



Technical Service Information

MITSUBISHI F4A40/50 SERIES SHUDDERING ENGAGEMENTS OR HARSH SHIFTS

COMPLAINT: After overhaul, vehicles equipped with the F4A40/50 series transaxles may exhibit Shuddering engagements into gear or Harsh upshifts.

CAUSE: The cause may be, during overhaul, the Accumulator Pistons and springs were installed backwards into the case or the springs were mis-assembled in the Accumulator Pistons.

CORRECTION: Refer to Figure 1 for the spring dimensions for each Accumulator piston, and to Figure 2 for the correct accumulator identification and placement.

NOTE: *Ensure that each Accumulator line-up is placed into the case springs first.*

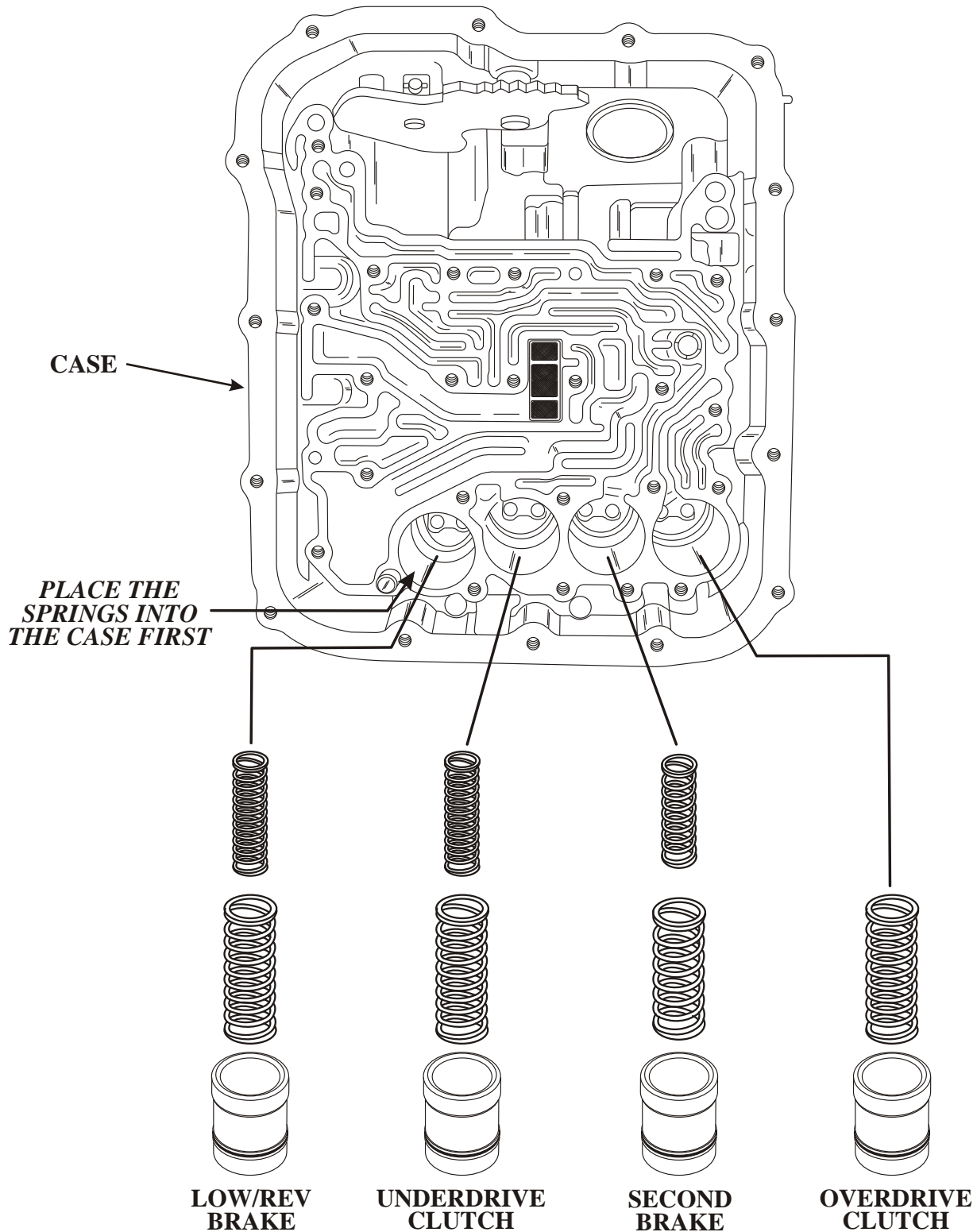
ACCUMULATOR SPRING DIMENSIONS

APPLICATION	SPRING	COIL DIAMETER	FREE LENGTH	APPROX. # OF COILS	COLOR
<i>LOW/REV BRAKE</i>	<i>OUTER</i>	<i>.136"</i>	<i>2.590"</i>	<i>12</i>	<i>PLAIN</i>
<i>LOW/REV BRAKE</i>	<i>INNER</i>	<i>.102"</i>	<i>2.273"</i>	<i>15</i>	<i>PLAIN</i>
<i>UNDERDRIVE CLUTCH</i>	<i>OUTER</i>	<i>.158"</i>	<i>2.545"</i>	<i>12</i>	<i>BLACK</i>
<i>UNDERDRIVE CLUTCH</i>	<i>INNER</i>	<i>.113"</i>	<i>2.093"</i>	<i>15</i>	<i>BLACK</i>
<i>SECOND BREAK</i>	<i>OUTER</i>	<i>.138"</i>	<i>2.575"</i>	<i>10</i>	<i>BLACK</i>
<i>SECOND BREAK</i>	<i>INNER</i>	<i>.113"</i>	<i>2.127"</i>	<i>9</i>	<i>BLACK</i>
<i>OVERDRIVE CLUTCH</i>	<i>OUTER</i>	<i>.158"</i>	<i>2.545"</i>	<i>12</i>	<i>PLAIN</i>
<i>OVERDRIVE CLUTCH</i>	<i>NO INNER SPRING ON THE OVERDRIVE CLUTCH</i>				

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Figure 1

ACCUMULATOR PISTON AND SPRING PLACEMENT IN THE CASE



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Figure 2