

# pushPIN™ Heat Sink Attachments

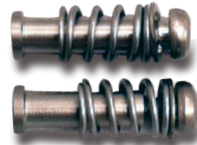
ATTACHMENT OPTIONS FOR ATS PUSHPIN™ HEATSINKS



Push Pins



Push Pin Spring Kits



Hardware Kits



## Individual Push Pins

Part #	Description	Dimensions			
		HEIGHT (mm)	OVERALL HEIGHT (mm)	WEIGHT (gr)	BOARD HOLE SIZE (mm)
ATS-PP-01	Brass Push Pin, 9 mm	9.0	10.3	.9	3.175
ATS-PP-02	Brass Push Pin, 10 mm	10.0	11.3	0.9	3.175
ATS-PP-03	Brass Push Pin, 11 mm	11.0	12.3	1.0	3.175
ATS-PP-04	Brass Push Pin, 12 mm	12.0	13.3	1.0	3.175
ATS-PP-05	Brass Push Pin, 13 mm	13.0	14.3	1.1	3.175
ATS-PP-06	Brass Push Pin, 14 mm	14.0	15.3	1.1	3.175
ATS-PP-08	Brass Push Pin, 18 mm	18.0	19.3	1.4	3.175
ATS-PP-09	Brass Push Pin, 20 mm	20.3	21.6	1.5	3.175

## Individual Push Pin Spring Kits

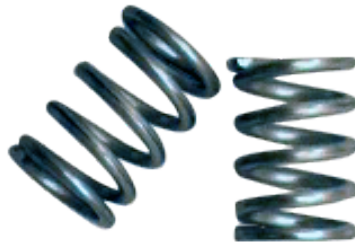
PART #	DESCRIPTION	LENGTH (mm)	HEIGHT (mm)	OVERALL HEIGHT (mm)	FORCE (lb/mm)	BOARD HOLE SIZE (mm)	QUANTITY PER HEAT SINK	MATERIAL
ATS-HK127-R0	PLASTIC PIN AND SPRING ASMBLY	7.3	10.3	13.3	.47	3.0	1	PLASTIC
ATS-HK91-R0	BRASS PIN AND SPRING ASMBLY	12.7	15.1	17.9	.40	3.0	1	BRASS

## Individual Hardware Kits

PART #	DESCRIPTION	LENGTH (mm)	HEIGHT (mm)	OVERALL HEIGHT (mm)	FORCE (lb/mm)	BOARD HOLE SIZE (mm)	QUANTITY PER HEAT SINK	MATERIAL
ATS-HK76-R0	PEM, SPRING AND SCREWS, QTY 2/EA	8.0	11.5	14.0	1.0	3.0	1	SS

# Individual Springs

Part #	Description	OD (mm)	WD (mm)	ID (mm)	FL (mm)	SL (mm)	Force (lb/mm)	Material	Finish
<b>ATS-PPS-01</b>	MUSIC WIRE COIL SPRING, QTY 1	4.6	0.5	3.7	11.2	3.1	0.3	Music Wire	Zinc Plate
<b>ATS-PPS-02</b>	STAINLESS STEEL COIL SPRING, QTY 1	4.6	0.5	3.7	11.2	3.1	0.3	SS Type 302	Passivate per ASTM A967
<b>ATS-PPS-03</b>	MUSIC WIRE COIL SPRING, QTY 1	4.6	0.6	3.5	9.5	3.7	0.8	Music Wire	Zinc Plate
<b>ATS-PPS-04</b>	MUSIC WIRE COIL SPRING, QTY 1	4.8	0.5	3.7	11.1	3.5	0.4	Music Wire	Zinc Plate
<b>ATS-PPS-05</b>	STAINLESS STEEL COIL SPRING, QTY 1	4.75	0.5	3.7	14.3	4.3	0.3	SS Type 302	Passivate per ASTM A967
<b>ATS-PPS-06</b>	MUSIC WIRE COIL SPRING, QTY 1	4.6	0.6	3.5	6.4	2.8	1.2	Music Wire	Zinc Plate
<b>ATS-PPS-07</b>	MUSIC WIRE COIL SPRING, QTY 1	4.6	0.6	3.4	12.7	5.6	0.8	Music Wire	Zinc Plate
<b>ATS-PPS-08</b>	STAINLESS STEEL COIL SPRING, QTY 1	5.5	0.7	4.1	8.0	3.8	1.4	SS Type 302	Passivate per ASTM A967
<b>ATS-PPS-09</b>	MUSIC WIRE COIL SPRING, QTY 1	5.3	0.6	4.4	11.1	2.7	0.2	Music Wire	Zinc Plate
<b>ATS-PPS-10</b>	MUSIC WIRE COIL SPRING, QTY 1	5.3	0.6	4.2	19.1	6.3	0.2	Music Wire	Zinc Plate
<b>ATS-PPS-11</b>	MUSIC WIRE COIL SPRING, QTY 1	5.3	0.7	4.2	17.5	5.8	0.3	Music Wire	Zinc Plate
<b>ATS-PPS-12</b>	MUSIC WIRE COIL SPRING, QTY 1	5.3	0.6	4.0	15.9	6.9	0.5	Music Wire	Zinc Plate
<b>ATS-PPS-13</b>	MUSIC WIRE COIL SPRING, QTY 1	5.5	0.7	4.1	14.3	6.2	0.8	Music Wire	Zinc Plate
<b>ATS-PPS-14</b>	STAINLESS STEEL COIL SPRING, QTY 1	6.1	0.8	4.5	8.0	4.1	2.0	SS Type 302	Passivate per ASTM A967
<b>ATS-PPS-15</b>	STAINLESS STEEL COIL SPRING, QTY 1	6.4	0.5	5.3	11.1	2.6	0.2	SS Type 302	Passivate per ASTM A967
<b>ATS-PPS-16</b>	MUSIC WIRE COIL SPRING, QTY 1	6.1	0.8	4.5	9.7	4.3	2.0	Music Wire	Zinc Plate
<b>ATS-PPS-17</b>	MUSIC WIRE COIL SPRING, QTY 1	6.1	1.0	4.1	12.7	8.0	3.3	Music Wire	Zinc Plate
<b>ATS-PPS-18</b>	MUSIC WIRE COIL SPRING, QTY 1	6.1	0.7	4.6	12.7	5.3	0.9	Music Wire	Zinc Plate
<b>ATS-PPS-19</b>	MUSIC WIRE COIL SPRING, QTY 1	6.1	0.8	4.5	11.1	5.1	1.7	Music Wire	Zinc Plate
<b>ATS-PPS-20</b>	MUSIC WIRE COIL SPRING, QTY 1	6.1	0.9	4.3	8.0	4.9	3.5	Music Wire	Zinc Plate
<b>ATS-PPS-21</b>	MUSIC WIRE COIL SPRING, QTY 1	6.4	0.7	4.8	11.2	3.6	0.8	Music Wire	Zinc Plate



## NOTES:

OD = Outside Diameter  
 WD = Wire Diameter  
 ID = Inside Diameter  
 FL = Free Length  
 SL = Solid Length