

HWY-08-M-H012  
Mexican Hat, Utah

**MCI Maintenance and Parts Manuals**  
(portions of steering section)

(4 pages)

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# MCI J SERIES MAINTENANCE MANUAL

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## GENERAL DESCRIPTION

The coach is fitted with a ZF hydraulically-assisted steering system. A LUK power steering pump provides the hydraulic power, and Nelson provides the fluid reservoir.

## COMPONENTS AND OPERATION

### Steering Gear

The Servocom Type 8098 steering gear is a compact, recirculating ball and nut design that combines the power steering control valve and working cylinder in the same housing as the steering mechanism.

### Fluid Reservoir

The Nelson power steering fluid reservoir has a suction-side filter inside the reservoir, and a fine mesh strainer below the filler opening. The reservoir has a sight glass, dipstick and electronic sensor. Low fluid is indicated by a telltale in the driver's area. There is no in-line filter installed in the high pressure side of the power steering system.

### Steering Linkage

The relay arm is directly attached to the axle beam and is supported by a large uni-pack bearing. It transmits the fore and aft motion of the drag link to a side to side motion of the intermediate drag link attached to the steer arm of the front axle. The two front wheels are connected via separate steer arms and a conventional cross tube (tie rod).

Intermediate  
Shaft  
(location)

### Pump

The LUK pump is gear-driven by the engine and uses automatic transmission fluid as the hydraulic medium. The fluid flows through seamless steel tubing in the center tunnel and high pressure hose assemblies at a maximum pressure of 150 bar (approximately 2200 psi).

### Steering Wheel

The steering wheel is 18 inches (457 mm) in diameter, which is slightly smaller than usual. This provides a greater level of comfort to the driver. A tilt and telescopic steering column manufactured by Douglas Autotech is

installed. It is linked to the steering gear input shaft by an intermediate steering shaft.

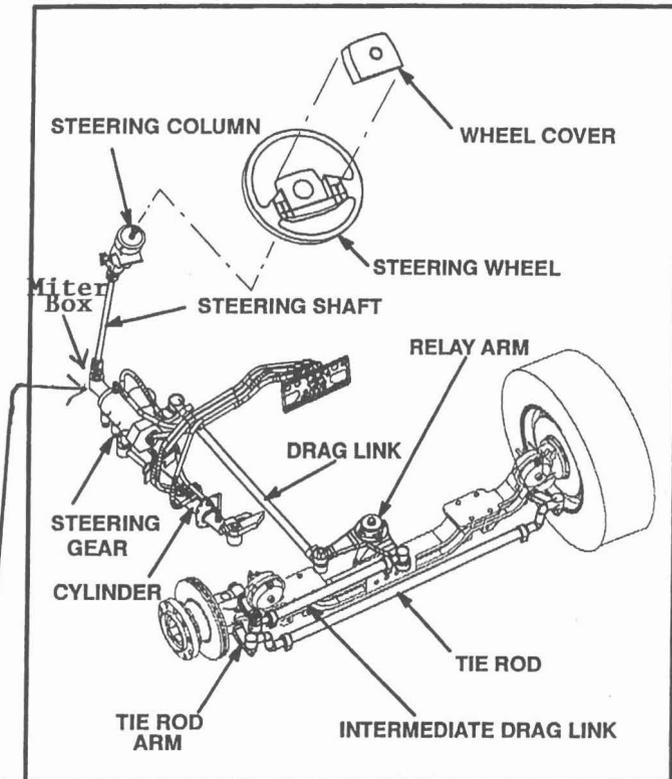


Figure 1. Power Steering System

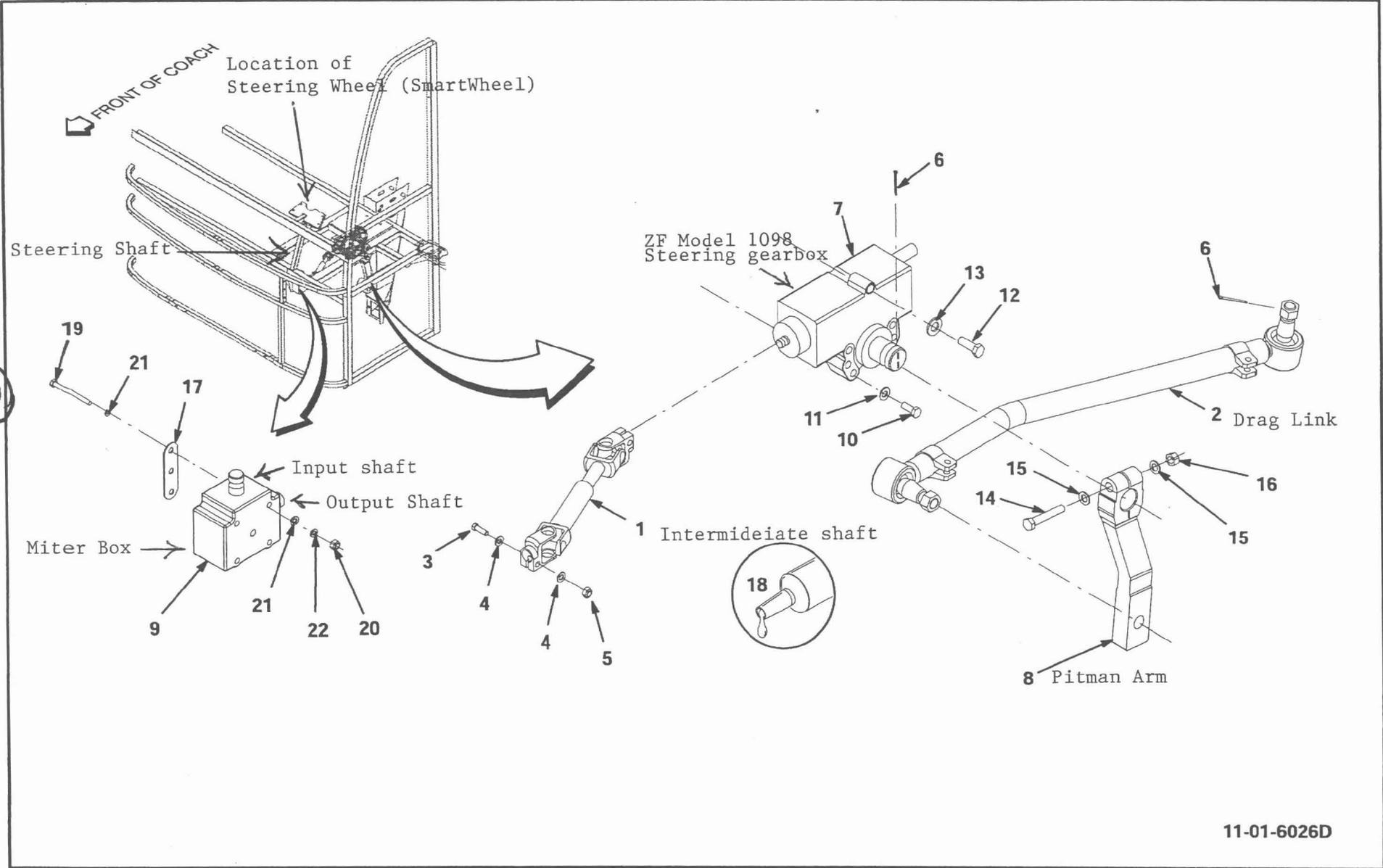


## CAUTION



Due to the close proximity of the primary coach control piping (i.e. power steering lines) within the center tunnel module to the underside of floorboards, use extreme caution when making any alterations or attachments to the floorboards in this area.

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STEERING INSTL

## G COACH PARTS MANUAL

Key	MCI Part No.	Description	Note
	11-01-6026	STEERING INSTL	
1	11-01-6004	SHAFT - INTERMEDIATE	
2	11-04-6001	LINK DRAG	
3	19-01-6089	HEXHEAD CAPSCREW (DIN931-10.9/M10 X 50)	
4	19-02-6025	FLAT WASHER, HARDENED (TP200/M10)	
5	19-03-6085	HEX, LOCKNUT (DIN980V-ZPCL10/M10)	
6	19-07-6000	COTTER PIN (DIN94 ZP/4 X 45)	
7	11-01-6000	GEAR - STEERING	
8	11-01-6012	PITMAN ARM	
9	11-01-6005	MITER BOX	
10	19-01-6056	HEXHEAD CAPSCREW (DIN931 10.9/M16 X 40)	
11	19-02-6026	FLAT WASHER, HARDENED (TP200/M16)	
12	19-01-6019	HEXHEAD CAPSCREW (DIN933 10.9/M24-3 X 70)	
13	19-02-6029	FLAT WASHER, HARDENED (TP200 M24)	
14	19-01-6057	HEXHEAD SCREW (DIN960 10.9/MF18-1.5 X 10)	
15	19-02-6036	FLAT WASHER, HARDENED (TP200 M18)	
16	19-03-6043	HEX NUT (DIN934 CL10/M18-1.5)	
17	11-01-6031	BACKING BAR, TRW	
18	21-7209-5	LOCTITE	
19	19-01-6298	DIN7985A M8 X 12	
20	19-03-6125	DIN934 ZPCL10/M8	
21	19-02-6002	FLAT WASHER, ZINC (DIN125A-ZP/M8)	
22	19-02-6009	LOCKWASHER (DIN127B-ZP/M8)	