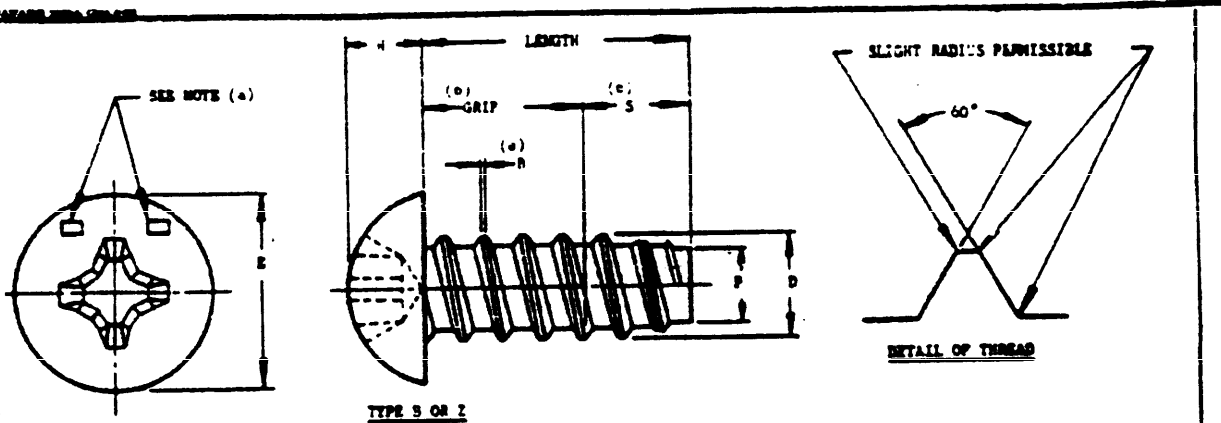
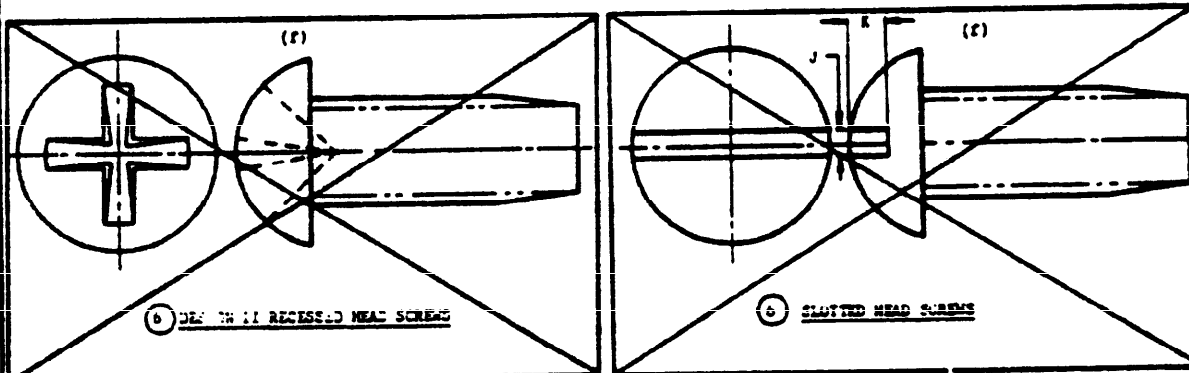




6 DESIGN 1 RECESSED HEAD SCREW



6 DIMENSIONING AND GAGING OF THE ABOVE RECESSED DESIGNS SHALL BE IN ACCORDANCE WITH FT-C-2.

SIZE	THREADS PER INCH	D MAX DIA	S DIA		H MAX	J		K		P DIA	
			MAX	MIN		MAX	MIN	MAX	MIN	MAX	MIN
NO. 2	32	.069	.162	.116	.069	.011	.023	.016	.037	.058	.032
NO. 4	24	.111	.211	.153	.106	.019	.031	.026	.044	.075	.047
NO. 6	20	.139	.260	.180	.123	.026	.039	.038	.051	.095	.066
NO. 8	16	.166	.309	.207	.120	.036	.045	.047	.060	.112	.086
NO. 10	14	.189	.359	.234	.137	.040	.050	.057	.065	.130	.103
1/4	12	.216	.407	.269	.170	.045	.054	.060	.068	.179	.141

6 DESIGN 11 RECESSED AND SLOTTED HEAD SCREWS INACTIVE FOR DESIGN AFTER 17 FEBRUARY 1959.

PROCUREMENT SPECIFICATION

WIL-5-6033

AIR FORCE-NAVY AERONAUTICAL STANDARD

SCREW, TAPPING, THREAD FORMING OR
THREAD CUTTING, ROUND HEAD, SPACED THD

AN530

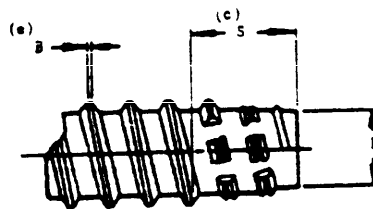
SHEET 1 OF 3

SUPPLEMENTARY DRAWINGS
530, 1224946 AND 1225701

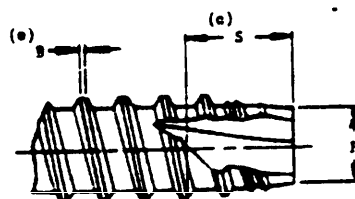
APPROVED 12 Feb 53 REVISED 1 21 Jun 53 25 Apr 54 3 18 Feb 54 4 29 Apr 55 5 10 Jun 55 6 17 Feb 59

NOTES: When Government drawings, specifications, or other data are used for any purpose other than in connection with a specific contract, the Government assumes no responsibility for any claims, damages, or losses, or for any consequences arising from the use of the data. It is the responsibility of the user to obtain the necessary permissions, approvals, and clearances for the use of the data in any other form or for any other purpose.

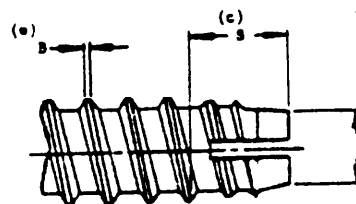
1. This drawing was prepared by joint action of the Air Force and Navy Departments as the form they shall use for the design of carbon steel screws. The drawing is intended to be used for the design of carbon steel screws. It is not intended to be used for the design of other types of screws. The drawing is intended to be used for the design of carbon steel screws. It is not intended to be used for the design of other types of screws. The drawing is intended to be used for the design of carbon steel screws. It is not intended to be used for the design of other types of screws.



TYPE BT OR FZ



TYPE BT OR 25



TYPE BT OR H

(d) OPTIONAL TYPES OF ENDS FOR THREAD CUTTING SCREWS

CARBON STEEL, SLOTTED HEAD SCREWS, THREAD FORMING, DASH NUMBERS FOR:

LENGTH		NO. 4		NO. 6		NO. 8		NO. 10		1 1/4	
		DASH	GRIP	DASH	GRIP	DASH	GRIP	DASH	GRIP	DASH	GRIP
		NO.	MIN.	NO.	MIN.	NO.	MIN.	NO.	MIN.	NO.	MIN.
3/16		2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
1/8	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
3/8	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
5/8	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
1	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
1 1/8	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
1 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
1 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
1 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
2 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
2 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
2 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
3	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
3 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
3 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
3 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
4 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
4 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
4 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
5	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
5 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
5 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
5 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
6	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
6 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
6 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
6 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
7	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
7 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
7 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
7 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
8	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
8 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
8 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
8 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
9	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
9 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
9 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
9 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
10	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
10 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
10 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
10 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
11	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
11 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
11 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
11 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
12	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
12 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
12 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
12 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
13	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
13 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
13 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
13 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
14	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
14 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
14 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
14 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
15	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
15 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
15 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
15 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
16	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
16 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
16 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
16 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
17	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
17 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
17 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
17 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
18	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
18 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
18 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
18 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
19	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
19 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
19 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
19 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
20	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
20 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
20 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
20 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
21	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
21 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
21 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
21 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
22	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
22 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
22 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
22 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
23	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
23 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
23 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
23 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
24	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
24 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
24 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
24 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
25	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
25 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
25 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
25 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
26	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
26 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
26 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
26 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
27	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
27 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
27 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
27 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
28	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
28 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
28 1/2	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
28 3/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
29	1	2-4	.075	2-6	.115	2-8	.155	2-10	.195	2-12	.235
29 1/4	1	2-4	.075	2-6	.115	2-8	.155	2-10	.1		

NAVJAG 1000

- (a) MARK CORROSION-RESISTANT STEEL SCREWS, SIZES NUMBER 6 AND LARGER WITH DEPRESSED DASH.
- (b) THE GRIP LENGTH IS MEASURED FROM THE UNDERSIDE OF THE HEAD TO THE END OF THE FULL-THREADED PORTION OF THE SHANK. THE MINIMUM GRIP DIMENSIONS SHOWN IN THE DASH NUMBER TABLE ARE FOR DESIGN PURPOSES ONLY AND ARE NOT AN INSPECTION REQUIREMENT.
- (c) TAPER LENGTH, S, IS 2 TO 2-1/2 TIMES THE PITCH OF THE THREAD.
- (d) SCREWS DESIGNATED AS THREAD FORMING HAVE PLAIN ENDS (NOT FLUTED OR SLOTTED). SCREWS DESIGNATED AS THREAD CUTTING HAVE FLUTED OR SLOTTED ENDS.
- (e) MAXIMUM CREST OF THREAD, B, UP TO AND INCLUDING SIZE NO. 8 EQUALS 0.004 INCH; MAXIMUM CREST OF THREAD OVER SIZE NO. 8 EQUALS 0.006 INCH. TAPERED THREADS HAVE UNFINISHED CRESTS.

MATERIAL: CARBON STEEL, CASE HARDENED, OR CORROSION-RESISTANT STEEL, TYPE A10, HARDENED.

FINISH: CARBON STEEL, CADMIUM PLATE, SPECIFICATION QQ-P-416, TYPE I, CLASS 3.
 CORROSION-RESISTANT STEEL, NONE.

ADD C BEFORE FIRST DASH NUMBER FOR CORROSION-RESISTANT STEEL SCREWS.

ADD F BETWEEN FIRST AND SECOND DASH NUMBERS FOR SCREWS WITH FLUTED OR SLOTTED ENDS. (THREAD CUTTING). IF R APPEARS IN THE CODING, ADD THE F IMMEDIATELY FOLLOWING THE R.

ADD R BETWEEN FIRST AND SECOND DASH NUMBERS FOR RECESSED HEAD SCREWS.

EXAMPLES OF PART NUMBERS:

- AN530-6-8 = NO. 6, CARBON STEEL, SLOTTED HEAD, THREAD FORMING SCREW, 8/16 IN LENGTH.
- AN530-6R8 = NO. 6, CARBON STEEL, RECESSED HEAD, THREAD FORMING SCREW, 8/16 IN LENGTH.
- AN530-6RF8 = NO. 6, CARBON STEEL, RECESSED HEAD, FLUTED OR THREAD CUTTING SCREW, 8/16 IN LENGTH.
- AN530C6-8 = NO. 6, CORROSION-RESISTANT STEEL, SLOTTED HEAD, THREAD FORMING SCREW, 8/16 IN LENGTH.
- AN530C6R8 = NO. 6, CORROSION-RESISTANT STEEL, RECESSED HEAD, THREAD FORMING SCREW, 8/16 IN LENGTH.
- AN530C6RF8 = NO. 6, CORROSION-RESISTANT STEEL, RECESSED HEAD, FLUTED OR THREAD CUTTING SCREW, 8/16 IN LENGTH.

SCREWS HAVING FIVE THREADS OR LESS MAY HAVE FINER PITCH THREADS, OR SHORTER POINTS, OR FINER PITCH THREADS AND SHORTER POINTS, AT THE OPTION OF THE PRODUCER.

SCREW MANUFACTURER'S DESIGNATIONS MAY BE INCLUDED ON THE SCREWS.

SCREWS SHALL BE FREE OF ALL LOOSE OR HANGING BURRS OR SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE.

DIMENSIONS IN INCHES.

SUBJECT TO AND10087 LIMITATIONS, THE THREAD FORMING SCREWS SHOWN ON THIS DRAWING MAY BE USED WITH SPECIFICATION MIL-N-3337 SHEET SPRING NUTS.

SUBJECT TO AND10087 LIMITATIONS, THE SCREWS MAY BE USED AS TAPPING SCREWS WITH AND10325 HOLE SIZES AND AND10387 HOLE TOLERANCES.

APPROVED 10 Jan 55 REVISED 1 12 Jul 55(2) 17 Feb 59

PROCUREMENT
 SPECIFICATION

AIR FORCE-NAVY AERONAUTICAL STANDARD

MIL-A-8838

SCREW, TAPPING, THREAD FORMING OR THREAD CUTTING, ROUND
 HEAD, SPACED THREAD

AN530

SHEET 3