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Operator's Manual for Morse MORStop Tilt-Brake Kit # 3900SS-P

Serial Number 0713 to ____ (MMYY)

Receiving Procedures

Every Morse drum handler is inspected prior to shipping. However, damage may be incurred during transit.

Check for visible damage. If you choose to accept damaged freight, always sign noting the damage on the Bill of Lading.

Document the damage and have the truck driver sign. We recommend keeping a digital camera at your receiving dock for this purpose.

Open packages expeditiously to check the condition of the goods. There is only a 24 hour window to notify the carrier of any concealed damage.

Immediately report all damage to the shipping company! Then you may contact Morse for assistance with your freight claim.

Morse Manufacturing will not be held responsible for any damaged freight that is not signed for as damaged.

Limited 2 Year Warranty

Morse drum handling equipment is guaranteed against defects in workmanship or materials for two years when used properly within its rated capacity. Warranty does not cover wear from normal use or damage from accident or abuse. Motors and other purchased parts carry the warranties of their manufacturers.

For warranty claims, contact your Morse Dealer to obtain a return authorization number, and for return freight advice. Return freight must be prepaid.

In all instances, liability is limited to the purchase price paid or to repairing or replacing the product. Customer assumes liability for any modifications, unauthorized repairs or parts substitution.



Safety Information

While Morse Manufacturing Co. drum handling equipment is engineered for safety and efficiency, a high degree of responsibility must be placed upon the machine operator to follow safe practices, based primarily on common sense, upon which true safety depends.

Failure to follow the safety precautions in this manual can result in personal injury or property damage. Observe the same precautions as with similar machinery where carelessness in operating or maintenance is hazardous to personnel. Carefully read the safety precautions below and throughout this manual.

Review the Material Safety Data Sheet(s) for the material(s) in the drum(s) and take all necessary precautions. Safety shoes, work gloves, hard hat and other personal protective devices are recommended.

Prior to initial use, inspect all moving parts and test rotation of chain wheel and saddle assembly. Inspect saddle assembly for proper operation. Perform necessary load test, inspections, operator training, etc.



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Installation Instructions for part # 3900SS-P MORStop Tilt-Brake Kit
Serial Number 0713 to ____ (MMYY)

IMPORTANT

Before installing MORStop Tilt-Brake, please read the following:

1. Remove drum and be sure it is safe to work on the gearing before proceeding.
2. Remove gear covers, if applicable.
3. Using needle nose pliers carefully remove the spring clip (item 11), side link (item 10) and master link (item 8) on the #35 pitch roller chain (item 9).
4. Remove the drive sprocket (item 3 or 5) from the gear block in one of the following ways:
 - a. If sprocket is welded to the shaft (item 3): using a 3/16 punch and hammer, carefully press out the roll pin (not shown) and slide the drive sprocket with shaft and spacer (item 4) out of the gear block. You will no longer use these parts.
 - b. If sprocket is setscrewed onto the shaft (item 5): loosen sprocket setscrews, remove sprocket from shaft, remove the woodruff key (item 6), finally, prior to sliding crank device from gear block, file shaft around keyway to prevent bearing damage.
5. On some Morse drum handlers, i.e. Morse model 285A, the weld between the gear block and 2 x 3 vertical leg tube may interfere with the MORStop (see Figure 1 on page 2). This weld will need to be ground enough to clear the MORStop.
6. Before MORStop installation, ensure that the outer surface of the bronze bearing is clean and free from paint. Lightly sand if necessary.

INSTALLATION

1. Insert the keyway end of the shaft on the MORStop Tilt-Brake assembly (item 13) into the bearing where the crank device was removed in step 4 above. Turn the MORStop assembly while pushing into the bearing until the torque arm (the tab with the hole) rests against the gear block.

Note: The MORStop assembly must be bolted in place to work properly.
If your Morse drum handler was manufactured before 08/1995 (s/n 0895) and does not have the bolthole noted in the diagram, the gear block must be drilled, and you should proceed to step 1 a. Otherwise proceed to step 2.

 - a. Turn the torque arm until the bolthole is centered on gear block. Mark gear block where the hole is to be drilled.
 - b. With the MORStop assembly removed, drill a 3/16 pilot hole through the gear block.
 - c. With a 7/16" drill, drill out to finished hole size.
2. Re-insert the MORStop into the bearing and, using 3/8 x 2-1/4 bolt (item 14), 3/8 washer (item 2) and a lock nut (item 1), bolt torque arm to gear block and finger tighten the nut.
3. Place 3/4" washer (item 7) onto keyway end of shaft.
4. Insert the size 9 woodruff key (item 6) into keyway on the shaft.
5. Install drive sprocket (item 5), hub side first, over woodruff key.
6. While pressing the drive sprocket and the MORStop assembly against the gear block, tighten setscrews on drive sprocket.
7. If installing a chain wheel (item 16), slide chain wheel chain guide (item 15) over MORStop shaft onto step. (This step not needed if installing hand crank or hand wheel.)
8. Slip chain wheel (item 16), hand crank (item 17), or hand wheel (item 18) onto MORStop shaft and line up 3/16" holes for roll pin (item 12). Carefully hammer in roll pin through both parts.
9. Tighten torque arm nut & bolt from step 2. Loosen the lock nut 1/2 turn to prevent possible binding in the MORStop. There will be a slight drag in the MORStop while turning the crank device, but no binding should be present.
10. Reinstall the roller chain over the drive sprocket using master link, side link and retaining clip. The master link must be installed with the spring clip on side opposite the spur gear.
11. Replace gear covers, if applicable.

After completing the installation of the MORStop, the chain wheel, hand crank, or hand wheel should turn freely in either direction, and will prevent the load from back driving the crank device.

Parts Diagram for part # 3900SS-P MORStop Tilt-Brake Kit
Serial Number 0713 to ____ (MMYY)

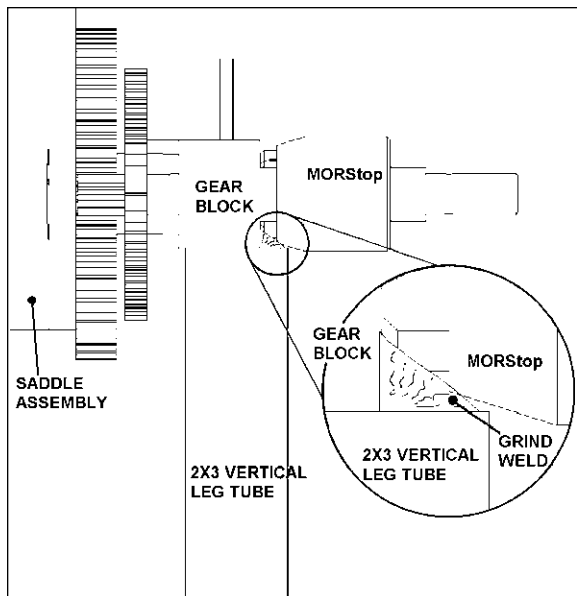
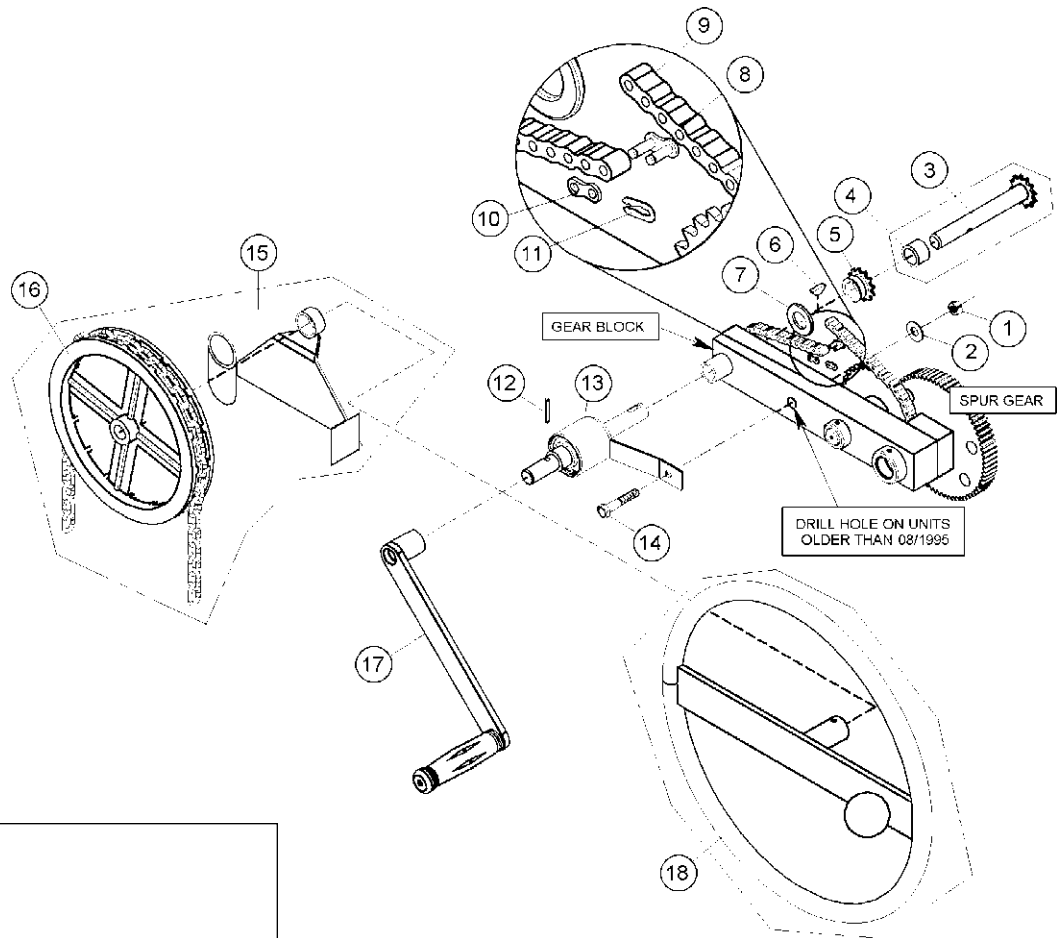


Figure 1

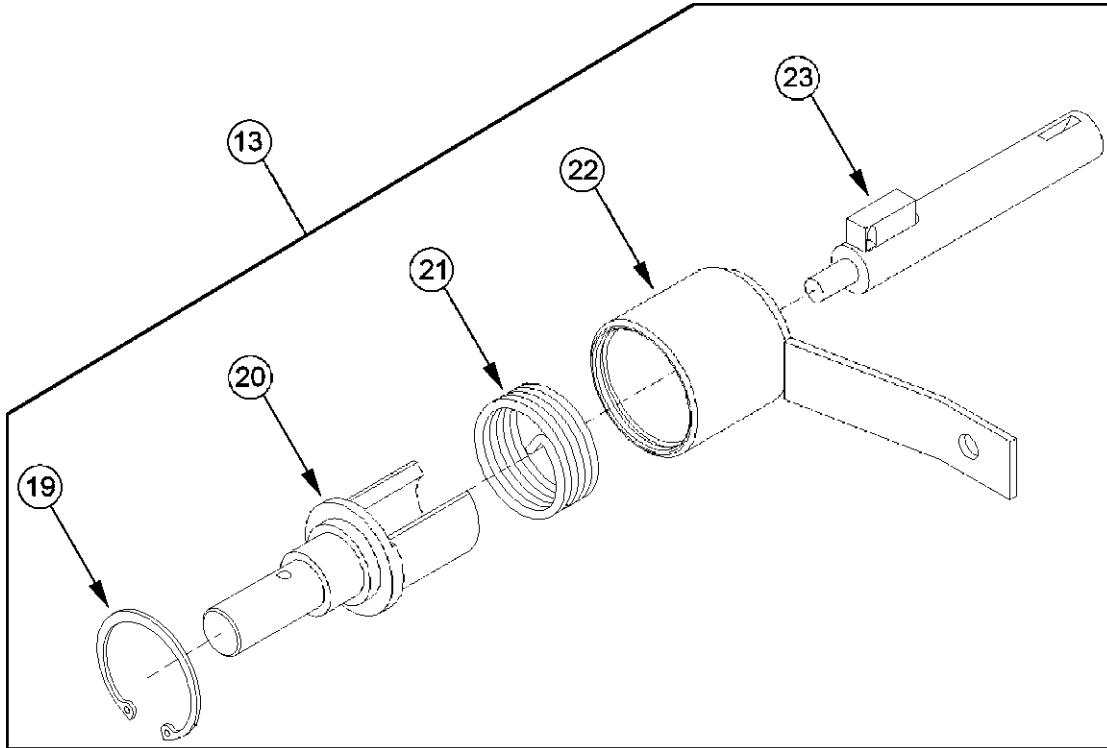
On some Morse drum handlers, i.e. Morse Model 285A, the weld between the gear block and 2 x 3 vertical leg tube may interfere with the MORStop (Figure 1). Grind weld enough to clear the MORStop.

ITEMS INCLUDED IN MORStop TILT-BRAKE KIT			
ITEM	QTY.	PART #	DESCRIPTION
1	1	3981SS-P	NUT, 3/8-16 NYLON LOCK, SS
2	1	1166SS-P	WASHER, 3/8 USS, SS
5	1	11-P	SPROCKET, #35 12T, 3/4" BORE
6	1	735SS-P	KEY, WOODRUFF, SIZE 9, T304SS
7	1	55SS-P	WASHER, 3/4 SAE FL 1-1/2 OD SS
12	1	64SS-P	ROLL PIN, 3/16 X 1-1/4, SS
13	1	3901SS-P	MORStop TILT BRAKE, SS
14	1	82SS-P	HHCS, 3/8-16 X 2-1/4, SS

OTHER ITEMS SHOWN IN DIAGRAM			
ITEM	QTY.	PART #	DESCRIPTION
15	1	5245-P	GUIDE, POCKET CHAIN WHEEL
16	1	1303SS-P	POCKET CHAIN WHEEL SILVER PC
17	1	5USS-P	HAND CRANK, W/ SOCKET TUBE, SS
18	1	2685SS-P	HANDWHEEL 16" SS 3/4B w/ KNOB

Parts Diagram for part # 3900SS-P MORStop Tilt-Brake Kit

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ITEM	QTY.	PART #	DESCRIPTION
13	1	3901SS-P	MORStop TILT BRAKE, SS
19	1	3831-P	SNAP RING, 1-7/8", MORStop
20	1	3623BSS-P	PRI SHAFT W/ BUSHING, SS
21	1	3628-P	SPRING, TORSION, MORStop BRAKE
22	1	3870SS-P	CASING ASM, SPRING, 3900SS-P
23	1	3624WSS-P	OUTPUT SHAFT WELD, SS, MORSTOP