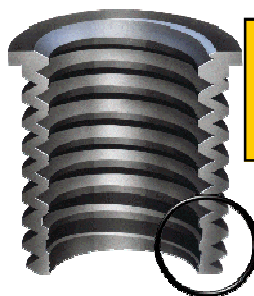


○ TIME-SERT® is a solid bushing insert. This allows easy installation and full load use of tapped hole, ensuring protection against stress and vibration.

○ TIME-SERT® is thin walled due to synchronized internal external threads. Thin cross sectional area allows for installation in areas of limited space and clearance material.

○ TIME-SERT® has a flange on the top of the insert that will insure the insert has positive placement and cannot wind down into the newly repaired hole.

○ TIME-SERT® is self locking. On installation the bottom internal threads of the insert are cold rolled to expand the mating external threads into the base material locking the insert in place.



Time-Sert Thread Repair



Metric Sizes							
Thread Size & Insert Length	Kit No.	Insert Only	Counter Bore	Tap	Installation Tool	Drill Size	Stainless Insert
3 x 0.5 x 4.3	545-00035	545-01035					
4 x 0.7 x 6	545-00047	545-01047					
4 x 0.7 x 4		545-01046					
5 x 0.8 x 7.6	545-00058	545-01058	545-02058	545-03058	545-04058	8	545-01059
5 x 0.8 x 10		545-01056					
6 x 1 x 9.4	545-00061	545-01061	545-02061	545-03061	545-04061	D	545-01065
6 x 1 x 12		545-01062				D	545-01066
6 x 1 x 19		545-01064					
7 x 1 x 10	545-00071	545-01071	545-02071	545-03071	545-04071	L	
8 x 1.25 x 11.7	545-00082	545-01082	545-02082	545-03082	545-04082	P	545-01085
8 x 1.25 x 9		545-01081					
8 x 1.25 x 16.2		545-01083				P	545-01086
8 x 1.25 x 18		545-01084				P	
9 x 1.25 x 20	545-00091	545-01091				U	
9 x 1.25 x 13		545-01092				U	
9 x 1.25 x 18		545-01093				U	
10 x 1 x 15	546-01010						
10 x 1.25 x 14	545-00112	545-01112	545-02112	545-03112	545-04112	13/32	545-01113
10 x 1.25 x 16.2		545-01119					
10 x 1.25 x 20		545-01116					
10 x 1.5 x 14	545-00115	545-01115	545-02115	545-03115	545-04115	13/32	545-01117
10 x 1.5 x 9.4		545-01114					
10 x 1.5 x 20		545-01118					
10 x 1.5 x 24.5		545-01120					
12 x 1.25 x 15	545-00211	545-01214					
12 x 1.25 x 9		545-01211					
12 x 1.25 x 30		545-01219					
12 x 1.5 x 16.2	545-00215	545-01215	545-02215	545-03215	545-04215		
12 x 1.5 x 9.2		545-01212					
12x 1.5 x 30		545-01220					
14 x 1.5 x 9.4	545-00417	545-01417	545-02417	545-03417	545-04417		
14 x 1.5 x 12.7		545-01418					
14 x 1.5 x 17.8		545-01419					
14 x 1.5 x 28		545-01420					

Dealer Note: For Quantity Break, order inserts in multiples of 10 per size
Time Sert® taps are unique sizes and are intended for use only with Time Sert® inserts



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1

Time-Sert Thread Repair Kits & Parts



Spark Plug Sizes

Thread Size & Insert Length	Kit No.	Insert Only	Counter Bore	Tap	Installation Tool	Drill Size	Wrench
10 x 1 x 1/2"	545-00110*	545-01110	545-02110	545-03110	545-04110	No Drill Req. for Spark Plugs	545-02111
10 x 1 x 19/32"	545-00110*	545-01111	545-02110	545-03110	545-04110		545-02111
12 x 1.25 x 1/2"	545-00212*	545-01210	545-02212	545-03212	545-04212		545-02211
12 x 1.25 x 3/4"	545-00212*	545-01213	545-02212	545-03212	545-04212		545-02211
14 x 1.25 x 3/8"	545-00412*	545-01413	545-02412	545-03412	545-04412		545-02411
14 x 1.25 x 7/16"	545-00412*	545-01414	545-02412	545-03412	545-04412		545-02411
14 x 1.25 x 1/2"	545-00412*	545-01415	545-02412	545-03412	545-04412		545-02411
14 x 1.25 x 3/4"	545-00412*	545-01416	545-02412	545-03412	545-04412		545-02411
14 x 1.25 x 3/4" Deep Hole Kit	546-4412E	uses same inserts as regular 14mm kits					

*Spark plug kits do NOT contain inserts. You MUST order separately.

Dealer Note: For Quantity Break, order inserts in multiples of 10 per size

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American Sizes

Thread Size & Insert Length	Kit No.	Insert Only	Counter Bore	Tap	Installation Tool	Drill Size	Stainless Insert
10 x 24 x .300"	545-05124	545-06124	545-07124	545-08124	545-09124	13/64	
10 x 24 x .370"							545-06421
10 x 32 x .300"		545-06132					
1/4 x 20 x .380"	545-05420	545-06420	545-07420	545-08420	545-09420	17/64	
1/4 x 20 x .280"		545-06418					
1/4 x 28 x .380"	545-05428	545-06428	545-07428	545-08428	545-09428	G	
5/16 x 18 x .450"	545-05518	545-06518	545-07518	545-08518	545-09518	21/64	545-06519
5/16 x 24 x .450"	545-05524	545-06524	545-07524	545-08524	545-09524	P	
3/8 x 16 x .520"	545-05616	545-06616	545-07616	545-08616	545-09616	X	
3/8 x 16 x .312"		545-06612					
3/8 x 16 x .520"		545-06614					545-06617
3/8 x 16 x .750"		545-06618					
3/8 x 16 x 1.20"		545-06621					
3/8 x 24 x .520"	545-05624	545-06624	545-07624	545-08624	545-09624	W	
3/8 x 24 x .350"		545-06622					
7/16 x 14 x .600"	545-05714	545-06714	545-07714	545-08714	545-09714	29/64	545-06715
7/16 x 20 x .600"	545-05720	545-06720	545-07720	545-08720	545-09720	29/64	
1/2 x 13 x .650"	545-05813	545-06813	545-07813	545-08813	545-09813	33/64	
1/2 x 20 x .650"	545-05820	545-06820	545-07820	545-08820	545-09820	33/64	

Dealer Note: For Quantity Break, order inserts in multiples of 10 per size

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2

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Metric Conversion Chart

INCHES		METRIC	INCHES		METRIC	INCHES		METRIC	INCHES		METRIC
FRACTIONAL	DECIMAL	mm	FRACTIONAL	DECIMAL	mm	FRACTIONAL	DECIMAL	mm	FRACTIONAL	DECIMAL	mm
.	0.0039	0.1	11/32	0.3438	8.7313	.	0.8465	21.5	.	2.2441	57
.	0.0079	0.2	.	0.3543	9	55/64	0.8594	21.8281	2 1/4	2.25	57.15
.	0.0118	0.3	23/64	0.3594	9.1281	.	0.8661	22	.	2.2835	58
1/64	0.0156	0.3969	.	0.374	9.5	7/8	0.875	22.225	.	2.3228	59
.	0.0157	0.4	3/8	0.375	9.525	.	0.8858	22.5	.	2.3622	60
.	0.0197	0.5	25/64	0.3906	9.9219	57/64	0.8906	22.6219	.	2.4016	61
.	0.0236	0.6	.	0.3937	10	.	0.9055	23	.	2.4409	62
.	0.0276	0.7	13/32	0.4063	10.3188	29/32	0.9063	23.0188	.	2.4803	63
1/32	0.0313	0.7938	.	0.4134	10.5	59/64	0.9219	23.4156	2 1/2	2.5	63.5
.	0.0315	0.8	27/64	0.4219	10.7156	.	0.9252	23.5	.	2.5197	64
.	0.0354	0.9	.	0.4331	11	15/16	0.9375	23.8125	.	2.5591	65
.	0.0394	1	7/16	0.4375	11.1125	.	0.9449	24	.	2.5984	66
.	0.0433	1.1	.	0.4528	11.5	61/64	0.9531	24.2094	.	2.6378	67
3/64	0.0469	1.1906	29/64	0.4531	11.5094	.	0.9646	24.5	.	2.6772	68
.	0.0472	1.2	15/32	0.4688	11.9063	31/32	0.9688	24.6063	.	2.7165	69
.	0.0512	1.3	.	0.4724	12	.	0.9843	25	2 3/4	2.75	69.85
.	0.0551	1.4	31/64	0.4844	12.3031	63/64	0.9844	25.0031	.	2.7559	70
.	0.0591	1.5	.	0.4921	12.5	1	1	25.4	.	2.7953	71
1/16	0.0625	1.5875	1/2	0.5	12.7	.	1.0039	25.5	.	2.8346	72
.	0.063	1.6	.	0.5118	13	.	1.0236	26	.	2.874	73
.	0.0669	1.7	33/64	0.5156	13.0969	.	1.0433	26.5	.	2.9134	74
.	0.0709	1.8	17/32	0.5313	13.4938	.	1.063	27	.	2.9528	75
.	0.0748	1.9	.	0.5315	13.5	.	1.0827	27.5	.	2.9921	76
5/64	0.0781	1.9844	35/64	0.5469	13.8906	.	1.1024	28	3	3	76.2
.	0.0787	2	.	0.5512	14	.	1.122	28.5	.	3.0315	77
.	0.0827	2.1	9/16	0.5625	14.2875	.	1.1417	29	.	3.0709	78
.	0.0866	2.2	.	0.5709	14.5	.	1.1614	29.5	.	3.1102	79
.	0.0906	2.3	37/64	0.5781	14.6844	.	1.1811	30	.	3.1496	80
3/32	0.0938	2.3813	.	0.5906	15	.	1.2205	31	.	3.189	81
.	0.0945	2.4	19/32	0.5938	15.0813	1 1/4	1.25	31.75	.	3.2283	82
.	0.0984	2.5	39/64	0.6094	15.4781	.	1.2598	32	.	3.2677	83
7/64	0.1094	2.7781	.	0.6102	15.5	.	1.2992	33	.	3.3071	84
.	0.1181	3	5/8	0.625	15.875	.	1.3386	34	.	3.3465	85
1/8	0.125	3.175	.	0.6299	16	.	1.378	35	.	3.3858	86
.	0.1378	3.5	41/64	0.6406	16.2719	.	1.4173	36	.	3.4252	87
9/64	0.1406	3.5719	.	0.6496	16.5	.	1.4567	37	.	3.4646	88
5/32	0.1563	3.9688	21/32	0.6563	16.6688	.	1.4961	38	3 1/2	3.5	88.9
.	0.1575	4	.	0.6693	17	1 1/2	1.5	38.1	.	3.5039	89
11/64	0.1719	4.3656	43/64	0.6719	17.0656	.	1.5354	39	.	3.5433	90
.	0.1772	4.5	11/16	0.6875	17.4625	.	1.5748	40	.	3.5827	91
3/16	0.1875	4.7625	.	0.689	17.5	.	1.6142	41	.	3.622	92
.	0.1969	5	45/64	0.7031	17.8594	.	1.6535	42	.	3.6614	93
13/64	0.2031	5.1594	.	0.7087	18	.	1.6929	43	.	3.7008	94
.	0.2165	5.5	23/32	0.7188	18.2563	.	1.7323	44	.	3.7402	95
7/32	0.2188	5.5563	.	0.7283	18.5	1 3/4	1.75	44.45	.	3.7795	96
15/64	0.2344	5.9531	47/64	0.7344	18.6531	.	1.7717	45	.	3.8189	97
.	0.2362	6	.	0.748	19	.	1.811	46	.	3.8583	98
1/4	0.25	6.35	3/4	0.75	19.05	.	1.8504	47	.	3.8976	99
.	0.2559	6.5	49/64	0.7656	19.4469	.	1.8898	48	.	3.937	100
17/64	0.2656	6.7469	.	0.7677	19.5	.	1.9291	49	4	4	101.6
.	0.2756	7	25/32	0.7813	19.8438	.	1.9685	50	.	4.3307	110
9/32	0.2813	7.1438	.	0.7874	20	2	2	50.8	4 1/2	4.5	114.3
.	0.2953	7.5	51/64	0.7969	20.2406	.	2.0079	51	.	4.7244	120
19/64	0.2969	7.5406	.	0.8071	20.5	.	2.0472	52	5	5	127
5/16	0.3125	7.9375	13/16	0.8125	20.6375	.	2.0866	53	.	5.1181	130
.	0.315	8	.	0.8268	21	.	2.126	54	.	5.5118	140
21/64	0.3281	8.3344	53/64	0.8281	21.0344	.	2.1654	55	.	5.9055	150
.	0.3346	8.5	27/32	0.8438	21.4313	.	2.2047	56	6	6	152.4

3

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