mercruiser
STERN DRIVES & INBOARDS

service bulletin

TO: SERVICE MANAGER ☐ MECHANICS ☐
PARTS MANAGER ☐

No. 91-15

Alpha One Generation II Stern Drive Unit - Special Tools List

A. Drive Shaft Housing Special Tools
B. Gear Housing (Standard Rotation) Special Tools
C. Gear Housing (Counter Rotation) Special Tools

NOTE: You may have some of the tools listed, as they are also used on older style Alpha One drive units. The underlined items are **NEW** tools unique to the Alpha One Generation II.

A. DRIVE SHAFT HOUSING SPECIAL TOOLS

Description	Tool Part No.
Adaptor	91-38756
Bearing Cup Driver	91-38918
Bearing Driver Cup	91-33493
Driver Cup	91-36577
Driver Rod	91-37323
Driver Tool	91-90774
Oil Seal Driver	91-817570
Shimming Tool (Driven Gear)	91-60526
Shimming Tool (Drive Gear)	91-60523
Slide Hammer Puller	91-34569A1
Torque Wrench (lb. in.)	91-66274
U-joint Bearing Retainer Wrench	91-17256
Universal Puller Plate	91-37241

B. GEAR HOUSING (STANDARD ROTATION) SPECIAL TOOLS

Description	Tool Part No.
Backlash Indicator Rod	91-53459
Bearing Carrier Retainer Wrench	91-61069
Bearing Preload Tool	91-14311A2*
Belleville Washer	12-54048
Dial Indicator	91-58222A1
Dial Indicator Holding Tool	91-89897
Drive Shaft Nut Wrench	91-56775
Driver Cup	91-36577
Drive Shaft Bearing Wrench	91-43506
Needle Bearing Driver	91-15755
Needle Bearing Driver	91-33491
Oil Seal Driver	91-31108
Oil Seal Driver	91-817569
Pinion Gear Shimming Tool	91-56048
Pinion Nut adapter (Includes the following item)	91-61067A3
Drive Shaft Adapter	91-61077
Puller Bolt	91-85716
Puller Jaws	91-46086A1
Slide Hammer Puller	91-34569A1
Torque Wrench (inch pound)	91-66274
Universal Puller Plate	91-37241
Water Pump Alignment Pins	91-821571A1
Universal Bearing Removal and Installation Tool (Includes the following items)	91-31229A5
Bearing Adapter	91-37263
Bearing Installation Tool	91-38628
Collar	91-30366
Driver Head	91-32336
Driver Head	91-36569
Driver Head	91-37311
Driver Head	91-37312
Driver Head	91-52393
Driver Head Rod	91-37323
Nut	11-24156
Pilot Washer	91-36571
Pilot Washer	91-37324
Pilot Washer	91-37350
Puller Plate	91-29310
Puller Head	91-36379
Puller Head	91-32325
Puller Head	91-38628
Puller Rod	91-52394
Puller Shaft	91-31229
Roller Bearing Removal and Installation Tool	91-37292
Washer	12-34961

*The 91-14311A2 Bearing Preload Tool is also used on Mercury and Mariner V-6 gearcases. Check your inventory before buying.

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C. GEAR HOUSING (COUNTER ROTATION) SPECIAL TOOLS

Description	Tool Part No.
Backlash Indicator Rod	91-53459
Bearing Adaptor Installation Tool	91-18605A1
Bearing Carrier Retainer Wrench	91-61069
Bearing Driver	91-816244
Bearing Preload Tool	91-14311A2*
Bearing Removal Tool	91-816245
Belleville Washer	12-54048
Dial Indicator	91-58222A1
Dial Indicator Holding Tool	91-89897
Drive Shaft Nut Wrench	91-56775
Drive Shaft Bearing Retainer Wrench	91-43506
Guide Plate	91-816243
Needle Bearing Driver	91-15755
Oil Seal Driver	91-31108
Oil Seal Driver	91-817569
Pinion Gear Shimming Tool	91-56048
Pinion Nut Adapter (Includes the following item)	91-61067A3
Drive Shaft Adapter	91-61077
Puller Bolt	91-85716
Puller Jaws	91-46086A1
Puller Jaws	91-816242
Slide Hammer Puller	91-34569A1
Forward Gear Installation Tool	91-815850
Torque Wrench (inch pound)	91-66274
Universal Puller Plate	91-37241
Water Pump Alignment Pins	91-821571A1
Universal Bearing Removal and Installation Tool (Includes the following items)	91-31229A5
Driver Head	91-36569
Driver Head Rod	91-37323
Nut	11-24156
Pilot Washer	91-36571
Puller Plate	91-29310
Puller/Driver Head	91-38628
Puller Shaft	91-31229
Washer	12-34961

*The 91-14311A2 Bearing Preload Tool is also used on Mercury and Mariner V-6 gearcases. Check your inventory before buying.

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