



# H-Series Trowels

## Steering Linkage Enhancement Kit

The following instructions are intended to assist the user in the assembly of the Steering Linkage Enhancement Kit for use on H-Series trowels. Please read all assembly instructions before installing the kit.

### WORK SAFELY!

Only a **qualified service technician** with proper training should perform this installation. Follow all shop safety rules when performing this installation.

### REQUIRED TOOLS

#### Wrenches

- 3/4" open
- 7/16" open
- 7/16" hex-head
- 3/8" allen-head
- 3/8" open

#### Screwdrivers

- Philips head, medium

#### Misc.

- Vise-grip or locking type pliers
- Tape Measure
- Adjustable torque wrench

### PARTS

Figure 1 shows the components of the steering linkage enhancement kit. Verify that all parts are accounted for. See Table 1.

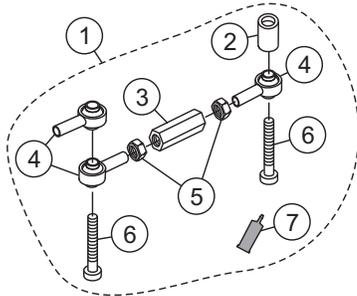


Figure 1. Steering Linkage Enhancement Kit

Table 1. Steering Linkage Enhancement Kit Parts

Item	Part No.	Description	Qty.	Remarks
1	23283	Steering Linkage Enhancement Kit	1	Includes items 2-7
2	22405	Spacer	1	
3	22404	Coupling Nut	1	
4	21944	Rod End	3	
5	11146	Hex Jam Nut	2	
6	11145	Screw, SHC 1/2" x 3"	2	
7	1477	Loctite, 0.5 cc	1	

### PREPARATION

1. Place trowel onto a flat work surface that is free of dirt and debris. To lift trowel, attach lifting straps to the lift loops that are welded to the frame, located to the left and right sides of the operator's seat.

#### NOTICE

**ALWAYS** observe proper heavy lifting procedures. **NEVER** lift trowel by guard rings. Lift the trowel with an appropriate lifting device, such as a forklift, crane, or hoist with lifting chains or straps. The straps or chains should have a minimum of 2,000 pounds (1,000 kg) lifting capacity and the lifting equipment must be capable of lifting at least this amount.

2. Remove front panel to gain access to steering linkage. Use 3/8" open wrench to remove 6 screws securing front panel to the frame (Figure 2). Retain screws for later use.

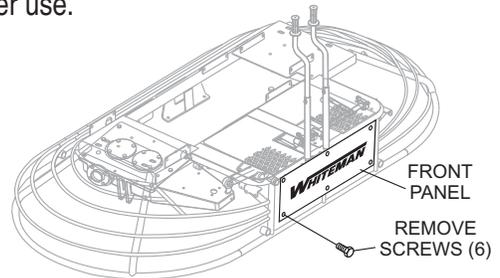


Figure 2. Remove Front Panel

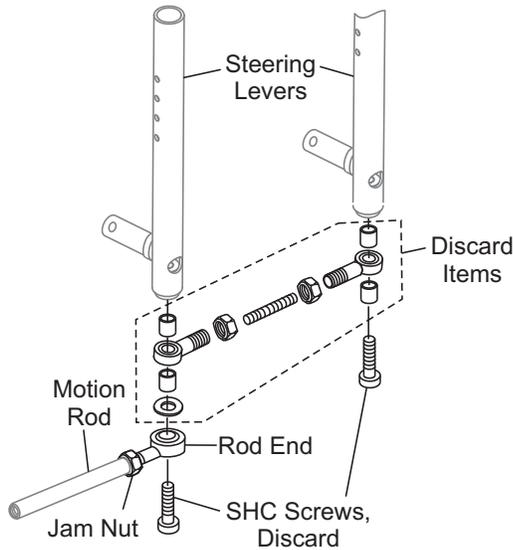
3. Disconnect battery cable connectors from battery. See Figure 3.



Figure 3. Disconnect Battery Cables

## DISASSEMBLY

Follow the instructions below and refer to Figure 4 for disassembly procedure.

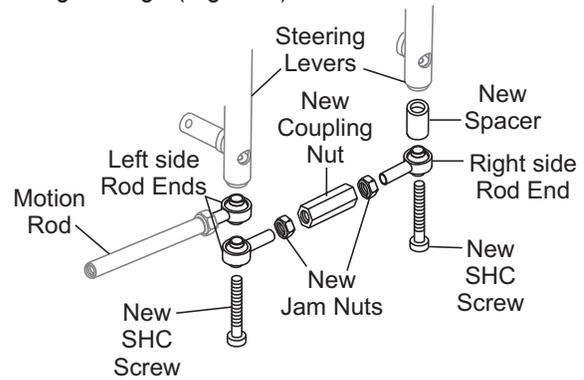


**Figure 4. Steering Linkage Disassembly**

1. Use locking pliers to hold motion rod in place. Loosen jam nut on motion rod with 3/4" open end wrench.
2. Remove and discard 2 socket-head caps crews from the bottom of the steering levers. A heat source may need to be applied to breakdown the old threadlock compound.
3. Remove and discard rod end. Replace with new rod end (Figure 1, item 4). Use existing jam nut to secure rod end to motion rod.
4. Discard items within dashed lines.

## REASSEMBLY

Follow the instructions below to incorporate the new parts from the Steering Linkage Enhancement Kit into the Steering Linkage (Figure 5).



**Figure 5. Steering Linkage Kit Assembly**

1. Thread new jam nuts onto new rod ends just far enough to allow for later adjustment.
2. Thread rod ends evenly into the new coupling nut so that the threaded distance is equal.
3. Set the distances of the rod ends center-to-center at 5 inches (127mm). When this distance is achieved, tighten jam nuts.

### NOTICE

The rod assembly can be adjusted using a bench vise.

4. Insert one new SHC (allen) screw (apply loctite) through both left side rod ends and into the bottom of the left steering arm. **Note that motion rod and accompanying rod end are now in direct contact with left side steering lever.**
5. Insert second SHC screw (apply loctite) into right side rod end, new spacer and right side steering lever.
6. Torque both SHC screws to 64 ft. lbs. (87 N-m).
7. Set rod end on motion rod to desired angle of steering so levers are straight when operating unit.
8. Tighten jam nut on motion rod.
9. Set steering for operator comfort. Adjust as necessary.
10. Reconnect battery cables, reinstall front panel, and verify operation.



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