



# Wheel Tolerances and Truing Spec

**Spoke and Nipple Lubrication:** Spoke threads lightly coated with “Rock-N-Roll” or other high-web grease prior to lacing, then secured with Loctite #290 (green) after final truing. To true any American Classic wheel, you need to use a spoke holding clamp tool to avoid spoke twisting. **Nipple Holes:** Lubricated with Triflow/STP mix prior to nipple insertion or tensioning. American Classic does not sell individual nipples, spokes or rims.

<b>TRUENESS:</b>	ALLOY and MAGNESIUM (NEW):	LATERAL: 0.15mm = 0.006 inch
		RADIAL: 0.20mm = 0.008 inch
	ALLOY and MAGNESIUM (REBUILT):	LATERAL: 0.30mm = 0.011 inch
		RADIAL: 0.30mm = 0.011 inch
	CARBON:	LATERAL: 0.20mm = 0.008 inch
		RADIAL: 0.30mm = 0.011 inch

**DISH:** To Within 1mm

RIM MATERIAL:	SPOKE TENSION:	SPOKE TYPE:	DT GAUGE READING:	
<b>ALLOY:</b>	<b>FRONT:</b> 90 ~ 110 Kgf:	AC 2.0-1.8 ROUND	= 1.70 ~ 1.89mm	
		AC 2.0-1.8 ROUND-SPRINT 350	= 1.60 ~ 1.79mm	
		AC 2.0-1.0 x 3.2 BLADE	= 0.65 ~ 0.81mm	
		AC 2.0-1.6 RACE ROUND	= 1.35 ~ 1.54mm	
		AC 2.0-0.95 x 2.2 RACE BLADE	= 0.35 ~ 0.50mm	
		SAPIM: CX-RAY	= 0.33 ~ 0.49mm	
	<b>DRIVE:</b> 90 ~ 120 Kgf:	AC 2.0-1.8 ROUND	= 1.70 ~ 1.96mm	
		AC 2.0-1.8 ROUND-SPRINT 350	= 1.60 ~ 1.85mm	
		AC 2.0-1.0 x 3.2 BLADE	= 0.65 ~ 0.88mm	
		AC 2.0-1.6 RACE ROUND	= 1.35 ~ 1.61mm	
AC 2.0-0.95 x 2.2 RACE BLADE		= 0.35 ~ 0.60mm		
	SAPIM: CX-RAY	= 0.33 ~ 0.57mm		
	<b>NON-DRIVE:</b> ALL SPOKES	AS REQUIRED FOR DISHING.		
<b>CARBON:</b>	<b>FRONT:</b> 80 ~ 100 Kgf:	AC 2.0-1.8 ROUND	= 1.60 ~ 1.80mm	
		AC 2.0-1.0 x 3.2 BLADE	= 0.40 ~ 0.60mm	
		SAPIM: CX-RAY	= 0.23 ~ 0.42mm	
	<b>DRIVE:</b> 80 ~ 100 Kgf:	AC 2.0-1.8 ROUND	= 1.60 ~ 1.80mm	
		AC 2.0-1.0 x 3.2 BLADE	= 0.45 ~ 0.65mm	
		SAPIM: CX-RAY	= 0.23 ~ 0.42mm	
		<b>NON-DRIVE:</b> ALL SPOKES	AS REQUIRED FOR DISHING.	
	<b>MAGNESIUM:</b>	<b>FRONT:</b> 90 ~ 110 Kgf:	AC 2.0-1.8 ROUND	= 1.65 ~ 1.80mm
			AC 2.0-0.95 x 2.2 RACE BLADE	= 0.35 ~ 0.50mm
			SAPIM: CX-RAY	= 0.28 ~ 0.42mm
<b>DRIVE:</b> 90 ~ 120 Kgf:		AC 2.0-1.8 ROUND	= 1.65 ~ 1.80mm	
		AC 2.0-0.95 x 2.2 RACE BLADE	= 0.35 ~ 0.60mm	
		SAPIM: CX-RAY	= 0.33 ~ 0.42mm	
		<b>NON-DRIVE:</b> ALL SPOKES	AS REQUIRED FOR DISHING	