER** exceed the maximum recommended input power or speed specifications for the attachment. Over-powering or over-speeding the attachment may cause personal injury and/or machine damage.
- Keep all shields, guards, and covers in place.
- Do not modify equipment or add attachments that are not approved by Erskine Attachments LLC.
- Use adequate safety warning lights and devices as required by local regulations. Obey all local laws and regulations regarding machine operation on public property.

Operation

- Always wear eye protection that meets ANSI z87.1 standard when using the attachment.
- Dust can be created when mixing cement. Prolonged exposure to dust can cause chronic and acute health problems. A NIOSH-approved respirator may be required.
- Hydraulic connections may be hot after use. Use gloves if connecting or disconnecting after use.
- Check and be sure all operating controls are in neutral before starting the engine.
- Keep people away from loader and attachment when in use. This attachment has rotating parts. **NEVER** lift load over people.
- **NEVER** operate near embankments or terrain that is so steep that rollover could occur.

Operation (continued)

- Concrete and its ingredients are extremely heavy. Always use attachment with a loader large enough to handle the weight and carry loaded mixer as low as possible to avoid loss of control or tipping.
- Always stay in the operator position when using the attachment.
- Before leaving the operators position, disengage hydraulic drive, lower the attachment to rest flat on the ground, stop engine, set park brake, and wait for all motion to stop.
- **NEVER** place hands near moving parts or clear debris while engine is running.

Avoid High Pressure Fluids Hazard



- Escaping fluid under pressure can penetrate the skin causing serious injury.
- Avoid the hazard by relieving the pressure before disconnecting hydraulic lines.
- Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks. Wear protective gloves and safety glasses or goggles when servicing or performing maintenance on hydraulic systems.
- 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.

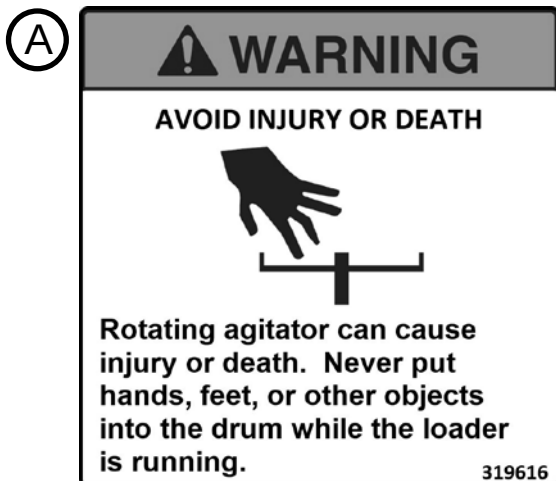
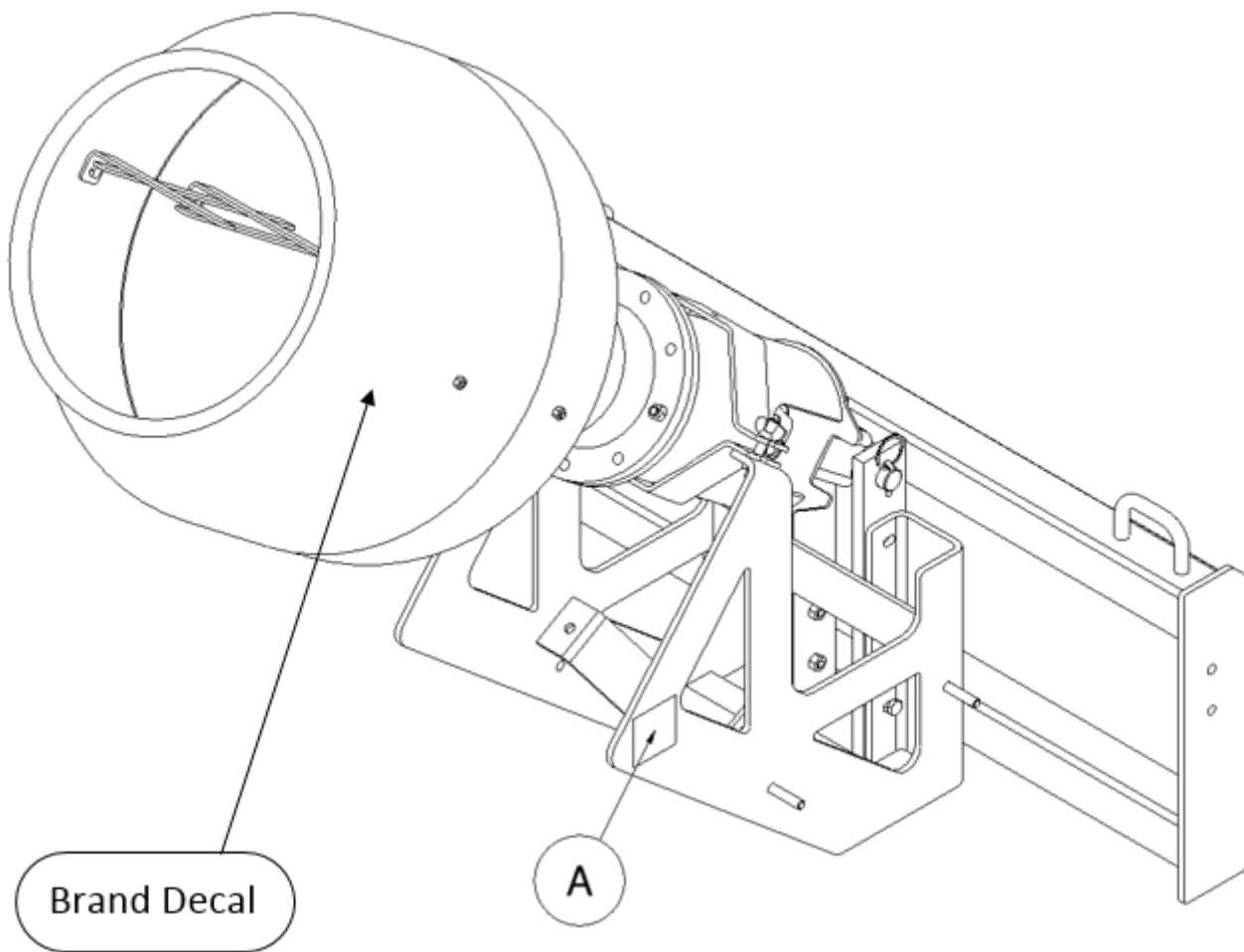
Maintenance

- **NEVER** make adjustments, lubricate, clean, or perform any service on the machine while it is in operation.
- Make sure the attachment is serviced on a daily basis. Improper maintenance can cause serious injury or death in addition to damage to the attachment and/or your equipment.
- Before working underneath raised attachment, make sure attachment is blocked up securely.

SAFETY DECAL LOCATIONS

Safety Decal Locations:

The locations of the safety decals are shown. If these decals are missing, damaged, or painted over they must be replaced. Call Erskine Attachments LLC (218-435-4045) for replacement decals.



Large Brand Decal

Location: On each side of mixing bowl

Quantity: 2

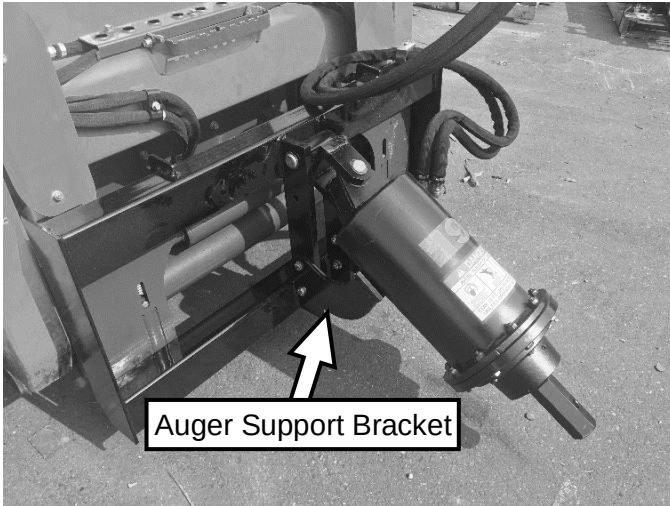
Part number: 319616

Location: On each side of support frame

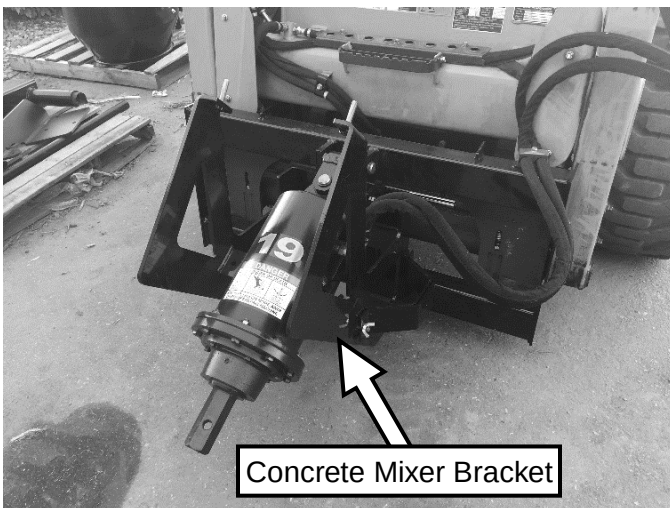
Quantity: 2

INSTALLATION INSTRUCTIONS

Mount the earth auger attachment on the loader using the instructions found in the attachment manual. Use the following procedure to install the concrete mixer kit on the attachment for user operation.



1. Park the loader and attachment on a solid level surface, fully lower the boom, set the park brake, and shut off the engine.



2. Remove the auger support bracket from the frame and replace it with the concrete mixer bracket. Bolt the concrete mixer bracket to frame using the top and bottom hole.



3. Remove the wing nuts securing the concrete mixer support brackets in the storage position on the side of the concrete mixer frame.

INSTALLATION INSTRUCTIONS

4. Lift the auger drive unit and set the first bracket in place over the bolts. This step may require two people.



5. Lower the auger drive unit onto the first bracket and install the second bracket on top of the drive unit. Use the wing nuts to fasten the brackets and secure the auger drive unit in place.



6. Install the mixing bowl by sliding it over the auger shaft and fastening it with a 3/4" x 4.5" bolt and lock nut. Tighten the bolt and nut to the proper torque (see "Bolt Torque Information" on page 13 of this manual).



7. The concrete mixer is now ready for operation. Use the reverse order of the above instructions to remove the concrete mixer kit from the earth auger attachment.

OPERATING INSTRUCTIONS

IMPORTANT: Read and understand earth auger owner's manual before operating the concrete mixer attachment.

IMPORTANT: Follow instructions from your concrete supplier for mix information.

1. Load the concrete mixer by adding material with a shovel or by emptying bagged concrete mix directly into the bowl.

⚠ WARNING Never load the concrete mixer while it is rotating. Getting hands or tools caught in rotating parts can lead to serious injury or death.

⚠ WARNING Check the concrete MSDS and follow all safety precautions while handling concrete. Depending on the mixture, a respirator or other PPE may be required to protect against inhalation of respirable silica dust or skin contact with wet concrete.

2. Activate the loader's auxiliary hydraulic system to start the mixer rotating. (See loader's operator's manual for auxiliary hydraulic controls instructions.)

3. Add water as needed until correct consistency has been reached. (See concrete mix instructions to determine correct quantities.)

4. Pour the concrete out of the mixer by using the loader to tilt the mixer forward.

⚠ WARNING To avoid injury or death from tipping, keep the concrete mixer as low as possible while pouring.

⚠ WARNING Keep people away from the loader and attachment while pouring. NEVER lift the concrete mixer directly over people.

5. Clean the concrete mixer thoroughly with water and a brush after each use. Do not allow concrete to harden inside the drum. The concrete mixer works best when the inside of the drum is clean and smooth.

ROUTINE MAINTENANCE

⚠ WARNING Lower the attachment to the ground, shut down the engine, relieve the hydraulic pressure to the attachment, wait for all motion to stop, and set park brake before leaving the operator's seat to perform service of any kind.

It is the operator's responsibility to make daily inspections of the attachment and loader for damage, loose bolts, fluid leaks, or anything else that could cause a potential service or safety problem. Preventive maintenance is the easiest and least expensive type of maintenance.

IMPORTANT: Bolts and set screws can loosen after initial usage. After first hour of operation check all bolts and set screws.

DAILY INSPECTION

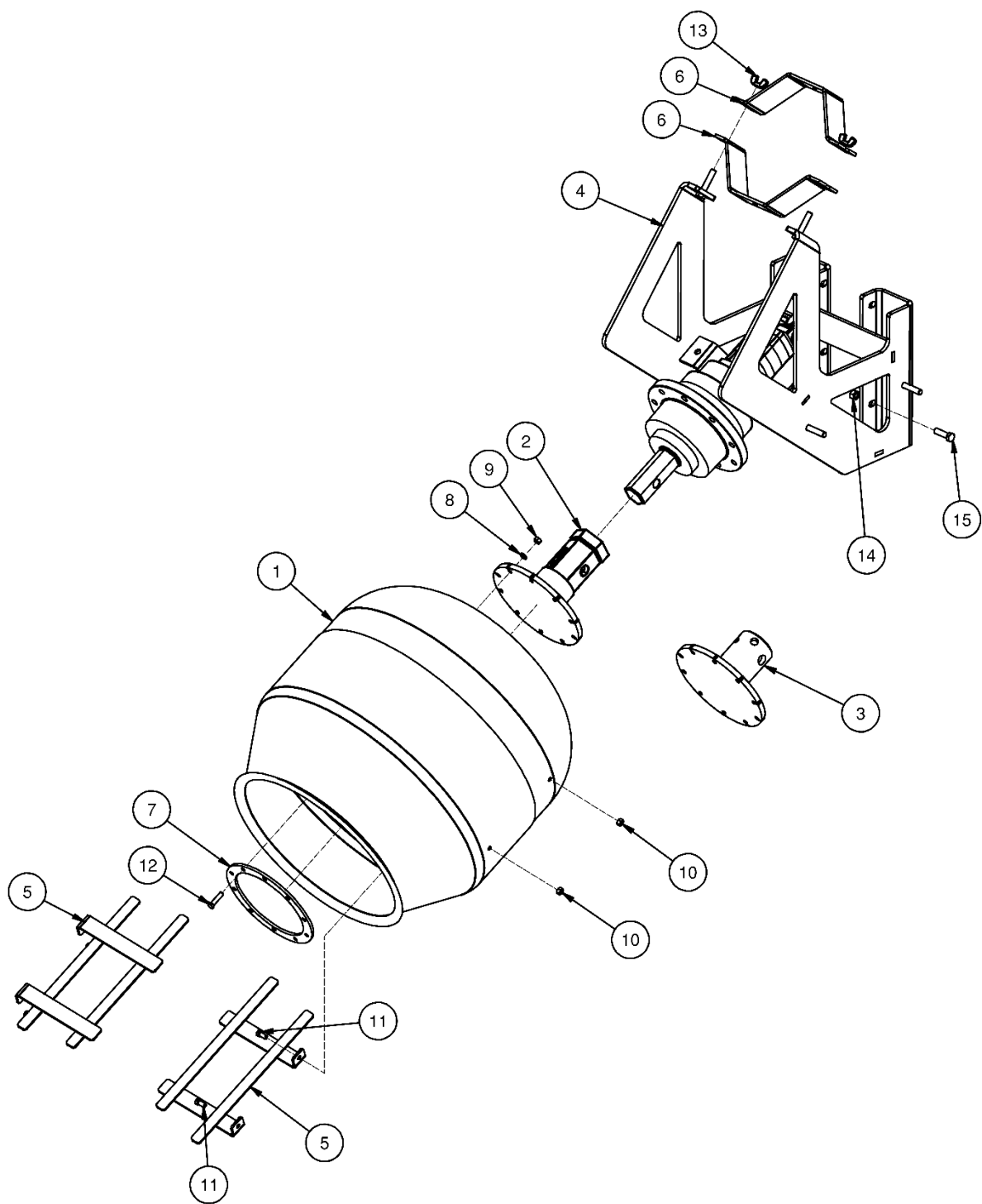
Check the following items at least **ONCE A DAY** before operating the mixer:

1. Check mixing bowl and paddles for damage. Replace if necessary.
2. Check for loose or missing hardware. Tighten or replace if necessary.
3. Check for damaged or missing decals. Replace if necessary.
4. Check for damaged or leaking hydraulic hoses or fittings. Tighten or replace if necessary.

CONCRETE MIXER PARTS INFORMATION

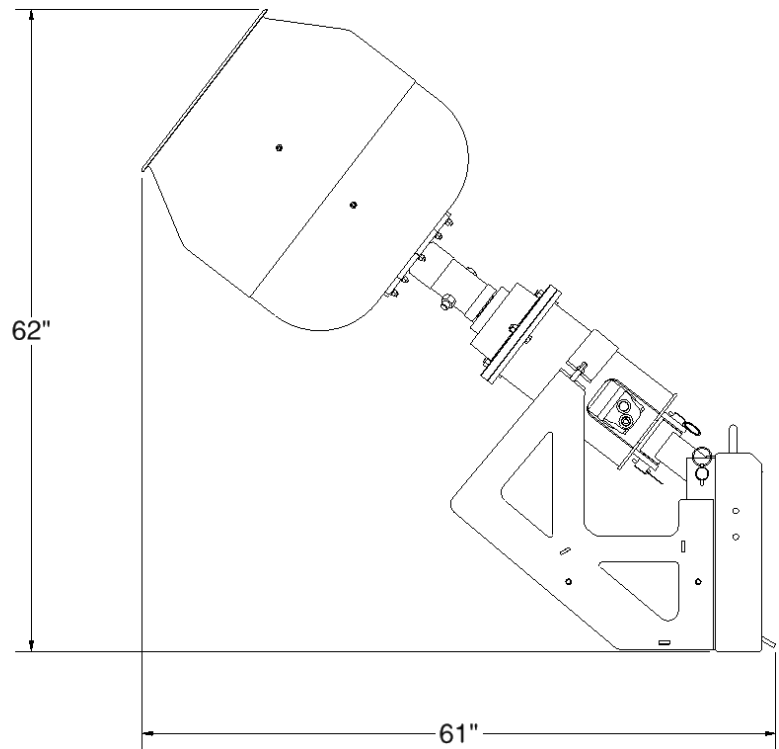
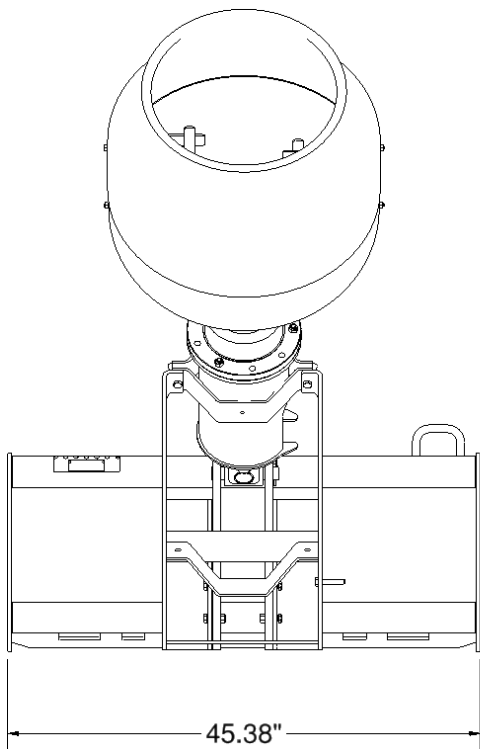
ITEM	QTY	PART NO.	DESCRIPTION	STOCK NO.
1	1	319600	MIXING BOWL W/A	
2	1	319601	HEX COLLAR W/A	2" HEX PKG ONLY (P/N 330763)
3	1	319602	ROUND COLLAR W/A	2-9/16" RND PKG ONLY (P/N 330764)
4	1	330797	CRADLE W/A	
5	2	319603	MIXER W/A	
6	2	330821	BRKT CRADLE PAINTED	(UNPAINTED 319615)
7	1	319610	PLATE RETAINER RING Z	
8	10	103880	WASHER LOCK	3/8"
9	10	36306	NUT HEX FULL	3/8 NC GR 5
10	4	37212	NUT REV LOCK	3/8 NC GR 5
11	4	13103	BOLT HEX	3/8 X 3/4 NC GR 5
12	10	103879	BOLT HEX	3/8 X 1-1/2 NC GR 5
13	2	330832	NUT WING	1/2 NC GR 5
14	2	37214	NUT REV LOCK	1/2 NC GR 5
15	4	13210	BOLT HEX	1/2 X 1-3/4 NC GR 5

CONCRETE MIXER PARTS INFORMATION



GENERAL SPECIFICATIONS

Maximum Bowl Capacity	47 gallons (6.3 cu ft)
Operating Weight (concrete mixer kit ONLY)	220 lbs.
Hydraulic Flow Required	See earth auger manual
Auger Output Shaft	2" Hex or 2-9/16" Round
Recommended Speed	20 rpm



All dimensions are in INCHES.

BOLT TORQUE INFORMATION

Torque-Tension Relationships for SAE J429 Grade Bolts

Nominal Thread Size	SAE J429 Grade 2			SAE J429 Grade 5			SAE J429 Grade 8		
	Clamp Load (lbs)	Tightening Torque		Clamp Load (lbs)	Tightening Torque		Clamp Load (lbs)	Tightening Torque	
		K = .15	K = .20		K = .15	K = .20		K = .15	K = .20
Unified Coarse Thread Series									
1/4-20	1,300	49 in-lbs	65 in-lbs	2,000	75 in-lbs	100 in-lbs	2,850	107 in-lbs	143 in-lbs
5/16-18	2,150	101	134	3,350	157	210	4,700	220	305
3/8-16	3,200	15 ft-lbs	20 ft-lbs	4,950	23 ft-lbs	31 ft-lbs	6,950	32.5 ft-lbs	44 ft-lbs
7/16-14	4,400	24	30	6,800	37	50	9,600	53	70
1/2-13	5,850	36.5	49	9,050	57	75	12,800	80	107
9/16-12	7,500	53	70	11,600	82	109	16,400	115	154
5/8-11	9,300	73	97	14,500	113	151	20,300	159	211
3/4-10	13,800	129	173	21,300	200	266	30,100	282	376
7/8-9	11,425	125	166	29,435	321	430	41,550	454	606
1-8	15,000	187.5	250	38,600	482.5	640	54,540	680	900
Unified Fine Thread Series									
1/4-28	1,500	55 in-lbs	75 in-lbs	2,300	85 in-lbs	115 in-lbs	3,250	120 in-lbs	163 in-lbs
5/16-24	2,400	112	150	3,700	173	230	5,200	245	325
3/8-24	3,600	17 ft-lbs	22.5 ft-lbs	5,600	26 ft-lbs	35 ft-lbs	7,900	37 ft-lbs	50 ft-lbs
7/16-20	4,900	27	36	7,550	42	55	10,700	59	78
1/2-20	6,600	41	55	10,200	64	85	14,400	90	120
9/16-18	8,400	59	79	13,000	92	122	18,300	129	172
5/8-18	10,600	83	110	16,300	128	170	23,000	180	240
3/4-16	15,400	144	193	23,800	223	298	33,600	315	420
7/8-14	12,610	138	184	32,480	355	473	45,855	500	668
1-12	16,410	205	273	42,270	528	704	59,670	745	995

Clamp load estimated as 75% of proof load for specified bolts.

Torque values for 1/4 and 5/16 inch series are in inch-pounds. All other torque values are in foot-pounds.

Torque values calculated from formula $T = KDF$

where: $K=0.15$ for "lubricated" conditions

$K=0.20$ for "dry" conditions

This image shows a full page of blank, lined paper. It features approximately 28 horizontal black lines spaced evenly apart, typical of notebook paper. The lines extend across the entire width of the page, leaving small margins at the top and bottom. There are no vertical lines, text, or other markings present.



LIMITED WARRANTY

Erskine Attachments, LLC warrants each new machine manufactured by us to be free from defects in material and workmanship for a period of twenty-four (24) months from date of delivery to the original purchaser.

Our obligation under this warranty is to replace free of charge, at our factory or authorized dealership, any part proven defective within the stated warranty time limit.

All parts must be returned freight prepaid and adequately packaged to prevent damage in transit.

This warranty does not cover:

1. New products which have been operated in excess of rated capacities or negligence
2. Misuse, abuse, accidents or damage due to improperly routed hoses
3. Machines which have been altered, modified or repaired in any manner not authorized by our company
4. Previously owned equipment
5. Any ground engaging tools in which natural wear is involved, i.e. tooth tips, cutting teeth, etc
6. Normal maintenance
7. Fork tines
8. Hydraulic motors that have been disassembled in any manner

In no event will the Sales Representative, Dealership, Erskine Attachments, LLC, or any other company affiliated with it or them be liable for incidental or consequential damages or injuries, including but not limited to the loss of profit, rental or substitute equipment or other commercial loss. Purchaser's sole and exclusive remedy being as provided here in above.

Erskine Attachments, LLC must receive immediate notification of defect and no allowance will be made for repairs without our consent or approval.

This warranty is in lieu of all other warranties, express or implied by law or otherwise, and there is no warranty of merchantability or fitness purpose.

No agent, employee, or representative of Erskine Attachments, LLC has any authority to bind Erskine Attachments, LLC to any warranty except as specifically set forth herein. Any of these limitations excluded by local law shall be deemed deleted from this warranty; all other terms apply.

This warranty may not be enlarged or modified in any manner except in writing signed by an executive officer of Erskine Attachments, LLC to improve its products whenever it is possible and practical to do so. Erskine Attachments, LLC reserves the right to make changes and or add improvements at any time without incurring any obligation to make such changes or add such improvements to products previously sold.

Erskine Attachments, LLC
P.O. Box 1083 Alexandria, MN 56308
Phone (218) 435-4045



P/N 330822
Erskine Attachments LLC

Date Printed: 5/31/2022

Printed in U.S.A.