



Assembly - Operating Instructions - Parts Manual For



Skid Mixer Attachment

SAFETY ALERTS

! SAFETY ALERT SYMBOL This safety alert symbol is used to attract your attention

! PERSONAL SAFETY IS INVOLVED When you see this symbol, **PAY EXTRA ATTENTION, BECOME ALERT - BE SURE TO HEED ITS MESSAGE.** Failure to do so may lead to serious personal injury or damage may occur.

! WARNINGS AND SAFETY INSTRUCTION If these warnings and safety instructions are not read and carefully followed, serious personal injury could occur.

WARNINGS

1. Do not use, start, or attempt to operate this machine until all of the instructions have been read and fully understood.
2. NEVER allow anyone to operate this machine unless the person is well acquainted with these rules of safe operation.
3. NEVER operate this machine without all guards in place and firmly attached to the machine.
4. Make certain that the mixing drum is clear of obstructions.
5. Keep all people (except operator) a minimum of five (5) feet away from the machine during operation.
6. **DO NOT OVERLOAD THE MIXER**
7. **DO NOT OPERATE** with persons standing under mixer attachment when raised.
8. **DO NOT** put hands into mixer when operating.

SAFETY INSTRUCTIONS

For the safety of yourself and others around you, it is extremely important that you observe the following notes.

1. Keep hands and clothing away from moving parts at all times.
2. **DO NOT** operate this machine under the influence of alcohol or while taking medication that impairs the senses or reactions.
3. Make certain that the work area around the machine is clear of debris and obstructions to prevent tripping and/or falling onto the machine.
4. Keep all unauthorized and untrained people away from the machine at all times.
5. **NEVER** let the mixer run unattended even for a brief moment.
6. Only use or operate the mixer on level ground to prevent tipping over.
7. **DO NOT** overreach while working with the mixer. Keep proper footing and balance at all times when loading or unloading the mixer.
9. **NEVER** allow children or inexperienced operators to operate or repair the mixer.
10. Use only factory authorized parts for replacement
11. Keep these operating instructions with the machine at all times.
12. **ALWAYS** wear safety glasses and safety shoes when operating and moving equipment.
13. **SAFETY DECALS** - Replace missing or damaged safety decals.

OPERATION & MAINTENANCE

A. LUBRICATION: There are grease fittings on all models. Apply any type EP grease. Apply grease until grease begins to come out of the bushings.

LUBRICATE ALL FITTINGS BEFORE USE.

B. GENERAL: Check all screws for tightness before each use especially those securing guards and drive mechanisms.

C. THOROUGH CLEANING OF THE MIXER IS RECOMMENDED AND WILL ADD TO THE SERVICE LIFE OF THE MACHINE

D. CONCRETE MIXING

! CAUTION: DO NOT insert sharp objects into the plastic mixing drum. Doing so will damage the drum.

! WARNING: KEEP HANDS AWAY FROM MOVING PARTS.

BEFORE OPERATING THE SKID MIXER

WARNING

Operator must have instructions before running the machine. Untrained operators can cause injury or death.

SAFE OPERATION NEEDS A QUALIFIED OPERATOR

A QUALIFIED OPERATOR MUST DO THE FOLLOWING:

- ◆ UNDERSTAND THE WRITTEN INSTRUCTIONS, RULES, AND REGULATIONS

- ◆ HAVE TRAINING WITH ACTUAL OPERATION

Operator training must consist of a demonstration and verbal instruction.

The new operator must start in an area without bystanders and use all controls until he can operate the loader safely under all conditions of the work area. Always fasten seat belt before operating.

- ◆ KNOW THE WORK CONDITIONS

For each material to be handled, the operator must know how to avoid exceeding the rated operating capacity of the loader. For example, in handling certain loose material with a given bucket, he must know whether he can safely take a full load, or only a part of a bucket load.

The operator must know any prohibited uses or work areas, for example, he needs to know about excessive slopes.

Wear tight fitting clothing. Always wear safety glasses when maintaining or servicing loader.

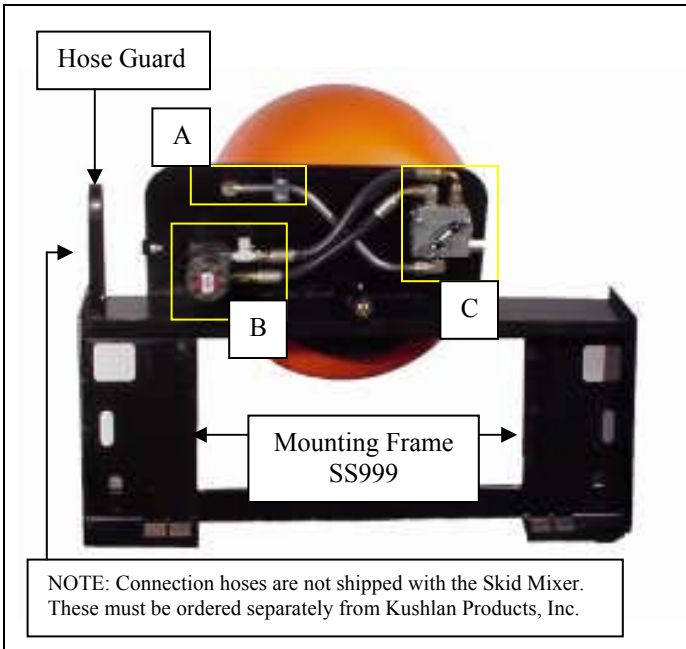
- ◆ For an operator to be qualified, he must not use drugs or alcoholic drinks, which impair his alertness or coordination while working. An operator who is taking prescription drugs must get medical advice to determine if he can safely operate a machine.

FIRE PREVENTION

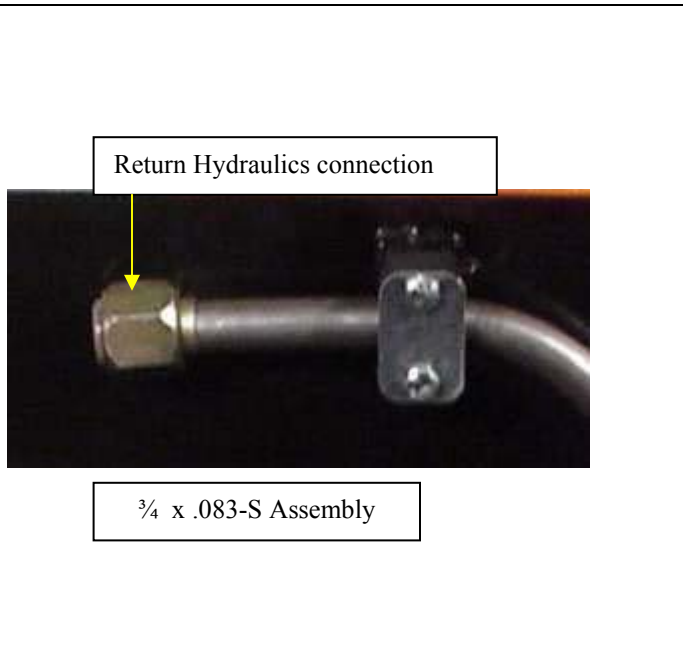
The loader has several components that are at high temperature under normal operating conditions. The primary source of high temperatures is the engine and exhaust system. The electrical system, if damaged or incorrectly maintained, can be a source of arcs or sparks.

Flammable debris (leaves, straw, etc.) must be removed regularly. If the flammable debris is allowed to accumulate, it will increase the fire hazard. The loader must be cleaned as often as necessary to avoid this accumulation.

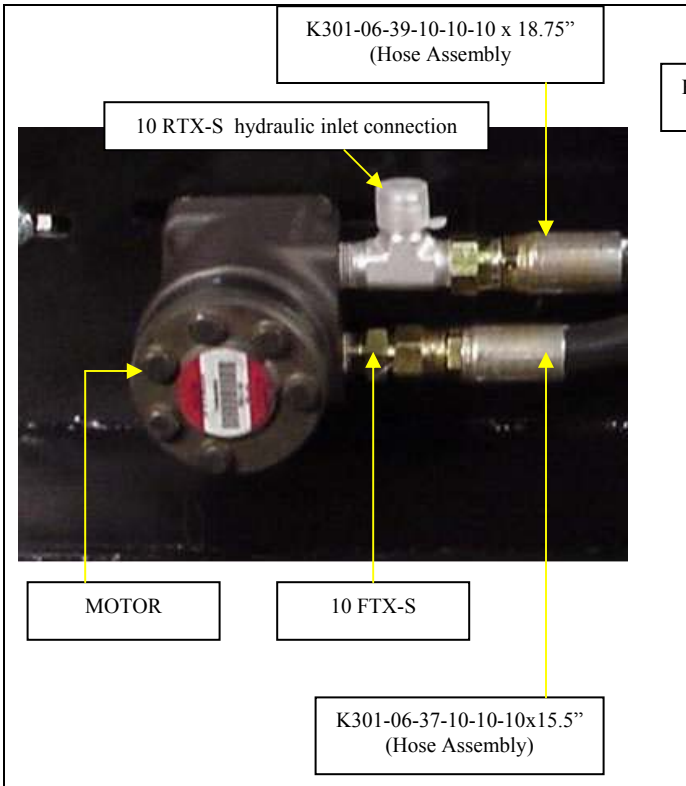
Check fuel and hydraulic tubes, hoses, and fittings for damage and leakage. Never use open flame or bare skin to check for leaks. Tighten or replace any parts that show leakage. Always clean fluid spills. Do not use gasoline or diesel fuel for cleaning parts. Use commercial nonflammable solvents.



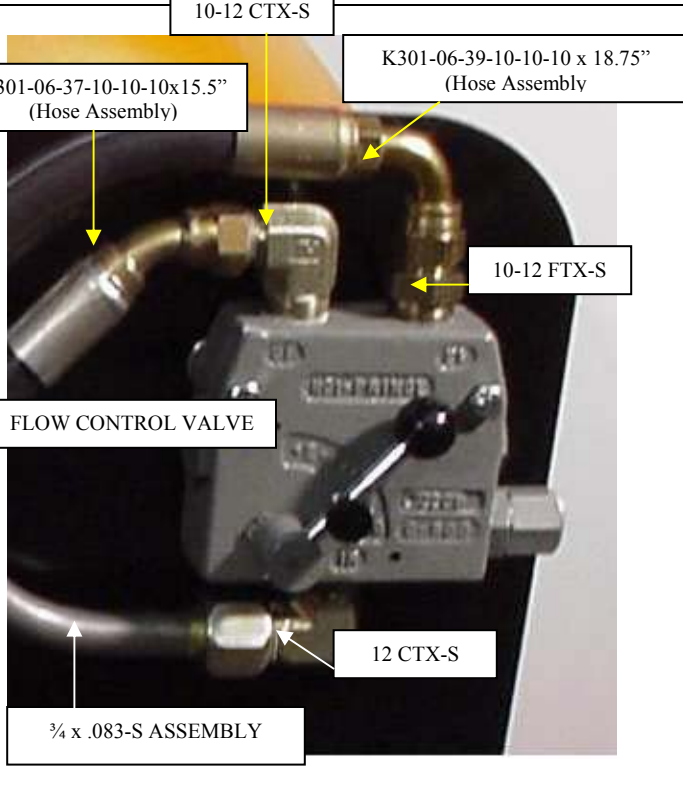
Back view of Skid Mixer showing various components. Details shown in the yellow squares.



Detail A



Detail B



Detail C

Parts List – Model 600 Skid Mixer Attachment with hoses Part No. 776002		
Part No.	Kushlan Products No.	Description
K301-06-39-10-10-10x18.75"	SS990	Hose Assembly - 5/8" I.D. x 18.75" Long, Straight & 90o configurations on JIC 37o end connections
K301-06-37-10-10-10x15.5"	SS989	Hose Assembly - 5/8" I.D. x 15.5" Long, Straight & 45o configurations on JIC 37o end connections
12 FTX-S	SS988	Male Connector (3/4" Flare Tube End/ 3/4" Male NPTF End)
10 RTX-S	SS987	Male Run Tee (5/8" Flare Tube Ends/ 1/2" Male NPTF End)
10-12 CTX-S	SS986	Male Elbow (5/8" Flare Tube End/ 3/4" Male NPTF End)
12 CTX-S	SS985	Male Elbow (3/4" Flare Tube End/ 3/4" Male NPTF End)
10-12 FTX-S	SS984	Male Connector (5/8" Flare Tube End/ 3/4" Male NPTF End)
10 FTX-S	SS983	Male Connector (5/8" Flare Tube End/ 1/2" Male NPTF End)
3075	SS982	Tube clamp
3/4x.083-S Assembly	SS981	Tube Assembly (3/4" O.D. x .083" wall thickness - steel)
3/4x.083-S	SS980	Tubing (3/4" O.D. x .083" wall thickness - steel)
12 TX-S	SS979	Flare tube end sleeve (3/4" Tube)
12 BTX-S	SS978	Flare tube end nut (3/4" Tube)
K301-01-39-8-10-10x60"	SS977	Hose Assembly 5/8" I.D. x 60" long Straight male NPT & 90o JIC 37o end
K301-01-06-8-10-10x60"	SS976	Hose Assembly 5/8" I.D. x 60" long Straight male NPT & straight female 37o end
	SS992	Hydraulic Motor
	SS991	Hydraulic Flow Control
	28874-016	Mixer Blades (3)
	SS998	Chain Cover Guard
	SS997	Sprocket
	SS996	Ten (10) Tooth Drive Sprocket
	28874-004	6 cu. Ft. Poly Drum
	28874-013	Drum Plate & Shaft
	SS995	1" Castle Nut
	07030-016	1" Thrust Washer
	28760-014	Drum Bushings
	23266-002	1" Locking Collar
	SS994	#40 Drive Chain
	SS993	1/8" Cotter Key
	17985-010	3/8 x 1-1/4" WhizLock Screws
	28760-030	3/8" Nuts (12 ea.)

Parts List – Model 600 Skid Mixer Attachment without hoses Part No. 076003		
Part No.	Kushlan Products No.	Description
K301-06-39-10-10-10x18.75"	SS990	Hose Assembly - 5/8" I.D. x 18.75" Long, Straight & 90o configurations on JIC 37o end connections
K301-06-37-10-10-10x15.5"	SS989	Hose Assembly - 5/8" I.D. x 15.5" Long, Straight & 45o configurations on JIC 37o end connections
12 FTX-S	SS988	Male Connector (3/4" Flare Tube End/ 3/4" Male NPTF End)
10 RTX-S	SS987	Male Run Tee (5/8" Flare Tube Ends/ 1/2" Male NPTF End)
10-12 CTX-S	SS986	Male Elbow (5/8" Flare Tube End/ 3/4" Male NPTF End)
12 CTX-S	SS985	Male Elbow (3/4" Flare Tube End/ 3/4" Male NPTF End)
10-12 FTX-S	SS984	Male Connector (5/8" Flare Tube End/ 3/4" Male NPTF End)
10 FTX-S	SS983	Male Connector (5/8" Flare Tube End/ 1/2" Male NPTF End)
3075	SS982	Tube clamp
3/4x.083-S Assembly	SS981	Tube Assembly (3/4" O.D. x .083" wall thickness - steel)
3/4x.083-S	SS980	Tubing (3/4" O.D. x .083" wall thickness - steel)
12 TX-S	SS979	Flare tube end sleeve (3/4" Tube)
12 BTX-S	SS978	Flare tube end nut (3/4" Tube)
	SS992	Hydraulic Motor
	SS991	Hydraulic Flow Control
	28874-016	Mixer Blades (3)
	SS998	Chain Cover Guard
	SS997	Sprocket
	SS996	Ten (10) Tooth Drive Sprocket
	28874-004	6 cu. Ft. Poly Drum
	28874-013	Drum Plate & Shaft
	SS995	1" Castle Nut
	07030-016	1" Thrust Washer
	28760-014	Drum Bushings
	23266-002	1" Locking Collar
	SS994	#40 Drive Chain
	SS993	1/8" Cotter Key
	17985-010	3/8 x 1-1/4" WhizLock Screws
	28760-030	3/8" Nuts (12 ea.)

NOTE: Kushlan Products, Inc., sells the supply and return hoses from the skid loader separately. If you need these hoses, please let the salesperson know at the time of purchase.

CONCRETE MIXING FORMULAS

HOW TO MIX CONCRETE

- ◆ You will need approximately five (5) gallons of water
- ◆ 4- 80 lb. Bags of pre-mix concrete
- ◆ Start mixer in motion
- ◆ Put three (3) gallons of water into the mixing drum
- ◆ Add two (2) 80 lb. Bags of pre-mix concrete
- ◆ NOTE: Mixture will be very sloppy
- ◆ Slowly add the third bag of 80 lb. Pre-mix concrete
- ◆ Add water slowly to obtain desired consistency

WILL YIELD THREE (3) CU. FT. OF CONCRETE

HOW TO MIX SAND & GRAVEL

- ◆ Use an 8-1/2 x 12" square nose shovel
- ◆ Portland cement, gravel (or round stone), and masonry sand
- ◆ Start mixer into motion
- ◆ Put three (3) gallons of water into the mixing drum
- ◆ Add 12 shovels full of gravel (or round stone)
- ◆ Add four (4) shovels full of Portland cement
- ◆ Slowly add eight (8) shovels full of masonry sand
- ◆ NOTE: WATER WILL VARY ACCORDING TO MOISTURE CONTENT OF SAND & GRAVEL

WILL YIELD THREE (3) CU. FT. OF CONCRETE

Kushlan Products, Inc. Limited Warranty Policy

Kushlan Products, Inc. makes every effort to assure that its products meet high quality and durability standards and warrants to the original retail consumer purchaser of our products (you) that each such product be free from defects in materials and workmanship as follows:

ONE (1) YEAR limited warranty on all Kushlan products.

This warranty does not apply to defects due, directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities or the lack of maintenance. WE LIMIT ALL IMPLIED WARRANTIES TO THE PERIOD SPECIFIED ABOVE FROM THE DATE OUR PRODUCT WAS PURCHASED AT RETAIL. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG THE IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. WE SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY OR FOR INCIDENTAL, CONTINGENT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

To take advantage of this warranty, the product or part must be returned for examination, postage prepaid, to Kushlan Products, Inc. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection discloses a defect, we will either repair or replace the product, at our election, or we may elect to refund the purchase price if we cannot readily and quickly provide you with repair or replacement, if you are willing to accept such refund. We will return the repaired product or replacement at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of storing and returning this product. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. For service, contact Kushlan Products, Inc.