

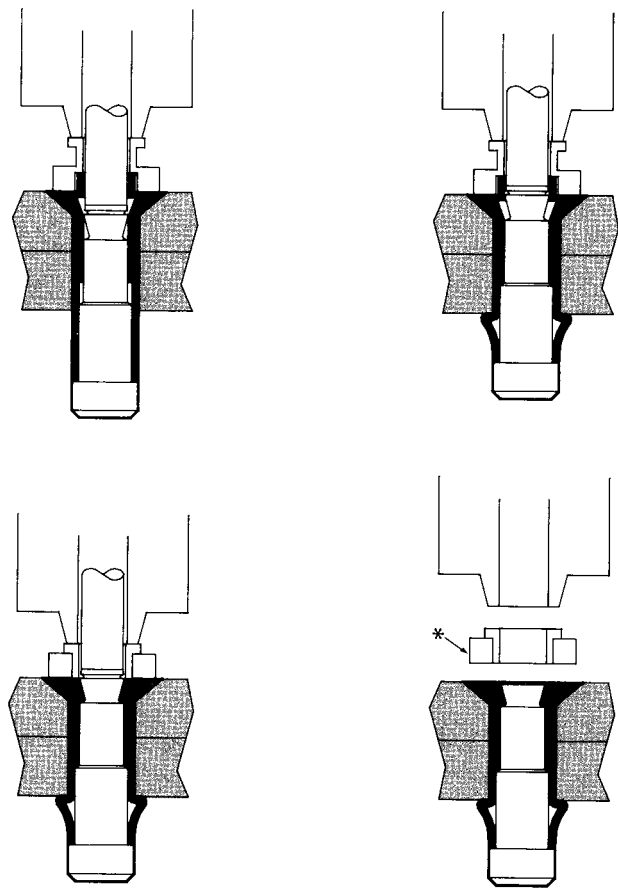
CHERRY MAXIBOLT®

BLIND BOLT



CHERRY®
AEROSPACE

INSTALLATION SEQUENCE WITH SHIFTING WASHER



* During the MAXIBOLT installation sequence, the Cherry shift washer collapses into itself leaving a solid washer that is easily retrieved.

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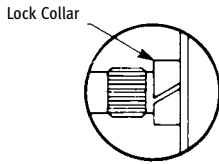
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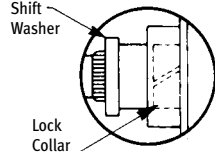
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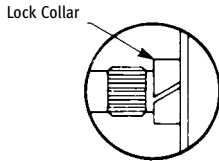
“-” Type

“-” Signifies that the 5/32" and 3/16" diameter sizes are installed with a double action (shifting type) tool.



“S” Type

“S” Signifies that the fastener is installed with a single action (non-shifting) tool for 5/32" and 3/16" diameters. “-” signifies that the fastener is installed with a single action (non-shifting) tool for 1/4" and 5/16" diameters.



“U” Type

“U” Signifies that the fastener is installed by a single action (non-shifting) tool for all diameters.

NOTES

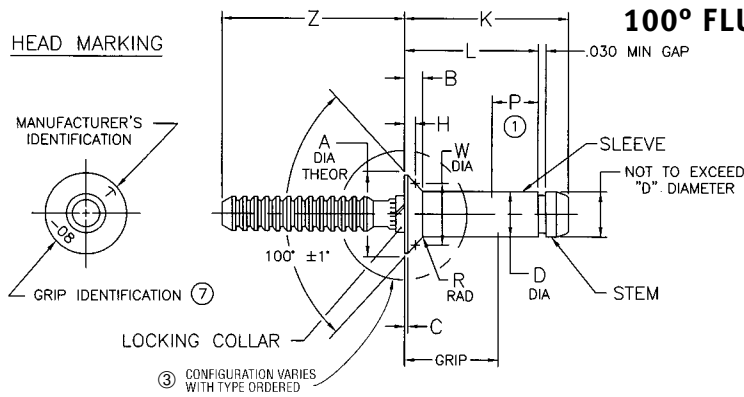
- The length of “D” diameter may be .002 undersize.
- Material designation refers to chemical composition only.
- 05 and -06 dia. fasteners are installed with a double action (shifting) tool; S05 dia., S06 dia., -08 dia., and -10 dia. fasteners are installed with a single action (non-shifting) tool and are supplied with shift washer. Shift washer is solid or split, mfg's option.
- Sizes below heavy line are special order only.
- Minimum grip for -05 dia. is .094 and -06 dia. is .120.
- This product meets the requirements of MS90353 (except for zinc plating and NAS 4006 Alum coating) for “-” code parts, in the -05, -06, -08, and -10 diameter series; and for “S” code parts in the S05 and S06 diameter series.
- Single digit marking is permissible for grip dash numbers less than 10. A dash “-” before grip number is optional.
- Lubrication: None, except manufacturer's option to lubricate lock mechanism with lox compatible dry film lubricant.
- Shift washer or stem dyed green for single action 05 and 06 diameters only.

PART NUMBER EXAMPLES

CHERRY	MS ⑥
CR7310S-06-04	MS90353S0604
CR7310U-06-04D	MS90353U0604D
CR7310-06-04	MS90353-0604

CHERRY MAXIBOLT®

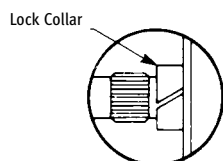
100° FLUSH HEAD – CR7310



Dia. Dash No.	Single Action		A Max.	B Max.	C Max.	D ±.001	H	P Max.	R Max.	W Gage	Z Min.	Hole Limits	Installed Strength	
	Double Action	S U											Single Shear Min. (lbs.)	Tensile Min. (lbs.)
-05	S05	U05	.333	.072	.011	.163	.0171/.0206	.215	.010	.2830/.2832	.844	.164/.167	2340	1350
-06	S06	U06	.386	.080	.013	.198	.0205/.0243	.250	.015	.3270/.3272	.875	.199/.202	3450	2100
—	-08	U08	.507	.105	.017	.259	.0270/.0310	.305	.020	.4318/.4320	1.000	.260/.263	5900	3650
—	-10	U10	.634	.137	.020	.311	.0325/.0367	.350	.025	.5449/.5451	1.218	.312/.315	8500	5200

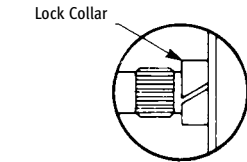
Grip Dash No.	Grip Limits 1/16 Range		05 Dia.		06 Dia.		08 Dia.		10 Dia.	
	Min.	Max.	L Ref.	K Max.	L Ref.	K Max.	L Ref.	K Max.	L Ref.	K Max.
-02	⑤	.157	.280	.434	.303	.479	—	—	—	—
-03		.156	.220	.342	.365	.541	.406	.616	—	—
-04		.219	.282	.405	.428	.604	.469	.678	.506	.743
-05		.281	.345	.467	.490	.666	.531	.740	.568	.805
-06		.344	.407	.530	.553	.729	.594	.803	.631	.868
-07		.406	.470	.592	.746	.615	.791	.866	.693	.930
-08		.469	.532	.655	.809	.678	.854	.928	.756	.993
-09		.531	.595	.717	.872	.740	.916	.990	.818	1.055
-10		.594	.657	.780	.934	.803	.979	.844	1.053	.881
-11		.656	.720	.842	.996	.865	1.041	.906	1.116	.943
-12		.719	.782	.905	1.059	.928	1.104	.969	1.178	1.006
-13		.781	.845	.967	1.122	.990	1.166	1.031	1.240	1.068
-14		.844	.907	1.030	1.184	1.053	1.229	1.094	1.303	1.131
-15		.906	.970	1.092	1.246	1.115	1.291	1.156	1.366	1.193
-16		.969	1.032	—	—	1.178	1.354	1.219	1.428	1.256
-17		1.031	1.095	—	—	1.240	1.416	1.281	1.490	1.318
-18		1.094	1.158	—	—	1.303	1.479	1.344	1.553	1.381
-19		1.156	1.220	—	—	1.365	1.541	1.406	1.616	—
-20		1.219	1.282	—	—	1.428	1.604	1.469	1.678	—

FINISH CODE	MATERIAL②			FINISH		
	SLEEVE	STEM	LOCK COLLAR	SLEEVE	STEM⑨	LOCK COLLAR
NONE	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	CAD. PLATE QQ-P-416 TYPE II, CLASS 2	CAD. PLATE QQ-P-416 TYPE I, CLASS 3	PASSIVATE AMS 2700
D	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	IVD ALUMINUM COATING MIL-DTL-83488	IVD ALUMINUM COATING MIL-DTL-83488	PASSIVATE AMS 2700
EE	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	ALUMINUM COATING NAS4006	ALUMINUM COATING NAS4006	PASSIVATE AMS 2700
EZ	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286-CRES AMS 5737 OR 316 CRES AMS 5690	ZINC PLATE ASTM-B-633 TYPE 2	ALUMINUM COATING NAS4006	PASSIVATE AMS 2700
Z	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	ZINC PLATE ASTM-B-633 TYPE 2	CAD. PLATE QQ-P-416 TYPE 1, CLASS 3	PASSIVATE AMS 2700
DD	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	IVD ALUMINUM COATING PER MIL-DTL-83488, CL3 TYPE 2 PLUS LIGHT GREEN DYE TO FED-STD-595 COLOR RANGE 34670 TO 34325	IVD ALUMINUM COATING MIL-DTL-83488	PASSIVATE AMS 2700



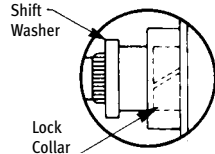
CHERRY	MS ⑥
CR7620S-06-04	MS21140S0604
CR7620U-06-04D	MS21140U0604D
CR7620-06-04	MS21140-0604

PROTRUDING HEAD – CR7311



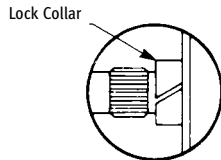
"-" Type

"-" Signifies that the 5/32" and 3/16" diameter sizes are installed with a double action (shifting type) tool.



"S" Type

"S" Signifies that the fastener is installed with a single action (non-shifting) tool for 5/32" and 3/16" diameters. "-" signifies that the fastener is installed with a single action (non-shifting) tool for 1/4" and 5/16" diameters.



"U" Type

"U" Signifies that the fastener is installed by a single action (non-shifting) tool for all diameters.

NOTES

- The length of "D" diameter may be .002 undersize.
- Material designation refers to chemical composition only.
- 05 and -06 dia. fasteners are installed with a double action (shifting) tool; S05 dia., S06 dia., -08 dia., and -10 dia. fasteners are installed with a single action (non-shifting) tool and are supplied with shift washer. Shift washer is solid or split, mfg's option.
- Sizes below heavy line are special order only.
- This product meets the requirements of MS90353 (except for zinc plating and NAS 4006 Alum coating) for "-" code parts, in the -05, -06, -08, and -10 diameter series; and for "S" code parts in the S05 and S06 diameter series.

⑥ Single digit marking is permissible for grip dash numbers less than 10. A dash "-" before grip number is optional.

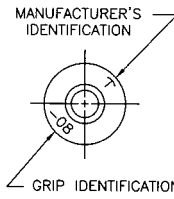
7. Lubrication: None, except manufacturer's option to lubricate lock mechanism with lox compatible dry film lubricant.

⑧ Shift washer or stem dyed green for single action 05 and 06 diameters only.

PART NUMBER EXAMPLES

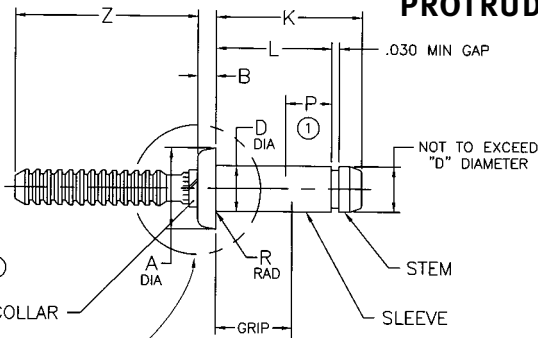
CHERRY	MS
CR7311S-06-04	MS90354S0604
CR7311U-06-04D	MS90354U0604D
CR7311-06-04	MS90354-0604

HEAD MARKING



LOCKING COLLAR

③ CONFIGURATION VARIES WITH TYPE ORDERED

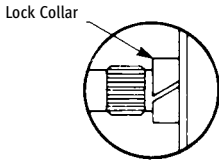


Dia. Dash No.			A	B	D ±.001	P Max.	R Max.	Z Min.	Hole Limits	Installed Strength	
Double Action	Single Action									Single Shear Min. (lbs.)	Tensile Min. (lbs.)
	S	U									
-05	S05	U05	.250/.272	.062/.070	.163	.215	.010	.844	.164/.167	2340	1350
-06	S06	U06	.305/.332	.125/.135	.198	.250	.015	.875	.199/.202	3450	2100
—	-08	U08	.400/.432	.130/.140	.259	.305	.018	1.000	.260/.263	5900	3650
—	-10	U10	.480/.522	.131/.141	.311	.350	.021	1.218	.312/.315	8500	5200

Grip Dash No.	Grip Limits 1/16 Range		05 Dia.		06 Dia.		08 Dia.		10 Dia.	
	Min.	Max.	L Ref.	K Max.	L Ref.	K Max.	L Ref.	K Max.	L Ref.	K Max.
-01	.031	.095	.217	.372	—	—	—	—	—	—
-02	.094	.157	.280	.434	.303	.479	.344	.553	.381	.618
-03	.156	.220	.342	.496	.365	.541	.406	.616	.443	.680
-04	.219	.282	.405	.559	.428	.604	.469	.678	.506	.743
-05	.281	.345	.467	.622	.490	.666	.531	.740	.568	.805
-06	.344	.407	.530	.684	.553	.729	.594	.803	.631	.868
-07	.406	.470	.592	.746	.615	.791	.656	.866	.693	.930
-08	.469	.532	.655	.809	.678	.854	.719	.928	.756	.993
-09	.531	.595	.717	.872	.740	.916	.781	.990	.818	1.055
-10	.594	.657	.780	.934	.803	.979	.844	1.053	.881	1.118
-11	.656	.720	.842	.996	.865	1.041	.906	1.116	.943	1.180
-12	.719	.782	.905	1.059	.928	1.104	.969	1.178	1.006	1.243
-13	.781	.845	.967	1.122	.990	1.166	1.031	1.240	1.068	1.305
-14	.844	.907	1.030	1.184	1.503	1.229	1.094	1.303	1.131	1.368
-15	.906	.970	1.092	1.246	1.115	1.291	1.156	1.366	1.193	1.430
-16	.969	1.032	1.155	1.309	1.178	1.354	1.219	1.428	1.256	1.493
-17	1.031	1.095	1.217	1.372	1.240	1.416	1.281	1.490	1.318	1.555
-18	1.094	1.157	1.280	1.434	1.303	1.479	1.344	1.553	1.381	1.618
-19	1.156	1.220	1.342	1.496	1.365	1.541	1.406	1.616	1.443	1.680
-20	1.219	1.282	1.405	1.559	1.428	1.604	1.469	1.678	1.506	1.743

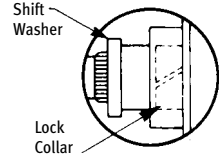
FINISH CODE	MATERIAL②			FINISH		
	SLEEVE	STEM	LOCK COLLAR	SLEEVE	STEM⑧	LOCK COLLAR
NONE	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	CAD PLATE QQ-P-416 TYPE II, CLASS 2	CAD PLATE QQ-P-416 TYPE I, CLASS 3	PASSIVATE AMS 2700
D	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	ALUMINUM COATING MIL-DTL-83488	ALUMINUM COATING MIL-DTL-83488	PASSIVATE AMS 2700
EE	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	ALUMINUM COATING NAS4006	ALUMINUM COATING NAS4006	PASSIVATE AMS 2700
EZ	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	ZINC PLATE ASTM-B-633 TYPE 2	ALUMINUM COATING NAS4006	PASSIVATE AMS 2700
Z	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	ZINC PLATE ASTM-B-633 TYPE 2	CAD PLATE QQ-P-416 TYPE I, CLASS 3	PASSIVATE AMS 2700
DD	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	IVD ALUMINUM COATING PER MIL-DTL-83488, CL3 TYPE 2 PLUS LIGHT GREEN DIE TO FED-STD-595 COLOR RANGE 34670 TO 34325	ALUMINUM COATING MIL-DTL-83488	PASSIVATE AMS 2700

PROTRUDING HEAD – CR7621



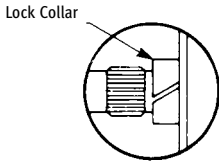
“.” Type

“.” Signifies that the 5/32" and 3/16" diameter sizes are installed with a double action (shifting type) tool.



“S” Type

“S” Signifies that the fastener is installed with a single action (non-shifting) tool for 5/32" and 3/16" diameters. “.” signifies that the fastener is installed with a single action (non-shifting) tool for 1/4" and 5/16" diameters.



“U” Type

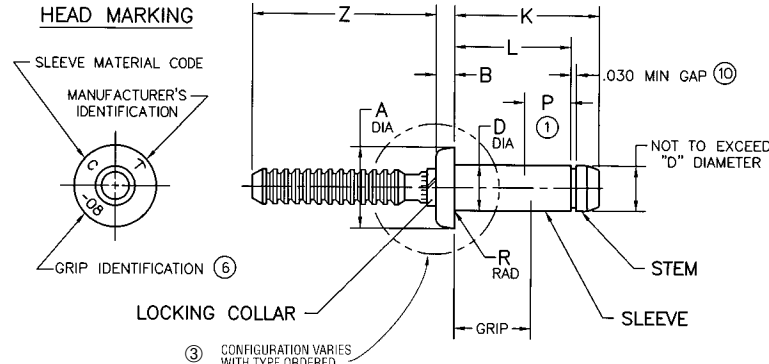
“U” Signifies that the fastener is installed by a single action (non-shifting) tool for all diameters.

NOTES

- ① The length of “D” diameter may be .002 undersize.
- ② Material designation refers to chemical composition only.
- ③ -.05 and -.06 dia. fasteners are installed with a double action (shifting) tool; S05 dia., S06 dia., -.08 dia., and -.10 dia. fasteners are installed with a single action (non-shifting) tool and are supplied with shift washer. Shift washer is solid or split, mfg's option.
4. Sizes below heavy line are special order only.
5. This product meets the requirements of MS21141 for “.” and “S” code parts, except for “D” and “DN” finish codes. NASM8975 applies with the following consideration: load rate for testing spindle retention of -.04 dia = 700 lbs/minute.
- ⑥ Single digit marking is permissible for grip dash numbers less than 10.
- ⑦ When lubricated, parts shall be lubricated per AS5272, type 1, MIL-L-87132, or DOD-L-85645.
- ⑧ Shift washer or stem dyed green for single action 05 and 06 diameters only.
- ⑨ Optional to use Inconel 600 per AMS 5687 (no finish requirement) on -.04 dia. lock collars only.
- ⑩ Required on -.05 dia. and larger with “none” or “P” finish code.

PART NUMBER EXAMPLES

CHERRY	MS
CR7621S-06-04	MS21141S0604
CR7621U-06-04D	MS21141U0604D
CR7621-06-04	MS21141-0604



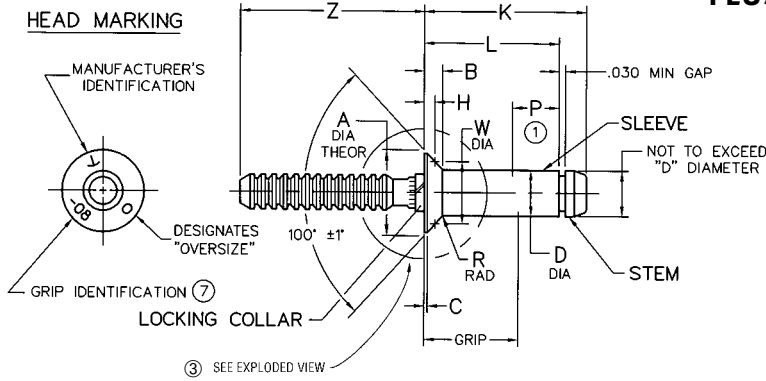
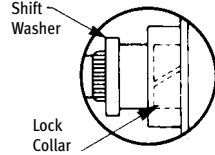
Dia. Dash No.			A	B	D ±.001	P Max.	R Max.	Z Min.	Hole Limits	Installed Strength	
Double Action	Single Action									Single Shear Min. (lbs.)	Tensile Min. (lbs.)
	S	U									
—	S04	—	.197/.215	.054/.060	.128	.190	.010	.812	.129/.132	1222	675
-05	S05	U05	.250/.272	.062/.070	.163	.215	.010	.844	.164/.167	1980	1150
-06	S06	U06	.305/.332	.125/.135	.198	.250	.015	.875	.199/.202	2925	1690
—	-08	U08	.400/.432	.130/.140	.259	.305	.018	1.000	.260/.263	5000	2900
—	-10	U10	.480/.522	.131/.141	.311	.350	.021	1.218	.312/.315	7200	4170

Grip Dash No.	Grip Limits 1/16 Range		04 Dia.		05 Dia.		06 Dia.		08 Dia.		10 Dia.	
	Min.	Max.	L Ref.	K Max.	L Ref.	K Max.	L Ref.	K Max.	L Ref.	K Max.	L Ref.	K Max.
-01	.031	.095	.191	.299	.217	.372	—	—	—	—	—	—
-02	.094	.157	.254	.361	.280	.434	.303	.479	.344	.553	.381	.618
-03	.156	.220	.316	.423	.342	.496	.365	.541	.406	.616	.443	.680
-04	.219	.282	.379	.486	.405	.559	.428	.604	.469	.678	.506	.743
-05	.281	.345	.441	.548	.467	.622	.490	.666	.531	.740	.568	.805
-06	.344	.407	.504	.611	.530	.684	.553	.729	.594	.803	.631	.868
-07	.406	.470	.566	.673	.592	.746	.615	.791	.656	.866	.693	.930
-08	.469	.532	.629	.736	.655	.809	.678	.854	.719	.928	.756	.993
-09	.531	.595	.691	.798	.717	.872	.740	.916	.781	.990	.818	1.055
-10	.594	.657	—	—	.780	.934	.803	.979	.844	1.053	.881	1.118
-11	.656	.720	—	—	.842	.996	.865	1.041	.906	1.116	.943	1.180
-12	.719	.782	—	—	.905	1.059	.928	1.104	.969	1.178	1.006	1.243
-13	.781	.845	—	—	.967	1.122	.990	1.166	1.031	1.240	1.068	1.305
-14	.844	.907	—	—	1.030	1.184	1.053	1.229	1.094	1.303	1.131	1.368
-15	.906	.970	—	—	1.092	1.246	1.115	1.291	1.156	1.366	1.193	1.430
-16	.969	1.032	—	—	1.155	1.309	1.178	1.354	1.219	1.428	1.256	1.493
-17	1.031	1.095	—	—	1.217	1.372	—	—	—	—	—	—

FINISH CODE	MATERIAL②			FINISH			LUBE
	SLEEVE	STEM	LOCK COLLAR⑨	SLEEVE	STEM⑧	LOCK COLLAR⑨	
NONE	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	PASSIVATE AMS 2700	PASSIVATE AMS 2700	PASSIVATE AMS 2700	OPTIONAL⑦
D	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	ALUMINUM COATING MIL-DTL-83488	PASSIVATE AMS 2700	PASSIVATE AMS 2700	OPTIONAL⑦
DL	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	PASSIVATE AMS 2700	PASSIVATE AMS 2700	PASSIVATE AMS 2700	NONE OR DICRONITE DL-5
DN	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	ALUMINUM COATING MIL-DTL-83488	PASSIVATE AMS 2700	PASSIVATE AMS 2700	NONE
N	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	PASSIVATE AMS 2700	PASSIVATE AMS 2700	PASSIVATE AMS 2700	NONE
P	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	CAD. PLATE QQ-P-416 TYPE II CLEAR DICHRIMATE, CLASS 2	PASSIVATE AMS 2700	PASSIVATE AMS 2700	OPTIONAL⑦
PDL	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	CAD. PLATE QQ-P-416 TYPE II CLEAR DICHRIMATE, CLASS 2	PASSIVATE AMS 2700	PASSIVATE AMS 2700	NONE OR DICRONITE DL-5

CHERRY OVERSIZE MAXIBOLT®

FLUSH HEAD – CR7340



"S" Type

"S" Signifies that the fastener is installed with a single action (non-shifting) tool for 5/32" and 3/16" diameters. "-" signifies that the fastener is installed with a single action (non-shifting) tool for 1/4" and 5/16" diameters.

NOTES

- ① The length of "D" diameter may be .002 undersize.
- ② Material designation refers to chemical composition only.
- ③ Shift Washer is solid or split, mfg's option.
4. Sizes below heavy line are special order only.
- ⑤ Minimum grip for -.05 dia. is .094 and -.06 dia. is .120.
- ⑥ This product meets the nominal diameter strength requirements of NASM81177, except hole size shall be as specified herein.
- ⑦ Single digit marking is permissible for grip dash numbers less than 10. A dash "-" before grip number is optional.
8. Lubrication: None, except manufacturer's option to lubricate lock mechanism with lox compatible dry film lubricant.
- ⑨ Shift washer or stem dyed green for S05 and S06 diameters only.

PART NUMBER EXAMPLES

CHERRY
CR7340S-06-04
CR7340-08-04

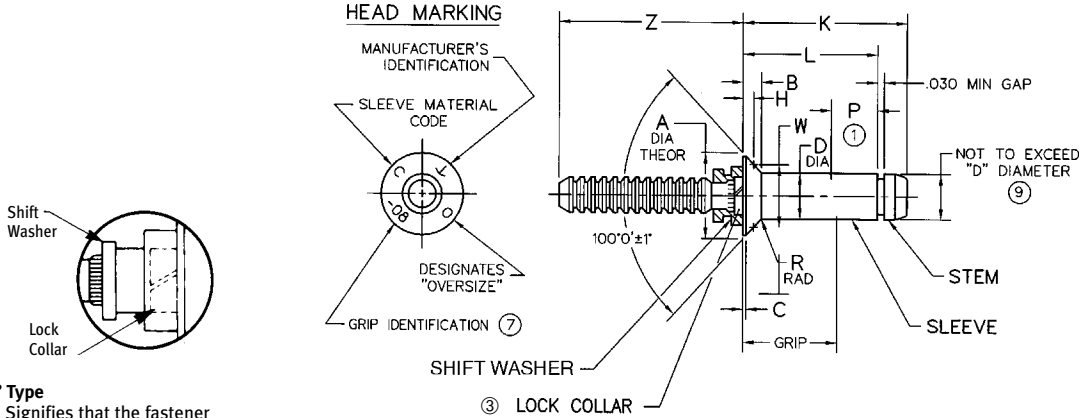
Dia. Dash No.	A	B	C	D	H	P	R	W	Z	Hole Limits	Installed Strength	
											Single Shear Min. (lbs.)	Tensile Min. (lbs.)
S05	.333	.066	.011	.179	.0171/.0206	.215	.010	.2830/.2832	.844	.180/.183	2340	1350
S06	.386	.074	.013	.214	.0205/.0243	.250	.015	.3270/.3272	.875	.215/.218	3450	2100
-08	.507	.099	.017	.275	.0270/.0310	.305	.020	.4318/.4320	1.000	.276/.279	5900	3650
-10	.634	.131	.020	.327	.0325/.0367	.350	.025	.5449/.5451	1.218	.328/.331	8500	5200

Grip Dash No.	Grip Limits 1/16 Range		05 Dia.		06 Dia.		08 Dia.		10 Dia.	
	Min.	Max.	L Ref.	K Max.	L Ref.	K Max.	L Ref.	K Max.	L Ref.	K Max.
-02	⑤	.157	.280	.434	.329	.479	—	—	—	—
-03	.156	.220	.342	.496	.365	.541	.406	.616	—	—
-04	.219	.282	.405	.559	.428	.604	.469	.678	.506	.743
-05	.281	.345	.467	.622	.490	.666	.531	.740	.568	.805
-06	.344	.407	.530	.684	.553	.729	.594	.803	.631	.868
-07	.406	.470	.592	.746	.615	.791	.656	.866	.693	.930
-08	.469	.532	.655	.809	.678	.854	.719	.928	.756	.993
-09	.531	.595	.717	.872	.740	.916	.781	.990	.818	1.055
-10	.594	.657	.780	.934	.803	.979	.844	1.053	.881	1.118
-11	.656	.720	.842	.996	.865	1.041	.906	1.116	.943	1.180
-12	.719	.782	.905	1.059	.928	1.104	.969	1.178	1.006	1.243
-13	.781	.845	.967	1.122	.990	1.166	1.031	1.240	1.068	1.305
-14	.844	.907	1.030	1.184	1.053	1.229	1.094	1.303	1.131	1.368
-15	.906	.970	1.092	1.246	1.115	1.291	1.156	1.366	1.193	1.430
-16	.969	1.032	—	—	1.178	1.354	1.219	1.428	1.256	1.493
-17	1.031	1.095	—	—	—	—	1.281	1.490	1.318	1.555

FINISH CODE	MATERIAL②			FINISH		
	SLEEVE	STEM	LOCK COLLAR	SLEEVE	STEM③	LOCK COLLAR
NONE	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	CAD. PLATE QQ-P-416 TYPE II, CLASS 2	CAD. PLATE QQ-P-416 TYPE I, CLASS 3	PASSIVATE AMS 2700
D	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	ALUMINUM COATING MIL-DTL-83488	ALUMINUM COATING MIL-DTL-83488	PASSIVATE AMS 2700
DD	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	IVD ALUMINUM COATING PER MIL-DTL-83488, CL3 TYPE 2 PLUS LIGHT GREEN DIE TO FED-STD-595 COLOR RANGE 34670 TO 34325	ALUMINUM COATING MIL-DTL-83488	PASSIVATE AMS 2700

CHERRY OVERSIZE MAXIBOLT®

FLUSH HEAD – CR7650



"S" Type

"S" Signifies that the fastener is installed with a single action (non-shifting) tool for 5/32" and 3/16" diameters. "-" signifies that the fastener is installed with a single action (non-shifting) tool for 1/4" and 5/16" diameters.

NOTES

- ① The length of "D" diameter may be .002 undersize.
- ② Material designation refers to chemical composition only.
- ③ Shift washer or serrated portion of stem dyed green for the -05 and -06 diameters only. Shift washer is solid or split, mfg's option.
4. Sizes below heavy line are special order only.
- ⑤ Minimum grip for -05 dia. is .094 and -06 dia. is .100.
- ⑥ This product meets the nominal diameter strength requirements of NASM8975, except hole size shall be as specified herein.
- ⑦ Single digit marking is permissible for grip dash numbers less than 10.
- ⑧ When lubricated, parts shall be lubricated per MIL-L-46010, type 1 or MIL-L-87132.
- ⑨ Stem head diameter may be .002 below "D Dia" Min.

Dia. Dash No.	A	B	C	D	H	P	R	W	Z	Hole Limits	Installed Strength	
											Single Shear Min. (lbs.)	Tensile Min. (lbs.)
S05	.334	.066	.011	.179	.0171/.0206	.215	.010	.2830/.2832	.844	.180/.183	1980	1150
S06	.386	.074	.013	.214	.0205/.0243	.250	.015	.3270/.3272	.875	.215/.218	2925	1690
-08	.507	.099	.017	.275	.0270/.0310	.305	.020	.4318/.4320	1.000	.276/.279	5000	2900
-10	.634	.131	.020	.327	.0325/.0367	.350	.025	.5449/.5451	1.218	.328/.331	7200	4170

Grip Dash No.	Grip Limits 1/16 Range		05 Dia.		06 Dia.		08 Dia.		10 Dia.	
	Min.	Max.	L Ref.	K Max.	L Ref.	K Max.	L Ref.	K Max.	L Ref.	K Max.
-02	⑤	.157	.280	.434	.329	.505	—	—	—	—
-03	.156	.220	.342	.496	.365	.541	.406	.616	—	—
-04	.219	.282	.405	.559	.428	.604	.469	.678	.506	.743
-05	.281	.345	.467	.622	.490	.666	.531	.740	.568	.805
-06	.344	.407	.530	.684	.553	.729	.594	.803	.631	.868
-07	.406	.470	.592	.746	.615	.791	.656	.866	.693	.930
-08	.469	.532	.655	.809	.678	.854	.719	.928	.756	.993
-09	.531	.595	.717	.872	.740	.916	.781	.990	.818	1.055
-10	.594	.657	.780	.934	.803	.979	.844	1.053	.881	1.118
-11	.656	.720	.842	.996	.865	1.041	.906	1.116	.943	1.180
-12	.719	.782	.905	1.059	.928	1.104	.969	1.178	1.006	1.243
-13	.781	.845	.967	1.122	.990	1.166	1.031	1.240	1.068	1.305
-14	.844	.907	1.030	1.184	1.053	1.229	1.094	1.303	1.131	1.368
-15	.906	.970	1.092	1.246	1.115	1.291	1.156	1.366	1.193	1.430
-16	.969	1.032	—	—	1.178	1.354	1.219	1.428	1.256	1.493

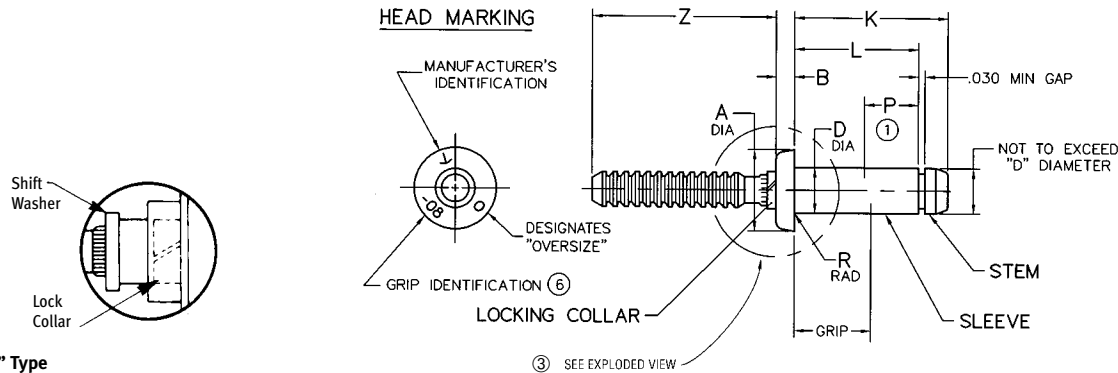
PART NUMBER EXAMPLES

CHERRY
CR7650S-06-04
CR7650-08-04D

FINISH CODE	MATERIAL②			FINISH			LUBE⑧
	SLEEVE	STEM	LOCK COLLAR	SLEEVE	STEM③	LOCK COLLAR	
NONE	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	PASSIVATE AMS 2700	PASSIVATE AMS 2700	PASSIVATE AMS 2700	OPTIONAL
D	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	ALUMINUM COATING MIL-DTL-83488	PASSIVATE AMS 2700	PASSIVATE AMS 2700	OPTIONAL
P	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	CAD. PLATE QQ-P-416 TYPE II, CLEAR DICHROMATE, CLASS 2	PASSIVATE AMS 2700	PASSIVATE AMS 2700	OPTIONAL

CHERRY OVERSIZE MAXIBOLT®

PROTRUDING HEAD – CR7341



“S” Type

“S” Signifies that the fastener is installed with a single action (non-shifting) tool for 5/32" and 3/16" diameters. “-” signifies that the fastener is installed with a single action (non-shifting) tool for 1/4" and 5/16" diameters.

NOTES

- ① The length of “D” diameter may be .002 undersize.
- ② Material designation refers to chemical composition only.
- ③ Shift Washer is solid or split, mfg's option.
4. Sizes below heavy line are special order only.
- ⑤ This product meets the nominal diameter strength requirements of NASM8975, except hole size shall be as specified herein.
- ⑥ Single digit marking is permissible for grip dash numbers less than 10.
7. Lubrication: None, except manufacturer's option to lubricate lock mechanism with lox compatible dry film lubricant.
- ⑧ Shift washer or stem dyed green for S05 and S06 diameters only.

PART NUMBER EXAMPLES

CHERRY
CR7341S-06-04
CR7341-08-04D

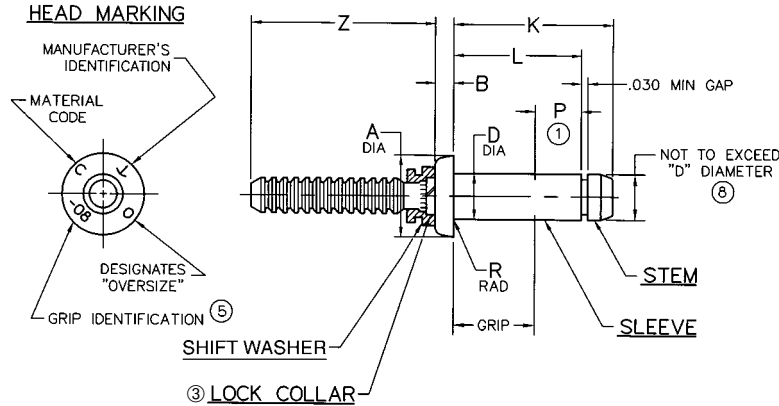
Dia. Dash No.	A	B	D ±.001	P Max.	R Max.	Z Min.	Hole Limits	Installed Strength	
								Single Shear Min. (lbs.)	Tensile Min. (lbs.)
S05	.250/.272	.062/.070	.179	.215	.010	.844	.180/.183	2340	1350
S06	.305/.332	.125/.135	.214	.250	.015	.875	.215/.218	3450	2100
-08	.400/.432	.130/.140	.275	.305	.018	1.000	.276/.279	5900	3650
-10	.480/.522	.131/.141	.327	.350	.021	1.218	.328/.331	8500	5200

Grip Dash No.	Grip Limits 1/16 Range		05 Dia.		06 Dia.		08 Dia.		10 Dia.	
	Min.	Max.	L Ref.	K Max.	L Ref.	K Max.	L Ref.	K Max.	L Ref.	K Max.
-01	.031	.095	.217	.372	—	—	—	—	—	—
-02	.094	.157	.280	.434	.303	.479	.344	.553	.381	.618
-03	.156	.220	.342	.496	.365	.541	.406	.616	.443	.680
-04	.219	.282	.405	.559	.428	.604	.469	.678	.506	.743
-05	.281	.345	.467	.622	.490	.666	.531	.740	.568	.805
-06	.344	.407	.530	.684	.553	.729	.594	.803	.631	.868
-07	.406	.470	.592	.746	.615	.791	.656	.866	.693	.930
-08	.469	.532	.655	.809	.678	.854	.719	.928	.756	.993
-09	.531	.595	.717	.872	.740	.916	.781	.990	.818	1.055
-10	.594	.657	.780	.934	.803	.979	.844	1.053	.881	1.118
-11	.656	.720	.842	.996	.865	1.041	.906	1.116	.943	1.180
-12	.719	.782	.905	1.059	.928	1.104	.969	1.178	1.006	1.243
-13	.781	.845	.967	1.122	.990	1.166	1.031	1.240	1.068	1.305
-14	.844	.907	1.030	1.184	1.053	1.229	1.094	1.303	1.131	1.368
-15	.906	.970	—	—	1.115	1.291	1.156	1.366	1.193	1.430
-16	.969	1.032	—	—	1.178	1.354	1.219	1.428	1.256	1.493

FINISH CODE	MATERIAL②			FINISH		
	SLEEVE	STEM	LOCK COLLAR	SLEEVE	STEM⑧	LOCK COLLAR
NONE	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	CAD. PLATE QQ-P-416 TYPE II, CLASS 2	CAD. PLATE QQ-P-416 TYPE I, CLASS 3	PASSIVATE AMS 2700
D	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	ALUMINUM COATING MIL-DTL-83488	ALUMINUM COATING MIL-DTL-83488	PASSIVATE AMS 2700
DD	4037 ALLOY STEEL ASTM-A-331	8740 ALLOY STEEL ASTM-A-331	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	IVD ALUMINUM COATING PER MIL-DTL-83488, CL3 TYPE 2 PLUS LIGHT GREEN DIE TO FED-STD-595 COLOR RANGE 34670 TO 34325	ALUMINUM COATING MIL-DTL-83488	PASSIVATE AMS 2700

CHERRY OVERSIZE MAXIBOLT®

PROTRUDING HEAD – CR7651



"S" Type

"S" Signifies that the fastener is installed with a single action (non-shifting) tool for 5/32" and 3/16" diameters. "-" signifies that the fastener is installed with a single action (non-shifting) tool for 1/4" and 5/16" diameters.

NOTES

- ① The length of "D" diameter may be .002 undersize.
- ② Material designation refers to chemical composition only.
- ③ Shift Washer or serrated portion of stem dyed green for the -.05 and -.06 diameters only. Shift Washer is solid or split, mfg's option.
4. Sizes below heavy line are special order only.
- ⑤ This product meets the nominal diameter strength requirements of NASM8975, except hole size shall be as specified herein.
- ⑥ Single digit marking is permissible for grip dash numbers less than 10.
- ⑦ When lubricated, parts shall be lubricated per MIL-L-46010, type 1 or MIL-L-87132.
- ⑧ Stem head diameter may be .002 below "D Dia" Min.

PART NUMBER EXAMPLES

CHERRY
CR7651S-06-04
CR7651-08-04D

Dia. Dash No.	Single Action	A	B	D ±.001	P Max.	R Max.	Z Min.	Hole Limits	Installed Strength	
									Single Shear Min. (lbs.)	Tensile Min. (lbs.)
S05		.250/.272	.062/.070	.179	.215	.010	.844	.180/.183	1980	1150
S06		.305/.332	.125/.135	.214	.250	.015	.875	.215/.218	2925	1690
-08		.400/.432	.130/.140	.275	.305	.018	1.000	.276/.279	5000	2900
-10		.480/.522	.131/.141	.327	.350	.021	1.218	.328/.331	7200	4170

Grip Dash No.	Grip Limits 1/16 Range		05 Dia.		06 Dia.		08 Dia.		10 Dia.	
	Min.	Max.	L Ref.	K Max.	L Ref.	K Max.	L Ref.	K Max.	L Ref.	K Max.
-1	.031	.095	.217	.372	—	—	—	—	—	—
-2	.094	.157	.280	.434	.303	.479	.344	.553	.381	.618
-3	.156	.220	.342	.496	.365	.541	.406	.616	.443	.680
-4	.219	.282	.405	.559	.428	.604	.469	.678	.506	.743
-5	.281	.345	.467	.622	.490	.666	.531	.740	.568	.805
-6	.344	.407	.530	.684	.553	.729	.594	.803	.631	.868
-7	.406	.470	.592	.746	.615	.791	.656	.866	.693	.930
-8	.469	.532	.655	.809	.678	.854	.719	.928	.756	.993
-9	.531	.595	.717	.872	.740	.916	.781	.990	.818	1.055
-10	.594	.657	.780	.934	.803	.979	.844	1.053	.881	1.118
-11	.656	.720	.842	.996	.865	1.041	.906	1.116	.943	1.180
-12	.719	.782	.905	1.059	.928	1.104	.969	1.178	1.006	1.243
-13	.781	.845	.967	1.122	.990	1.166	1.031	1.240	1.068	1.305
-14	.844	.907	1.030	1.184	1.053	1.229	1.094	1.303	1.131	1.368
-15	.906	.970	1.092	1.246	1.115	1.291	1.156	1.366	1.193	1.430
-16	.969	1.032	1.155	1.309	1.178	1.354	1.219	1.428	1.256	1.493
-17	1.031	1.095	1.217	1.372	—	—	—	—	—	—

FINISH CODE	MATERIAL ^②			FINISH			LUBE
	SLEEVE	STEM	LOCK COLLAR	SLEEVE	STEM ^③	LOCK COLLAR	
NONE	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	PASSIVATE AMS 2700	PASSIVATE AMS 2700	PASSIVATE AMS 2700	OPTIONAL ^⑦
D	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	ALUMINUM COATING MIL-DTL-83488	PASSIVATE AMS 2700	PASSIVATE AMS 2700	OPTIONAL ^⑦
P	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	CAD. PLATE QQ-P-416 TYPE II CLEAR DICHROMATE, CLASS 2	PASSIVATE AMS 2700	PASSIVATE AMS 2700	OPTIONAL ^⑦
PDL	A-286 CRES AMS 5737	A-286 CRES AMS 5737	A-286 CRES AMS 5737 OR 316 CRES AMS 5690	CAD. PLATE QQ-P-416 TYPE II, CLEAR DICHROMATE, CLASS 2	PASSIVATE AMS 2700	PASSIVATE AMS 2700	NONE OR DICRONITE DL-5

CHERRY MAXIBOLT® INTERCHANGEABILITY

HEAD STYLE	MATERIAL	PART NUMBER	
		CHERRY	MS
FLUSH HEAD	ALLOY STEEL	CR7310S CR7310U CR7310	MS90353S MS90353U MS90353
PROTRUDING HEAD	ALLOY STEEL	CR7311S CR7311U CR7311	MS90354S MS90354U MS90354
FLUSH HEAD	A-286 CRES	CR7620S CR7620U CR7620	MS21140S MS21140U MS21140
PROTRUDING HEAD	A-286 CRES	CR7621S CR7621U CR7621	MS21141S MS21141U MS21141

CHERRY OVERSIZE MAXIBOLT® HEAD STYLE / MATERIAL

HEAD STYLE	MATERIAL	PART NUMBER
		CHERRY
FLUSH HEAD	ALLOY STEEL	CR7340S CR7340
PROTRUDING HEAD	ALLOY STEEL	CR7341S CR7341
FLUSH HEAD	A-286 CRES	CR7650S CR7650
PROTRUDING HEAD	A-286 CRES	CR7651S CR7651

MECHANICAL PROPERTIES

Diameter	Single Shear - lbs.		Tensile - lbs.	
	Alloy Steel 112KSI	A-286 95KS	Alloy Steel	A-286
-04	—	1222	—	675
-05	2340	1980	1350	1150
-06	3450	2925	2100	1690
-08	5900	5000	3650	2900
-10	8500	7200	5200	4170

INSTALLATION TOOL SELECTION CHART

The tooling and pulling head combinations shown in the chart below will install the diameter MAXIBOLTS indicated by the shaded areas, in all grip lengths, head styles and materials. Cherry shift washer style only. (For “U” and “-” type MAXIBOLT installation tooling, please contact Cherry Aerospace at 714-545-5511 or at the address listed on the back cover of this catalog.)

Riveter Model	Pulling Capacity	Height Inches	Base Dia. Inches	Weight Lbs.	Pulling Head	Diameter (3)				
						1/8"	5/32"	3/16"	1/4"	5/16"
G704B	3136	11.0	4.9	4.5	H701B-456					
					H781-456					
					H782					
					H753A-456					
G746A	1850	11.0	4.9	4.0	H701B-456					
					H781-456					
					H782					
					H753A-456					
G747	2100	11.37	4.56	3.5	H701B-456					
					H781-456					
					H782					
					H753A-456					
G750A	3800	6.4	N/A	1.9	H701B-456					
					H781-456					
					H782					
					H753A-456					
					H750A-456					
					H781-456 (1)					
					H782(1)					
G83	3750	11.5	4.9	4.7	H753-456 (1)					
					H750A-5MB					
					H750A-6MB					
					H701B-456 (2)					
G744	3800	12.6	6.25	7.0	H83B-5MB					
					H83B-6MB					
					H846A-456					
G-84	5750	13.25	6.25	7.7	H744-5MB					
G85D-S	6500	15.25	6.0	10.5	H744-6MB					
G87D	9400	15.25	6.0	10.5	H84A-8MB					
					H652-8MB					
					H652-8MB					

(1) Requires 750A-088 adapter.

(2) Requires 700-300 adapter.

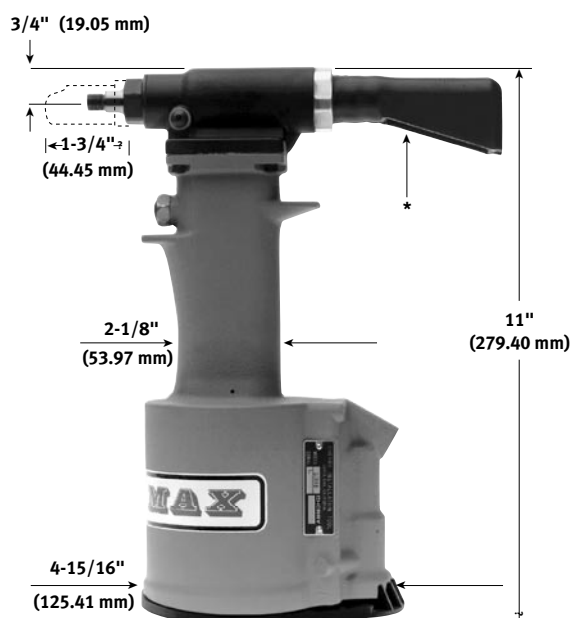
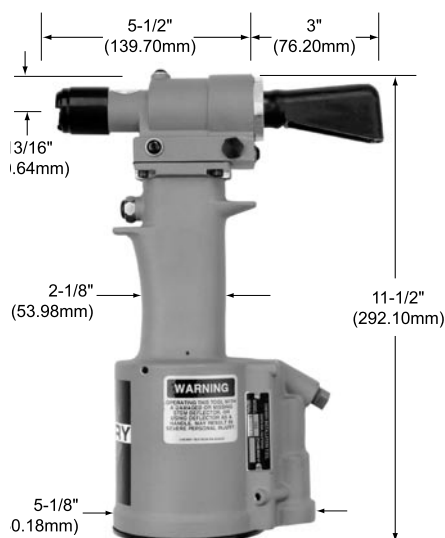
(3) For 5/16" MAXIBOLT installation tooling contact Cherry Aerospace.

G83

National Stock Number 5130-01-435-3507

The Cherry G83 pneumatic-hydraulic installation tool is a rugged production tool designed for high speed, reliable installation of the most popular sizes of aircraft blind bolts, lockbolts and blind rivets.

Weighing only 4.58 pounds, this tool has been designed with many ergonomic features - less recoil, low noise and comfortably fitting in the operator's hand. It can be operated in any position with one hand. The G83 is 11 1/2" high and operates on 90 to 100 psi at the tool. It has a .4375" stroke and 3750 lbs. pulling capacity.



G750A

The G750A Cherry hand hydraulic riveting tool provides the versatility of a pneumatic-hydraulic riveter, but with the lightweight, high pull strength ratio desirability not found in other hand riveters. The Cherry G750A has a unique 2-step hydraulic power cylinder that provides the user with the ease of pulling the handle without the strain normally endured to install a high strength fastener. This patentable 2-step power feature allows the user to squeeze the handle without feeling the need to squeeze harder to install the fastener. The Cherry G750A hand riveter can install a variety of blind fastener styles, diameters, head configurations, and material combinations without changing the pulling head or adjusting the tool.

G704B

National Stock Number 5130-01-393-1584

Military Part Number M85188T2

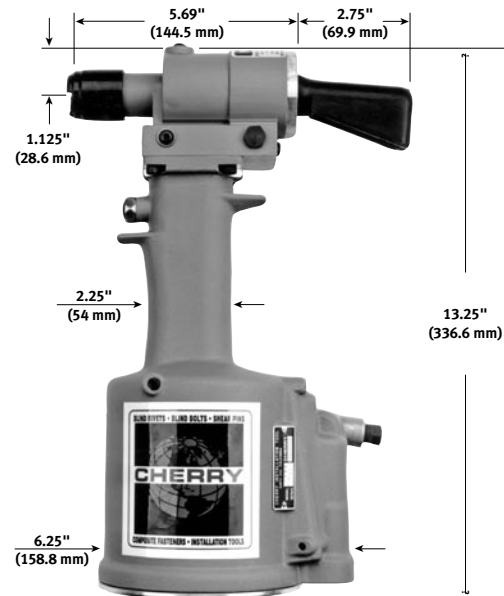
The G704B weighs 4.5 lbs. and can be operated in any position. It has a rivet setting stroke of .518" and a pulling capacity of 3136 lbs. on 90 psi air pressure. Normal operating air pressure is 90-120 psi at the inlet. The G704B consumes approximately 4 DFM of air at 20 cycles per minute and its maximum noise level under load does not exceed 85 dB(A).



G84

The Cherry G84 pneumatic-hydraulic Lockbolt installation tool is a rugged production tool designed for high speed, reliable installation of the most popular sizes of aircraft blind bolts, lockbolts and blind rivets. It incorporates a new improved bayonet attachment for quick change of pulling heads.

Weighing only 7.70 pounds (3.5 kg), this tool has been designed with many ergonomic features - less recoil, low noise and comfortably fitting in the operator's hand. It can be operated in any position with one hand.



H83B STRAIGHT PULLING HEAD

Available for 5/32" and 3/16" diameter MAXIBOLTS. For use with G83 & G84 tools. For use with Cherry shift washer type only. For "U" type blind bolts a replaceable nose piece is available. Contact Cherry Aerospace Technical Services for more information.



H828-5MB AND H828-6MB RIGHT ANGLE PULLING HEADS

This pulling head aids installation of MAXIBOLTS in limited access applications. Available for 5/32" and 3/16" diameter MAXIBOLTS. For use with G744 tool. For use with Cherry shift washer type only. Use 744-200 adapter for G83/G84

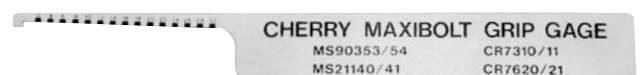


560-070 ADAPTER

Adapts H744-5/6MB, H856-6MB and H828-5/6MB pulling heads to G85D-S and G87D riveters.



GRIP GAGE 269B12



CHERRY MAXIBOLT®

INSTALLED WEIGHTS (lbs. per 1000 pieces)

Style	Grip Length	-04 Dia.	-05 Dia.	-06 Dia.	-08 Dia.	-10 Dia.
CR7310	-01	—	—	—	—	—
	-02	—	2.28	3.66	—	—
	-03	—	2.65	4.21	8.36	13.46
	-04	—	3.02	4.75	9.30	14.80
	-05	—	3.39	5.30	10.25	16.15
	-06	—	3.76	5.84	11.19	17.49
	-07	—	4.13	6.38	12.13	18.63
	-08	—	4.50	6.93	13.07	20.18
	-09	—	4.87	7.47	14.02	21.52
	-10	—	5.24	8.02	14.96	22.87
	-11	—	5.60	8.56	15.90	24.21
	-12	—	5.97	9.10	16.85	25.55
	-13	—	6.34	9.65	17.79	26.90
	-14	—	6.71	10.19	18.73	28.24
	-15	—	7.08	10.74	19.68	29.59
CR7311	-01	—	2.33	—	—	—
	-02	—	2.69	5.46	10.29	14.12
	-03	—	3.06	6.01	11.22	15.46
	-04	—	3.43	6.55	12.15	16.81
	-05	—	3.80	7.09	13.08	18.15
	-06	—	4.17	7.64	14.01	19.50
	-07	—	4.54	8.18	14.95	20.84
	-08	—	4.91	8.73	15.88	22.18
	-09	—	5.28	9.27	16.81	23.53
	-10	—	5.65	9.82	17.74	24.87
	-11	—	6.02	10.36	18.67	26.22
	-12	—	6.38	10.90	19.61	27.56
	-13	—	6.75	11.45	20.54	28.90
	-14	—	7.12	11.99	21.47	30.25
CR7620	-02	1.10	2.31	3.64	—	—
	-03	1.33	2.68	4.19	8.45	—
	-04	1.55	3.05	4.74	9.39	14.96
	-05	1.77	3.43	5.29	10.33	16.32
	-06	1.98	3.80	5.84	11.27	17.67
	-07	2.20	4.17	6.39	12.21	19.03
	-08	2.41	4.55	6.94	13.16	20.39
	-09	2.62	4.92	7.49	14.10	21.75
	-10	—	5.29	8.04	15.04	23.11
	-11	—	5.66	8.59	15.98	24.46
	-12	—	6.04	9.14	16.92	25.82
	-13	—	6.41	9.69	17.87	27.18
	-14	—	6.78	10.24	18.81	28.54
	-15	—	7.16	10.79	19.75	29.90
CR7621	-01	1.30	2.35	—	—	—
	-02	1.52	2.72	5.52	10.39	14.27
	-03	1.74	3.09	6.07	11.34	15.63
	-04	1.96	3.47	6.62	12.28	16.98
	-05	2.18	3.84	7.17	13.22	18.34
	-06	2.40	4.21	7.72	14.16	19.70
	-07	2.62	4.58	8.27	15.10	21.06
	-08	2.84	4.96	8.82	16.05	22.42
	-09	3.06	5.33	9.37	16.99	23.77
	-10	—	5.70	9.92	17.93	25.13
	-11	—	6.08	10.47	18.87	26.49
	-12	—	6.45	11.02	19.81	27.85
	-13	—	6.82	11.57	20.76	29.21
	-14	—	7.19	12.12	21.70	30.56

CHERRY MAXIBOLT®

INSTALLED WEIGHTS (lbs. per 1000 pieces)

Style	Grip Length	-05 Dia.	-06 Dia.	-08 Dia.	-10 Dia.
CR7340	-01	—	—	—	—
	-02	2.63	3.98	—	—
	-03	3.08	4.61	9.22	14.68
	-04	3.52	5.25	10.27	16.17
	-05	3.97	5.88	11.32	17.65
	-06	4.41	6.52	12.37	19.14
	-07	4.86	7.16	13.43	20.62
	-08	5.30	7.79	14.48	22.11
	-09	5.75	8.43	15.53	23.59
	-10	6.19	9.06	16.58	25.08
	-11	6.64	9.70	17.63	26.56
	-12	7.08	10.34	18.68	28.05
	-13	7.53	10.97	19.73	29.53
	-14	7.97	11.61	20.78	31.02
	-15	8.42	12.24	21.83	32.50
CR7341	-01	2.64	—	—	—
	-02	3.08	6.21	11.21	16.81
	-03	3.53	6.85	12.26	18.30
	-04	3.97	7.49	13.31	19.78
	-05	4.42	8.12	14.37	21.27
	-06	4.86	8.76	15.42	22.75
	-07	5.31	9.39	16.47	24.24
	-08	5.75	10.03	17.52	25.72
	-09	6.20	10.67	18.57	27.21
	-10	6.64	1.30	19.62	28.69
	-11	7.09	11.94	20.67	30.18
	-12	7.53	12.57	21.72	31.66
	-13	7.98	13.21	22.77	33.15
	-14	8.42	13.85	23.82	34.63
	-15	8.87	14.48	24.88	36.12
CR7650	-02	2.66	4.02	—	—
	-03	3.11	4.66	9.32	—
	-04	3.56	5.30	10.38	16.34
	-05	4.01	5.95	11.44	17.84
	-06	4.46	6.59	12.50	19.34
	-07	4.91	7.23	13.57	20.84
	-08	5.36	7.88	14.63	22.35
	-09	5.81	8.52	15.69	23.85
	-10	6.26	9.16	16.75	25.35
	-11	6.71	9.81	17.81	26.85
	-12	7.16	10.45	18.88	28.35
	-13	7.61	11.09	19.94	29.85
	-14	8.06	11.73	21.00	31.35
	-15	8.51	12.38	22.06	32.85
CR7651	-01	2.66	—	—	—
	-02	3.11	6.29	11.33	16.99
	-03	3.56	6.93	12.39	18.49
	-04	4.01	7.57	13.45	19.99
	-05	4.46	8.22	14.52	21.49
	-06	4.91	8.86	15.58	22.99
	-07	5.36	9.50	16.64	24.50
	-08	5.81	10.14	17.70	26.00
	-09	6.26	10.79	18.76	27.50
	-10	6.71	11.43	19.83	29.00
	-11	7.16	12.07	20.89	30.50
	-12	7.61	12.72	21.95	32.00
	-13	8.06	13.36	23.01	33.50
	-14	8.51	14.00	24.07	35.00

LIMITED WARRANTY

Seller warrants the goods conform to applicable specifications and drawings and will be manufactured and inspected according to generally accepted practices of companies manufacturing industrial or aerospace fasteners. In the event of any breach of the foregoing warranty, Buyer's sole remedy shall be to return defective goods (after receiving authorization from Seller) for replacement or refund of the purchase price, at the Seller's option. Seller agrees to any freight costs in connection with the return of any defective goods, but any costs relating to removal of the defective or nonconforming goods or installation of replacement goods shall be Buyer's responsibility. SELLER'S WARRANTY DOES NOT APPLY WHEN ANY PHYSICAL OR CHEMICAL CHANGE IN THE FORM OF THE PRODUCT IS MADE BY BUYER. THE FOREGOING EXPRESS WARRANTY AND REMEDY ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES AND REMEDIES; ANY IMPLIED WARRANTY AS TO QUALITY, FITNESS FOR PURPOSE, OR MERCHANTABILITY IS HEREBY SPECIFICALLY DISCLAIMED AND EXCLUDED BY SELLER. This warranty is void if seller is not notified in writing of any rejection of the goods within ninety (90) days after receipt of the goods by buyer.

Seller shall not be liable under any circumstances for incidental, special or consequential damages arising in whole or in part from any breach by Seller, AND SUCH INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES ARE HEREBY EXPRESSLY EXCLUDED.

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CA-1009, Rev. A, Date: January 15, 2007, DCR 07-0014