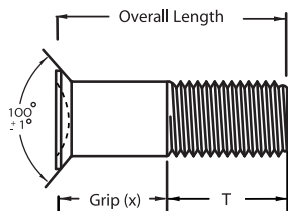


# Genuine Aircraft Hardware Co.

## NAS1581

**High Strength, Close Tolerance, Reduced (Shear) Head, Countersunk Screw**

**Important Note!** this type of fastener uses the next smaller size driver than the dia. IE: for -3 dia use TS212-8 or similar.



**Kits Available**

NAS1581(M)(X)(Drive)(XX)

### Item Number Details

**NAS1581(material)(diameter)(drive style)(grip length)(option)**

#### MATERIALS

(A)\* or (F) = Alloy Steel, 4140,4340 or 8740, Heat treated to 160-180ksi. Cad 2 plated  
 (C) = Corrosion Resistant (A286) Steel, Heat treated to 160-190ksi. Cad 2 (optional)  
 (V)\* = Titanium (6al-4v) Heat treated to 160-180ksi. No finish

\* Material Code (A) has been superseded by Code (F), Material Code (V) has been cancelled Dec.1991

Details Relating to <u>DIAMETER</u>							<u>DRIVE STYLE's</u>
Dia. #	Thread Size	Shank Dia (min)	Shank Dia (max)	Head Dia (min)	Head Dia (max)	T length	(R)*= Offset Cruciform (Torq-set) <sup>R</sup> applicable dia.'s 3,4 & 5.  (T) = Offset Cruciform (Torq-set) <sup>R</sup> applicable dia.'s 6 and up.  (H) = Dovetail Slot
3	10-32	.1885	.1895	.2578	.3047	.363	
4	1/4-28	.2485	.2495	.3504	.3988	.403	
5	5/16-24	.3110	.3120	.4289	.4787	.501	
6	3/8-24	.3735	.3745	.5149	.5662	.594	
7 thru 10	Information Available, 7/16 thru 5/8 diameter.						

\* With dia.'s -3, -4 and -5 the drive styles R or T are functionally interchangeable even though R is listed as preferred on the print

#### GRIP LENGTH

The Grip length for Countersunk Head Fasteners, includes the head and extends to the full cylindrical portion of the shank. The Grip Length for this series is measured in 1/16ths of an inch. + or - .010

IE: a grip of -4 = .240 to .260 or 1/4"  
 or a grip of -12 = .740 to .760 or 3/4"

#### OPTION's

The options are after the Grip Length. If more than one option is used they are to be placed in order, if one is not used, maintain the order and skip the unused option.

Option 1, (P) = Cad 2 plating (valid with C material only)  
 Option 2, (X) = .0156 1st Oversize shank for repairs.  
 Option 3, (Y) = .0312 2nd Oversize shank for repairs.

### Examples of Part Numbers

NAS1581F3R4 = Alloy Steel,Cad 2 plated,3/16 dia.(#10), 32 threads per inch, Offset Cruciform (Torq-set)<sup>R</sup> drive, 1/4" grip.

NAS1581C6T12X = Corrosion Res.(A286),3/8 dia, 24 threads per inch,Offset Cruciform (Torq-set)<sup>R</sup> drive, 3/4" grip, 1st Oversize.

® Torq-Set is a registered Trademark of Phillips Screw Company.

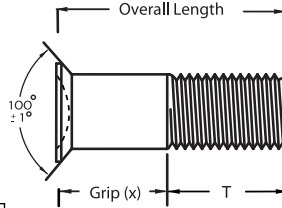
# NAS Shear Head

**High Strength, Close Tolerance, Reduced (Shear) Head, Countersunk Screws**

**Important Note!** this type of fastener uses the next smaller size driver than the dia. IE: for -.03 dia use TS212-8 or similar.



NAS860(X)-(XX)  
NAS870(X)-(XX)



Note, not all sizes and configurations are shown, these fasteners go up to 1" dia on the actual NAS print

**Kits Available**

## HELP WITH THE SELECTION OF PART NUMBERS

For the **Alloy Steel Screw**      NAS860(size #) - (grip length in 1/16ths")  
 For the **A286 (Cres.) Screw**    NAS870(size #) - (grip length in 1/16ths")

Material for NAS8602-8616      Alloy Steel, Heat Treated to 160-180 ksi. Cad 2 Plated  
 Material for NAS8702-8716      A286 Corrosion Resistant Steel, 160-180 ksi.  
 Options: both series              Shank Drill, add a "D" in place of the dash before the length.

Plating/Coating Options NAS8702-8716

The absence of code (A) or (U) in the number indicates Cad 2 plated, threads will be painted/dyed green.

An (A) after the basic part # prefix and (D), if applicable, indicates an Aluminum Coating.

A (U) after the basic part # prefix and (D), if applicable, indicates Unplated and Passivated.

### **Examples of part numbers:**

NAS8603-10      = SHEAR HEAD, COUNTERSUNK BOLT, .189" DIA. 5/8 GRIP, ALLOY STEEL, CAD 2 PLATED .948 O.A.L. UNDRILLED.

NAS8702A4      = SHEAR HEAD, COUNTERSUNK BOLT, .1635" DIA. 1/4 GRIP, CRES STEEL, ALUMINUM COATED .573 O.A.L. UNDRILLED.

NAS8704DU13    = SHEAR HEAD, COUNTERSUNK BOLT, .249" DIA. 13/16 GRIP, CRES STEEL, UNPLATED .1.245 O.A.L. DRILLED THREADS.

Size #	Dia / Pitch	Shank Dia. Min	Shank Dia. Max	"T" Length	Head Dia.	Shank Hole Dia.
2	8-32	.1625	.1635	.323	.226 -.257	N/A
3	10-32	.1885	.1895	.323	.266 -.303	.070
4	1/4-28	.2485	.2495	.370	.355 -.397	.076
5	5/16-24	.3110	.3120	.438	.429 -.477	.076
6	3/8-24	.3735	.3745	.454	.510 -.564	.106