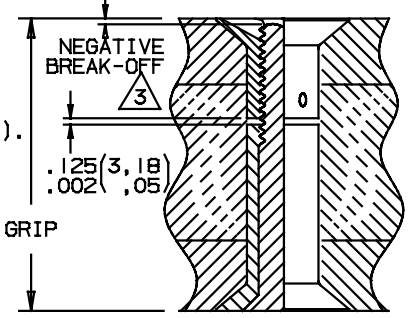
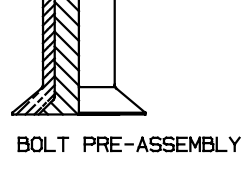
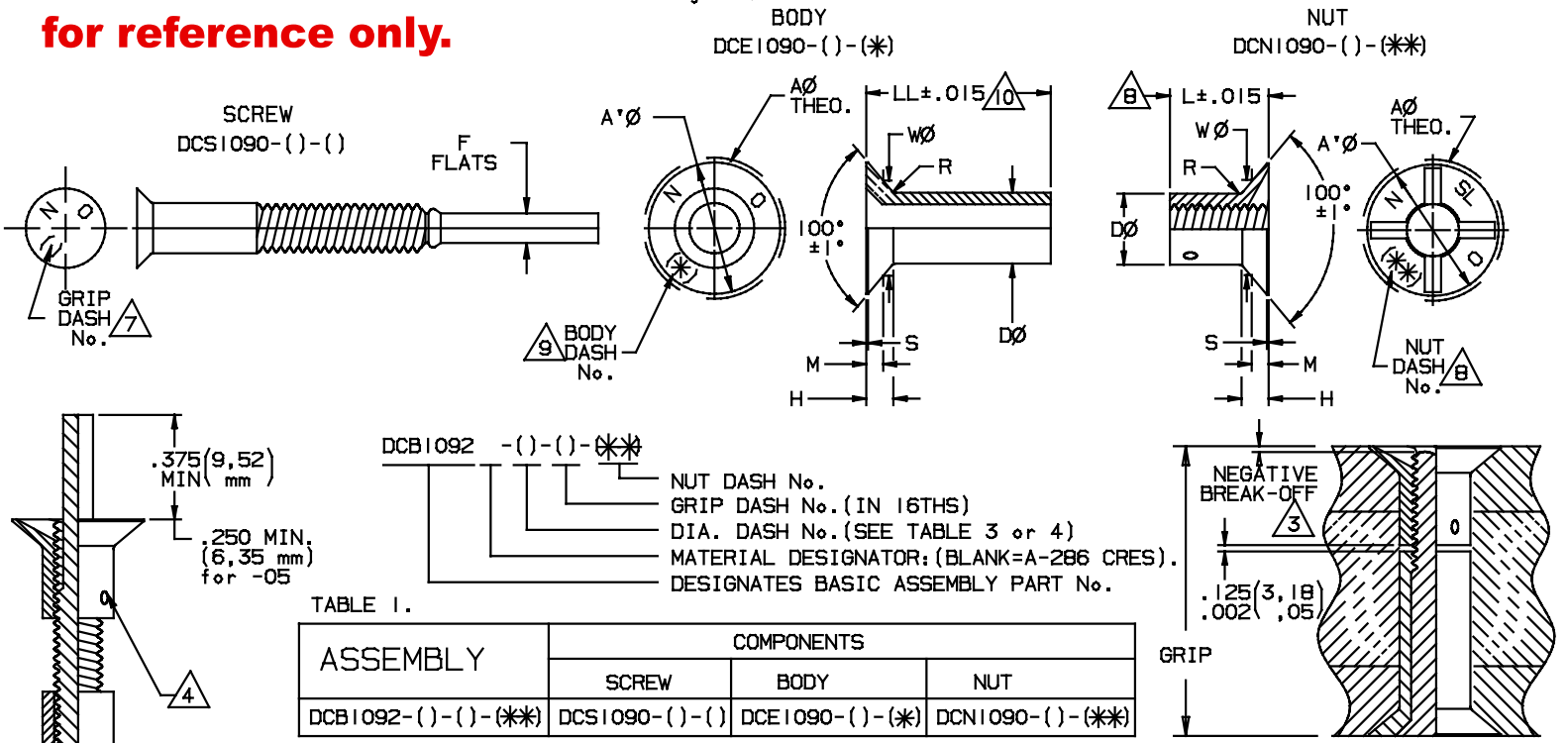


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**Monogram Aerospace Fasteners**

3423 South Garfield Avenue  
Los Angeles, California 90040

**ENGINEERING  
STANDARD**



Monogram  
CODE IDENT. NO.  
98524

US PATENT No. 3643544. OTHER PATENTS PENDING

APPROVED DATE  
2-5-87 ECN #4800

TITLE

BOLT, DOUBLE FLUSH, INTERNALLY THREADED, SELF-LOCKING  
100° FLUSH HEAD PIN INSTALLED WITH 100° FLUSH NUT  
A-286 CRES  
(VARIABLE BODY & NUT LENGTH WITHIN A GRIP)

A DWG: DCB1092

REVISION LETTER & DATE  
ECN #3174  
05-05-05

DCB1092-()-()-()  
DCS1090-()-()-()  
DCE1090-()-()-()  
DCN1090-()-()-()  
SHEET 1 OF 2

**TABLE 5.**

GRIP DASH No.	GRIP RANGE (in)		LL+L ± .015 (in)	GRIP RANGE (mm)		LL+L ± 0.38 (mm)
	MIN.	MAX.		MIN.	MAX.	
-05	.275	.315	.250	6.98	8.00	6.35
-05.5	.312	.375	.280	7.92	9.53	7.11
-06	.343	.406	.312	8.71	10.31	7.92
-07	.407	.469	.375	10.34	11.91	9.53
-08	.470	.531	.437	11.94	13.49	11.10
-09	.532	.594	.500	13.51	15.09	12.70
-10	.595	.656	.562	15.11	16.66	14.27
-11	.657	.719	.625	16.69	18.26	15.88
-12	.720	.781	.687	18.29	19.84	17.45
-13	.782	.844	.750	19.86	21.44	19.05
-14	.845	.906	.812	21.46	23.01	20.62
-15	.907	.969	.875	23.04	24.61	22.22
-16	.970	1.031	.937	24.64	26.19	23.80
-17	1.032	1.094	1.000	26.21	27.79	25.40
-18	1.095	1.156	1.062	27.81	29.36	26.97
-19	1.157	1.218	1.125	29.39	30.94	28.58
-20	1.219	1.281	1.187	30.96	32.54	30.15
-21	1.282	1.344	1.250	32.56	34.14	31.75
-22	1.345	1.406	1.312	34.16	35.71	33.32
-23	1.407	1.469	1.375	35.74	37.31	34.92
-24	1.470	1.531	1.437	37.34	38.89	36.50
-25	1.532	1.594	1.500	38.91	40.49	38.10
-26	1.595	1.656	1.562	40.51	42.06	39.67
-27	1.657	1.719	1.625	42.09	43.66	41.28
-28	1.720	1.781	1.687	43.69	45.24	42.85
-29	1.782	1.844	1.750	45.26	46.84	44.45
-30	1.845	1.906	1.812	46.86	48.41	46.02
-31	1.907	1.969	1.875	48.44	50.01	47.62
-32	1.970	2.031	1.937	50.04	51.59	49.20
-33	2.032	2.094	2.000	51.61	53.19	50.80
-34	2.095	2.156	2.062	53.21	54.76	52.37
-35	2.157	2.219	2.125	54.79	56.36	53.98
-36	2.220	2.281	2.187	56.39	57.94	55.55
-37	2.282	2.344	2.250	57.96	59.54	57.15
-38	2.345	2.406	2.312	59.56	61.11	58.72
-39	2.407	2.469	2.375	61.14	62.71	60.32
-40	2.470	2.531	2.437	62.74	64.29	61.90
-41	2.532	2.594	2.500	64.31	65.89	63.50
-42	2.595	2.656	2.562	65.91	67.46	65.07
-43	2.657	2.719	2.625	67.49	69.06	66.68
-44	2.720	2.781	2.687	69.09	70.64	68.25
-45	2.782	2.844	2.750	70.66	72.24	69.85
-46	2.845	2.906	2.812	72.26	73.81	71.42
-47	2.907	2.969	2.875	73.84	75.41	73.03
-48	2.970	3.031	2.937	75.44	76.99	74.60
-49	3.032	3.094	3.000	77.01	78.59	76.20
-50	3.095	3.156	3.062	78.61	80.16	77.77
-51	3.157	3.219	3.125	80.19	81.76	79.38
-52	3.220	3.281	3.187	81.79	83.33	80.95
-53	3.282	3.344	3.250	83.36	84.93	82.55
-54	3.345	3.406	3.312	84.96	86.52	84.12
-55	3.407	3.469	3.375	86.54	88.12	85.73
-56	3.470	3.531	3.437	88.14	89.68	87.30
-57	3.532	3.594	3.500	89.71	91.28	88.90
-58	3.595	3.656	3.562	91.31	92.86	90.47
-59	3.657	3.719	3.625	92.89	94.46	92.08
-60	3.720	3.781	3.687	94.49	96.04	93.65
-61	3.782	3.844	3.750	96.06	97.64	95.25
-62	3.845	3.906	3.812	97.66	99.24	96.82

**TABLE 6. (INSTALLATION TOOLS)**

FOR GRIP DASH No. -05 THRU -24			
DIA DASH No.	PNEUMATIC PISTOL	NOSE ADAPTER	WRENCH ADAPTER
-05	MP550BF	MPF-05	MP-04
-06		MPF-06	MP-05
-08		MPF-08	MP-06
-10		MPTFBF-10	MPTBF-08
-12		MPTFBF-12	MPTBF-10

**TABLE 7. (INSTALLATION TOOLS)**

FOR GRIP DASH No. -25 AND LONGER			
DIA DASH No.	PNEUMATIC PISTOL	NOSE ADAPTER	WRENCH ADAPTER
-05	MP550RL	MPF-05	MP-04
-06		MPF-06	MP-05
-08		MPF-08	MP-06
-10		MPTFBF-10	MPTRL-08
-12		MPTFBF-12	MPTRL-10

**NOTES:**

1. PROCUREMENT SPECIFICATION: DCB1000.
- DIMENSIONS EXCLUSIVE OF LUBRICATION. LUBRICATION IS OPTIONAL.
- BREAK-OFF LIMITS MEASURED FROM SKIN SURFACE.
- LOCKING FEATURE CONSISTS OF THREE INDENTATIONS 120° APART. DISTORTION OF THE NUT DIAMETER IN THE AREA OF LOCKING FEATURE IS PERMISSIBLE. LOCKING FEATURE SHALL BE LOCATED SUCH THAT THE NUT WILL THREAD ONTO SCREW BY HAND UNTIL PINTAIL OF SCREW PROTRUDES .375" (9.52) OR .250" (6.35mm) MIN. FOR -05, ABOVE THE NUT HEAD BEFORE OCCURRENCE OF THE PREVAILING LOCKING TORQUE.
5. TEMPERATURE LIMITATIONS: 1200 °F MAX.
6. SCREW IS ADAPTED TO ROTATE IN THE BODY AND THE NUT DURING INSTALLATION.
- HEAD MARKINGS DEPRESSED .010" (3.25) MAX. ARRANGEMENT OPTIONAL.
- L = (NUT DASH No. -1) x 1/32.
- BODY DASH No. = (2x GRIP DASH No.) - NUT DASH No.
- LL = (BODY DASH No -1) x 1/32.
- JIM STEELE'S SPECIAL.
- EXCEPT FOR "DCB1092-05-05-06" BREAK OFF IS "+.015/-0.050".

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100° FLUSH HEAD PIN INSTALLED WITH 100° FLUSH NUT  
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SHEET 2 OF 2

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(VARIABLE BODY & NUT LENGTH WITHIN A GRIP)