

# Oval Shock Tuning Guide by Pat Dotson

CORNER PHASE	MORE UNDERSTEER		MORE OVERSTEER	
	Left Front	Right Front	Left Front	Right Front
<b>Phase 1 Entry</b>				
Increasing Braking & Increasing Steering	Bump -	Bump +	Bump +	Bump -
	Left Rear	Right Rear	Left Rear	Right Rear
		Rebound - ***		Rebound + ***

CORNER PHASE	MORE UNDERSTEER		MORE OVERSTEER	
	Left Front	Right Front	Left Front	Right Front
<b>Phase 2 Entry</b>				
Decreasing Braking & Increasing Steering	Rebound +		Rebound -	
	Left Rear	Right Rear	Left Rear	Right Rear
		Bump -		Bump +

CORNER PHASE	MORE UNDERSTEER		MORE OVERSTEER	
	Left Front	Right Front	Left Front	Right Front
<b>Phase 3A Entry</b>				
Pre-Apex Constant Throttle & Increasing Steering	Rebound +	Bump +	Rebound -	Bump -
	Left Rear	Right Rear	Left Rear	Right Rear
	Rebound -	Bump -	Rebound +	Bump +

CORNER PHASE	MORE UNDERSTEER		MORE OVERSTEER	
	Left Front	Right Front	Left Front	Right Front
<b>Phase 3B Exit</b>				
Post-Apex Constant Throttle & Decreasing Steering	Bump -	Rebound -	Bump +	Rebound +
	Left Rear	Right Rear	Left Rear	Right Rear
	Bump +	Rebound + ***	Bump -	Rebound - ***

CORNER PHASE	MORE UNDERSTEER		MORE OVERSTEER	
	Left Front	Right Front	Left Front	Right Front
<b>Phase 4 Exit</b>				
Increasing Throttle & Decreasing Steering		Rebound -		Rebound +
	Left Rear	Right Rear	Left Rear	Right Rear
	Bump +	Bump -	Bump -	Bump +

<b>Unbalanced Entry &amp; Exit (LR Rebound)</b>	<b>Tight In &amp; Loose Off (Increase)</b>	<b>Loose In &amp; Tight Off (Decrease)</b>	<b>*** Changing Right Rear shock rebound settings will have opposite affects on entry and exit.</b>
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CORNER PHASE	MORE UNDERSTEER		MORE OVERSTEER	
	Left Front	Right Front	Left Front	Right Front
Phase 1 Entry				
Increasing Braking & Increasing Steering	Softer	Stiffer	Stiffer	Softer
	Left Rear	Right Rear	Left Rear	Right Rear
		Softer		Stiffer

CORNER PHASE	MORE UNDERSTEER		MORE OVERSTEER	
	Left Front	Right Front	Left Front	Right Front
Phase 2 Entry				
Decreasing Braking & Increasing Steering		Stiffer		Softer
	Left Rear	Right Rear	Left Rear	Right Rear
	Stiffer	Softer	Softer	Stiffer

CORNER PHASE	MORE UNDERSTEER		MORE OVERSTEER	
	Left Front	Right Front	Left Front	Right Front
Phase 3 Apex				
Constant Throttle on a Flat Track		Stiffer		Softer
	Left Rear	Right Rear	Left Rear	Right Rear
		Softer		Stiffer

CORNER PHASE	MORE UNDERSTEER		MORE OVERSTEER	
	Left Front	Right Front	Left Front	Right Front
Phase 3 Apex				
On a Banked Track change both cross axis or jacking axis springs.	Softer	Stiffer	Stiffer	Softer
	Left Rear	Right Rear	Left Rear	Right Rear
	Stiffer	Softer	Softer	Stiffer

CORNER PHASE	MORE UNDERSTEER		MORE OVERSTEER	
	Left Front	Right Front	Left Front	Right Front
Phase 4 Exit				
Increasing Throttle & Decreasing Steering				
	Left Rear	Right Rear	Left Rear	Right Rear
	Stiffer	Softer	Softer	Stiffer

**\*\*\* Change only one spring at a time and reset ride height before making any other setup changes.**