MERCURY MerCruiser

Service Bulletin

Bulletin No. 2009-06
OEM No. 2009-03

Circulate to: ☐ Sales Manager ☐ Accounting ☑ Service Manager ☑ Technician ☑ Parts Manager

Connection of Axius Hydraulic Steering Hoses

Models Covered	Serial Number or Year
MerCruiser Axius and Axius SeaCore	All

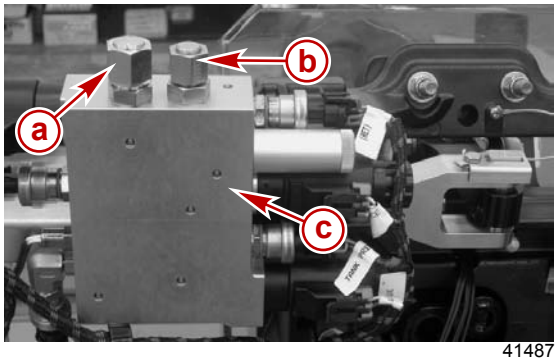
Situation

Hydraulic system contamination may cause Axius steering system failure. Follow the proper Axius steering system hydraulic hose connection procedure to help avoid hydraulic system contamination.

For new installations, do not remove the shipping caps or the shipping connector coupling the hydraulic power steering hoses together during shipment until ready to connect them to the hydraulic block fittings. If removing the hydraulic hoses for service, immediately cap both hydraulic hoses and steering cylinder hydraulic block fittings. Install the hydraulic hoses in one uninterrupted process. Do not leave the hydraulic system open longer than required to complete the installation.

Installation

1. Using a lint-free clean cloth, wipe the steering cylinder, hydraulic block and hose fittings and shipping caps clean.
2. Remove the shipping caps from the steering cylinder hydraulic block fittings.



41487

a - Low-pressure fitting with shipping cap
b - High-pressure fitting with shipping cap
c - Steering cylinder hydraulic block

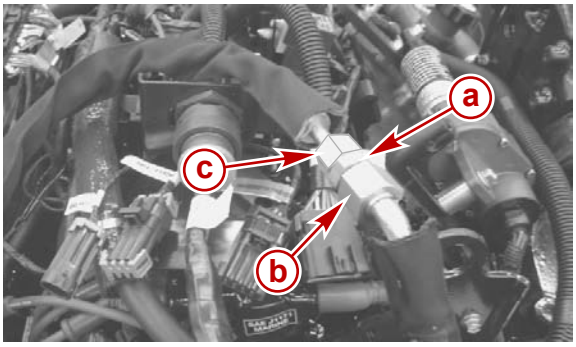
3. Using a lint-free cloth, wipe clean the hydraulic hoses and shipping connector.

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

provided by http://www.crowleymarine.com

4. Disconnect the hydraulic hoses from the shipping connector.



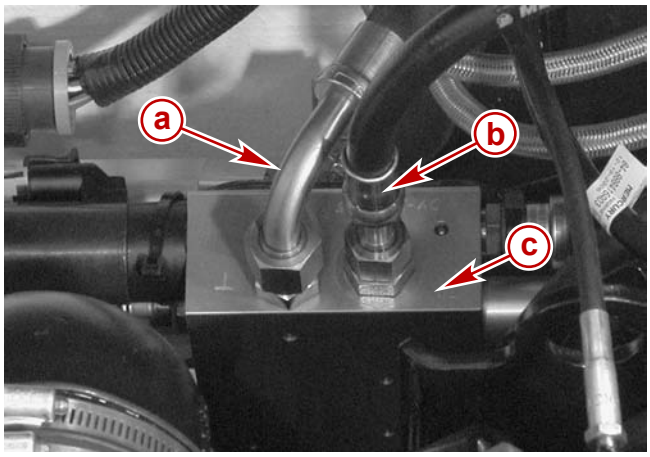
32739

a - Shipping connector
b - Low-pressure return hose
c - High-pressure hose

5. Lubricate the threads of the hydraulic hose fittings and their O-rings with clean lubricant.

Tube Ref No.	Description	Where Used	Part No.
28	Dexron III automatic transmission fluid	Hydraulic hose fitting threads and O-rings	Obtain Locally

6. Connect the hydraulic hoses to the fittings on the steering cylinder hydraulic block as shown.



31874

a - Low-pressure return hose
b - High-pressure hose
c - Steering cylinder hydraulic block

IMPORTANT: Overtightening the hydraulic hose fittings can damage the fitting threads, O-ring, or sealing surface. Do not exceed hydraulic hose fitting torque specifications. To ensure proper torque, use an extension and crowfoot to apply torque at 90°.

7. Tighten the hydraulic hose fittings to specification.

Description	Nm	lb-in.	lb-ft
Low-pressure return hose fitting	27-34	–	20-25
High-pressure hose fitting	47-54	–	35-40

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

provided by http://www.crowleymarine.com

Parts Information

Description	Part Number
Service kit (includes both caps and shipping connector)	879172A19
High-pressure fitting shipping cap	8M2013298
Low-pressure fitting shipping cap	8M2013299
Shipping connector (orifice fitting)	8M2006785

Tools Required

All tools should be obtained locally.

Component Description	Tool
Low-pressure hose fitting	15/16 in. open-end crowfoot
High-pressure hose fitting	13/16 in. open-end crowfoot
Both fittings	6-8 in. extension with retaining ball
Both fittings	Torque wrench (suitable for the range of torque values specified)

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

provided by http://www.crowleymarine.com