

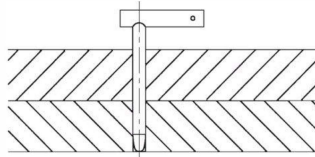
L & T PINS

PIN: 1215 STEEL, CASE HARDENED, BLACK OXIDE FINISH
HANDLE: 1215 STEEL, BLACK OXIDE FINISH

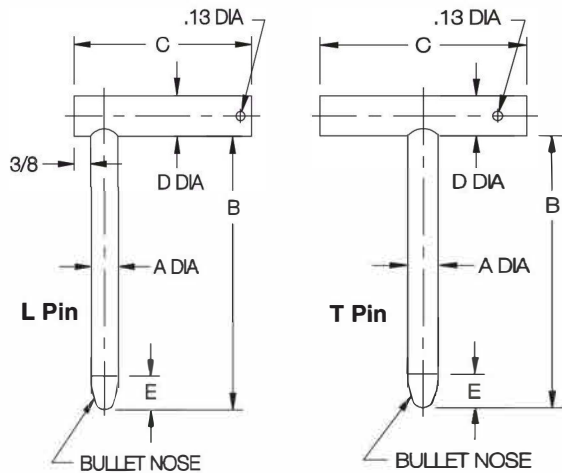


L Pin

T Pin



L and T Pins are removable locating pins, precision ground for accurately aligning holes. The pin is inset in the handle and silver soldered to create a sturdy assembly. The handle is drilled for attaching a cable.



L Pin

T Pin

BULLET NOSE

BULLET NOSE



To order L or T Pins with a standard 10-12" cable assembly attached, add "C" to the part number. (CL-2-C cable with a terminal for #10-32 or M5 attachment screw).
Example: CL-7-LP-C

INCH

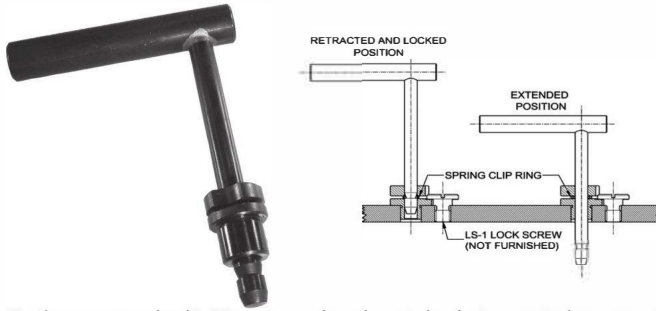
L PIN PART NO.	T PIN PART NO.	A DIA		B ± .06	C	D DIA	E ±.06
		NOMINAL	ACTUAL +0/-0.0005				
CL-0-LP	CL-0-TP	1/8	.1250	2-1/2			
CL-41-LP	CL-41-TP	#30	.1285	3	1-1/2	1/4	1/4
CL-00-LP	CL-00-TP	5/32	.1562	3-1/2			
CL-1-LP	CL-1-TP			3			
CL-21-LP	CL-21-TP	3/16	.1875	4			
CL-2-LP	CL-2-TP			6			
CL-3-LP	CL-3-TP			3	2-1/2	5/16	1/4
CL-23-LP	CL-23-TP	#11	.1910	4			
CL-4-LP	CL-4-TP			6			
CL-43-LP	CL-43-TP	#10	.1935	3			
CL-20-LP	CL-20-TP	#9	.1960	3			
CL-44-LP	CL-44-TP	7/32	.2188	3			
CL-38-LP	CL-38-TP			2			
CL-5-LP	CL-5-TP	1/4	.2500	3	2-1/2	3/8	3/8
CL-25-LP	CL-25-TP			4			
CL-6-LP	CL-6-TP			6			
CL-17-LP	CL-17-TP	F	.2570	3			
CL-37-LP	CL-37-TP			4			
CL-45-LP	CL-45-TP	9/32	.2812	4	3		
CL-39-LP	CL-39-TP			2	2-1/2		
CL-7-LP	CL-7-TP	5/16	.3125	3-1/2	3	7/16	1/2
CL-27-LP	CL-27-TP			4			
CL-8-LP	CL-8-TP			6			
CL-40-LP	CL-40-TP			3	2-1/2		
CL-9-LP	CL-9-TP			4			
CL-29-LP	CL-29-TP	3/8	.3750	5	3-1/2	1/2	1/2
CL-10-LP	CL-10-TP			6			
CL-30-LP	CL-30-TP			7			
CL-11-LP	CL-11-TP			4			
CL-31-LP	CL-31-TP	7/16	.4375	5	3-1/2	9/16	5/8
CL-12-LP	CL-12-TP			6			
CL-32-LP	CL-32-TP			7			
CL-13-LP	CL-13-TP	1/2	.5000	4			
CL-14-LP	CL-14-TP			6	3-1/2	5/8	5/8
CL-33-LP	CL-33-TP			7			
CL-34-LP	CL-34-TP			9			
CL-18-LP	CL-18-TP	9/16	.5625	4			
CL-19-LP	CL-19-TP			6			
CL-15-LP	CL-15-TP	5/8	.6250	6			
CL-35-LP	CL-35-TP			8	3-1/2	7/8	3/4
CL-16-LP	CL-16-TP	3/4	.7500	6			
CL-36-LP	CL-36-TP			8			

METRIC

PART NO.	A DIA +0/-0.013 (mm)	B ±1.52 (mm)	C (mm)	D DIA (mm)	E ±1.52 (mm)
CLM-4-LP	4	89	63.5	8	5
CLM-5-LP	5	76	63.5	8	5
CLM-50-LP	5	152	63.5	8	5
CLM-6-LP	6	76	63.5	9.5	6.5
CLM-60-LP	6	152	63.5	9.5	6.5
CLM-8-LP	8	89	76	11	11
CLM-80-LP	8	152	76	11	11
CLM-10-LP	10	76	63.5	12.5	11
CLM-100-LP	10	152	89	12.5	11
CLM-12-LP	12	102	89	16	11
CLM-120-LP	12	152	89	16	11
CLM-16-LP	16	152	89	22	17.5
CLM-160-LP	16	203	89	22	17.5
CLM-20-LP	20	152	89	22	17.5
CLM-200-LP	20	203	89	22	17.5

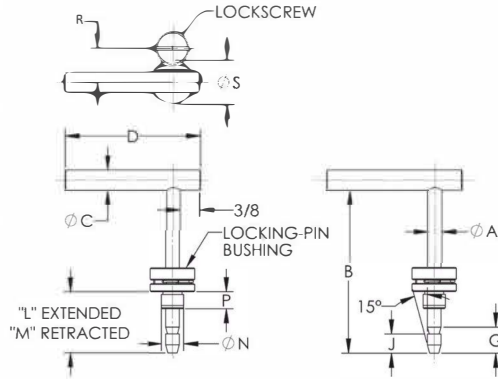
LOCKING L PINS

PIN: 1215 STEEL, CASE HARDENED, BLACK OXIDE FINISH
HANDLE: 1215 STEEL, BLACK OXIDE FINISH
BUSHING: 1144 STEEL, CASE HARDENED, BLACK OXIDE FINISH



Similar to a standard L Pin, except that the pin body is positively retained in a locking bushing. In fully retracted position, the bushing's spring clip snaps into the pin's radial groove. This holds the pin fully retracted by spring force and positively prevents removal. Spring pressure also holds the pin in intermediate extended positions, an advantage especially if the fixture is turned upside down. Available in pin diameters from 3/16 to 1/2" (6 to 12mm in metric), most in a choice of several pin lengths.

Locking-Pin Bushings are designed to press fit in a standard reamed hole. Secure with the included Lockscrew to positively hold the bushing in place. Shorter or longer bushings are available in most sizes, for thinner or thicker plates.



COMPLETE ASSEMBLY (INCH)

PART NO.	A DIA		B PIN LENGTH	P BUSHING LENGTH UNDER HEAD		C DIA	D	N DIA		R	S	L PIN (INCLUDED)	BUSHING (INCLUDED)	LOCKSCREW (INCLUDED)
	NOMINAL	ACTUAL +0/-0.0005		Standard	Long			NOMINAL	ACTUAL +0/-0.0003					
CL-1A-LLP-B	3/16	.1865	1-1/2	Standard	.31	5/16	2-1/2	13/32	.4078	.62	13/16	CL-1A-LLP	CL-3-LPB	LS-1
CL-1-LLP-B			3	Standard	.31							CL-1-LLP	CL-3-LPB	
CL-38-LLP-B			2	Standard	.31							CL-38-LLP	CL-4-LPB	
CL-38-LLP-B-2	1/4	.2490	3	Long	.50	3/8	2-1/2	13/32	.4078	.62	13/16	CL-4A-LPB	CL-4-LPB	LS-1
CL-5-LLP-B				Standard	.31							CL-5-LPB	CL-4-LPB	
CL-5-LLP-B-2			4	Long	.50							CL-4A-LPB	CL-4-LPB	
CL-25-LLP-B				Standard	.31							CL-4A-LPB	CL-4-LPB	
CL-25-LLP-B-2				Long	.50							CL-4A-LPB	CL-4-LPB	
CL-39-LLP-B-1	5/16	.3115	2	Standard	.31	5/8	3	1/2	.5017	.62	13/16	CL-5-LPB	CL-5-LPB	LS-1
CL-39-LLP-B				Medium	.37							CL-5A-LPB	CL-5-LPB	
CL-39-LLP-B-3				Long	.50							CL-5B-LPB	CL-5-LPB	
CL-7-LLP-B-1			3-1/2	Standard	.31							CL-7-LPB	CL-5A-LPB	
CL-7-LLP-B				Medium	.37							CL-5A-LPB	CL-5B-LPB	
CL-7-LLP-B-3				Long	.50							CL-5B-LPB	CL-5-LPB	
CL-8-LLP-B-1			6	Standard	.31							CL-5-LPB	CL-5A-LPB	
CL-8-LLP-B				Medium	.37							CL-5A-LPB	CL-5B-LPB	
CL-8-LLP-B-3				Long	.50							CL-5B-LPB	CL-5-LPB	
CL-40A-LLP-B-1				Standard	.31							CL-6-LPB	CL-6-LPB	
CL-40A-LLP-B	3/8	.3740	2	Long	.50	5/8	3-1/2	5/8	.6267	.62	13/16	CL-6A-LPB	CL-6A-LPB	LS-1
CL-9-LLP-B-1			4	Standard	.31							CL-6-LPB	CL-6A-LPB	
CL-9-LLP-B				Long	.50							CL-6A-LPB	CL-6-LPB	
CL-10-LLP-B-1			6	Standard	.31							CL-6-LPB	CL-6A-LPB	
CL-10-LLP-B				Long	.50							CL-6A-LPB	CL-6-LPB	
CL-13A-LLP-B-1	1/2	.4990	2	Standard	.50	5/8	3-1/2	3/4	.7518	.75	1-1/16	CL-8-LPB	CL-8-LPB	LS-1
CL-13A-LLP-B				Long	.75							CL-8A-LPB	CL-8A-LPB	
CL-13-LLP-B-1			4	Standard	.50							CL-8-LPB	CL-8A-LPB	
CL-13-LLP-B				Long	.75							CL-8A-LPB	CL-8-LPB	
CL-14-LLP-B-1				Standard	.50							CL-8-LPB	CL-8A-LPB	
CL-14-LLP-B			6	Long	.75							CL-8A-LPB	CL-8A-LPB	

COMPLETE ASSEMBLY (METRIC)

CLM-6-LLP-B	6mm	.2352	3	Standard	.31	3/8	2-1/2	10mm	.3952	.630	.87	CLM-6-LLP	CLM-6-LPB	LSM-3
CLM-8-LLP-B	8mm	.3140	3	Standard	.39	7/16	3-1/2	13mm	.5135	.630	.87	CLM-8-LLP	CLM-8-LPB	LSM-3
CLM-10-LLP-B	10mm	.3927	3	Standard	.47	1/2	3-1/2	16mm	.6316	.630	.87	CLM-10-LLP	CLM-10-LPB	LSM-3
CLM-12-LLP-B	12mm	.4715	4	Standard	.71	5/8	3-1/2	20mm	.7892	.709	1.02	CLM-12-LLP	CLM-12-LPB	LSM-3

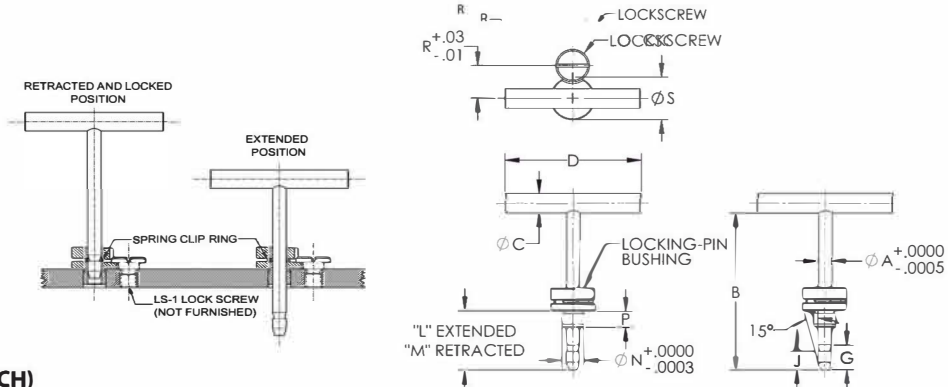
LOCKING T PINS

PIN: 1215 STEEL, CASE HARDENED, BLACK OXIDE FINISH
HANDLE: 1215 STEEL, BLACK OXIDE FINISH
BUSHING: 1144 STEEL, CASE HARDENED, BLACK OXIDE FINISH
RETAINER CLIP: SPRING STEEL



Similar to a standard T Pin, except that the pin body is positively retained in a locking bushing. In fully retracted position, the bushing's spring clip snaps into the pin's radial groove. This holds the pin fully retracted by spring force and positively prevents removal. Spring pressure also holds the pin in intermediate extended positions, an advantage especially if the fixture is turned upside down. Available in pin diameters from 3/16 to 1/2" (6 to 12mm in metric), most in a choice of several pin lengths.

Locking-Pin Bushings are designed to press fit in a standard reamed hole. Secure with the included Lockscrew to positively hold the bushing in place. Shorter or longer bushings are available in most sizes, for thinner or thicker plates.



COMPLETE ASSEMBLY (INCH)

PART NO.	A DIA		B PIN LENGTH	P BUSHING LENGTH UNDER HEAD		C DIA	D	L	N DIA		R +.03/- .01	S	T PIN (INCLUDED)	BUSHING (INCLUDED)	LOCKSCREW (INCLUDED)
	NOMINAL	ACTUAL +0/- .0005		Standard	Long				NOMINAL	ACTUAL +0/- .0003					
CL-1A-LTP-B	3/16	.1865	1-1/2	Standard	.31	5/16	2-1/2	1	13/16	.4078	.62	13/16	CL-1A-LTP	CL-3-LPB	LS-1
CL-1-LTP-B			3	Standard	.31			2-1/2					CL-1-LTP	CL-3-LPB	
CL-38-LTP-B			2	Standard	.31			1-1/2					CL-38-LTP	CL-4-LPB	
CL-38-LTP-B-2				Long	.50									CL-4-LPB	
CL-5-LTP-B	1/4	.2490	3	Standard	.31	3/8	2-1/2	2-1/2	13/16	.4078	.62	13/16	CL-5-LTP	CL-4-LPB	LS-1
CL-5-LTP-B-2				Long	.50									CL-4-LPB	
CL-25-LTP-B			4	Standard	.31			3-1/2					CL-25-LTP	CL-4-LPB	
CL-25-LTP-B-2				Long	.50									CL-4-LPB	
CL-39-LTP-B-1			2	Standard	.31			1-1/2					CL-39-LTP	CL-5-LPB	
CL-39-LTP-B				Medium	.37									CL-5-LPB	
CL-39-LTP-B-3				Long	.50									CL-5-LPB	
CL-7-LTP-B-1	5/16	.3115	3-1/2	Standard	.31	5/8	3	3	1/2	.5017	.62	13/16	CL-7-LTP	CL-5-LPB	LS-1
CL-7-LTP-B				Medium	.37									CL-5-LPB	
CL-7-LTP-B-3				Long	.50									CL-5-LPB	
CL-8-LTP-B-1				Standard	.31			5-1/2					CL-8-LTP	CL-5-LPB	
CL-8-LTP-B			6	Medium	.37									CL-5-LPB	
CL-8-LTP-B-3				Long	.50									CL-5-LPB	
CL-40A-LTP-B-1			2	Standard	.31			1-1/2					CL-40A-LTP	CL-6-LPB	
CL-40A-LTP-B				Long	.50									CL-6-LPB	
CL-9-LTP-B-1	3/8	.3740	4	Standard	.31	5/8	3-1/2	3-1/2	5/8	.6267	.62	13/16	CL-9-LTP	CL-6-LPB	LS-1
CL-9-LTP-B				Long	.50									CL-6-LPB	
CL-10-LTP-B-1			6	Standard	.31			5-1/2					CL-10-LTP	CL-6-LPB	
CL-10-LTP-B				Long	.50									CL-6-LPB	
CL-13A-LTP-B-1			2	Standard	.50			1-1/2					CL-13A-LTP	CL-8-LPB	
CL-13A-LTP-B				Long	.75									CL-8-LPB	
CL-13-LTP-B-1	1/2	.4990	4	Standard	.50	5/8	3-1/2	3-1/2	3/4	.7518	.75	1-1/16	CL-13-LTP	CL-8-LPB	LS-1
CL-13-LTP-B				Long	.75									CL-8-LPB	
CL-14-LTP-B-1			6	Standard	.50			5-1/2					CL-14-LTP	CL-8-LPB	
CL-14-LTP-B				Long	.75									CL-8-LPB	

COMPLETE ASSEMBLY (METRIC)

CLM-6-LTP-B	6mm	.2352	3	Standard	.31	3/8	2-1/2	2-1/2	10mm	.3952	.630	.87	CLM-6-LTP	CLM-6-LPB	LSM-3
CLM-8-LTP-B	8mm	.3140	3	Standard	.39	7/16	3	2-1/2	13mm	.5135	.630	.87	CLM-8-LTP	CLM-8-LPB	LSM-3
CLM-10-LTP-B	10mm	.3927	3	Standard	.47	1/2	3-1/2	2-1/2	16mm	.6316	.630	.87	CLM-10-LTP	CLM-10-LPB	LSM-3
CLM-12-LTP-B	12mm	.4715	4	Standard	.71	5/8	3-1/2	3-1/2	20mm	.7892	.709	1.02	CLM-12-LTP	CLM-12-LPB	LSM-3