

NISSAN/INFINITI RE5R05A GEAR RATIO ERROR CODES AND OR TCM INCOMPATIBILITY CODES

COMPLAINT: Nissan/Infiniti vehicles equipped with the RE5R05A may exhibit a complaint of gear ratio error codes and or Transmission incompatibility issues, as in a trouble code for a missing Manual shift switch, when the vehicle you are working on does not utilize a Manual shift switch, after transmission replacement.

CAUSE: The cause may be, that when the transmission was exchanged, the TCM, which is internal to the transmission on most models, was not compatible with the vehicles shifter assembly that it was installed into. Refer to Figures 2 thru 4 to see that there are three different gear ratio charts and planetary tooth counts available, and Figures 5 and 6 for locations. Care must be taken to ensure the correct planetary assemblies are used in the vehicle that is being repaired.

CORRECTION: To correct this condition, identify the original transmission that you are repairing by the tag shown in Figure 1. Use this information to I.D. a core that you may be dis-assembling for used planetaries and or a used TCM, and ensure that is compatible. Refer to Figures 7, 8 and 9 for Model I.D. that will include a planetary ratio chart and vehicle application for 2 and 4 wheel drive. ATSG highly recommends counting all planetary assemblies being replaced to verify the same ratios are going back in the transmission.

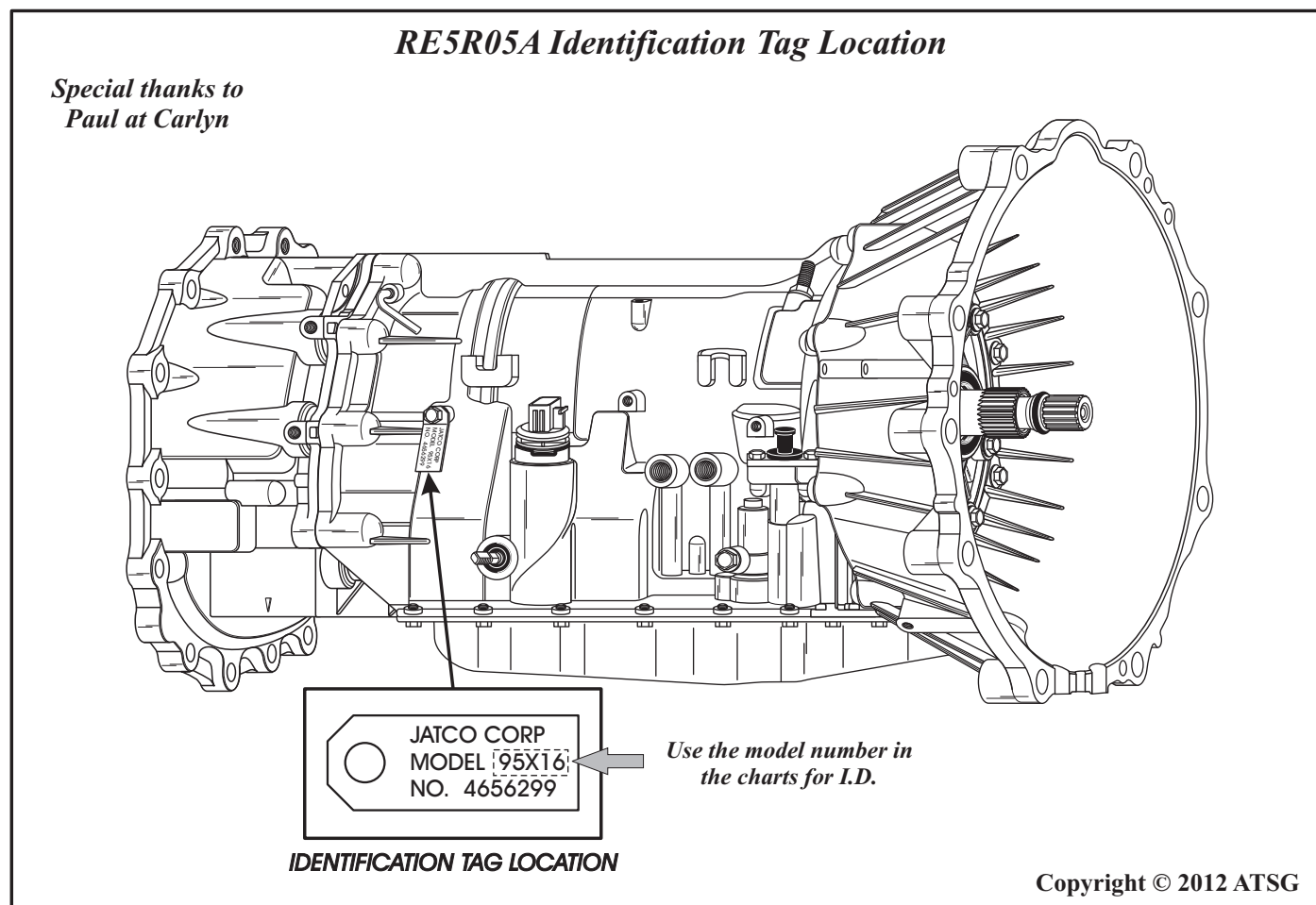
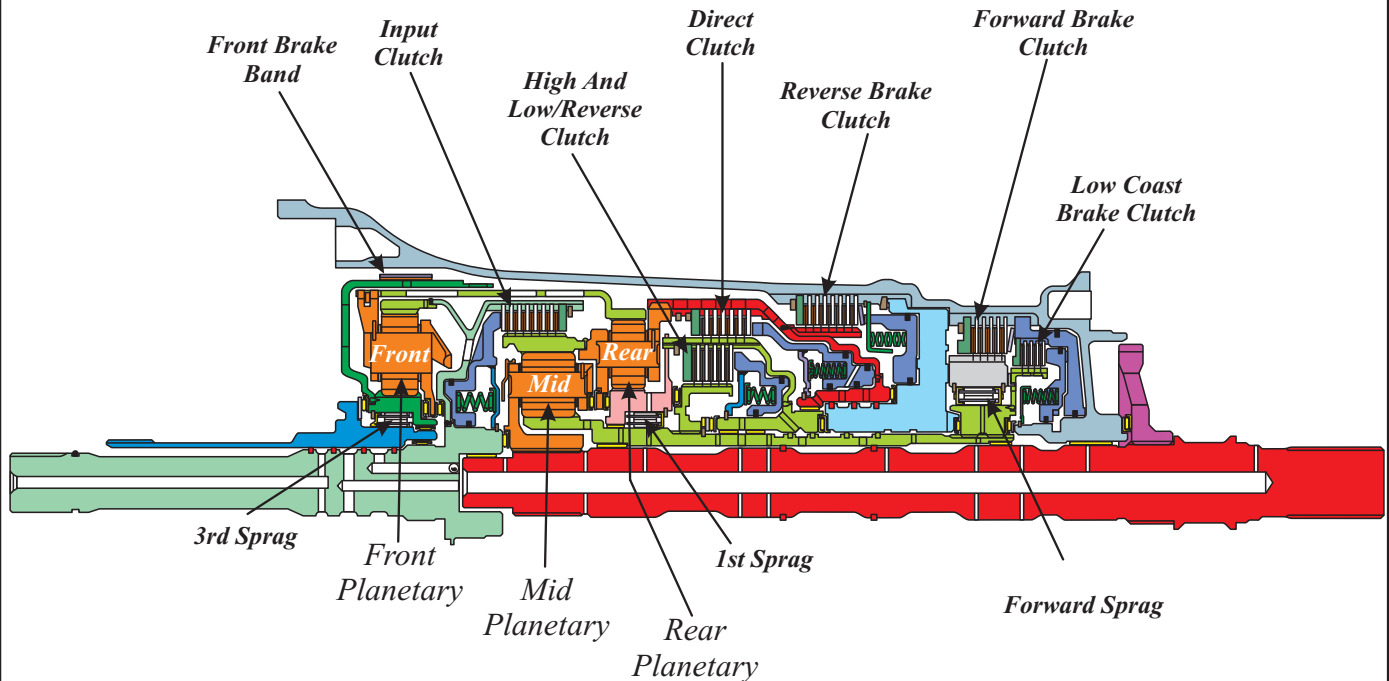


Figure 1

NISSAN/INFINITI RE5R05A GEAR RATIO ERROR CODES AND OR TCM INCOMPATIBILITY CODES

Internal Components Location



Note: Tooth counts must match when replacing Planetary assemblies

Figure 2

3 Planetary Assembly Tooth Counts/Ratios

CHART "A" CHART "B" CHART "C"

<i>Front Ring gear</i>	<i>102</i>	<i>102</i>	<i>106</i>
<i>Front planetary pinion</i>	<i>24</i>	<i>25</i>	<i>28</i>
<i>Front Sun gear</i>	<i>54</i>	<i>53</i>	<i>50</i>
<i>Mid Ring gear</i>	<i>78</i>	<i>77</i>	<i>78</i>
<i>Mid planetary pinion</i>	<i>18</i>	<i>17</i>	<i>18</i>
<i>Mid Sun gear</i>	<i>42</i>	<i>43</i>	<i>42</i>
<i>Rear Ring gear</i>	<i>98</i>	<i>99</i>	<i>110</i>
<i>Rear planetary pinion</i>	<i>18</i>	<i>19</i>	<i>24</i>
<i>Rear Sun gear</i>	<i>62</i>	<i>61</i>	<i>62</i>

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Figure 3



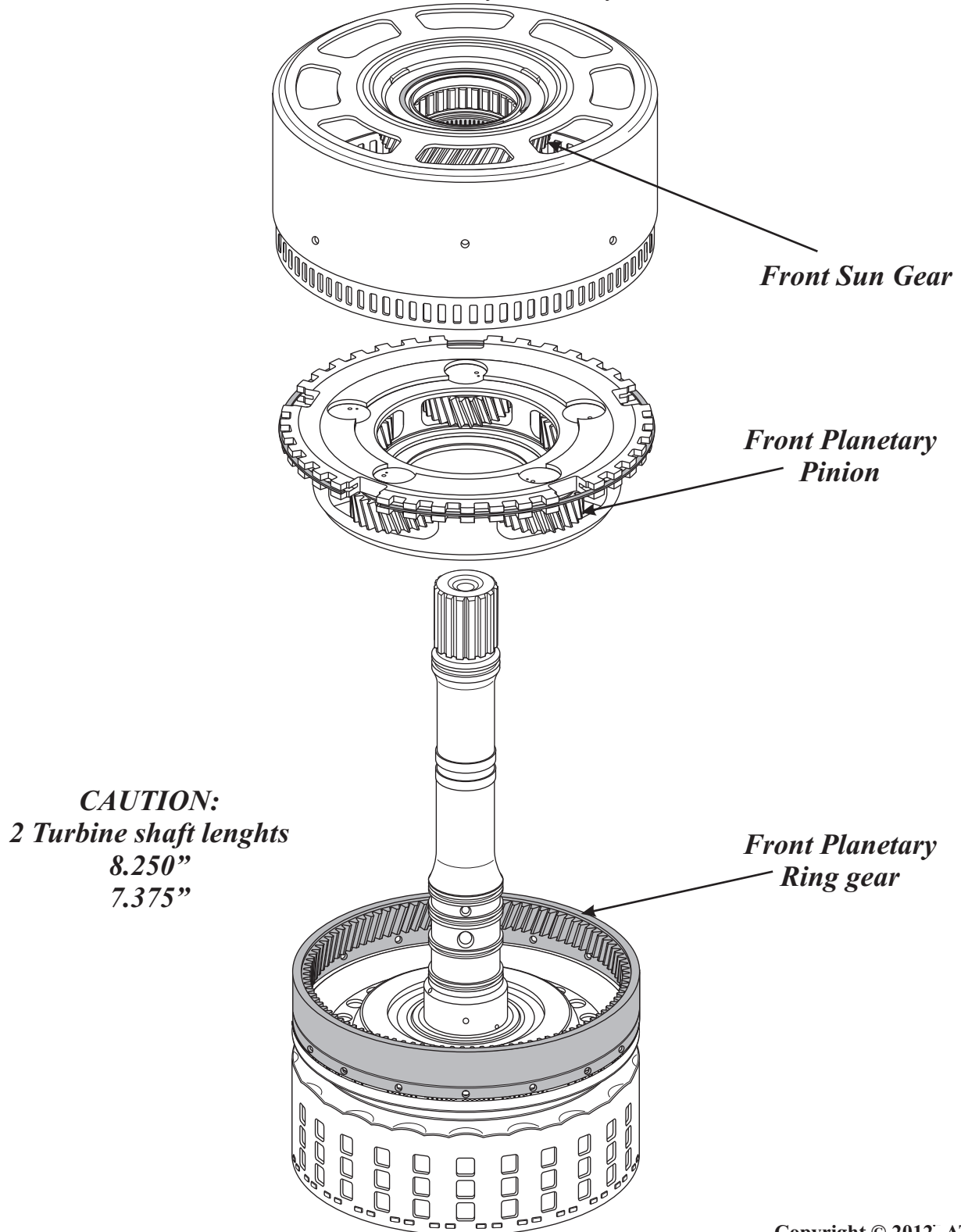
NISSAN/INFINITI RE5R05A

GEAR RATIO ERROR CODES AND OR TCM INCOMPATIBILITY CODES

<i>3 Gear Ratios</i>		
<u>CHART "A"</u>	<u>CHART "B"</u>	<u>CHART "C"</u>
<i>1st - 3.842</i>	<i>1st - 3.827</i>	<i>1st - 3.540</i>
<i>2nd - 2.353</i>	<i>2nd - 2.368</i>	<i>2nd - 2.264</i>
<i>3rd - 1.529</i>	<i>3rd - 1.520</i>	<i>3rd - 1.417</i>
<i>4th - 1.000</i>	<i>4th - 1.000</i>	<i>4th - 1.000</i>
<i>5th - .839</i>	<i>5th - .834</i>	<i>5th - .834</i>
<i>Reverse - 2.765</i>	<i>Reverse - 2.613</i>	<i>Reverse - 2.370</i>
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Figure 4

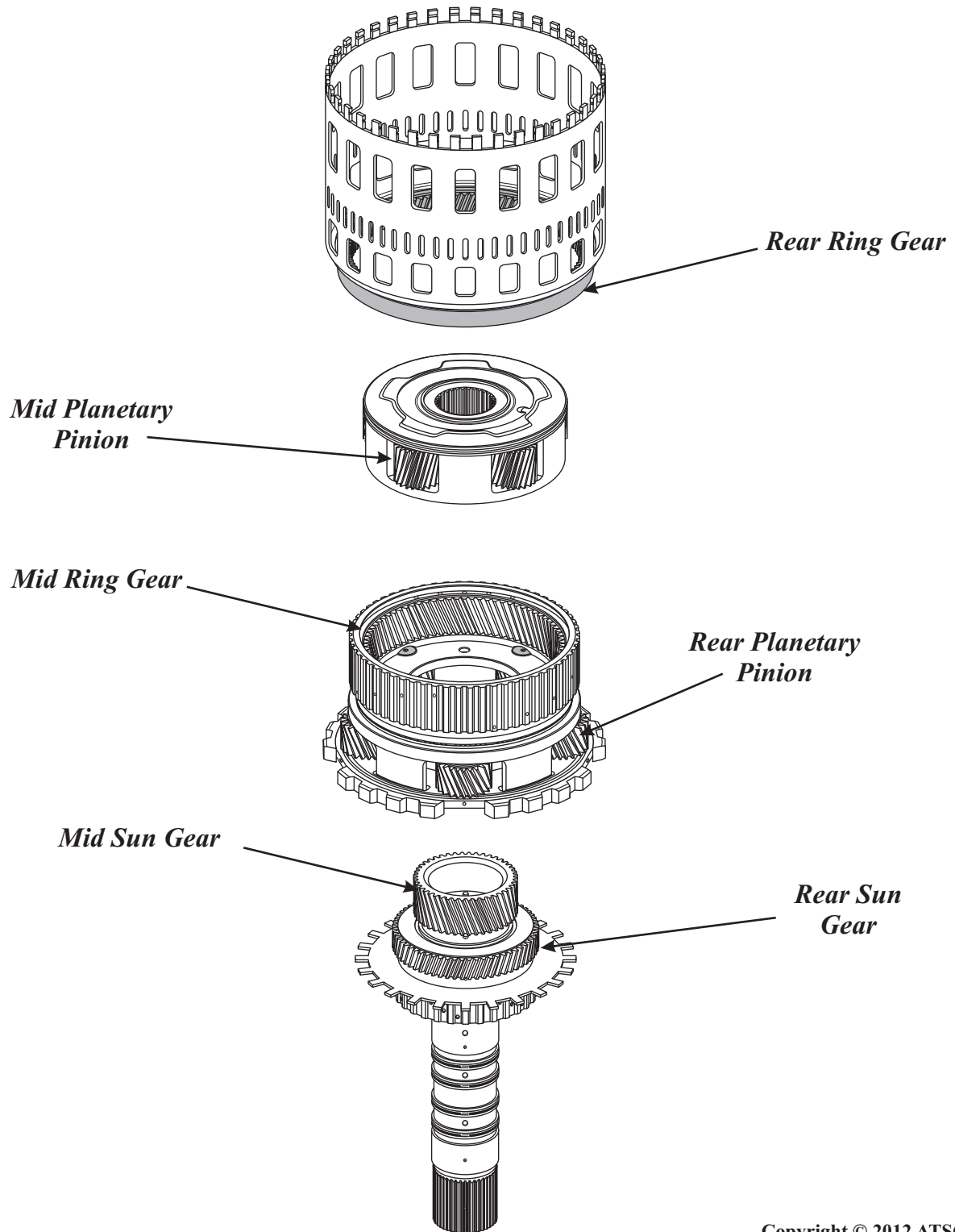
Front Planetary Assembly



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Figure 5

Mid And Rear Planetary Assembly



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Figure 6



Technical Service Information

<i>VEHICLE APPLICATION</i>	<i>4X2 MODEL NUMBERS</i>	<i>RATIO CHART</i>	<i>4X4 MODEL NUMBERS</i>	<i>RATIO CHART</i>
03 Nissan 350Z	90X72, 91X05, 91X22	C		
04 Nissan 350Z	92X06	C		
05 Nissan 350Z	92X60	C		
06 Nissan 350Z	90X5C	C		
07 Nissan 350Z	98X5B	A		
08 Nissan 350Z	99X5B	A		
09 Nissan 350Z	99X5B	A		
05 Nissan Frontier	97X00	A	97X01	A
06 Nissan Frontier	97X06, 97X0A	A	97X0B	A
07 Nissan Frontier	97X9E, 98X0A	A	98X0B	A
08 Nissan Frontier	97X08, 97X0A	A	97X0B	A
09 Nissan Frontier	(2.5L)3EX3D,(4.0L) 99X9E	A	(4.0L) 3EX0A	A
05 Nissan Pathfinder	97X00	A	97X01	A
06 Nissan Pathfinder	97X4A	A	97X4B	A
07 Nissan Pathfinder	98X0A	A	97X0B	A
08 Nissan Pathfinder 4.0L	98X3E	A	98X4A	A
09 Nissan Pathfinder 4.0L	99X9E	A	3EX0A,3EX0B	A
08 Nissan Pathfinder 5.6L	96X0A	B	96X0B	B
09 Nissan Pathfinder 5.6L	96X0A	B	96X5B	B
05,06 Nissan Xterra	97X0A	A	97X0B	A
07 Nissan Xterra	98X0A	A	98X0B	A
08 Nissan Xterra	99X1B	A	99X1C	A
09 Nissan Xterra	99X9E	A	3EX0A	A
04 Armada/ Titan	95X13, 95X14	B	95X16	B
05 Armada/ Titan	95X17	B	95X18	B
06 Armada/ Titan	95X1C	B	95X1D	B
07 Armada/ Titan	95X5B	B	95X5C	B
08 Armada/ Titan	95X8D	B	95X8E	B
09 Armada/ Titan	96X2E,96X3C	B	96X3A,96X3D	B

Figure 7

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Technical Service Information

<i>VEHICLE APPLICATION</i>	<i>4X2 MODEL NUMBERS</i>	<i>RATIO CHART</i>	<i>4X4 MODEL NUMBERS</i>	<i>RATIO CHART</i>
05-09 Kia Sorento	A5SR1 (no tag)	B	A5SR1 (no tag)	B
03 Infinity G35 Coupe	90X17	C		
03 Infinity G35 Sedan	90X09	C		
04 Infinity G35 Coupe	91X18	C		
04 Infinity G35 Sedan	91X17	C		
05 Infinity G35 Coupe	92X62	C		
05 Infinity G35 Sedan	92X18	C	92X19	C
06 Infinity G35 Coupe	97X3E	A		
06 Infinity G35 Sedan	97X3D	A	90X6D	C
07 Infinity G35 Coupe	90X4C	A		
07 Infinity G35 Sedan	97X2E	A	97X3A	A
08 Infinity G35 Coupe	97X3C	A		
08 Infinity G35 Sedan	99X6A	A	99X6B	A
03,04 Infinity FX35/45	91X07, 91X08	C	(FX45)91X09	C
05 Infinity FX35/45	92X20, 92X21	C	(FX45)92X22	C
06 Infinity FX35/45	90X4B, 90X4C	C	(FX45)95X2B	B
07 Infinity FX35/45	91X0E, 91X1A	C	(FX45)95X8C	B
08 Infinity FX35/45	91X3A, 91X3B	C	(FX45)96X1C	B
08 Infinity EX35	98X6E	A	98X7A	A
09 Infinity EX35	3EX4C	A	3EX4D	A
03 Infinity M45	90X69, 91X14	C		
04,05 Infinity M45	91X78	C		
06 Infinity M35/45	97X06,(M45) 95X12	A, (M45) B	97X07	A
07 Infinity M35	98X1D	A	98X1C	A
07 Infinity M45	95X7A	B		
08 Infinity M35	99X1E	A	99X2A	A
08 Infinity M45	96X2A	B	96X2B	B
09 Infinity M35			3EX1A	A
09 Infinity M45	96X6A	B	96X6B	B

Figure 8

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Technical Service Information

<i>VEHICLE APPLICATION</i>	<i>4X2 MODEL NUMBERS</i>	<i>RATIO CHART</i>	<i>4X4 MODEL NUMBERS</i>	<i>RATIO CHART</i>
03 Infinity Q45	90X69	C		
04 Infinity Q45	91X78	C		
05 Infinity Q45	92X12	C		
04 Infinity QX56	95X13	B	95X14	B
05 Infinity QX56	95X17	B	95X18	B
06 Infinity QX56	95X1C	B	95X1D	B
07 Infinity QX56	95X5B	B	95X5C	B
08 Infinity QX56	95X5B	B	95X5C	B
09 Infinity QX56	96X2E,96X3C	B	96X3A,96X3D	B

Figure 9

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Note: The information compiled was only available to 2009 and was courtesy of Alldata