

## **Marine Steering Inspection**

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As with all mechanical systems used in the harsh marine environment, proper inspection and maintenance is required of an Edson Steering System for long life and years of proper service. Systems which have not been maintained and lubricated properly show signs of wear early and perform less than satisfactorily. Therefore, it is important that all boats fitted with Edson Steering Systems get an annual inspection of the critical system parts and that routine maintenance guidelines are followed. This inspection can be done by an Authorized Edson Service Center, or by the boat owner.

After each item is inspected, check the appropriate box on the **left-hand** side of the checklist. If a replacement part is required, or an upgrade part is needed, make a check in the appropriate box on the **right-hand** side of the checklist next to the Part#. After the Inspection is complete, copy those Part#'s needed onto the order page attached. This order form can then be taken to your Edson Dealer or Service Center for fulfillment.

Note: Some parts need size designations - refer to your Edson Catalog, Price Page or Specific Boat Data Sheet for sizing information. If you have any questions during the Inspection or while filling out the order form, please contact the Edson Customer Service Department between 8 AM - 5 PM Eastern Time.

# Edson Steering Inspection Checklist

Please Fill Out This Section Completely.

Owners Name: \_\_\_\_\_ Boat Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_ Phone: ( ) \_\_\_\_\_

Boat Type/Mfr: \_\_\_\_\_ Length: \_\_\_\_\_ Year: \_\_\_\_\_

Engine Mfr. and Type: \_\_\_\_\_ Transmission Mfr. and Type: \_\_\_\_\_

<input checked="" type="checkbox"/> Inspection Area	Action	Parts Needed	<input checked="" type="checkbox"/>
<b>Steering Wheel/Shaft</b>	Remove Steering Wheel for room to work		
	Inspect Wheel, Key and Snap Ring		
	Replace Key if loose in keyway	#684-250W	
	Replace Snap Ring if there are signs of corrosion	#960-A-660	
	Remove compass and cylinder (follow mfr. rec.)		
	Replace Compass Bolts if corroded	3 1/2" - #817-3.5	
	Coat Compass Bolts with Tef-Gel before re-installing.	1" - #817-1	
<b>Engine Control</b>	Inspect handles, levers, shafts, bushings		
	Upgrade plastic handles to stainless	Throttle - #963SB-55 Clutch - #963PT-55	
	Replace Delrin Bushings if deteriorated or stiff	#960-A-125	
	Inspect Engine Cables		
	Replace cables if deteriorating or stiff	#734-33-spec length #735-64-spec length	
<b>Wheel Brake</b>	Inspect Brake. Tighten to determine if working properly		
	Visually inspect pads. Clean grease off of knurling.		
	Replace Pads if worn or ineffective	Brake Kit - #316-689	
	Upgrade plastic knob to stainless	#825ST-1	
<b>Steering Chain/Sprocket</b>	Inspect chain for proper lubrication and free-movement		
	Inspect visual for "star" cracking around pins		
	Lubricate with # 30 motor oil.		
	Replace if corroded, cracking or does not "roll"	#886-spec size	
	Inspect sprocket for broken, worn or bent teeth		
	Replace sprocket if broken or bent	#855-spec size	
<b>Steering Shaft Bearings</b>	Inspect condition of bearings by turning shaft and checking for play or resistance while chain is disconnected.		
	Replace bearings if stiff or excessive play	#314-335	
<b>Steering Cables</b>	Oil tissue and run along wire. Inspect Steering Cable for signs of wear such as "meat-hooks" or kinks.		
	Replace wires if there are any signs of wear	#885-spec size	
	Check cable tension. Cable should deflect 1" per foot.		
	Tighten cables at the quadrant take-up eyes if loose.		
	Inspect Conduit (if used) for worn areas or tight bends.		
	Replace if worn through	#797-250	
	Lubricate conduit with Teflon Grease if dry.	#827-3	
<i>Continued</i>			

<input checked="" type="checkbox"/> Inspection Area	Action	Parts Needed <input checked="" type="checkbox"/>
<b>Cable Sheaves/Idler</b>	<b>Inspect</b> Idler Plate and Sheaves for corrosion or wear from misaligned cables. Look for metal dust under sheaves.	
	<b>Inspect</b> Sheave Pins for excessive wear.	
	<b>Replace</b> Idler, Sheaves or Pins if corroded or worn.	See Data Sheet
<b>Steering Cable Alignment</b>	Correct cable alignment within the sheave system is required to insure longevity of the system. <b>Check</b> that Cables are centered in the groove of the sheaves and quadrant.	
	<b>Adjust</b> sheave placement to insure a fair wire lead.	
<b>Quadrant / Radial Wheel</b>	<b>Inspect</b> Quadrant or Radial for signs of wear or corrosion.	
	<b>Inspect</b> for cable wear along wire groove.	
	<b>Inspect</b> connection at rudderpost for tightness.	
	<b>Inspect</b> Rudderstop. Is it hitting supports on both sides?	
	<b>Replace</b> Quadrant if weakened by corrosion.	See Data Sheet
	<b>Replace</b> Rubber Bumper on Stop if missing.	#960-A-534
<b>Overall Inspection</b>	<b>Tighten</b> all bolts clamping Quadrant on rudderpost.	
	<b>Align</b> Quadrant or Sheaves for fair wire runs.	
	<b>Tighten</b> all fasteners including pedestal bolts, wire rope clamps, and quadrant rudderpost/connections.	
	<b>Inspect</b> Pedestal base for water leakage.	
<b>Lubrication</b>	<b>Seal</b> with bedding compound if leaking.	
	<b>For longevity of the steering system, proper lubrication is required.</b>	
	<b>Lubricate</b> Shaft Roller Bearings with Teflon Grease	#827-3
	<b>Lubricate</b> Cable Conduit with Teflon Grease	
<b>Upgrades</b>	<b>Oil</b> Wire Rope, Chain and Sheave Pins w/ #30 motor oil	
	Many parts that Edson used to make in plastic are now made of Stainless Steel. Upgradeable Items include:	
	- <b>Stainless Shift Handle</b>	#963SB-55
	- <b>Stainless Throttle Handle</b>	#963PT-55
	- <b>Stainless Wheel Nut</b>	#673ST 1" or 3/4"
	- <b>Stainless Quick-Release Wheel Nut</b>	#826ST 1" or 3/4"
	- <b>Stainless Brake Knob</b>	#825ST-1
<b>Customer information</b>	These items are easily replaced during an inspection.	
	<b>Give</b> your customer a copy of Edson's Pedestal Maintenance Guide and Catalog. Periodic Maintenance is very important in keeping the Steering System in like-new condition - Kits are available for routine maintenance:	Edson Catalog EB-204-3
	- <b>Brake Maintenance Kit</b>	#316-689
	- <b>Pedestal Maintenance Kit</b>	#312-335-400
	- <b>Pedestal Rebuild Kit</b>	#314-335

If during the steering inspection you find that the Steering Pedestal needs repainting, please request the Edson Pedestal Repainting Guide (EB-95-345). This Engineering Bulletin will outline the steps required to properly repaint or replace the pedestal as well as areas to check for possible electrolysis. Contact Edson Customer Service for this and other Engineering Bulletins.

Many of these parts are available in kits that include detailed instructions. If you are replacing several items, you may consider purchasing the Brake Maintenance Kit (#316), the Pedestal Maintenance Kit (#312) or the Pedestal Rebuild Kit (#314). These are available through Edson Dealers or Factory Direct.

When the Steering Inspection is completed, copy the Part #'s of the required replacement and upgrade parts onto the attached order form.

