

[buns](#)

CF Senior

Member

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DansYellow66....good point. I'm amazed that ,even after doing a search, I couldn't find any info on this subject. My car had a lot of loose rivets and I didn't know what to do. Plan A was to remove the doorskin as this is the only way you can hammer new rivets in. Plan B came to me in a rare moment (sober).....(Just kidding.) I came up with this invention that I call the "rivbolt"half rivet(head), half bolt (thread). I have a lathe so I decided to give it a try. I cut the shank to 1/4" and drilled out the holes in the door to 1/4" as they were already larger than 3/16" as they had been loose for a long time. I used a punch to create some divets on the underside of the head, a little Loctite on the threads , and ...voila! Works like a hot damn, and totally undetectable from the outside.

Only problem is, they take about 30 minutes each to manufacture with my non C.N.C. machine. So as I'm making them (I did about 14), I'm thinking , why doesn't any of the vendors sell these. This has to be a common problem. Plus, there are lots of other places on the car where you can't get at the rivets to set them.

[My Cory](#)

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Since: 1

2006

Then I find out that someone does manufacture something called a "projection weld screw". I believe they are meant to be welded through a hole to provide a "captured" bolt. They have 3 nibs on the underside of the head. You could drill 3 shallow divets to accept these nibs so that the screw doesn't turn. The heads are a bit thicker than the original rivets, but they could probably be turned down on a belt sander if you don't have a lathe.

The "rivbolts"



On the door.

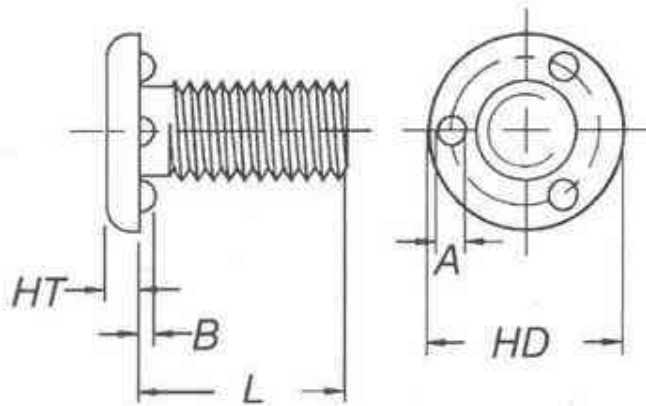


Projection Weld Screws from H.Paulin Co.also known as Papco.
<http://www.hpaulin.com/welcome.html>

Easy-Spot®

"50" Inch Projection Weld Screws

Easy-Spot "50" Inch Weld Screws have three precision projections located 120° apart, under the head. Recommended for through hole applications.



"50" Inch

Thread Size	6-32	8-32	10-24	10-32	1/4-20	1/4-28	5/16-18	5/16-24	3/8-16	3/8-24	1/2-13
"HD"	.323	.385	.448	.448	.575	.575	.755	.755	.880	.880	1.005
HEAD Diameter	.303	.365	.428	.428	.550	.550	.725	.725	.850	.850	.975
"HT"	.052	.068	.068	.068	.083	.083	.099	.099	.114	.114	.146
Thickness	.042	.058	.058	.058	.073	.073	.089	.089	.104	.104	.136
"A"	.055	.075	.085	.085	.105	.105	.125	.125	.135	.135	.156
PROJ. Diameter	.045	.065	.075	.075	.095	.095	.115	.115	.125	.125	.145
"B"	.022	.027	.032	.032	.042	.042	.047	.047	.052	.052	.062
PROJ. Height	.018	.023	.028	.028	.038	.038	.043	.043	.048	.048	.058
Length Tolerance	Length "L" Under Head	Part Number									
Under 1"	1/4	50-1104	50-1404								
	5/16	50-1105	50-1405								
	3/8	50-1106	50-1406	50-1506	50-1606	50-2106					
+.000 -.031	1/2	50-1108	50-1408	50-1508	50-1608	50-2108	50-2208	50-2708		50-3308	
	9/16				50-1609						
1" - 2"	5/8	50-1110	50-1410	50-1510	50-1610	50-2110	50-2210	50-2710	50-2810		
	3/4	50-1112	50-1412	50-1512	50-1612	50-2112	50-2212	50-2712	50-2812	50-3312	50-3412
	7/8	50-1114			50-1614	50-2114		50-2714		50-3314	50-3414
+.000 -.062	1	50-1116	50-1416	50-1516	50-1616	50-2116	50-2216	50-2716	50-2816	50-3316	50-3416
	1 1/4		50-1420	50-1520	50-1620	50-2120		50-2720		50-3320	50-3420
	1 1/2		50-1424	50-1524	50-1624	50-2124		50-2724	50-2824	50-3324	50-3424
	1 3/4					50-2128				50-3328	50-3428
	2			50-1532		50-2132		50-2732		50-3332	50-3432
+.000 -.093	3			50-1548		50-2148					

All dimensions are in inches.

Also available in Stainless Steel - price on application.



01-29-2007, 08:26 AM

#8

[kenEDMUNDS](#)

CF Senior Member



[My Corvette Photos](#)

Member Since: May 2003

Location: DAVIE/FORT LAUDERDALE FL



Buns, that is some great information, I can think of a buch of uses for those riv bolts.
Thanks, Ken



01-29-2007, 01:29 PM

#9

[JohnZ](#)

CF Senior Member



Lifetime Gold Member

[My Corvette Photos](#)

Member Since: Oct 2000

Location: Washington Michigan



These are essentially the same thing - 1/4"-20 projection weld screws from McMaster-Carr, with the heads faced off nice and flat in a lathe. 🤖

