

# HEX SOCKET PRODUCTS



- Triple Heat Treated, High Strength Alloy Steel
- Deep Sockets For Full Wrench Engagement
- Cold Forged with Precision Rolled Threads
- Socket Head, Flat Head, Button Head, Square Head, Shoulder Screw and Set Screw designs
- Special Chromate Plating or Thermal Black Oxide Finish
- Full Range of Hardened and Tempered Hex Socket Wrenches and Wrench Sets

**CHROMATE CIC 200 AND CIC 150 HEX SOCKET FASTENERS ARE TESTED AND PROVEN TOUGH!** All components are manufactured to exacting specifications, heat treated for shock absorbing, fatigue resistant ductility and then plated with special chromate plating or thermally coated with black oxide for corrosion resistance and durability. Always use Chromate CIC 200™ and CIC™ 150 Socket Fasteners when failure cannot be tolerated.



**CHROMATE INDUSTRIAL CORP.**

*EXCEPTIONAL PRODUCTS, SERVICE AND INNOVATIVE SOLUTIONS*



# CIC 200™ HEX SOCKET CAP SCREWS

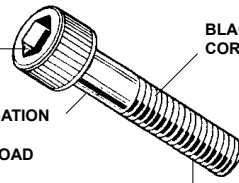
## BLACK FINISH

• MEETS ASME/ANSI B18.3

\*180,000 PSI MINIMUM FOR 1/2" AND SMALLER;  
170,000 PSI MINIMUM FOR 5/8" AND LARGER.

DEEP SOCKET PROVIDES  
STRONGER HEX KEY  
ENGAGEMENT

EXCELLENT ELONGATION  
PROPERTIES FOR  
ULTIMATE CLAMP LOAD



BLACK FINISH FOR DURABILITY AND  
CORROSION RESISTANCE

SMOOTH, CHAMFERED  
END ASSURES  
EASY THREADING

CLASS 3A PRECISION  
ROLLED THREADS

LENGTH	NO. 4		NO. 5		NO. 6		NO. 8		NO. 10		1/4 DIA.		5/16 DIA.	
	USS 40	USS 40	USS 32	SAE 40	USS 32	USS 24	SAE 32	USS 20	SAE 28	USS 18	SAE 24			
3/16	T 35501	-	-	-	-	-	-	-	-	-	-	-	-	-
1/4	T 35502	T 35513	T 35520	-	T 35555	T -	36599	R 35644	-	-	-	-	-	-
5/16	T 35503	-	-	-	-	-	-	-	-	-	-	-	-	-
3/8	T 35504	T 35514	T 35525	36669	T 35560	T 35600	36600	R 35610	36610	R 35624	-	-	-	-
1/2	T 35506	T 35515	T 35530	36670	T 35565	T 35601	36601	R 35611	36611	R 35625	36625	-	-	-
5/8	T 35508	T 35516	T 35535	-	T 35570	R 35602	36602	R 35612	36612	R 35626	36626	-	-	-
3/4	T 35510	R 35517	R 35540	-	R 35575	R 35603	36603	R 35613	36613	R 35627	36627	-	-	-
7/8	T 35511	-	R 35545	-	R 35580	R 35604	36604	R 35614	36614	R 35628	36628	-	-	-
1	T 35512	-	R 35550	-	R 35585	R 35605	36605	R 35615	36615	R 35629	36629	-	-	-
1-1/4	-	-	R 35551	-	R 35590	R 35606	36606	R 35616	36616	R 35630	36630	-	-	-
1-1/2	-	-	R 35552	-	R 35595	R 35607	36607	R 35617	36617	R 35631	36631	-	-	-
1-3/4	-	-	R 35553	-	-	R 35608	36608	R 35618	36618	R 35632	36632	-	-	-
2	-	-	R 35554	-	R 35597	R 35609	36609	R 35619	36619	N 35633	36633	-	-	-
2-1/4	-	-	-	-	-	R 35642	-	N 35620	36620	N 35634	36634	-	-	-
2-1/2	-	-	-	-	R 35599	R 35643	36621	N 35621	-	N 35635	36635	-	-	-
2-3/4	-	-	-	-	-	-	-	N 35622	-	L 35636	-	-	-	-
3	-	-	-	-	-	R -	36623	N 35623	-	L 35637	-	-	-	-
3-1/4	-	-	-	-	-	-	-	-	-	L 35638	-	-	-	-
3-1/2	-	-	-	-	-	-	-	L 35640	-	L 35639	-	-	-	-
4	-	-	-	-	-	-	-	L 35641	-	-	-	-	-	-
LENGTH	3/8 DIA.		7/16 DIA.		1/2 DIA.		5/8 DIA.		3/4 D.	7/8 D.	1 DIA.			
	USS 16	SAE 24	USS 14	SAE 20	USS 13	SAE 20	USS 11	SAE 18	USS 10	USS 9	USS 8			
1/2	R 35650	36650	N 35645	-	N 35690	-	-	-	-	-	-	-	-	-
5/8	R 35651	36651	N 35646	-	N 35691	-	-	-	-	-	-	-	-	-
3/4	R 35652	36652	N 35672	-	N 35692	-	-	-	-	-	-	-	-	-
7/8	R 35653	36653	N 35673	-	N 35693	-	-	-	-	-	-	-	-	-
1	R 35654	36654	N 35674	36674	N 35694	36694	I 35715	36715	-	-	-	-	-	-
1-1/4	R 35655	36655	N 35675	36675	N 35695	36695	I 35716	36716	E 35735	-	-	-	-	-
1-1/2	N 35656	36656	L 35676	36676	L 35696	36696	I 35717	36717	E 35736	-	-	-	-	-
1-3/4	N 35657	36657	L 35677	-	L 35697	36697	I 35718	36718	E 35737	-	-	-	-	-
2	N 35658	36658	L 35678	36678	L 35698	36698	I 35719	36719	E 35738	B 35753	B 35769	-	-	-
2-1/4	N 35659	36659	L 35679	-	L 35699	36699	I 35720	-	E 35739	-	-	-	-	-
2-1/2	N 35660	36660	L 35680	-	L 35700	36700	I 35721	36721	E 35740	B 35755	B 35770	-	-	-
2-3/4	L 35661	-	L 35681	-	L 35701	-	E 35722	-	E 35741	-	-	-	-	-
3	L 35662	36662	L 35682	-	L 35702	36702	E 35723	-	B 35742	B 35757	B 35772	-	-	-
3-1/4	L 35663	-	-	-	I 35703	-	E 35724	-	B 35743	-	A 35773	-	-	-
3-1/2	L 35664	-	I 35684	-	I 35704	-	E 35725	-	B 35744	B 35759	A 35774	-	-	-
4	I 35665	-	I 35686	-	I 35705	-	E 35726	-	B 35745	A 35760	A 35775	-	-	-
4-1/2	I 35666	-	-	-	I 35706	-	E 35727	-	B 35746	A 35761	A 35776	-	-	-
5	I 35667	-	-	-	E 35707	-	E 35728	-	B 35747	A 35762	A 35777	-	-	-
5-1/2	-	-	-	-	E 35708	-	E 35729	-	B 35748	-	-	-	-	-
6	E 35668	-	-	-	B 35709	-	B 35730	-	B 35749	A 35764	A 35779	-	-	-
6-1/2	-	-	-	-	B 35710	-	B 35731	-	B 35750	-	A 35780	-	-	-
7	-	-	-	-	B 35711	-	B 35732	-	A 35751	A 35766	A 35781	-	-	-
8	-	-	-	-	B 35713	-	B 35733	-	A 35752	A 35767	A 35782	-	-	-

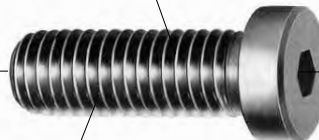
# CIC 200™ LOW HEAD SOCKET CAP SCREWS

## THERMAL BLACK OXIDE FINISH

- USE WHERE STANDARD HEIGHT SOCKET HEAD CAP SCREWS ARE TOO HIGH AND FOR APPLICATIONS WITH LIMITED CLEARANCE
- RC HARDNESS 38-43
- 170,000 PSI MIN. TENSILE STRENGTH

SMOOTH, CHAMFERED END ASSURES EASY THREADING

BLACK OXIDE FINISH FOR DURABILITY AND CORROSION RESISTANCE



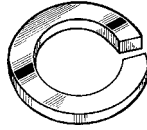
DEEP SOCKET PROVIDES STRONGER HEX KEY ENGAGEMENT

CLASS 3A PRECISION THREADS

LENGTH	NO. 8 5/64 Hex Key		NO. 10 3/32 Hex Key		1/4 DIA. 1/8 Hex Key	5/16 DIA. 5/32 Hex Key	3/8 DIA. 3/16 Hex Key	1/2 DIA. 1/4 Hex Key
	USS 32	USS 24	SAE 32	USS 20	USS 18	USS 16	USS 13	
<b>3/8</b>	R 63400	R 63404	R 63407	R 63411	-	-	-	
<b>1/2</b>	R 63401	R 63405	R 63408	R 63412	R 63416	N 63421	-	
<b>5/8</b>	-	-	R 63409	R 63413	-	-	-	
<b>3/4</b>	R 63402	R 63406	R 63410	R 63414	R 63417	N 63422	-	
<b>1</b>	R 63403	-	-	R 63415	N 63418	N 63423	I 63426	
<b>1-1/4</b>	-	-	-	-	N 63419	N 63424	I 63427	
<b>1-1/2</b>	-	-	-	-	N 63420	N 63425	I 63428	

# HIGH COLLAR LOCK WASHERS

**DESIGNED FOR HIGH STRENGTH LOAD BEARING APPLICATIONS**



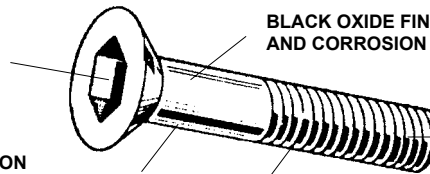
- MEETS SAE J-489 SPECIFICATIONS
- RETAINS STRENGTH UNDER HIGHLOAD CONDITIONS

SIZE	PART	SIZE	PART	SIZE	PART	SIZE	PART
4	U 4889	8	U 4891	5/16	U 4894	1/2	T 4897
5	U 4888	10	U 4892	3/8	U 4895	5/8	R 4898
6	U 4890	1/4	U 4893	7/16	T 4896	3/4	R 4899

# CIC 200™ HEX SOCKET FLAT HEAD CAP SCREWS

**THERMAL BLACK OXIDE FINISH**

- TRIPLE HEAT-TREATED ALLOY STEEL
- MINIMUM 160,000 PSI TENSILE STRENGTH
- MEETS ASME/ANSI B18.3



BLACK OXIDE FINISH FOR DURABILITY AND CORROSION RESISTANCE

SMOOTH, CHAMFERED END ASSURES EASY THREADING

EXCELLENT ELONGATION PROPERTIES FOR ULTIMATE CLAMP LOAD

CLASS 3A PRECISION ROLLED THREADS

LENGTH	NO. 4		NO. 5		NO. 6		NO. 8		NO. 10		1/4 DIA.	
	USS 40	USS 40	USS 40	USS 40	USS 32	USS 32	USS 32	USS 32	USS 24	SAE 32	USS 20	SAE 28
1/4	R 2380	R 2376	R 2400	-	-	-	-	-	-	-	-	-
3/8	R 2381	R 2377	R 2401	R 2405	R 2410	4600	R 2388	4614	R 2411	4602	R 2414	4616
1/2	R 2382	R 2378	R 2402	R 2406	R 2411	4602	R 2414	4616	R 2411	4602	R 2414	4616
5/8	R 2383	R 2379	R 2404	R 2409	R 2411	4604	R 2416	4618	R 2385	4604	R 2416	4618
3/4	R 2384	R 2489	R 2403	R 2407	R 2412	4606	R 2417	4620	R 2412	4606	R 2417	4620
1	-	-	-	R 2408	R 2413	4608	R 2418	4622	R 2413	4608	R 2418	4622
1-1/4	-	-	-	-	R 2386	4610	R 2419	4624	R 2386	4610	R 2419	4624
1-1/2	-	-	-	-	R 2387	4612	O 2421	4626	R 2387	4612	O 2421	4626
1-3/4	-	-	-	-	-	-	O 2422	-	-	-	O 2422	-
2	-	-	-	-	-	-	O 2423	-	-	-	O 2423	-

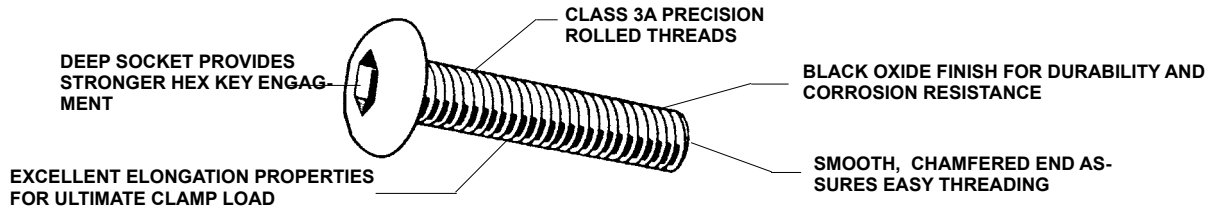
LENGTH	5/16 DIA.		3/8 DIA.		7/16 DIA.		1/2 DIA.		5/8 DIA.		3/4 DIA.	
	USS 18	SAE 24	USS 16	SAE 24	USS 14	USS 13	SAE 20	USS 11	USS 10	USS 11	USS 10	
1/2	R 2424	4628	R 2432	-	-	-	-	-	-	-	-	-
5/8	R 2426	4630	R 2433	4642	-	-	-	-	-	-	-	-
3/4	R 2427	4632	O 2434	4644	L 2370	L 2439	4652	-	-	-	-	-
1	R 2428	4634	O 2436	4646	L 2371	L 2441	4654	-	-	-	-	-
1-1/4	O 2429	4636	O 2437	4648	L 2372	L 2442	4656	I 2449	E 2398	I 2449	E 2398	-
1-1/2	O 2431	4638	O 2438	4650	L 2373	L 2443	4658	I 2450	E 2455	I 2450	E 2455	-
1-3/4	O 2389	-	L 2393	-	L 2374	L 2444	4660	I 2451	E 2456	I 2451	E 2456	-
2	L 2390	-	L 2394	-	L 2375	L 2446	4662	I 2452	E 2457	I 2452	E 2457	-
2-1/4	L 2391	-	L 2395	-	-	I 2440	-	I 2445	-	I 2445	-	-
2-1/2	L 2392	-	L 2396	-	-	I 2447	-	E 2453	E 2458	E 2453	E 2458	-
3	-	-	L 2397	-	-	I 2448	-	E 2454	E 2459	E 2454	E 2459	-

# CIC 200™ BUTTON HEAD CAP SCREWS

## THERMAL BLACK OXIDE FINISH

Deep socket assures full wrench engagement. Triple heat-treated alloy steel. Minimum 160,000 psi tensile strength.

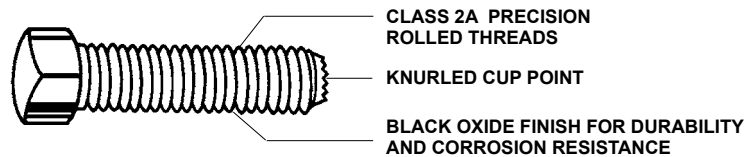
• MEETS ASME/ANSI B18.3



LENGTH	NO. 4	NO. 6	NO. 8	NO. 10		1/4 DIA.		5/16 DIA.		3/8 DIA.		1/2 DIA.	5/8 DIA.
	USS 40	USS 32	USS 32	USS 24	SAE 32	USS 20	SAE 28	USS 18	SAE 24	USS 16	SAE 24	USS 13	USS 11
1/4	T 3901	T 3906	T 3911	T 3918	4918	-	-	-	-	-	-	-	-
3/8	T 3902	T 3907	T 3912	R 3919	4919	R 3926	4926	R 3932	-	-	-	-	-
1/2	T 3903	T 3908	R 3913	R 3920	4920	R 3927	4927	R 3933	4933	o 3938	4938	-	-
5/8	-	T 3909	R 3914	R 3921	4921	R 3928	4928	R 3934	4934	o 3939	-	-	-
3/4	-	-	R 3915	R 3922	4922	R 3929	4929	R 3935	4935	o 3940	4940	-	-
7/8	-	-	-	-	-	R 3931	-	R 3937	-	-	-	-	-
1	-	-	R 3916	R 3923	4923	R 3930	4930	R 3936	4936	o 3941	4941	L 3945	-
1-1/4	-	-	-	-	-	-	-	-	-	o 3942	-	L 3946	I 3951
1-1/2	-	-	-	-	-	-	-	-	-	-	-	L 3947	I 3952
2	-	-	-	-	-	-	-	-	-	-	-	I 3948	I 3953

# CIC 200™ SQUARE HEAD SET SCREWS

• THERMAL BLACK OXIDE FINISH  
 • TRIPLE HEAT-TREATED ALLOY STEEL WITH A UNIQUE KNURLED CUP POINT  
 • HEAT TREATMENT: RC 45 MIN.



LENGTH	1/4 DIA.		5/16 DIA.		3/8 DIA.		1/2 DIA.	
	USS 20		USS 18		USS 16		USS 13	
1/2	o	4801	L	4809	L	4818		-
5/8	o	4802	L	4810	L	4819		-
3/4	L	4803	L	4811	L	4820	I	4825
1	L	4804	L	4812	L	4821	I	4826
1-1-4	L	4805	L	4813	L	4822	I	4827
1-1/2	L	4806	L	4814	L	4823	I	4828
2		-		-	I	4824	I	4829
2-1/2		-		-		-	E	4830
3		-		-		-	E	4831

# CIC 150™ HEX SOCKET SET SCREWS

## THERMAL BLACK OXIDE FINISH

Triple heat-treated alloy steel. Rockwell "C" hardness 45-53. Knurled cup point.

• MEETS ASME/ANSI B18.3



CLASS 3A PRECISION  
ROLLED THREADS



BLACK OXIDE FOR DURABILITY  
AND CORROSION RESISTANCE

KNURLED CUP POINT  
PROVIDES SUPERIOR  
HOLDING POWER



LENGTH	NO. 4		NO. 5		NO. 6		NO. 8		NO. 10		1/4 DIA.		5/16 DIA.	
	USS 40	USS 40	USS 32	USS 32	USS 24	SAE 32	USS 20	SAE 28	USS 18	SAE 24				
<b>1/8</b>	T 61270	T 61279	T 61266	T 61274	-	-	-	-	-	-	-	-	-	-
<b>3/16</b>	T 61271	T 61280	T 61267	T 61275	T 61282	61355	-	<b>61351</b>	-	-	-	-	-	-
<b>1/4</b>	T 61272	T 61281	T 61268	T 61304	T 61283	61356	T 61290	61352	R 61298	-	-	-	-	-
<b>5/16</b>	T 61273	T 61286	T 61295	T 61276	T 61326	61341	T 61359	61353	R 61390	61398	-	-	-	-
<b>3/8</b>	T 61278	T 61287	T 61269	T 61277	T 61284	61357	T 61291	61354	R 61299	61399	-	-	-	-
<b>1/2</b>	-	T 61288	T 61296	T 61305	T 61285	61358	T 61292	61385	R 61300	61400	-	-	-	-
<b>5/8</b>	-	T 61289	T 61297	T 61306	T 61327	61342	T 61345	61386	R 61391	61954	-	-	-	-
<b>3/4</b>	-	T 61293	R 61301	T 61307	T 61338	61343	R 61294	61387	R 61392	61955	-	-	-	-
<b>7/8</b>	-	-	R 61302	T 61308	R 61339	-	R -	-	R 61393	-	-	-	-	-
<b>1</b>	-	-	R 61303	R 61325	R 61340	61344	R 61346	61388	R 61394	61956	-	-	-	-
<b>1-1/4</b>	-	-	-	-	-	-	R 61347	61389	O -	61957	-	-	-	-
<b>1-1/2</b>	-	-	-	-	-	-	R <b>61348</b>	-	O <b>61395</b>	-	-	-	-	-
<b>1-3/4</b>	-	-	-	-	-	-	O <b>61349</b>	-	O <b>61396</b>	-	-	-	-	-
<b>2</b>	-	-	-	-	-	-	O <b>61350</b>	-	O <b>61397</b>	-	-	-	-	-

LENGTH	3/8 DIA.		7/16 DIA.		1/2 DIA.		5/8 DIA.		3/4 D.	1 DIA.	
	USS 16	SAE 24	USS 14	SAE 20	USS 13	SAE 20	USS 11	SAE 18	USS 10	USS 8	
<b>1/4</b>	R <b>61962</b>	-	-	-	-	-	-	-	-	-	-
<b>5/16</b>	R 61963	63326	-	-	-	-	-	-	-	-	-
<b>3/8</b>	R 61310	63327	O -	<b>63378</b>	-	-	-	-	-	-	-
<b>1/2</b>	R 61311	63328	O <b>63373</b>	<b>63379</b>	O 61318	<b>63384</b>	-	-	-	-	-
<b>5/8</b>	R 61964	63329	O <b>63374</b>	-	O 61319	-	-	-	I <b>63394</b>	-	-
<b>3/4</b>	R 61965	63370	O <b>63375</b>	-	O 61320	<b>63385</b>	I <b>63387</b>	-	I <b>63395</b>	-	-
<b>7/8</b>	O 61966	-	O <b>63376</b>	-	-	-	-	-	-	-	-
<b>1</b>	O 61967	63371	O <b>63377</b>	-	I 63380	<b>63386</b>	I <b>63388</b>	-	I <b>63396</b>	B <b>63398</b>	-
<b>1-1/4</b>	-	-	-	-	-	-	I <b>63389</b>	-	-	-	-
<b>1-1/2</b>	O <b>61968</b>	<b>63372</b>	-	-	I <b>63381</b>	-	I <b>63390</b>	-	-	-	-
<b>1-3/4</b>	O <b>61969</b>	-	-	-	I <b>63382</b>	-	I <b>63391</b>	-	-	-	-
<b>2</b>	O <b>63325</b>	-	-	-	I <b>63383</b>	-	E <b>63392</b>	-	-	B <b>63399</b>	-
<b>2-1/2</b>	-	-	-	-	-	-	E <b>63393</b>	-	E <b>63397</b>	-	-

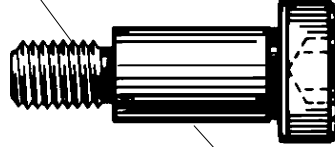
NOTE: Part numbers in bold italic are NOT available with knurled cup point.

# CIC 200™ HEX SOCKET SHOULDER SCREWS

## STRIPPER BOLTS

Deep socket for full wrench engagement. Heated-treated alloy steel. Minimum 160,000 psi tensile strength. Polished and plated shoulder. Rockwell "C" hardness 45-53.

PRECISION  
ROLLED THREADS



DEEP SOCKET  
PROVIDES  
STRONGER  
HEX KEY EN-  
GAGEMENT

- HEAT TREATED ALLOY STEEL
- UNIFIED 3A THREAD FIT
- MEETS ASME/ANSI B18.3

POLISHED SHOULDER FOR  
SMOOTH, PRECISION FIT

SHOULDER LENGTH	1/4 DIA. SHOULDER		5/16 DIA. SHOULDER	
	10-24 x 3/8 THREAD		1/4-20 x 7/16 THREAD	
3/8	L	3602	L	3610
1/2	L	3603	L	3611
5/8	L	3604	L	3612
3/4	L	3605	L	3613
1	L	3606	L	3614
1-1/4	L	3607	L	3615
1-1/2	L	3608	L	3616
1-3/4		-	L	3617
2		-	L	3618

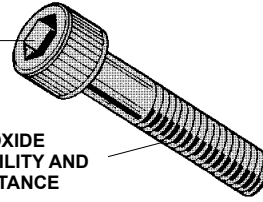
SHOULDER LENGTH	3/8 DIA. SHOULDER		1/2 DIA. SHOULDER		5/8 DIA. SHOULDER		3/4 DIA. SHOULDER	
	5/16-18 x 1/2 THREAD		3/8-16 x 5/8 THREAD		1/2-13 x 3/4 THREAD		5/8-11 x 7/8 THREAD	
3/8	L	3620		-		-		-
1/2	L	3621	I	3637		-		-
5/8	L	3622	I	3638		-		-
3/4	L	3623	I	3639		-		-
1	L	3624	I	3640		-		-
1-1/4	L	3625	I	3641	E	3657		-
1-1/2	L	3626	I	3642	E	3658	E	3678
1-3/4	L	3627	I	3643	E	3660	E	3679
2	L	3628	I	3644	E	3661	E	3680
2-1/4	L	3629	I	3645	E	3662	E	3681
2-1/2	I	3630	I	3646	E	3663	E	3682
2-3/4	I	3631	I	3647	E	3664	E	3683
3	I	3632	E	3648	E	3665	E	3684
3-1/4	I	3633	E	3649	E	3666	E	3685
3-1/2	I	3634	E	3650	E	3667	E	3686
3-3/4		-	E	3651	E	3668	E	3687
4	I	3636	E	3652	E	3669	E	3688
4-1/4		-	E	3653	E	3670	E	3689
4-1/2		-	E	3654	E	3671	E	3690
4-3/4		-	E	3655	E	3672	A	3691
5		-	E	3656	E	3673	A	3692
5-1/2		-		-	A	3674	A	3693
6		-		-	A	3675	A	3694



# CIC 150™ HEX SOCKET CAP SCREWS

- HEAT-TREATED, HIGH-STRENGTH ALLOY STEEL WITH DEEP SOCKET FOR FULL WRENCH ENGAGEMENT
- MINIMUM 180,000\* PSI TENSILE STRENGTH

DEEP SOCKET PROVIDES STRONGER HEX KEY ENGAGEMENT



THERMAL BLACK OXIDE FINISH FOR DURABILITY AND CORROSION RESISTANCE

SMOOTH, CHAMFERED END ASSURES EASY THREADING

\*180,000 PSI MIN 1/2" AND SMALLER;  
170,000 PSI MIN 5/8" AND LARGER.

LENGTH	NO. 2		NO. 4		NO. 5		NO. 6		NO. 8		NO. 10		1/4 DIA.		5/16 DIA.	
	USS 56	USS 40	USS 40	USS 32	USS 32	USS 24	SAE 32	USS 20	SAE 28	USS 18	SAE 24					
1/8	T 61196	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/4	T 61197	T 61211	T 61216	T 61105	T 61112	T 63331	63364	-	-	-	-	-	-	-	-	-
3/8	T 61198	T 61212	T 61217	T 61106	T 61113	T 61121	61201	T 61221	61228	T 61140	-	-	-	-	-	-
1/2	T 61199	T 61213	T 61218	T 61107	T 61114	T 61122	61202	T 61131	61229	T 61141	61245	-	-	-	-	-
5/8	T 61200	T 61214	T 61219	T 61108	T 61115	T 61123	61203	T 61132	61230	T 61142	61246	-	-	-	-	-
3/4	-	T 61215	T 61220	T 61109	T 61116	T 61124	61204	T 61133	61231	T 61143	61247	-	-	-	-	-
7/8	-	-	-	T 61110	T 61117	T 61125	61205	T 61222	61232	T 61239	61248	-	-	-	-	-
1	-	T 61256	T 61257	T 61111	T 61118	T 61126	61206	T 61134	61233	T 61144	61249	-	-	-	-	-
1-1/4	-	-	-	T 61258	T 61119	T 61127	61207	R 61135	61234	T 61145	61250	-	-	-	-	-
1-1/2	-	-	-	T 61259	T 61120	R 61128	61208	R 61136	61235	T 61146	61251	-	-	-	-	-
1-3/4	-	-	-	R 61260	R 61262	R 61129	61210	R 61137	61236	T 61147	61252	-	-	-	-	-
2	-	-	-	R 61261	R 61263	R 61130	61209	R 61138	61237	R 61148	61253	-	-	-	-	-
2-1/4	-	-	-	-	R 61264	-	-	R 61139	61238	R 61240	61254	-	-	-	-	-
2-1/2	-	-	-	-	R 61265	N 63332	63334	R 61223	-	R 61149	61255	-	-	-	-	-
2-3/4	-	-	-	-	-	-	-	R 61224	-	R 61241	-	-	-	-	-	-
3	-	-	-	-	N 63330	N 63333	63335	R 61225	-	R 61242	-	-	-	-	-	-
3-1/4	-	-	-	-	-	-	-	-	-	R 61243	-	-	-	-	-	-
3-1/2	-	-	-	-	-	-	-	R 61226	-	R 61244	-	-	-	-	-	-
4	-	-	-	-	-	-	-	R 61227	-	N 63338	-	-	-	-	-	-
4-1/2	-	-	-	-	-	-	-	I 63336	-	I 63339	-	-	-	-	-	-
5	-	-	-	-	-	-	-	I 63337	-	I 63340	-	-	-	-	-	-
LENGTH	3/8 DIA.		7/16 DIA.		1/2 DIA.		5/8 DIA.		3/4 D.		7/8 D.		1 DIA.			
	USS 16	SAE 24	USS 14	SAE 20	USS 13	SAE 20	USS 11	SAE 18	USS 10	USS 9	USS 8					
1/2	R 61151	61800	-	-	R 61165	-	-	-	-	-	-	-	-	-		
5/8	R 61152	61801	-	-	R 61166	-	-	-	-	-	-	-	-	-		
3/4	R 61153	61802	R 61812	-	R 61167	-	-	-	-	-	-	-	-	-		
7/8	R 61194	61803	R 61813	-	R 61168	-	-	-	-	-	-	-	-	-		
1	R 61154	61804	R 61814	61826	N 61169	61186	L 61835	61854	-	-	-	-	-	-		
1-1/4	R 61155	61805	R 61815	61827	N 61170	61187	L 61836	61855	L 61860	-	-	-	-	-		
1-1/2	R 61156	61806	R 61816	61828	N 61171	61188	L 61837	61856	L 61861	-	-	-	-	-		
1-3/4	R 61157	61807	R 61817	-	N 61172	61189	L 61838	61857	L 61862	-	-	-	-	-		
2	R 61158	61808	N 61818	61829	N 61173	61190	L 61839	61858	I 61863	E 61878	E 61888	-	-	-		
2-1/4	R 61195	61809	N 61819	-	N 61833	61191	L 61840	-	I 61864	-	-	-	-	-		
2-1/2	R 61159	61810	N 61820	-	N 61174	61192	L 61841	61859	I 61865	E 61879	E 61889	-	-	-		
2-3/4	R 61160	-	N 61821	-	N 61834	-	L 61842	-	I 61866	-	-	-	-	-		
3	R 61161	61811	N 61822	-	L 61175	61193	L 61843	-	I 61867	E 61880	E 61890	-	-	-		
3-1/4	N 61162	-	N 61823	-	L 61176	-	I 61844	-	I 61868	-	-	-	-	-		
3-1/2	N 61163	-	N 61824	-	L 61177	-	I 61845	-	I 61869	E 61881	B 61891	-	-	-		
4	N 61164	-	L 61825	-	L 61178	-	I 61846	-	I 61870	E 61882	B 61892	-	-	-		
4-1/2	N 61830	-	-	-	L 61179	-	I 61847	-	E 61871	B 61883	B 61893	-	-	-		
5	L 61831	-	-	-	I 61180	-	I 61848	-	E 61872	B 61884	B 61894	-	-	-		
5-1/2	-	-	-	-	I 61181	-	I 61849	-	E 61873	-	-	-	-	-		
6	I 61832	-	-	-	I 61182	-	I 61850	-	E 61874	B 61885	B 61895	-	-	-		
6-1/2	-	-	-	-	E 61183	-	E 61851	-	B 61875	-	-	-	-	-		
7	-	-	-	-	E 61184	-	E 61852	-	B 61876	B 61886	B 61896	-	-	-		
8	-	-	-	-	E 61185	-	E 61853	-	B 61877	B 61887	B 61897	-	-	-		
9	-	-	-	-	B 63366	-	B 63341	-	A 63345	A 63349	A 63353	-	-	-		
10	-	-	-	-	B 63367	-	B 63342	-	A 63346	A 63350	A 63354	-	-	-		
11	-	-	-	-	B 63368	-	B 63343	-	A 63347	A 63351	A 63355	-	-	-		
12	-	-	-	-	B 63369	-	B 63344	-	A 63348	A 63352	A 63356	-	-	-		

# CIC 150™ HEX SOCKET CAP SCREWS (Cont.)

LENGTH	1-1/4 DIA.		1-1/2 DIA.	
	USS 7		USS 6	
	A	63357	A	63361
	A	63358	A	63362

LENGTH	1-1/4 DIA.		1-1/2 DIA.	
	USS 7		USS 6	
10	A	63359	A	63363
12	A	63360	A	63365

12

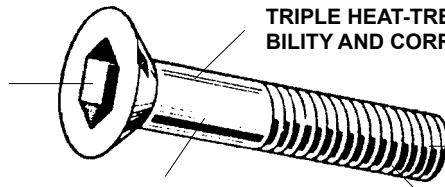
# CIC 150™ HEX SOCKET FLAT HEAD CAP SCREWS

## THERMAL BLACK OXIDE FINISH

Deep socket assures full wrench engagement. Minimum 160,000 psi tensile strength.

• MEETS ASME/ANSI B18.3

DEEP SOCKET PROVIDES STRONGER HEX KEY ENGAGEMENT



TRIPLE HEAT-TREATED ALLOY STEEL FOR DURABILITY AND CORROSION RESISTANCE

SMOOTH, CHAMFERED END ASSURES EASY THREADING

EXCELLENT ELONGATION PROPERTIES FOR ULTIMATE CLAMP LOAD

CLASS 3A PRECISION THREADS

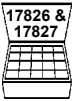


LENGTH	NO. 4		NO. 6		NO. 8		NO. 10		1/4 DIA.			
	USS 40		USS 32		USS 32		USS 24		SAE 28			
1/4	T	61700	T	61710	-	-	-	-	-	-		
3/8	T	61701	T	61711	T	61715	T	61720	61727	T	61734	61743
1/2	T	61702	T	61712	T	61716	T	61721	61728	T	61735	61744
5/8	T	61703	T	61713	T	61717	T	61722	61729	T	61736	61745
3/4	T	61704	T	61714	T	61718	T	61723	61730	T	61737	61746
1	-	-	-	-	T	61719	T	61724	61731	T	61738	61747
1-1/4	-	-	-	-	-	-	T	61725	61732	R	61739	61748
1-1/2	-	-	-	-	-	-	T	61726	61733	R	61740	61749
1-3/4	-	-	-	-	-	-	-	-	-	R	61741	-
2	-	-	-	-	-	-	-	-	-	R	61742	-

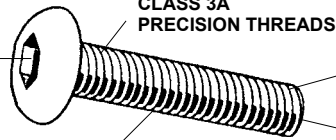
LENGTH	5/16 DIA.		3/8 DIA.		7/16 DIA.		1/2 DIA.		5/8 DIA.		3/4 DIA.							
	USS 18		SAE 24		USS 16		SAE 24		USS 14		USS 13		SAE 20		USS 11		USS 10	
1/2	R	61750	61761	R	61767	-	-	-	-	-	-	-	-	-	-	-	-	-
5/8	R	61751	61762	R	61772	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4	R	61752	61763	R	61768	60741	N	61777	N	61788	60747	-	-	-	-	-	-	-
1	R	61753	61764	R	61769	60742	N	61778	N	61789	60748	-	-	-	-	-	-	-
1-1/4	N	61754	61765	R	61770	60743	N	61779	N	61790	60749	I	60720	E	60731	-	-	-
1-1/2	N	61755	61766	R	61771	60744	N	61780	N	61791	60750	I	60721	E	60732	-	-	-
1-3/4	N	61756	61797	R	61774	60745	N	61781	N	61792	60751	I	60722	E	60733	-	-	-
2	N	61757	61798	R	61773	60746	N	61782	N	61793	60752	I	60723	E	60734	-	-	-
2-1/4	-	-	-	-	-	-	-	-	-	-	-	I	60724	-	-	-	-	-
2-1/2	N	61759	-	N	61775	-	-	-	N	61795	-	E	60725	E	60735	-	-	-
3	R	61760	-	N	61776	-	-	-	I	61796	-	E	60726	B	60736	-	-	-
3-1/2	-	-	-	-	-	-	-	-	-	-	-	B	60727	B	60737	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	B	60728	B	60738	-	-	-
4-1/2	-	-	-	-	-	-	-	-	-	-	-	B	60729	B	60739	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	B	60730	A	60740	-	-	-

# CIC 150™ BUTTON HEAD CAP SCREWS

- THERMAL BLACK OXIDE FINISH
- MEETS ASME/ANSI B18.3
- MINIMUM 160,000 PSI TENSILE STRENGTH



DEEP SOCKET PROVIDES STRONGER HEX KEY ENGAGEMENT



TRIPLE HEAT-TREATED ALLOY STEEL FOR DURABILITY AND CORROSION RESISTANCE

SMOOTH, CHAMFERED END ASSURES EASY THREADING

EXCELLENT ELONGATION PROPERTIES FOR ULTIMATE CLAMP LOAD

LENGTH	NO. 4		NO. 6		NO. 8		NO. 10		1/4 DIA.		5/16 DIA.		3/8 DIA.		1/2 DIA.	
	USS 40	USS 32	USS 32	USS 24	SAE 32	USS 20	SAE 28	USS 18	SAE 24	USS 16	USS 13					
1/4	T 61900	T 61903	T 61907	T 61912	61919	-	-	-	-	-	-	-	-	-	-	-
3/8	T 61901	T 61904	T 61908	T 61913	61920	T 61926	61932	R 61937	61943	-	-	-	-	-	-	-
1/2	T 61902	T 61905	T 61909	T 61914	61921	T 61927	61933	R 61938	61944	R 61948	-	-	-	-	-	-
5/8	-	T 61906	T 61910	T 61915	61922	T 61928	61934	R 61939	61945	R 61949	-	-	-	-	-	-
3/4	-	-	T 61911	T 61916	61923	T 61929	61935	R 61940	61946	R 61950	-	-	-	-	-	-
7/8	-	-	-	-	-	T 61930	-	-	-	R 61951	-	-	-	-	-	-
1	-	-	-	T 61918	61925	T 61931	61936	R 61942	61947	R 61952	R 61958	-	-	-	-	-
1-1/4	-	-	-	-	-	-	-	-	-	R 61953	R 61959	-	-	-	-	-
1-1/2	-	-	-	-	-	-	-	-	-	-	R 61960	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	R 61961	-	-	-	-	-

## HEX BIT SOCKETS

### 3/8 SQUARE DRIVE

- PRECISION TOLERANCES, HEAT TREATED ALLOY STEEL
- BLACK FINISH



SIZE	PART	SIZE	PART	SIZE	PART
7/64	A 70380	5/32	A 70383	1/4	A 70386
1/8	A 70381	3/16	A 70384	5/16	A 70387
9/64	A 70382	7/32	A 70385	3/8	A 70388

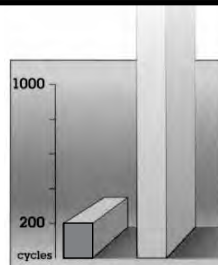
### 1/2 SQUARE DRIVE

- PRECISION TOLERANCES, HEAT TREATED ALLOY STEEL
- BLACK FINISH



SIZE	PART	SIZE	PART	SIZE	PART
1/4	A 70400	7/16	A 70403	9/16	A 70405
5/16	A 70401	1/2	A 70404	5/8	A 70406
3/8	A 70402	-	-	-	-

## HEX-PLUS® HEX KEYS



Number of tightening and loosening cycles before fastener rounding occurs

- Hex-Plus® Key Section
- Conventional Key Section



- ADVANTAGES**
- Increased contact surface between key and fastener – reducing rounding and slippage.
  - Notch pressure spread over a greater area – extends the service life of both key and fastener.



NOTCHING ACTION REDUCE NOTCH PRESURE WITH A CONVENTIONAL KEY. PRESURE WITH A HEX-PLUS® KEY

- REDUCES FASTENER ROUNDING
- MANUFACTURED WITH HEAT-TREATED ALLOY STEEL TO PRECISION TOLERANCES
- OUTPERFORMS CONVENTIONAL KEYS BY DISTRIBUTING PRESSURE ON THE FLAT SIDES OF FASTENERS, EXTENDING SERVICE LIFE OF BOTH KEY AND FASTENER

DESCRIPTION	PART
LONG SERIES - 13 keys - .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8	A 70331

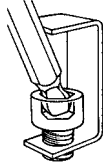
# HEX KEYS (Cont'd.)

## BALL END HEX KEY SETS

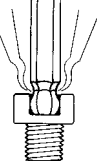


- PATENTED BALL DESIGN ALLOWS FOR A THICKER NECK DIAMETER, INCREASING TORQUE CAPACITY UP TO 100% WHILE MAINTAINING OPERATIONAL ANGLES TO 25°
- SET CONTAINS MOST POPULAR SIZES – IDEAL WHERE A VARIETY OF TOOL SIZES ARE REQUIRED
- PATENTED CARRYING CASE – WRENCHES SLIP EASILY INTO INDIVIDUALLY MARKED SLOTS AND TWIST TO LOCK SECURELY IN PLACE. PREVENTS LOOSE OR LOST KEYS
- ALL HEX KEYS HAVE AN EXCLUSIVE CORROSION RESISTANT DRY FINISH
- HEAT-TREATED ALLOY STEEL PROVIDES OPTIMUM HARDNESS AND ELIMINATES SHATTERING

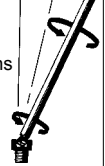
- **Angle entry to 25°**
- Works in hard to reach areas
  - Faster insertion and removal



- **Ergonomic design**
- Allows natural hand and wrist rotation
  - Turns full 360° in location
  - Reduces user fatigue



- **Fast funnel entry**
- Eliminates wasted time even in blind applications
  - Full depth engagement
  - Reduces "stripping" problems



SIZE	PART	SIZE	PART	SIZE	PART
.050	E 70350	7/64	E 70354	7/32	E 70359
1/16	E 70351	1/8	E 70355	1/4	E 70360
5/64	E 70352	9/64	E 70356	5/16	B 70361
3/32	E 70353	5/32	E 70357	3/8	B 70362
		3/16	70358		
13 Key Standard Set – .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8					A 70333

## RETAINING L HEX KEY



SPECIAL SLIDE AND TIP-OUT L-KEY HOLDER FOR FASTEST KEY ACCESS



- HARDENED SPRING STEEL RETAINING RING HOLDS SCREWS TIGHTLY
- SATIN HARD CHROME FINISH IS CORROSION RESISTANT
- PRECISION MACHINED FOR EXACT FIT NO CUT-OFF DISTORTIONS
- MADE FROM EXCLUSIVE CVM HARDENED TOOL STEEL
- SPECIAL SLIDE AND TIP-OUT L-KEY HOLDER FOR FASTEST KEY ACCESS
- MAKES WORKING IN TIGHT OR LIMITED ACCESS APPLICATIONS A SNAP!
- SAVES VALUE TIME . . . IMPROVES PRODUCTIVITY!

### 3 TOOLS IN ONE!

1. Standard hex tool
2. Ball end for angle entry
3. Screw holding for time savings



SIZE	PART	SIZE	PART	SIZE	PART
.050	A 70170	7/64	A 70174	7/32	A 70179
1/16	A 70171	1/8	A 70175	1/4	A 70180
5/64	A 70172	9/64	A 70176	5/16	A 70181
3/32	A 70173	5/32	A 70177	3/8	A 70182
		3/16	70178		
13 KEY INCH SET INCLUDES: Standard: .050, 1/16, 5/64, 3/32, 7/64 Retaining L: 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8					A 70339

## HEX-PRO™ HEX KEYS



- A VERSATILE HEX KEY WRENCH WITH A UNIQUE PATENTED PIVOTAL JOINT THAT SAVES YOU TIME AND ALLOWS YOU TO WORK EFFICIENTLY IN THOSE LIMITED SPACE LOCATIONS
- HIGH QUALITY INDUSTRIAL STEEL
- LONG HANDLES FOR EXTRA REACH AND MORE LEVERAGE
- CANVAS POUCH / HOLDER INCLUDED WITH SET
- LIMITED LIFETIME WARRANTY
- AVAILABLE IN MOST COMMON SIZES ONLY


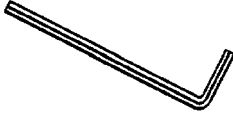
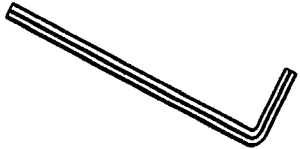


SIZE	PART	SIZE	PART
3/16	L 70152	5/16	L 70155
7/32	L 70153	3/8	L 70156
1/4	L 70154	5-Pc. SAE Hex Key Set	A 70150


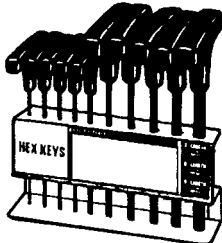
# CIC 200™ HEX SOCKET WRENCHES

## INDIVIDUAL WRENCHES AND SETS

Heat treated alloy steel, hardened and tempered for durability and strength.

"T" HANDLE			STANDARD		EXTRA LONG	
						
LENGTH	6" BLADE	9" BLADE	SHORT	LONG	6" LONG	12" LONG
.028	-	-	L 70200	-	-	-
.035	-	-	L 70201	70227	-	-
.050	-	-	L 70202	70228	-	-
1/16	-	-	L 70203	70229	-	-
5/64	-	-	L 70204	70230	I 70253	I 70269
3/32	E 70281	F 70296	L 70205	70231	I 70254	I 70270
7/64	E 70282	F 70297	L 70206	70232	I 70255	-
1/8	E 70283	F 70298	L 70207	70233	I 70256	I 70271
9/64	E 70284	F 70299	L 70208	70234	I 70257	-
5/32	E 70285	F 70300	L 70209	70235	I 70258	E 70272
3/16	E 70286	F 70301	L 70210	70236	I 70259	E 70273
7/32	E 70287	F 70302	L 70211	70237	I 70260	E 70274
1/4	E 70288	F 70303	L 70212	70238	I 70261	E 70275
5/16	E 70289	F 70304	I 70213	70239	E 70262	-
3/8	E 70290	F 70305	E 70214	70240	E 70263	-
7/16	-	-	E 70215	70241	-	-
1/2	-	-	E 70216	70242	-	-
9/16	-	-	E 70217	70243	-	-
5/8	-	-	A 70218	70244	-	-
3/4	-	-	A 70219	70245	-	-
7/8	-	-	A 70220	70246	-	-
1	-	-	A 70221	70247	-	-

# CIC 200™ HEX SOCKET WRENCH SETS

T-HANDLE SETS		HEX KEY SETS WITH PLASTIC CASE			
DESCRIPTION	PART	DESCRIPTION	PART	DESCRIPTION	PART
10 Piece Set - 6" Blade	A 70326	<b>SHORT SERIES</b> - 13 keys - .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8.  <b>LONG SERIES</b> - 13 keys: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8.  <b>EXTRA LONG 6" SERIES</b> - 9 keys: 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8.  <b>EXTRA LONG 12" SERIES</b> - 7 keys: 5/64, 3/32, 1/8, 5/32, 3/16, 7/32 and 1/4 (case not included).	A 70312	<b>FOLDING HEX KEY SET</b> - 9 keys - 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32 and 1/4  	A 70319
10 Piece Set - 9" Blade	A 70330		A 70316		
Sizes include: 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8  			A 70322		
			A 70324		



# BIN ASSORTMENTS

## CIC 200 USS HEX SOCKET CAP SCREWS

### *40-Compartment Steel Bin*



***You Receive a 40-Compartment Bin Labeled for 40 of the Fastest Moving Sizes Needed in Maintenance!***

**PART NO. 5790**

**ONE STEEL 40-HOLE BIN**

33-3/4" wide, 22-1/2" high, 12" deep\*

\*Can be shipped via UPS

**INCLUDED IN THE ORIGINAL ASSORTMENT YOU WILL RECEIVE 20 DIFFERENT ITEMS AND 20 COMPARTMENTS FOR FUTURE EXPANSION. YOU WILL BE ABLE TO FILL IN ADDITIONAL SIZES EACH MONTH ON MY SERVICE CALL.**

**COMPARTMENTS ARE FULLY LABELED.**

**(See Plan-A-Graph for complete details)**

#### **ASSORTMENT CONTAINS:**

20 Sizes USS Hex Socket Cap Screws ..... 1/4" thru 1/2" Diameter



1 P/N 7903 — 40 Compartment Bin

# CHROMATE 200™ HEX SOCKET CAP SCREW ASSORTMENT

**P/N 5790 — USS SIZES — 20 ITEMS / 40 HOLES**

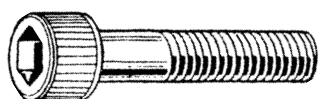
1/4 x 1/2 HEX SOCKET CAP SCREW 5611	1/4 x 3/4 HEX SOCKET CAP SCREW 5613	1/4 x 1 HEX SOCKET CAP SCREW 5615	1/4 x 1-1/4 HEX SOCKET CAP SCREW 5616	1/4 x 1-1/2 HEX SOCKET CAP SCREW 5617			
5/16 x 1/2 HEX SOCKET CAP SCREW 5625	5/16 x 3/4 HEX SOCKET CAP SCREW 5627	5/16 x 1 HEX SOCKET CAP SCREW 5629	5/16 x 1-1/4 HEX SOCKET CAP SCREW 5630	5/16 x 1-1/2 HEX SOCKET CAP SCREW 5631			
3/8 x 3/4 HEX SOCKET CAP SCREW 5652	3/8 x 1 HEX SOCKET CAP SCREW 5654	3/8 x 1-1/4 HEX SOCKET CAP SCREW 5655	3/8 x 1-1/2 HEX SOCKET CAP SCREW 5656	3/8 x 2 HEX SOCKET CAP SCREW 5658			
1/2 x 1 HEX SOCKET CAP SCREW 5694	1/2 x 1-1/4 HEX SOCKET CAP SCREW 5695	1/2 x 1-1/2 HEX SOCKET CAP SCREW 5696	1/2 x 2 HEX SOCKET CAP SCREW 5698	1/2 x 2-1/2 HEX SOCKET CAP SCREW 5700			



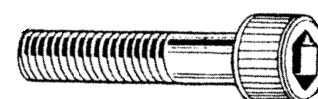
# CIC 200™ HEX SOCKET CAP SCREW ASSORTMENT

## HEX KEY INTERCHANGEABILITY

					SCREW DIAMETER					
SHORT SERIES PART NO.	LONG SERIES PART NO.	EXTRA LONG — 6" PART NO.	FOOT LONG SERIES PART NO.	HEX ACROSS FLAT	SOCKET SET SCREWS	1960 SERIES SOCKET HEAD CAP SCREWS	FLAT HEAD SOCKET CAP SCREWS	BUTTON HEAD SOCKET CAP SCREWS	SOCKET HEAD SHOULDER CAP SCREWS	SOCKET PRESSURE CAP SCREWS
70202	70228	—	—	.050	#3 & #4	#0	—	—	—	—
70203	70229	—	—	1/16	#5 & #6	#1	#4	#4	—	—
70204	70230	70253	70269	5/64	#8	#2 & #3	#5 & #6	#5 & #6	—	—
70205	70231	70254	70270	3/32	#10 & #12	#4 & #5	#8	#8	—	—
70206	70232	70255	—	7/64	—	#6	—	—	—	—
70207	70233	70256	70271	1/8	1/4	—	#10	#10	1/4	—
70208	70234	70257	—	9/64	—	#8	—	—	—	—
70209	70235	70258	70272	5/32	5/16	#10	1/4	1/4	5/16	1/16
70210	70236	70259	70273	3/16	3/8	1/4	5/16	5/16	3/8	1/8
70211	70237	70260	70274	7/32	7/16	—	3/8	3/8	—	—
70212	70238	70261	70275	1/4	1/2 & 9/16	5/16	7/16	—	1/2	1/4
70213	70239	70262	—	5/16	5/8	3/8	1/2	1/2	5/8	3/8
70214	70240	70263	—	3/8	3/4	7/16 & 1/2	5/8	5/8	3/4	1/2
70215	70241	—	—	7/16	—	9/16	—	—	—	—
70216	70242	—	—	1/2	7/8	5/8	3/4	—	7/8 and 1	—
70217	70243	—	—	9/16	1 & 1-1/8	—	7/8	—	—	3/4
70218	70244	—	—	5/8	1-1/4 & 1-3/8	3/4	1	—	1-1/4	1
70219	70245	—	—	3/4	1-1/2	7/8 & 1	—	—	—	1-1/4



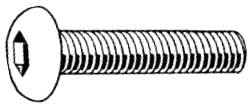
# TORQUE DATA



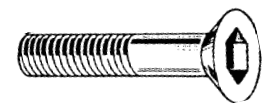
<b>SOCKET HEAD CAP SCREWS</b>					
<b>NOMINAL SIZE</b>	<b>HEX KEY SIZE</b>	<b>RECOMMENDED TENSION (POUNDS)</b>		<b>RECOMMENDED TORQUE (INCH - POUNDS)*</b>	
		<b>UNRC</b>	<b>UNRF</b>	<b>UNRC</b>	<b>UNRF</b>
<b>0 (0.0600)</b>	—	—	190	—	2.6
<b>1 (0.0730)</b>	1/16	280	290	4.5	4.8
<b>2 (0.0860)</b>	5/64	390	410	7.5	8.0
<b>3 (0.0990)</b>	5/64	510	550	11.0	12.0
<b>4 (0.1120)</b>	3/32	630	690	16.0	18.0
<b>5 (0.1250)</b>	3/32	830	870	24.0	24.0
<b>6 (0.1380)</b>	7/64	950	1,070	30.0	34.0
<b>8 (0.1640)</b>	9/64	1,460	1,550	55.0	58.0
<b>10 (0.1900)</b>	5/32	1,840	2,100	79.0	90.0
				<b>(FOOT - POUNDS)*</b>	
<b>1/4 (0.2500)</b>	3/16	3,530	4,040	17	19
<b>5/16 (0.3125)</b>	1/4	5,820	6,450	35	38
<b>3/8 (0.3750)</b>	5/16	8,620	9,770	62	70
<b>7/16 (0.4375)</b>	3/8	11,830	13,180	100	109
<b>1/2 (0.5000)</b>	3/8	15,760	17,800	150	172
<b>5/8 (0.6250)</b>	1/2	23,740	26,890	283	317
<b>3/4 (0.7500)</b>	5/8	35,080	39,150	500	562
<b>7/8 (0.8750)</b>	3/4	41,590	45,830	688	767
<b>1 (1.0000)</b>	3/4	54,350	59,662	1,040	1,080
<b>1-1/4 (1.2500)</b>	7/8	87,225	96,600	2,080	2,310
<b>1-1/2 (1.5000)</b>	1	126,450	142,280	3,625	4,080

*\*Listed torques are 75 percent of the torque to yield based on ASTM574. Specification listing tensile strength of 180,000 psi for screw size 1/2" and smaller and 170,000 psi for screw size 5/8" and larger.*

**CAUTION:** The above data should only be used as a reference guide. The proper torque can only be determined by analyzing the design parameters which include temperature, plating, lubrication, etc. Short time tensile, creep and stress relaxation should be considered for applications where the temperature exceeds 400°F (204°C). Lower ductility, impact strength and fatigue life must be considered for screws subject to temperatures below -20°F (-29°C). All socket screw products are class 3A fit except size 1-1/4" and larger which are class 2A fit.



# TORQUE DATA (Continued)



BUTTON HEAD AND FLAT HEAD CAP SCREWS								
NOMINAL SIZE	HEX KEY SIZE	BUTTON HEAD			FLAT HEAD			
		TENSILE STRENGTH (Lbs Min.)	SHEAR STRENGTH (Lbs Min.)	TIGHTENING TORQUE (Inch - Lbs)	TENSILE STRENGTH (Lbs Min.)	SHEAR STRENGTH (Lbs Min.)		TIGHTENING TORQUE (Inch - Lbs)
						Body	Thread	
<b>4 (0.1120)</b>	1/16	880	620	8	880	1,100	620	9.5
<b>5 (0.1250)</b>	5/64	—	—	—	1,150	1,370	820	14
<b>6 (0.1380)</b>	5/64	1,320	940	15	1,320	1,670	940	18
<b>8 (0.1640)</b>	3/32	2,030	1,450	30	2,030	2,360	1,450	32
<b>10 (0.1900)</b>	1/8	2,540	1,810	65	2,540	3,180	1,810	75
<b>1/4 (0.2500)</b>	5/32	4,610	3,300	125	4,610	5,500	3,300	140
<b>5/16 (0.3125)</b>	3/16	7,600	5,430	200	7,600	8,590	5,430	245
<b>3/8 (0.3750)</b>	7/32	11,200	8,040	360	11,200	12,350	8,040	400
<b>7/16 (0.4375)</b>	1/4	—	—	—	15,400	16,800	11,000	600
<b>1/2 (0.5000)</b>	5/16	20,600	14,700	1,000	20,600	22,000	14,700	1200
<b>5/8 (0.6250)</b>	3/8	32,500	23,400	1,750	32,800	34,350	23,400	2000
<b>3/4 (0.7500)</b>	1/2	—	—	—	45,100	49,500	34,600	4000
<b>7/8 (0.8750)</b>	9/16	—	—	—	62,400	61,000	47,900	6000
<b>1 (1.0000)</b>	5/8	—	—	—	81,800	80,100	62,850	8500

SHOULDER SCREWS (STRIPPER BOLTS)						
NOMINAL SHOULDER SIZE	NOMINAL THREAD SIZE	HEX KEY SIZE	THREAD SECTION TENSILE STRENGTH (LBS MIN.)	SINGLE SHEAR STRENGTH (LBS MIN.)		TIGHTENING TORQUE (INCH - LBS.)
				THREAD NECK	SHOULDER	
<b>1/4</b>	10-24	1/8	2,540	1,250	4,515	50
<b>5/16</b>	1/4-20	5/32	4,610	2,340	7,100	125
<b>3/8</b>	5/16-18	3/16	7,600	3,970	10,280	265
<b>1/2</b>	3/8-16	1/4	11,240	5,985	18,350	470
<b>5/8</b>	1/2-13	5/16	20,570	11,140	28,785	1,150
<b>3/4</b>	5/8-11	3/8	32,770	17,800	41,515	2,000
<b>1</b>	3/4-10	1/2	48,430	26,800	74,000	4,000

**CAUTION:** The above data should only be used as a reference guide. The proper torque can only be determined by analyzing the design parameters which include temperature, plating, lubrication, etc. Short time tensile, creep and stress relaxation should be considered for applications where the temperature exceeds 400°F (204°C). Lower ductility, impact strength and fatigue life must be considered for screws subject to temperatures below -20°F (-29°C). All socket screw products are class 3A fit except size 1-1/4" and larger which are class 2A fit.

# BIN ASSORTMENTS

## CIC 200 HEX SOCKET CAP SCREWS

### *40-Compartment Steel Bin*



***You Receive a 40-Compartment Bin Labeled for 40 of the Fastest Moving Sizes Needed in Maintenance!***

### **PART NO. 7830**

**ONE STEEL 40-HOLE BIN**

33-3/4" wide, 22-1/2" high, 12" deep\*

\*Can be shipped via UPS

**INCLUDED IN THE ORIGINAL ASSORTMENT YOU WILL RECEIVE 40 DIFFERENT ITEMS. YOU WILL BE ABLE TO FILL IN ADDITIONAL SIZES EACH MONTH ON MY SERVICE CALL.**

**COMPARTMENTS ARE FULLY LABELED.**

**(See Plan-A-Graph for complete details)**

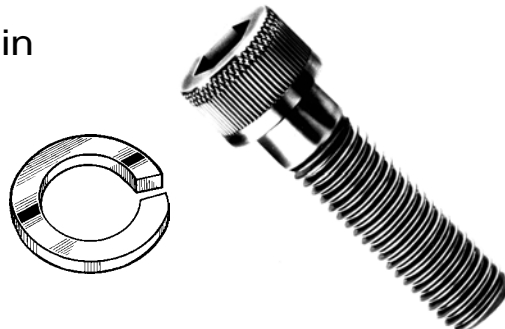
***Use Bin Label Set #168081***

### **ASSORTMENT CONTAINS:**

35 Sizes USS Hex Socket Cap Screws ..... 1/4" thru 5/8" Diameter

5 Sizes High Collar Washers ..... 1/4" thru 5/8" Diameter

1 P/N 7903 – 40 Compartment Bin



# CIC 200 HEX SOCKET CAP SCREW ASSORTMENT

**P/N 7830 — USS SIZES — 40 ITEMS / 40 HOLES**

1/4 HIGH COLLAR LOCK WASHER 4893	1/4-20 x 1/2 SOCKET HEAD CAP SCREW 35611	1/4-20 x 3/4 SOCKET HEAD CAP SCREW 35613	1/4-20 x 1 SOCKET HEAD CAP SCREW 35615	1/4-20 x 1-1/2 SOCKET HEAD CAP SCREW 35617	1/4-20 x 2 SOCKET HEAD CAP SCREW 35619	1/4-20 x 2-1/2 SOCKET HEAD CAP SCREW 35621	1/4-20 x 3 SOCKET HEAD CAP SCREW 35623
5/16 HIGH COLLAR LOCK WASHER 4894	5/16-18 x 1/2 SOCKET HEAD CAP SCREW 35625	5/16-18 x 3/4 SOCKET HEAD CAP SCREW 35627	5/16-18 x 1 SOCKET HEAD CAP SCREW 35629	5/16-18 x 1-1/2 SOCKET HEAD CAP SCREW 35631	5/16-18 x 2 SOCKET HEAD CAP SCREW 35633	5/16-18 x 2-1/2 SOCKET HEAD CAP SCREW 35635	5/16-18 x 3 SOCKET HEAD CAP SCREW 35637
3/8 HIGH COLLAR LOCK WASHER 4895	3/8-16 x 1/2 SOCKET HEAD CAP SCREW 35650	3/8-16 x 3/4 SOCKET HEAD CAP SCREW 35652	3/8-16 x 1 SOCKET HEAD CAP SCREW 35654	3/8-16 x 1-1/2 SOCKET HEAD CAP SCREW 35656	3/8-16 x 2 SOCKET HEAD CAP SCREW 35658	3/8-16 x 2-1/2 SOCKET HEAD CAP SCREW 35660	3/8-16 x 3 SOCKET HEAD CAP SCREW 35662
1/2 HIGH COLLAR LOCK WASHER 4897	1/2-13 x 1 SOCKET HEAD CAP SCREW 35694	1/2-13 x 1-1/4 SOCKET HEAD CAP SCREW 35695	1/2-13 x 1-1/2 SOCKET HEAD CAP SCREW 35696	1/2-13 x 2 SOCKET HEAD CAP SCREW 35698	1/2-13 x 2-1/2 SOCKET HEAD CAP SCREW 35700	1/2-13 x 3 SOCKET HEAD CAP SCREW 35702	1/2-13 x 3-1/2 SOCKET HEAD CAP SCREW 35704
5/8 HIGH COLLAR LOCK WASHER 4898	5/8-11 x 1-1/4 SOCKET HEAD CAP SCREW 35716	5/8-11 x 1-1/2 SOCKET HEAD CAP SCREW 35717	5/8-11 x 2 SOCKET HEAD CAP SCREW 35719	5/8-11 x 2-1/2 SOCKET HEAD CAP SCREW 35721	5/8-11 x 3 SOCKET HEAD CAP SCREW 35723	5/8-11 x 3-1/2 SOCKET HEAD CAP SCREW 35725	5/8-11 x 4 SOCKET HEAD CAP SCREW 35726

# BIN ASSORTMENTS

## CIC 150 HEX SOCKET CAP SCREWS

### *40-Compartment Steel Bin*



***You Receive a 40-Compartment Bin Labeled for 40 of the Fastest Moving Sizes Needed in Maintenance!***

### **PART NO. 7831**

**ONE STEEL 40-HOLE BIN**

33-3/4" wide, 22-1/2" high, 12" deep\*

\*Can be shipped via UPS

**INCLUDED IN THE ORIGINAL ASSORTMENT YOU WILL RECEIVE 40 DIFFERENT ITEMS. YOU WILL BE ABLE TO FILL IN ADDITIONAL SIZES EACH MONTH ON MY SERVICE CALL.**

**COMPARTMENTS ARE FULLY LABELED.**

**(See Plan-A-Graph for complete details)**

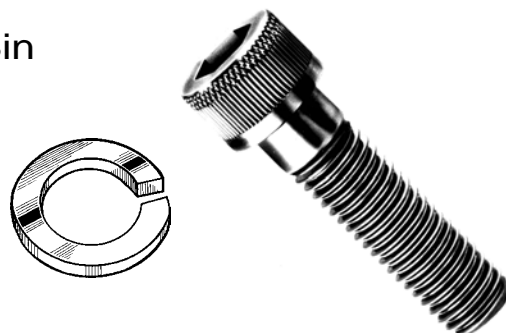
***Use Bin Label Set #168105***

### **ASSORTMENT CONTAINS:**

35 Sizes USS Hex Socket Cap Screws ..... 1/4" thru 5/8" Diameter

5 Sizes High Collar Washers ..... 1/4" thru 5/8" Diameter

1 P/N 7903 – 40 Compartment Bin



# CIC 150 HEX SOCKET CAP SCREW ASSORTMENT

**P/N 7831 — USS SIZES — 40 ITEMS / 40 HOLES**

1/4 HIGH COLLAR LOCK WASHER 4893	1/4-20 x 1/2 SOCKET HEAD CAP SCREW 61131	1/4-20 x 3/4 SOCKET HEAD CAP SCREW 61133	1/4-20 x 1 SOCKET HEAD CAP SCREW 61134	1/4-20 x 1-1/2 SOCKET HEAD CAP SCREW 61136	1/4-20 x 2 SOCKET HEAD CAP SCREW 61138	1/4-20 x 2-1/2 SOCKET HEAD CAP SCREW 61223	1/4-20 x 3 SOCKET HEAD CAP SCREW 61225
5/16 HIGH COLLAR LOCK WASHER 4894	5/16-18 x 1/2 SOCKET HEAD CAP SCREW 61141	5/16-18 x 3/4 SOCKET HEAD CAP SCREW 61143	5/16-18 x 1 SOCKET HEAD CAP SCREW 61144	5/16-18 x 1-1/2 SOCKET HEAD CAP SCREW 61146	5/16-18 x 2 SOCKET HEAD CAP SCREW 61148	5/16-18 x 2-1/2 SOCKET HEAD CAP SCREW 61149	5/16-18 x 3 SOCKET HEAD CAP SCREW 61242
3/8 HIGH COLLAR LOCK WASHER 4895	3/8-16 x 1/2 SOCKET HEAD CAP SCREW 61151	3/8-16 x 3/4 SOCKET HEAD CAP SCREW 61153	3/8-16 x 1 SOCKET HEAD CAP SCREW 61154	3/8-16 x 1-1/2 SOCKET HEAD CAP SCREW 61156	3/8-16 x 2 SOCKET HEAD CAP SCREW 61158	3/8-16 x 2-1/2 SOCKET HEAD CAP SCREW 61159	3/8-16 x 3 SOCKET HEAD CAP SCREW 61161
1/2 HIGH COLLAR LOCK WASHER 4897	1/2-13 x 1 SOCKET HEAD CAP SCREW 61169	1/2-13 x 1-1/4 SOCKET HEAD CAP SCREW 61170	1/2-13 x 1-1/2 SOCKET HEAD CAP SCREW 61171	1/2-13 x 2 SOCKET HEAD CAP SCREW 61173	1/2-13 x 2-1/2 SOCKET HEAD CAP SCREW 61174	1/2-13 x 3 SOCKET HEAD CAP SCREW 61175	1/2-13 x 3-1/2 SOCKET HEAD CAP SCREW 61177
5/8 HIGH COLLAR LOCK WASHER 4898	5/8-11 x 1-1/4 SOCKET HEAD CAP SCREW 61836	5/8-11 x 1-1/2 SOCKET HEAD CAP SCREW 61837	5/8-11 x 2 SOCKET HEAD CAP SCREW 61839	5/8-11 x 2-1/2 SOCKET HEAD CAP SCREW 61841	5/8-11 x 3 SOCKET HEAD CAP SCREW 61843	5/8-11 x 3-1/2 SOCKET HEAD CAP SCREW 61845	5/8-11 x 4 SOCKET HEAD CAP SCREW 61846