



# TECH EXCHANGE

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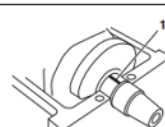
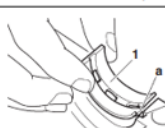
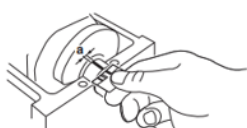
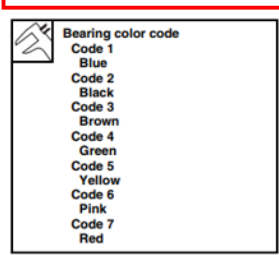
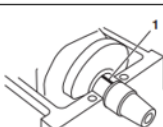
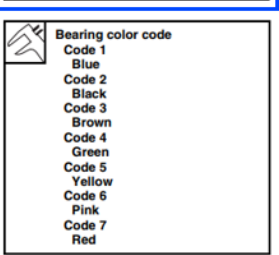
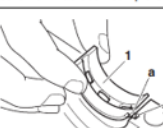
## SUBJECT: 2022 ~ 2023 MT-10 and MT-10 SP — Service Manual Correction – Incorrect Crankshaft Journal Bearing Selection Formula

### **I** INTRODUCTION

The 2022 ~ 2023 MT-10 and MT-10 SP Service Manual has been revised to correct an error. The Service Manual in the Knowledge Center on the Yamaha Dealer System (YDS) has been updated to show the correct and complete information. If you previously saved copies of the Service Manual to your local computer, check the applicable pages identified in this Technical Exchange to be sure they have the updated information as shown on the following pages. If not, please download the file again and replace your file copies.

Model	Service Manual Number	Chapter	Location	Applicable Page (s)
MT-10 / MT-10 SP	LIT-11616-35-64	Engine	Crankshaft and Balancer Shaft	5-88

### Page 5-88

Incorrect	CRANKSHAFT AND BALANCER SHAFT	Correct	CRANKSHAFT AND BALANCER SHAFT
<p>d. Put a piece of Plastigauge® "1" on each crankshaft journal.</p> <p><b>TIP</b> Do not put the Plastigauge® over the oil hole in the crankshaft journal.</p>  <p>G089020</p> <p>e. Install the crankshaft journal lower bearings "1" into the lower crankcase and assemble the crankcase halves.</p> <p><b>TIP</b></p> <ul style="list-style-type: none"> <li>Align the projections "a" of the crankshaft journal lower bearings with the notches "b" in the lower crankcase.</li> <li>Do not move the crankshaft until the clearance measurement has been completed.</li> </ul>  <p>G089019</p> <p>f. Tighten the bolts to specification in the tightening sequence cast on the crankcase. Refer to "CRANKCASE" on page 5-68.</p> <p>g. Remove the lower crankcase and the crankshaft journal lower bearings.</p> <p>h. Measure the compressed Plastigauge® width "a" on each crankshaft journal. If the crankshaft-journal-to-crankshaft-journal-bearing clearance is out of specification, select replacement crankshaft journal bearings.</p>	 <p>G089021</p> <p>4. Select:</p> <ul style="list-style-type: none"> <li>Crankshaft journal bearing (J<sub>1</sub>-J<sub>5</sub>)</li> </ul> <p><b>TIP</b></p> <ul style="list-style-type: none"> <li>The numbers "A" stamped into the crankshaft web and the numbers "B" stamped into the lower crankcase are used to determine the replacement crankshaft journal bearing sizes.</li> <li>"J<sub>1</sub>"-J<sub>5</sub>" refer to the bearings shown in the crankshaft and lower crankcase illustration.</li> </ul> <p>For example, if the crankcase "J<sub>1</sub>" and crankshaft web "J<sub>1</sub>" numbers are 5 and 2 respectively, then the bearing size for "J<sub>1</sub>" is:</p> <div style="border: 2px solid red; padding: 2px; display: inline-block;"> <p>"J<sub>1</sub>" (crankcase) - "J<sub>1</sub>" (crankshaft web) + 3 = 5 - 2 + 3 = 6 (pink)</p> </div>  <p style="text-align: center;">5-88</p>	 <p>G089021</p> <p>4. Select:</p> <ul style="list-style-type: none"> <li>Crankshaft journal bearing (J<sub>1</sub>-J<sub>5</sub>)</li> </ul> <p><b>TIP</b></p> <ul style="list-style-type: none"> <li>The numbers "A" stamped into the crankshaft web and the numbers "B" stamped into the lower crankcase are used to determine the replacement crankshaft journal bearing sizes.</li> <li>"J<sub>1</sub>"-J<sub>5</sub>" refer to the bearings shown in the crankshaft and lower crankcase illustration.</li> </ul> <p>For example, if the crankcase "J<sub>1</sub>" and crankshaft web "J<sub>1</sub>" numbers are 5 and 2 respectively, then the bearing size for "J<sub>1</sub>" is:</p> <div style="border: 2px solid blue; padding: 2px; display: inline-block;"> <p>"J<sub>1</sub>" (crankcase) - "J<sub>1</sub>" (crankshaft web) + 4 = 5 - 2 + 4 = 7 (red)</p> </div>  <p style="text-align: center;">5-88</p>	 <p>G089019</p> <p>f. Tighten the bolts to specification in the tightening sequence cast on the crankcase. Refer to "CRANKCASE" on page 5-68.</p> <p>g. Remove the lower crankcase and the crankshaft journal lower bearings.</p> <p>h. Measure the compressed Plastigauge® width "a" on each crankshaft journal. If the crankshaft-journal-to-crankshaft-journal-bearing clearance is out of specification, select replacement crankshaft journal bearings.</p>