2.12 SEQUENCE CABLE REPLACEMENT KIT

A sequence cable replacement kit is available from the JLG Parts Department to service broken or worn sequence cables. This kit consists of a replacement sequence cable with the threaded (top) end attached same as the top end of the factory cable. Also included is a clamp (drum/socket type) to secure the bottom end of the cable. Use the following procedure to install the replacement cable and clamp kit.

Remove Old Cable

1. Remove the locking nut from the threaded end of the cable at the top of the mast and then remove the spring cap, spring, and spacer washers if installed.
2. Slide the threaded top end out of the upper anchor bracket, then at the bottom end pull the cable out though the sheave pulley/anchor bracket until it is completely clear of the machine.

Replacement Cable Installation

1. Be certain the mast is completely retacted and at the bottom of travel. Check the mast "Side Profile" at the top of the mast as shown in Figure 2-22., adjust mast sections to proper height if necessary.
2. To determine where the clamp will be installed at the bottom of the replacement cable, temporarily assemble the new replacement cable to the top cable anchor bracket on the mast using the washers, spring, spring cap and lock nut previously disassembled. Thread the lock nut on until approximately 1/8 in. (3mm) of threads are exposed.
3. At the bottom of the mast, thread the loose end of the replacement cable through the proper sheave pulley and through the hole in the sheave pully/anchor bracket on the mast section ahead of the sheave pulley.
4. Grasp the cable and pull on the cable until the spring at the top of the cable is slightly compressed. Use a black marker to mark the cable on the top side of the sheave pully/anchor bracket. This will determine where the clamp *(drum/socket)* sleeve will be positioned on the cable.

⚠ IMPORTANT

DO NOT CUT THE CABLE AT THE MARKED POINT ON THE CABLE THIS IS ONLY USED AS A REFERENCE FOR POSITIONING THE CABLE SLEEVE WHICH WILL REST AGAINST THE ANCHOR BRACKET ONCE INSTALLED.

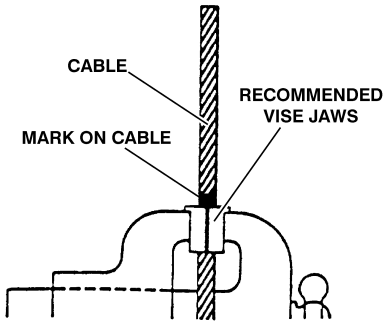
Clamp Installation (Drum/Socket Type)

⚠ IMPORTANT

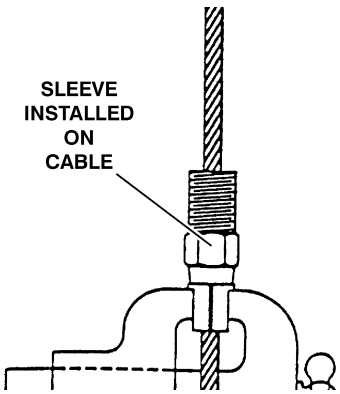
THE MANUFACTURER OF THE DRUM/SOCKET CLAMP RECOMMENDS THE USE OF THEIR CABLE CLAMP ASSEMBLY KIT (JLG P/N - 7023275) TO ASSEMBLE THE CLAMP TO THE WIRE ROPE. THE KIT CONSISTS OF VISE JAWS TO HOLD THE WIRE ROPE IN A VISE PROPERLY WITHOUT DAMAGING ANY ROPE STRANDS AND A PLUG DRIVER TO DRIVE THE PLUG INTO THE CENTER OF THE WIRE ROPE AND IS ALSO USED TO FORM THE STRANDS OF THE ROPE DURING ASSEMBLY.

NOTE: *The tools in the clamp assembly kit may be frabricated if necessary. The vise clamp consists of vise jaws with a hole drilled 1/32 in. smaller than the diameter of the wire rope you are working with (i.e. 1/8 in. rope - 3/32 in. hole.)*
The plug driver is a metal tube with a hole in the bottom to allow the strands of the wire rope to be shaped after the plug has been tapped into the center of the wire rope.

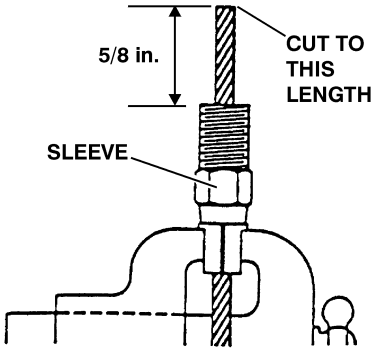
1. Using the recommended vise jaws, clamp the wire rope into a vise with the bottom edge of the black mark made on the wire rope resting just above the vise jaws.



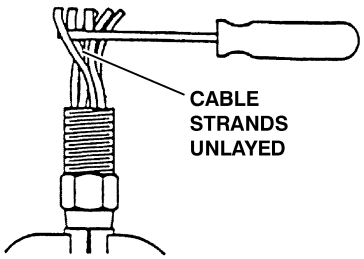
2. Twist the sleeve from the clamp kit onto the rope until it is flat against the vise jaws at the mark made made on the wire rope.



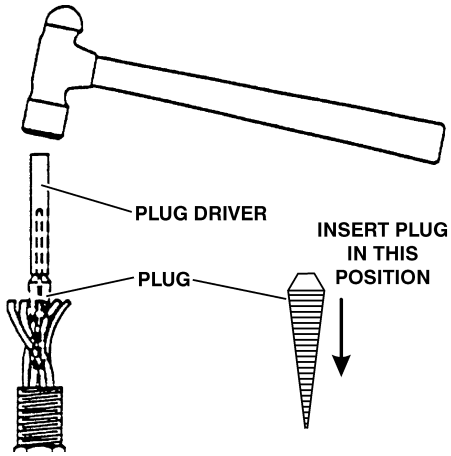
3. Use a suitable tool and cut the cable as shown in the illustration following. For 1/8 in. cable the recommended length is 5/8 in. past the end of the sleeve.



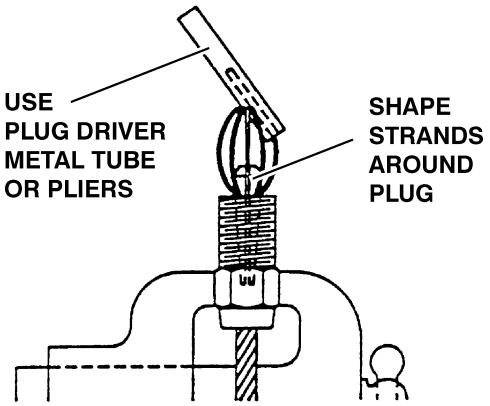
4. Unlay the cable strands by gently forcing a screwdriver between the outer strands to unlay the cable. When done properly the outer strands will form a symmetrical basket. Do not straighten out the spiral lay of the strands, unlay any wires that make up the strand, or allow the strands to cross each other inside the sleeve.



5. Install the plug supplied with the kit by placing the plug in the center of the strands starting with the small tapered end of the plug. Use a metal tube (plug driver) and hammer to drive the plug into the sleeve while assuring that the strands are spaced somewhat equally around the plug. Drive the plug until it is firmly seated and no more than 1/3 of the plug is visible from above the sleeve.

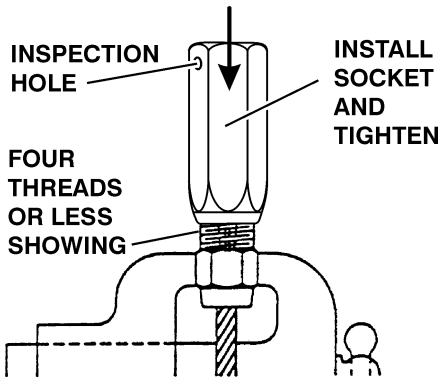


6. Reclamp the assembly in the vise on the flats of the sleeve. Using the plug driver, a metal tube or pliers, bend the outer strands toward the center strands enough that the socket can be slipped over all the strands.



NOTE: *When assembling stainless steel parts all threads must be coated with a dry lubricant or an anti-sieze lubricant to prevent seizing.*

7. Coat the threads of the socket and sleeve with lubricant and install the socket by twisting it over the strands of the cable and engage the threads of the sleeve with the socket. Tighten until four threads or fewer are visible. If more than four threads are visible, proof load the cable and retighten the socket fitting. (There is no specific requirement for torque.)



8. Inspect for proper assembly prior to loading the cable. Strands visible through the inspection hole are your assurance of a proper assembly.

NOTE: *The end of the rope may not be visible in the inspection hole after loading.*

9. Install cable on machine and adjust per instructions shown previously in Section 2.11, MAST CHAINS/ CABLES AND SEQUENCING CABLES ADJUSTMENT.