

AOP-1 R4 and R6 SETUP CHART

The chart below is a guideline with very close start points with 30-33" tires riding at Sea Level elevation. (choose the Crankshaft horsepower/Wheel horsepower that best matches your X3) (Identical cars may have HP differences of up to 10 HP due to engine manufacturing tolerances so clutch kit calibration adjustments are necessary in most cases)

For High Altitudes- subtract 15% from the Published HP range of your tune to get actual effective HP. **Example - 200 CHP (at sea level) x .85 = 170CHP (use the 175CHP line in the chart below as your baseline setting)**

For sand dunes or large tires (35"+)- subtract 8% from the Published HP range of your tune to get actual effective HP. **Example - 200 CHP x .92 = 184CHP (use the 175CHP line in the chart below as your baseline setting)**

For tires 28" and smaller- Add 8% from the Published HP range of your tune to get actual effective HP. **Example - 200 CHP x 1.08 = 216CHP (use the 215CHP line in the chart below as your baseline setting)**

For Launch Control - Install the HIGH ENGAGEMENT primary spring (Sold Separately) as it is a high engagement spring and will raise engagement RPMS. Add 2 thick magnets or install a longer pivot bolt (if the magnet slots are full) to the suggested settings in the chart below compensate shift RPM for additional HIGH ENGAGEMENT spring pressure.

Crankshaft horsepower (CHP) /Wheel horsepower (WHP)	# of Magnets per cam arm	Pivot bolt	Clicker setting	Primary spring	Secondary spring / Helix / hole	Belt Recommendation	Full throttle RPM at 55mph
120CHP/100WHP	Empty, no magnets	25mm	Position #3 (Factory Setting)	OEM	OEM TURBO RR HELIX- OEM TURBO RR Black/Green secondary spring in hole #3 (60 degrees wrap) KWI DR3 GROOVIX - OEM TURBO RR Black/Green secondary spring in hole #3 (80 degrees wrap)	Gates 48R4289 Gboost WBB652RS OR WBB383	7950 RPM +/- 100 RPM (ALL OEM TURBOS)
152CHP/130WHP	0 in mid 2 in tip	25mm					
175CHP/165WHP	0 in mid 4 in tip	30mm					
195CHP/175WHP	2 in mid 4 in tip	25mm			OEM TURBO RR HELIX- OEM TURBO RR Black/Green secondary spring in hole #4 (30 degrees wrap) KWI DR3 GROOVIX- OEM TURBO RR Black/Green secondary spring in hole #2 (35 degrees wrap)		
215CHP/185WHP	2 in mid 4 in tip	30mm					
225CHP/195WHP	2 in mid 4 in tip	35mm			DSS (Dual Spring Secondary) WITH DR3 GROOVIX- OEM TURBO RR Black/Green secondary spring in hole #2 (35 degrees wrap) and dual spring installed.		
255CHP/225WHP	4 in mid 4 in tip	35mm					
265CHP/230WHP	2 in mid 4 in tip	35mm			KWI GROOVIX DR3 HELIX- KWI DARK BLUE/PINK SPRING IN HOLE #4 (15 degrees wrap) DSS (Dual Spring Secondary) WITH DR3 GROOVIX- OEM TURBO RR Black/Green secondary spring in hole #2 (35 degrees wrap) and dual spring installed.		
290CHP/250WHP	4 in mid 4 in tip	35mm					
330CHP/275WHP	2 in mid 4 in tip	35mm			KWI DSS (Dual Spring Secondary) WITH DR3 GROOVIX- OEM TURBO RR Black/Green secondary spring in hole #2 (35 degrees wrap) and dual spring installed.		
360CHP/310WHP	2 in mid 4 in tip	35mm					

PDRIVE PRIMARY NOT RECOMMENDED ABOVE 370CHP/320WP.

AOP-1 REVISION 5 SETUP CHART

The chart below is a guideline with very close start points with 30-33" tires riding at Sea Level elevation. (choose the Crankshaft horsepower/Wheel horsepower that best matches your X3) (Identical cars may have HP differences of up to 10 HP due to engine manufacturing tolerances so clutch kit calibration adjustments are necessary in most cases)

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152CHP/130WHP	Empty, no magnets	35mm					
175CHP/165WHP	2 in mid 0 in tip	35mm					
195CHP/175WHP	4 in mid 0 in tip	35mm			OEM TURBO RR HELIX- OEM TURBO RR Black/Green secondary spring in hole #3 (60 degrees wrap) FOR KWI DR3 GROOVIX- OEM TURBO RR Black/Green secondary spring in hole #3 (80 degrees wrap)		
215CHP/185WHP	4 in mid 0 in tip	35mm					
225CHP/195WHP	4 in mid 0 in tip	35mm			KWI DSS (Dual Spring Secondary) WITH DR3 GROOVIX- OEM TURBO RR Black/Green secondary spring in hole #2 (35 degrees wrap) and dual spring installed.		
255CHP/225WHP	4 in mid 0 in tip	35mm					
265CHP/230WHP	4 in mid 0 in tip	35mm			KWI GROOVIX DR3 HELIX- KWI DARK BLUE/PINK SPRING IN HOLE #2 (60 degrees wrap) KWI DSS (Dual Spring Secondary) WITH DR3 GROOVIX- OEM TURBO RR Black/Green secondary spring in hole #3 (60 degrees wrap) and dual spring installed.		
290CHP/250WHP	4 in mid 2 in tip	35mm					
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360CHP/310WHP	4 in mid 0 in tip	35mm					

PDRIVE PRIMARY NOT RECOMMENDED ABOVE 370CHP/320WP