



# R-4 RASP & REFILLS

## RASP COMPONENTS

R-4 AP (All Purpose) Hub	Art. No: 111006
R-4 AP (All Purpose) Hub Convex	Art. No: 111007
R-4 NS (Non Spiral) Hub	Art. No: 111008
R-4 REG (Regular) Hub	Art. No: 111009
TURBO Application (Special Cooling Channels / recommended)	Art. No: 111400

## PINS



Pins 5/16" 96 mm (Standard length)



Pins 5/16" Curved with Radius 75 mm, length 96 mm

Pins 1/4" 96 mm (Standard length)	Art. No: 111201
Pins 1/4" 102 mm (Standard length)	Art. No: 111202
Pins 1/4" Length on demand (less than 102 mm)	Art. No: 111203
Pins 1/4" Length on demand (longer than 102 mm)	Art. No: 111204
Pins 1/4" Curved with Radius 100 mm, length 96 mm	Art. No: 111209
Repinning Curved pins incl. alignment (recommended)	Art. No: 111213



R-4 3/8" I-Beam Spacer

## SPACERS ALU I-BEAM

R-4 Aluminium I-Beam Spacer 3/8"	Art. No: 111310
R-4 Aluminium I-Beam Spacer 1/4"	Art. No: 111311
R-4 Aluminium I-Beam Spacer 3/16"	Art. No: 111312
R-4 Convex Aluminium I-Beam Spacer 3/8"	Art. No: 111352
R-4 Convex Aluminium I-Beam Spacer 1/4"	Art. No: 111353

Pinhole 7.7 mm  
Pinhole 7.7 mm



R-4 Aircooled Aluminium Spacer 3/8"

## SPACERS ALU AIRCOOLED

R-4 Aircooled Aluminium Spacer 3/8"	Art. No: 111313
R-4 Aircooled Aluminium Spacer 1/4"	Art. No: 111314
R-4 Aircooled Aluminium Spacer 3/16"	Art. No: 111315
R-4 Convex Aircooled Aluminium Spacer 3/8"	Art. No: 111357
R-4 Convex Aircooled Aluminium Spacer 1/4"	Art. No: 111324
R-4 Convex Aircooled Aluminium Spacer 3/16"	Art. No: 111358

Pinhole 7.7 mm  
Pinhole 7.7 mm  
Pinhole 7.7 mm

## SPACERS HD

R-4 AP HD Spacer, 6 mm	Art. No: 111406
R-4 AP Convex HD Spacer, 6 mm	Art. No: 111407
R-4 NS HD Spacer, 6 mm	Art. No: 111408
R-4 REG HD Spacer, 6 mm	Art. No: 111409
R-4 REG Convex HD Spacer, 6 mm	Art. No: 111415

R-4 is equipped with pins  $\varnothing$  1/4" / 6.35 mm,  
Saturn II with  $\varnothing$  5/16" / 7.9 mm