



CR2810 Contactor Parts

CONTACTS AND SPRINGS FOR CR2810 CONTACTORS (Cont'd)

CR2810 Contactor, Type and Form	Stationary Contact, Cat. No.	Movable Contact, Cat. No.	Spring for Contact, Cat. No.	CR2810 Contactor, Type and Form	Stationary Contact, Cat. No.	Movable Contact, Cat. No.	Spring for Contact, Cat. No.
1229-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L	* 472466 † 1416332	* 472466 † 1452602	*† 178313	1553-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M	2457337 3860990G3 3860990G1	2457351 3860990G2 3860990G2	2415140 2415140 2415140
1229-E	* 3840441G2 † 1416332	* 3840441G2 † 1452602	*† 178313	1554-A	2457337	2457351	2411332
1239-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L	1464861	469040	189703	1555-A, -B, -C, -D, -E, -F	2457337	2457351	2415140
1245-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L	2228772	3805658G2	5720594	1557-A, -B, -C	2457337	2457351	2411332
1245-C, -D, -E, -F, -G, -H, -J, -K, -L	2228772	3805658G2	2232298	1558-A, -B, -C, -D, -E, -F	2457337	2457351	2415140
1265-C, -D, -E, -F, -G, -H, -J, -K, -L	2810483G3	1493475	2411314	1561-A	2447762	2473010	2413600
1265-G, -H, -J, -K, -L, -M, -N, -P, -Q, -R, -S, -T, -W, -X, -Y, -Z	2810483G3	2810405G1	2411314	1561-C, -D	4371412G2	4371412G1	2413600
1265-J, -K, -L, -M	2810483G3	2810405G2	2411314	1562-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P, -Q, -R, -S, -T, -W, -X, -Y, -Z	2447762 4311097G1 4371412G2	2473010 4311097G2 4371412G1	2413600 2413600 2413600
1314-A, -B, -C, -D, -E, -F	1476440	1476440	189703	1563-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P, -Q, -R, -S, -T, -W, -X, -Y, -Z	2447762 4311097G1 4371412G2	2473010 4311097G2 4371412G1	2413600 2413600 2413600
1314-C, -D, -E, -F, -G, -H, -J, -K, -L	2840224G2	2840224G2	189703	1564-A	2447762	2473010	2413600
1315-A, -C, -D	1476440	1476440	189703	1564-B, -C, -D	4371412G2	4371412G1	2413600
1315-F	2840224G2	2840224G2	189703	1565-A	2447762	2473010	2413600
1332-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L	2456014	2455288	2411348	1572-C, -D	*2458490 †3860962G3	*5151779 †3860962G2	*2413921 †39X529
1341-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P, -Q, -R, -S, -T, -W, -X, -Y, -Z	1452603 †1452603 ‡1456945	1445307 †1445307	189703 189703	1572-E, -F	*4959854G1 †3860962G3	*4959854G2 †3860962G2	*2413921 †39X529
1342-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N	1452603 †1452603 ‡1456945	1445307 †1445307	189703 189703	1573-C, -D, -P	*2458490 †3860962G3	*5151779 †3860962G2	*2413921 †39X529
1342-J	1452603 †1452603 ‡1456945	1445307 †1445307	189703 189703	1573-E, F	*4959854G1 †3860962G3	*4959854G2 †3860962G2	*2413921 †39X529
1342-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P, -Q, -R, -S, -T, -W, -X, -Y, -Z	1452603	1445307	189703	1574-C	*2458490 †3860962G3	*5151779 †3860962G2	*2413921 †39X529
1343-D, -E, -F, -G, -H, -J, -K, -L	†1452603 ‡1456945	†1445307	189703	1574-D	*4959854G1 †3860962G3	*4959854G2 †3860962G2	*2413921 †39X529
1343-H	†1452603 ‡1456945	†1445307	189703	1575-C	*2458490 †3860962G3	*5151779 †3860962G2	*2413921 †39X529
1343-P, -Q, -U, -AC, -AD	2840224G3 †1452603	2890181G1 †1452603	189703 189703	1575-D	*4959854G1 †3860962G3	*4959854G2 †3860962G2	*2413921 †39X529
1343-V	1452603	1445307	189703	1811-A, -B, -D, -E	●5373245G1 ▲5373245G2	5373245G3	2415135
1344-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P, -Q, -R, -S, -T, -W, -X, -Y, -Z	1452603 †1452603 ‡1456945	1445307 †1445307	189703 189703	1811-L, -M, -N, -P, -Q	●5373245G1 ▲5373245G2	5373245G3	2415135
1344-J	1452603 †1452603 ‡1456945	1445307 †1445307	189703 189703	1820-A, -B, -D, -E	●5375160G3 ▲5375160G4	5303307G1	2415331
1345-A, -B, -C, -D, -E, -F, -G	1452603 †1452603 ‡1456945	1445307 †1445307	189703 189703	1823-A, -C, -E, -F, -H	5384962 6914956G2	5384963 6914856G1	2415954 2415954
1345-F	2840224G3	2890181G1	189703	1823-B, -D, -G, -J	5384962 6914856G2	5384963 6914856G1	2415954 2415954
1351-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P, -Q, -R, -S, -T, -W, -X, -Y, -Z	1468908	1445307	189703	1824-A	5384962 6914856G2	5384963 6914856G1	2415954 2415954
1352-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P, -Q, -R, -S, -T, -W, -X, -Y, -Z	1468908	1445307	189703	1825-A, -C, -E, -G, -AA, -AC, -AD	5384962 6914856G2	5384963 6914856G1	2415954 2415954
1352-T, -W, -AD	2810492G2	2890181G1	189703	1825-B, -D, -F, -H, -AB, -AE	5552149 6965160G2	6908543 6965160G1	2415142 2415142
1353-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P, -Q, -R, -S, -T, -W, -X, -Y, -Z	1468908	1445307	189703	1852-A, -C, -AA	5352149 6965160G2	6908543 6965160G1	2415142 2415142
1353-K, -L, -Q, -R	2810492G2	2890181G1	189703	1852-B, -D, -AB	5352149 6965160G2	6908543 6965160G1	2415142 2415142
1354-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P, -Q, -R, -S, -T, -W, -X, -Y, -Z	1468908	1445307	189703	1853-A, -C, -AA, -AC, -AE	5352149 6965160G2	6908543 6965160G1	2415142 2415142
1354-P, -R, -T, -U, -V, -AC, -AE	2810492G2	2890181G1	189703	1853-B, -D, -AB, -AD	5352149 6965160G2	6908543 6965160G1	2415142 2415142
1355-A, -B, -D	1468908	1445307	189703	1854-A, -AA	5352149 6965160G2	6908543 6965160G1	2415142 2415142
1355-C, -E, -F	2810492G2	2890181G1	189703	1855-B	5352149 6965160G2	6908543 6965160G1	2415142 2415142
1375-C, -D, -E, -F, -G, -H	2483877	2455288	189703	1862-A, -C, -AA	5352149 6965160G2	6908543 6965160G1	2416432 2416432
1392-A, -B, -C, -D, -E, -F	2451757	1498492G1	235185	1862-B, -D, -AB	5352149 6965160G2	6908543 6965160G1	2416432 2416432
1531-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P, -Q, -R, -S, -T, -W, -X, -Y, -Z	2486058 6973082G4	2455288 6973082G3	2414326 2416405	1863-A, -C, -AA, -AC, -AE	5352149 6965160G2	6908543 6965160G1	2416432 2416432
1541-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M	1468908	1445307	189703	1863-B, -D, -AB, -AD	5352149 6965160G2	6908543 6965160G1	2416432 2416432
1542-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M	1468908	1445307	189703	1864-A, -AA	5352149 6965160G2	6908543 6965160G1	2416432 2416432
1543-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P, -Q, -R, -S, -T, -W, -X, -Y, -Z	1468908	1445307	189703	1864-B, -AB	5352149 6965160G2	6908543 6965160G1	2416432 2416432
1544-A, -B	1468908	1445307	189703	1865-A, -AA	5352149 6965160G2	6908543 6965160G1	2416432 2416432
1552-A, -B, -D, -F	2457337 3860990G3 3860990G1	2457351 3860990G2 3860990G2	2411332 2411332 2411332	1865-B	5352149 6965160G2	6908543 6965160G1	2416432 2416432

For prices, see page 63.
For illustrations, see pages 61 and 62.

* Main.
† Auxiliary.
‡ Tip for normally open contact.
§ Tip for normally closed contact.
¶ Interlock.
● Front.
▲ Rear.

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Contactor and Magnetic Switch Parts

CONTACTS AND SPRINGS FOR INTERLOCKS USED WITH CR2810 CONTACTORS

Contactors, CR2810-	Interlock Parts			Contactors, CR2810-	Interlock Parts		
	Stationary	Movable	Compression Spring, Cat. No.		Stationary	Movable	Compression Spring, Cat. No.
	Contact Tip or Block, Cat. No.	Contact Tip or Plate, Cat. No.			Contact Tip or Block, Cat. No.	Contact Tip or Plate, Cat. No.	
197	1416332	1452602	178313	1348	1468908	469040	189703
198	1416332	1452602	178313	1551	3614137G1	3667572G1	2415957
222	1416332	1452602	178313	1552	3614137G1	3667572G1	2415957
223	1416332	1452602	178313	1553	3614137G1	3667572G1	2415957
227	1416332	1452602	178313	1554	3614137G1	3667572G1	2415957
228	1416332	1452602	178313	1555	3614137G1	3667572G1	2415957
336	1416332	1452602	178313	1558	3614137G1	3667572G1	2415957
337	1416332	1452602	178313	1559	3614137G1	3667572G1	2415957
1229	1416332	1452602	178313	1561	3614137G1	3667572G1	2415957
1250	1468908	469040	189703	1562	3614137G1	3667572G1	2415957
1251	1468908	469040	189703	1563	3614137G1	3667572G1	2415957
1252	1468908	469040	189703	1564	3614137G1	3667572G1	2415957
1253	1468908	469040	189703	1565	3614137G1	3667572G1	2415957
1254	1468908	469040	189703	1566	3614137G1	3667572G1	2415957
1260	1416332	1452602	178313	1567	3614137G1	3667572G1	2415957
1269	1416332	1452602	178313	1571	1416332	1452602	178313
1270	1416332	1452602	178313	1572	1416332	1452602	178313
1314	1468908	469040	189703	1573	1416332	1452602	178313
1315	1468908	469040	189703	1574	1416332	1452602	178313
1347	1468908	469040	189703	1575	1416332	1452602	178313

CONTACTS AND SPRINGS FOR CR2811 MAGNETIC SWITCHES

CR2811 Magnetic Switch, Type and Form	Stationary Contact, Cat. No.	Movable Contact, Cat. No.	Spring for Contact, Cat. No.
-C2A, -C2D, -C2E, -C2F	*4314800G2 †2242621G11	*4314800G1 †2242621G11	*2413673
-C3A, -C3D, -C3E, -C3F	*2483877 †3863725G2	*2455288 †3805658G8	*189703 †2411917
-C4A, -C4D, -C4E, -C4F	*2492908 †3667572G2	*1445307 †3667572G1	*189703 †2411917
-C5A, -C5D, -C5E, -C5F	*2457337 †3667572G2	*2457351 †3667572G1	*2411332 †2411917
-C6A, -C6D, -C6E, -C6F	*2447762 †3667572G2	*2473010 †3667572G1	*2413600 †2411917
-C21A, -C21B, -C21D, -C21E, -C21F, -C21G, -C21H, -C21J, -C21K	*5373245G1 †5373245G2 ‡5344192G1 †5344192G2	*5373245G3 †5341087G1	*2415135 †2415168 †2415302
-C21BA, -C21BB, -C21BD, -C21BE, -C21BF, -C21BG, -C21BH, -C21BJ, -C21BK	*5373245G1 †5373245G2	5373245G3	2415135
-C22A, -C22B, -C22C, -C22D, -C22E, -C22F, -C22G, -C22H, -C22J, -C22K, -C22L, -C22N, -C22P, -C22R, -C22S, -C22U, -C22V, -C22W	*5384962 †5304792G1 †5304792G2	*5384963 †5304792G3	*2415954 †2415990 †2415989
*C22BB, -C22BC, -C22BE, -C22BF, -C22BH, -C22BJ, -C22BV, -C22BW	5384962 †5304792G1 †5304792G2	5384963 †5304792G3	2415954 †2416435
*C22BD, -C22BG, -C22BU, -C22CA	5384962	5384963	2415954
*C23A, -C23B, -C23E, -C23L, -C23P, -C23S, -C23U, -C23V	5352149 †5304792G1 †5304792G2	6908543 †5304792G3	2415142 †2416436 †2416435
*C24B, -C24E, -C24L, -C24P, -C24S, -C24V	5352149 †5304792G1 †5304792G2	6908543 †5304792G3	2416432 †2416436 †2416435
*C30A, -C30B, -C30D, -C30E, -C30G, -C30H, -C30J, -C30K, -C30M, -C30N, -C30P, -C30Q	*5375160G3 †5375160G4	5303307G35	2415331

* Main.
† Interlock.
‡ Cat. No. covers a set of parts for one interlock, consisting of contact arm assembly, contacts, and screws. Individual parts of set are not furnished separately.
¶ Front.
● Rear.

§ Contact with two tips.
▲ For plunger.
◆ Contact with one tip.
† Tip on outside.
‡ Tip on inside.
□ Long.
¶ Short.

▲ For contact plate.
◆ Lower.
▼ Upper.
For prices, see page 63.
For illustrations, see pages 61 and 62.

Dust on surface of interlocks may prevent a circuit from being completed, even when the tips are in closed position.

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CR2820 Relay Parts

CONTACTS AND SPRINGS

CR2820 Relay, Type and Form	Stationary Contact		Movable Contact		Springs	
	Main, Cat. No.	Auxiliary, Cat. No.	Main, Cat. No.	Auxiliary, Cat. No.	For Main Contact, Cat. No.	For Auxiliary Contact, Cat. No.
1010-F, -H, -N, -Q, -S.....	1456941	.....	1456938	.....	223712	.....
1032-G, -H, -J, -K.....	1443051	.....	1427709	.....	2411314	.....
1043-A, -B.....	1443051	.....	1456938	.....	2411314	.....
1043-C, -E.....	1456941	.....	1456938	.....	223712	.....
1043-F.....	3805673G2	.....	3667572G1	.....	2411917	.....
1043-G, -L.....	3667516G3	.....	3667572G1	.....	2411917	.....
1054-A, -C, -E, -H, -AL, -AT, -AV, -AW, -BK, -BS, -DV, -EL, -EM, -EV, -FM, -FQ, -FT, -GM, -LQ, -LS.....	1416332 1477525	.....	1443051 1443051	.....	246116 246116	.....
1054-D, -F, -G, -J, -K, -L.....	.....	.....	.....	.....	.....	.....
1054-M.....	2840261G2	.....	2840261G1	.....	2412681	.....
1054-N.....	1416332	.....	2840261G1	.....	246116	.....
1054-P, -Q, -R, -S, -U, -V, -AE, -AJ, -AN, -BD, -BG, -BH, -BM, -BV, -CS, -DK, -DL, -HN.....	1477525	.....	2840261G1	.....	2412681	.....
1054-T, -W, -AB, -AD, -AN, -AP, -BQ, -BR.....	1477525	.....	2840261G1	.....	2412691	.....
1054-AM, -AU, -BF, -CR, -DG.....	1477525	3614137G1	2840261G1	3667572G1	2412681	2411917
1054-AQ.....	1416332	.....	1443051	.....	2412681	.....
1054-BJ, -ET, -FK, -HM.....	1416332	.....	2455288	.....	246116	.....
1054-BL.....	1477525	.....	1443051	.....	2412681	.....
1054-BT, -DJ.....	1477525	3805671G2	2840261G1	3667572G1	2412681	2411917
1054-BU, -DH.....	1477525	3614137G1	2840261G1	3667572G1	2412691	2411917
1054-CD, -CE, -CF, -CK.....	1416332	.....	2840261G1	.....	2412681	.....
1054-CG, -CH, -CJ, -CL, -EN.....	1416332	.....	2840261G1	.....	2412691	.....
1054-CM, -CP, -FW, -GP.....	1416332	3614137G1	2840261G1	3667572G1	2412681	2411917
1054-CV.....	1416332	.....	2840261G1	3667572G1	2412681	.....
1054-DM.....	1416332	3805671G2	1443051	3667572G1	246116	2411917
1054-DN.....	1416332	3614137G1	1443051	3667572G1	2412691	2411917
1054-DQ, -FR, -GK, -HJ.....	1416332	3805671G2	2840261G1	3667572G1	2412681	2411917
1054-DT, -JQ.....	1416332	3614137G1	2840261G1	3667572G1	2412691	2411917
1054-ES.....	1416332	2840220G3	2455288	2810484G3	246116	2411960
1054-GL.....	1477525	.....	2455288	.....	246116	.....
1054-JM, -JR, -JU.....	1416332	3614137G1	2455288	3667572G1	246116	2411917
1054-KL.....	2840261G2	3805671G2	2840261G1	3667572G1	2412681	2411917
1071-A, -E, -J.....	3840413G1	.....	3667572G1	.....	2411917	.....
1088-A.....	3614137G1	.....	3863767G1	.....	2413344	.....
1088-B.....	4313742G1	.....	3863767G1	.....	2413344	.....
1088-K.....	3614137G1	.....	3667572G1	.....	2410131	.....
1088-U, -V, -W, -AA, -AB.....	4379461G2	.....	4953681G4	.....	2414879	.....
1093-A, -B, -C, -G.....	1416332	.....	1443051	.....	.....	.....
1093-D, -E.....	2840261G2	.....	2840261G1	.....	.....	.....
1093-F.....	3614137G1	.....	3667572G1	.....	.....	.....
1093-K.....	1416332	.....	2840261G1	.....	.....	.....
1097-B, -C, -D, -E, -F, -J, -L, -M, -N, -P, -Q, -S, -U, -V, -AB, -AC, -AD, -AE, -BD, -BE, -BF, -BG, -BH, -BL, -BN, -BP, -BQ, -BR, -BS, -BU, -BV, -BW, -CD, -CF.....	φ4900573G2 π4900573G1 \$4900573G4 ▲4900573G3	.....	3863767G2	.....	2413966	.....
1099-E, -F, -G, -H, -J, -K, -L, -M, -P, -Q, -R, -S, -T, -U, -V, -W, -AA, -AB, -AC, -AD, -AE, -AH, -AJ, -AL, -AP, -AQ, -AR, -AT.....	3805657G1	.....	{ 3805658G8 Q4901681G1 }	.....	2411917	.....
1721-C, -D, -G.....	1416332	.....	2440977	.....	.....	.....
1721-E, -F, -K.....	3614137G1	.....	5904018G1	.....	2415129	.....
1721-H, -J.....	6910815G1	.....	6910815G1	.....	.....	.....
1729-A, -C, -E, -G, -J, -L, -P.....	3840413G2	‡3845725G3	3667572G1	‡3805658G8	2411917	‡2414612
1729-B, -D, -F, -H, -K, -M, -N.....	3840413G2	.....	3667572G1	.....	2411917	.....
1738-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -Q.....	5953842G1	.....	5377842G1	.....	2415129	.....

φ Right-hand, normally open.
π Left-hand, normally open.
‡ Normally open.
For prices, see page 63.
For illustrations, see pages 61 and 62.

‡ For cut-out switch.
§ Right-hand, normally closed.
▲ Left-hand, normally closed.
‡ Normally closed.

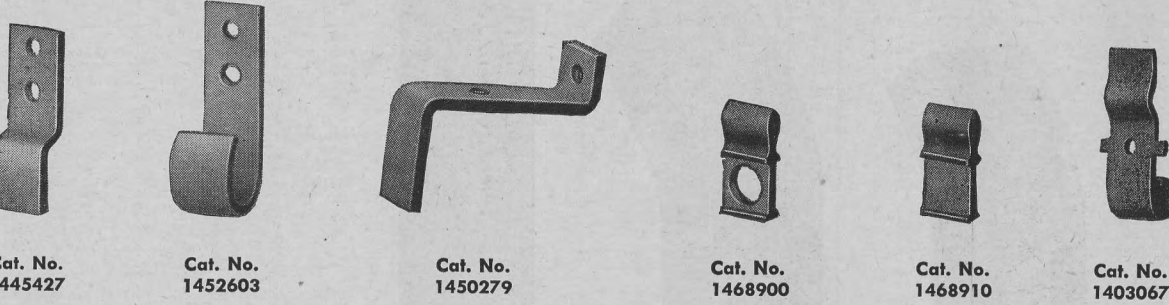
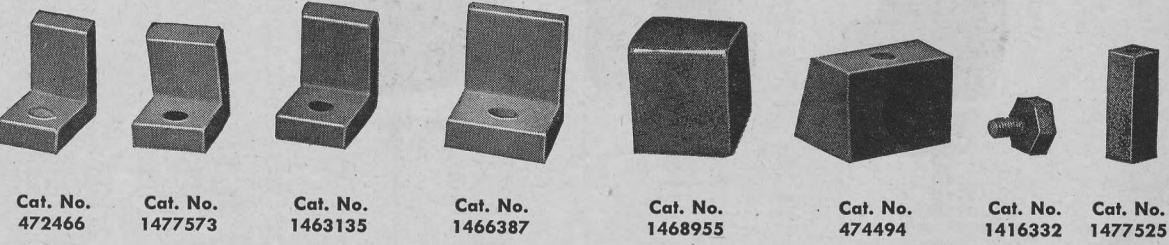
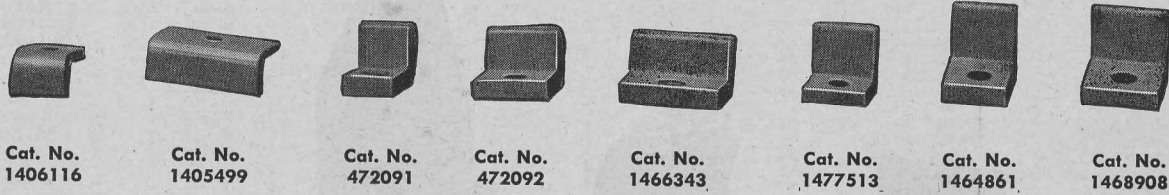
Contact springs should be replaced when they fail to maintain correct contact pressure, due to overheating and drawing of their temper.

Contact Tips

ILLUSTRATIONS OF CONTACT TIPS

For CR2800 and CR2810 Contactors,
CR2811 Magnetic Switches, and CR2820 Relays

(Illustrations are 1/2 size of tips)



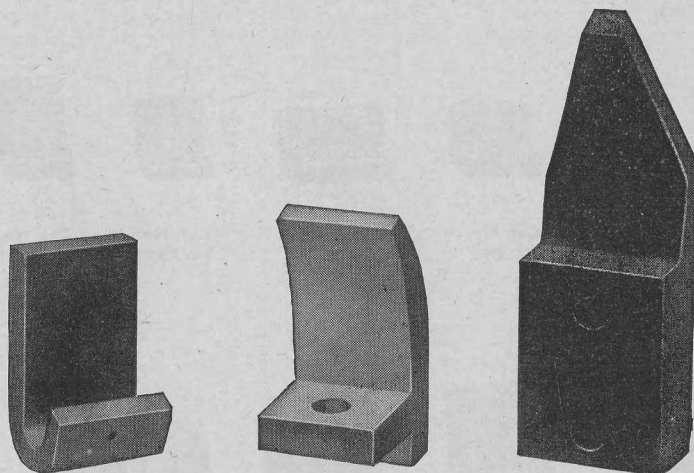
For prices, see page 63.

File or replace copper contact tips that overheat because of high contact resistance.

Contact Tips

ILLUSTRATIONS OF CONTACT TIPS

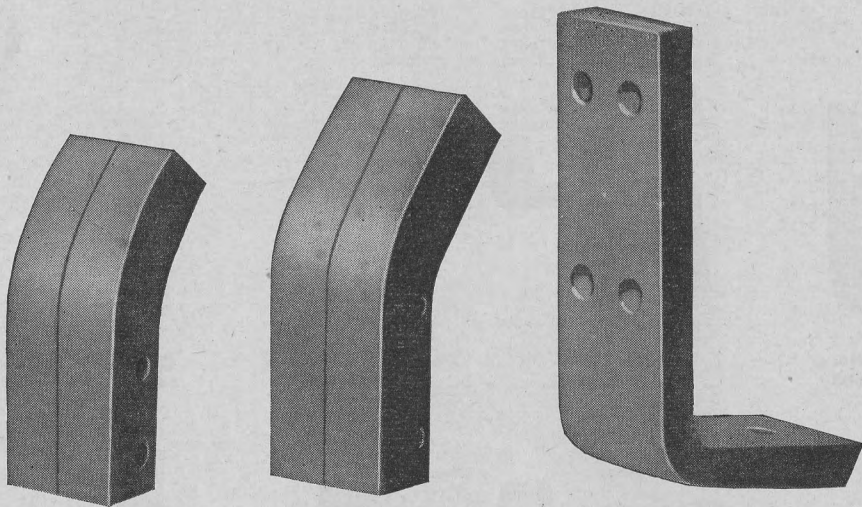
For CR2800 and CR2810 Contactors,
CR2811 Magnetic Switches, and CR2820 Relays
(Illustrations are 1/2 size of tips)



Cat. No.
435405

Cat. No.
1476440

Cat. No.
472159



Cat. No. 5X401

Cat. No. 5X400

Cat. No. 435406

For prices, see page 63.

Do not lubricate face of contactor tips.

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Prices of Contact Tips and Springs

LIST PRICES

For CR2800 and CR2810 Contactors,
CR2811 Magnetic Switches, and CR2820 Relays

Cat. No.	Part	List Price, Ea. GO-11	Cat. No.	Part	List Price, Ea. GO-11	Cat. No.	Part	List Price, Ea. GO-11
149815	Spring	\$0.36	2414864	Spring	\$2.80	3866756G1	Contact	\$11.00
178313	Spring	.15	2414865	Spring	.46	3866756G2	Contact	7.20
189703	Spring	.15	2414879	Spring	.30	4311097G1	Contact	3.50
223712	Spring	1.04	2415129	Spring	.30	4311097G2	Contact	4.50
234280	Spring	.46	2415135	Spring	.46	4313742G1	Contact	.62
235183	Spring	.30	2415137	Spring	.62	4314800G1	Contact	.78
235185	Spring	.46	2415140	Spring	.46	4314800G2	Contact	.46
235221	Spring	.94	2415142	Spring	.30	4319409G2	Contact	1.50
235704	Spring	.78	2415144	Spring	.46	4319409G3	Contact	1.50
246116	Spring	.30	2415168	Spring	.15	4371412G1	Contact	5.70
246117	Spring	.62	2415302	Spring	.15	4371412G2	Contact	2.80
248428	Spring	.78	2415303	Spring	2.40	4379461G2	Contact	1.20
435405	Tip	7.80	2415304	Spring	.62	4900573G1	Contact	.24
435406	Tip	14.00	2415331	Spring	.15	4900573G2	Contact	.24
469040	Tip	.78	2415665	Spring	.46	4900573G3	Contact	.24
472091	Tip	.46	2415671	Spring	1.30	4900573G4	Contact	.24
472092	Tip	.46	2415915	Spring	3.00	4901681G1	Contact	.30
472159	Tip	5.70	2415954	Spring	.78	4907068G1	Contact	.94
472394	Tip	1.20	2415957	Spring	.15	4953681G2	Contact	2.40
472466	Contact	.34	2415989	Spring	.04	4953681G4	Contact	2.40
474494	Tip	2.40	2415990	Spring	.06	4959800G1	Contact	.78
1403067	Tip	1.50	2416405	Spring	.08	4959841G2	Contact	2.80
1405499	Tip	.78	2416432	Spring	.20	4959854G1	Contact	6.00
1406116	Contact	.12	2416435	Spring	.15	4959854G2	Contact	9.25
1409999	Tip	1.04	2416436	Spring	.15	5151779	Contact	5.50
1416332	Tip	.30	2440977	Contact	.62	5300313	Contact	1.20
1427709	Contact	1.04	2447762	Contact	.62	5303307G1	Contact	.46
1443051	Contact	.18	2451757	Contact	1.30	5303307G35	Contact	.62
1445307	Contact	.24	2455288	Contact	.30	5304792G1	Contact	.20
1445427	Tip	.22	2456014	Contact	.62	5304792G2	Contact	.20
1449312	Contact	.46	2456061	Contact	.46	5304792G3	Contact	.20
1449392	Contact	.18	2456830	Contact	.24	5306170G1	Contact	5.30
1450279	Tip	.46	2457337	Contact	.24	5306170G2	Contact	6.20
1450282	Contact	.30	2457351	Contact	.62	5306170G3	Contact	5.50
1452602	Contact	.30	2458490	Contact	2.40	5306170G4	Contact	7.80
1452603	Tip	.18	2459875	Contact	5.50	5306170G6	Contact	2.70
1456938	Contact	.30	2460961	Contact	.30	5306170G7	Contact	4.00
1456941	Contact	.46	2473010	Contact	2.80	5308244G1	Contact	.46
1456945	Tip	.46	2482988	Contact	.26	5341087G1	Contact	.46
1457579	Contact	.24	2483877	Contact	.12	5341087G2	Contact	.30
1463135	Tip	.62	2486058	Contact	.24	5344192G1	Contact	.46
1464861	Tip	.46	2492908	Contact	.15	5344192G2	Contact	.30
1466343	Tip	.62	2810405G1	Contact	.30	5346447G4	Contact	1.90
1466387	Contact	.28	2810405G2	Contact	1.20	5346578G1	Contact	3.80
1468900	Tip	.62	2810483G3	Contact	.18	5346578G2	Contact	3.80
1468908	Contact	.24	2810484G2	Contact	.62	5349227G1	Contact	2.40
1468910	Tip	.46	2810484G3	Contact	.62	5349227G2	Contact	1.90
1468955	Tip	1.30	2810492G1	Contact	.62	5350495	Contact	1.90
1476440	Contact	1.90	2810492G2	Contact	1.90	5351643	Contact	1.50
1477513	Contact	.30	2840220G3	Contact	1.40	5352149	Contact	.94
1477525	Contact	1.20	2840224G2	Contact	.94	5352168	Contact	6.20
1477573	Contact	.34	2840224G3	Contact	.94	5352177	Contact	2.80
1490967	Tip	2.40	2840261G1	Contact	.78	5354901	Contact	.94
1493475	Contact	2.10	2840261G2	Contact	1.04	5373245G1	Contact	.46
1498492G1	Contact	1.90	2840261G7	Contact	1.20	5373245G2	Contact	.46
2228772	Contact	.30	2890113G2	Contact	1.90	5373245G3	Contact	.62
2232298	Spring	.09	2890181G1	Contact	1.30	5375160G3	Contact	.46
2242621G11	Contact set	*.78	2890181G2	Contact	1.30	5375160G4	Contact	.46
2408006	Contact	1.20	3614137G1	Tip	.62	5377842G1	Contact	.46
2410131	Spring	.46	3667516G3	Contact	2.10	5384962	Contact	.08
2410866	Spring	1.50	3667572G1	Tip	.46	5384963	Contact	.12
2410867	Spring	2.50	3667572G2	Contact	.46	5720594	Spring	.30
2411314	Spring	.20	3805657G1	Contact	.46	5904018G1	Contact	.46
2411332	Spring	.46	3805658G2	Contact	.46	5904068G1	Contact	3.10
2411348	Spring	.46	3805658G8	Contact	.30	5953842G1	Contact	.46
2411903	Spring	.94	3805671G2	Contact	.78	6905042	Contact	2.20
2411917	Spring	.15	3805673G2	Contact	1.30	6908543	Contact	.45
2411960	Spring	.30	3840413G1	Block	.62	6909496	Contact	1.20
2412681	Spring	.30	3840413G2	Contact	.78	6910815G1	Contact	2.50
2412691	Spring	.78	3840441G1	Contact	3.60	6914856G1	Contact	.94
2412914	Spring	.30	3840441G2	Contact	3.10	6914856G2	Contact	.94
2413344	Spring	.62	3841733G3	Contact	.62	6916929G1	Contact	7.70
2413371	Spring	1.20	3845725G3	Contact	.46	6965160G1	Contact	3.10
2413372	Spring	1.30	3860936P1	Contact	28.00	6965160G2	Contact	3.10
2413600	Spring	.62	3860962G2	Plate	.46	6973082G3	Contact	.30
2413673	Spring	.15	3860962G3	Plate	.62	6973082G4	Contact	.30
2413921	Spring	.94	3860990G1	Contact	3.10	8044742	Contact	6.80
2413966	Spring	.30	3860990G2	Contact	2.40	8625943G1	Contact	.30
2414326	Spring	.15	3860990G3	Contact	1.90	9034388G1	Contact	11.50
2414342	Spring	.15	3863725G2	Contact	.24	9034388G2	Contact	18.00
2414612	Spring	.15	3863767G1	Contact	.62	5X400	Tip	9.20
2414851	Spring	.30	3863767G2	Contact	.30	5X401	Tip	9.20
						39X529	Spring	.46

*Tip only.

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Cam, Drum, and Master Switches

CONTACT FINGERS AND SEGMENTS FOR CR3000 TO CR3923

Switch	Fingers		Segments		Switch	Fingers		Segments	
	Cat. No. of Finger	Quantity in Set	Cat. No. of Set			Cat. No. of Finger	Quantity in Set	Cat. No. of Set	
CR3012-3003-A, -C, -F, -J, -K, -T, -AG	* 1479663	4	2809003G1		CR3012-3619-NA, -RA, -RC, -RE	φ 3841733G1	6	‡ 3803265G1 (12)	
CR3012-3003-B, -D, -G, -L, -Q, -R	* 1479663	7	2809003G2		CR3012-3619-WIB	φ 3841733G1	7	‡ 3803265G1 (14)	
CR3012-3004-A, -B, -C, -D, -F, -Q, -R	* 1479663	12	2808103G1		CR3012-3631-L, -BA, -DB, -JL, -JR, -CAL, -CAR, -DAL, -DAR, -FAL, -FAR, -SAL, -SAR, -TAL, -TAR, -BCL, -BCR, -EBL, -EBR, -FBL, -FBR, -HBL, -HBR, -UBL, -UBR, -VBL, -VBR	φ 2280620G13 ▲ 2280620G14	12 1	‡ 2280620G9 (24) § 2280620G15 (2)	
CR3012-3612-B, -F, -H, -L, -U	3841733G1	14	‡ 3803265G1 (28)		CR3012-3631-KL, -KR, -SL	▲ 2280620G13 ▲ 2280620G14	9 1	‡ 2280620G9 (18) § 2280620G15 (2)	
CR3012-3612-C, -K	3841733G1	16	‡ 3803265G1 (32)		CR3012-3631-VAL, -VAR	▲ 2280620G13 ▲ 2280620G14	12 1	‡ 2280620G9 (18) § 2280620G15 (2)	
CR3012-3612-G, -W	3841733G1	8	‡ 3803265G1 (16)		CR3012-3645-AA, -AB, -BB, -CB	▲ 3841733G1	6	‡ 3803265G1 (12)	
CR3012-3612-J, -Q	3841733G1	9	‡ 3803265G1 (18)		CR3100-2002-A, -B, -C, -G, -H, -M, -N, -S	* 2236930	12	2646119G1	
CR3012-3612-M, -N, -P, -S, -AB	3841733G1	12	‡ 3803265G1 (24)		CR3100-2002-L, -P, -Q	* 2236930	11	2804417G1	
CR3012-3612-R	3841733G1	20	‡ 3803265G1 (40)		CR3100-2003-A, -B, -E, -F, -K, -N	* 2443842	14	2649326G1	
CR3012-3612-T	3841733G1	18	‡ 3803265G1 (36)		CR3100-2004-A, -B, -D, -E, -F, -G, -H, -L	* 2236930	28	2875044G1	
CR3012-3612-V	3841733G1	11	‡ 3803265G1 (22)		CR3100-2007-A, -B, -C, -D, -J	* 2443842	12	2234732G1	
CR3012-3612-AA	3841733G1	10	‡ 3803265G1 (20)		CR3100-2007-H, -L, -N, -P, -Q	* 2443842	12		
CR3012-3614-AA, -AB, -AD, -AE, -AF, -AH, -AJ, -AK, -AL, -AM, -DIA, -R3A, -T3A, -W5A	3841733G1	4	‡ 3803265G1 (8)		CR3100-2009-B, -C	* 2236930	12		
CR3012-3614-BA, -CA, -DA, -EA, -FA, -HA, -JA, -MA, -NA, -RA, -TA, -UA, -VA, -WA, -BB, -BC, -BD, -BE, -BF, -BG, -BH, -BJ, -BM, -BP, -FB, -WB, -WC, -A1A, -B1A, -C1A, -K2A, -N3A, -S3A, -A5B, -F5A, -F5B, -F5C, -F5D, -F5E, -F5F, -F5G, -L5B, -R5A, -D6A	3841733G1	6	‡ 3803265G1 (12)		CR3108-2701-C, -E, -AP, -AQ, -AS, -AU	* 1445307	9	‡ 2236372 (9)	
CR3012-3614-GA, -KA, -SA, -W2B, -B4A, -C4A	3841733G1	5	‡ 3803265G1 (10)		CR3108-2701-G, -H, -AM, -AN, -AR, -AT	* 1445307	10	‡ 2236372 (10)	
CR3012-3614-PF, QA	3841733G1	3	‡ 3803265G1 (6)		CR3108-2702-B, -D, -E, -F, -G, -H, -N, -P, -R, -S, -W, -AD, -AF, -AH	* 1466032	10	‡ 1466032 (10)	
CR3012-3616-AA, -AB, -AD, -AE, -HA, -PA, -QA, -RA, -VA, -U1A, -F2A, -G2A, -G2B, -M2A, -R2A, -R2B, -R2C, -N3A, -P4A, -A5F, -A5G	3814733G1	11	‡ 3803265G1 (22)		CR3108-2703-B, -D, -K, -M, -Q, -V	* 1466387	11	‡ 1466387 (11)	
CR3012-3616-AF, -FA, -FB, -GA, -LA, -LB, -MA, -TA, -VA, -VC, -B1A, -C1A, -N1A, -N1C, -T1A, -W1A, -A2D, -H2A, -L2A, -N2A, -Q2A, -S2A, -S2B, -S2C, -T2A, -T2B, -D3A, -F3A, -F3B, -G3A, -M3A, -R3A, -U3A, -V3A, -B4A, -C4A, -D4A, -H4A, -J4A, -R4A, -V4A, -A5A, -A5E, -E5A, -E5F, -G5A, -H5A, -L5A, -A6A	3814733G1	12	‡ 3803265G1 (24)		CR3108-2703-F, -G, -L, -N, -S, -W	* 1466387	9	‡ 1466387 (9)	
CR3012-3616-BA, -A1A, -E1A, -F1A, -M1A, -A2E, -U2A, -V2A, -V2B, -P3A, -Q5A, -R5A, -S5A, -T5A, -B6B	3814733G1	10	‡ 3803265G1 (20)		CR3108-2704-A, -C, -E, -F, -G, -J, -K, -L, -M, -Q, -S, -U, -W	* 1466387	13	‡ 1466387 (13)	
CR3012-3616-CA, -DA, -EA, -JA, -KA, -NA, -QA, -Q1A, -Q1B, -J2A, -W2A, -Q3A, -U5A	3814733G1	9	‡ 3803265G1 (18)		CR3110-2500-A, -B, -C, -D	* 2236930	10	2809027G1	
CR3012-3616-D1A, -D1B, -B3A	3814733G1	7	‡ 3803265G1 (14)		CR3110-2501-A, -B, -C, -D, -F, -H	* 2236930	13	2802999G1	
CR3012-3616-G1A, -V1A	3814733G1	8	‡ 3803265G1 (16)		CR3110-2502-A, -B, -C, -E, -G	* 2443842	15	2804416G1	
CR3012-3616-V3B	2280620G8	12	‡ 2280629G9 (24)		CR3110-2503-A, -B, -C, -D, -E	* 2443842	24		
CR3012-3616-U4A	3814733G1	11	‡ 2280629G9 (22)		CR3118-2600-B, -D	* 2236930	3	‡ 2236372 (11)	
CR3012-3617-AA, -AB, -AD, -AF, -AG, -CA, -CB, -GA	3841733G1	10	‡ 3803265G1 (20)		CR3118-2602-B, -D, -F, -G, -H, -J, -L	* 1445307	11	‡ 2236372 (11)	
CR3012-3617-BA, -DA, -FA	3841733G1	8	‡ 3803265G1 (16)		CR3118-2603-A, -C, -E, -F, -G, -J	* 1466387	13	‡ 1466387 (13)	
CR3012-3617-EA	3841733G1	11	‡ 3803265G1 (22)		CR3200-1621-A, -B	* 1445307	12	‡ 1466387 (14)	
CR3012-3617-HA, -BB	3841733G1	12	‡ 3803265G1 (24)		CR3200-1300-A, -B, -C, -G, -H, -J, -L, -M, -P, -Q, -R, -T, -U, -V, -W, -AD, -AE, -AJ	* 2236930	17	2646132G1	
CR3012-3619-AA, -BA, -CA, -DA, -EA, -FA, -GA, -HA, -JA, -KA, -MA, -PA, -CB, -EB, -GB, -GC, -DF, -DJ, -DK, -PID, -P2G, -P2J, -W4A, -W4B, -W4C	3841733G1	8	‡ 3803265G1 (16)		CR3202-1301-A, -B	* 2443842	16	2647818G1	
CR3012-3619-LA	3841733G1	4	‡ 3803265G1 (8)		CR3202-1301-E, -F, -G, -H	* 2443842	16	2219135G1	

* Tip only.
 φ Movable contact with tips.
 ▲ Movable contact plate for cutout switch.
 For illustrations, see pages 67 and 68.
 For prices, see page 69.

§ Stationary contact for cutout switch.
 ‡ Catalog number covers one stationary contact tip. Number in parentheses indicates quantity per set.



Cam, Drum, and Master Switches

CONTACT FINGERS AND SEGMENTS FOR CR3000 TO CR3923

Switch	Fingers		Segments		Switch	Fingers		Segments	
	Cat. No. of Finger	Quantity in Set	Cat. No. of Set			Cat. No. of Finger	Quantity in Set	Cat. No. of Set	
CR3202-1405-M, -Q	*2443842	38	2219082G6		CR3910-2403-C, -D, -F, -G	*1479663	18	2224179G1	
CR3204-1500-A, -B, -C, -D, -G, -H, -J, -K	*2236930	6	2801699G1		CR3910-2403-H, -L, -M, -S, -U	*1479663	18	2224179G2	
CR3204-1500-M	*2443842	11	2801699G1		CR3910-2403-Q, -R, -T, -V	*1479663	18	2234556G1	
	*2236930	4			B-111-A, -B, -C, -D, -E, -F, -G	171595	14		
CR3204-1501-A, -B, -G, -N	*2236930	4	2647852G1		B-112-A	2210800G5	24		
CR3204-1501-C, -D, -E, -F, -K, -L, -V, -W, -AB, -AD, -AE, -AF, -AH	*2443842	26	2647852G1		B-112-B, -D, -E	198566	4		
CR3204-1501-J, -P, -Q, -AN, -AQ, -AV, -AW, -BB, -BD, -BG, -BJ, -BM, -BV, -CB, -CD, -CE, -CK, -CL	*2236930	11			B-113-A	2210800G5	24		
	*2443842	26			B-113-B	198566	4		
CR3204-1501-R, -S, -T, -U, -AJ, -AK, -AM, -BA	*2236930	11	2210999G1		B-113-D, -E, -F, -H, -J, -L, -M, -N, -P, -Q, -R, -S, -T, -U, -W	*469252 *469252 2210800G4 †194998	13 13 13 2	1606633G1	
CR3204-1501-AR, -AS, -AT, -AU, -BC, -BF, -BH, -BL, -BN, -BP, -BQ, -BR, -BS, -BT, -BW, -CA, -CC, -CG	*2236930	4			B-113-G, -V, -AB, -AD	2210800G4	13	1606633G3	
CR3204-1501-8E, -CF, -CH	*2443842	26			B-114-A	†194998	2		
CR3204-1503-A, -B, -R, -AG, -AR	*2236930	6	2649305G1		B-114-B, -D, -F, -K, -M, -N, -Q, -R, -S, -T	*469255 2210800G5 †189268	15 15 2	1158696G1	
CR3204-1503-C, -D, -E, -F, -J, -M, -N, -P, -Q, -S, -T, -V, -AD, -AF	*2443842	39			B-114-E	2210800G5	14		
CR3204-1503-K, -L	*2236930	39	2808163G1		B-114-H, -J, -U	†189268	2		
CR3204-1503-AB, -AH, -AJ, -AM, -AN, -AP, -AQ	*2443842	34			B-114-I, -J, -U	2210800G5	13	219816	
CR3204-1505-B, -C, -E, -F	*2236930	10			B-116-A, -B, -D, -E, -H, -J, -L	†189268 †1460935	2 12	1657188G1	
CR3204-1506-A, -B, -C, -D, -K	*2443842	31			B-116-C, -F, -G, -K	*1460935	12	1657188G2	
CR3204-1506-E, -G, -H, -M	*2236930	62			C-414-A, -B, -L, -T, -AF	*2215625	10	2169887G1	
CR3204-1506-F, -L	*2443842	62			C-414-C, -F, -G, -H, -J, -M, -Q, -S, -AD, -AK, -AL	*2215625	10		
CR3204-1506-T, -W, -AH	*2236930	62			C-414-N, -U, -AB	*2215625	11		
CR-3204-1506-U, -V, -AA, -AB, -AD, -AE	*2236930	11			EG-1-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P, -Q	198068	6		
CR3204-1507-A, -C	*2443842	15	2219135G2		ESC-5-A, -B, -C, -D, -E, -F	1459966	16		
CR3204-1514-B, -C	*2215625	15	2234877G2		ESC-6A, -6B	1459966	5		
CR3204-1620-A, -C	*1445307	12	‡2236372 (12)		ESC-6C, -6H	1459966	7		
CR3206-1001-A, -B	*1479663	17			R-27-A, -B, -C, -D, -G, -M, -N, -P	171595	14	39485	
CR3206-1001-C, -E	*1479663	10			R-28-A, -C, -G, -H, -L, -P, -Q, -S, -T, -V	1492678	11	39486	
CR3206-1002-A	*1479663	19			R-28-B, -E, -F, -N	1492678	11	39488	
CR3206-1101-A, -B	*1479663	18			R-28-B, -J, -K	1492678	11		
CR3206-1102-A	*1479663	20			R-98-A, -D	198592	7		
CR3208-1600-B, -C, -D, -E, -F	*1466387	15	‡1466387 (15)		R-98-F, -N	61880	24		
CR3208-1600-G, -H	*1466387	15	‡1466387 (9)		R-115-A, -C, -G	198592	7	105333	
CR3208-1601-A	*1466387	16	‡1466387 (16)		R-115-E	61880	24		
CR3208-1601-B	*1466387	15	‡1466387 (14)		R-115-B, -H	2215731	32	821032G1	
CR3208-1602-A	*1466387	15	‡1466387 (15)		R-115-D, -F, -S	2215731	30		
CR3208-1602-B	*1466387	15	‡1466387 (13)		R-115-L, -P, -T	2215731	32	1683954G1	
CR3208-1604-A	*1466387	16	‡1466387 (16)		R-115-M	2215731	32		
CR3208-1604-B	*1466387	15	‡1466387 (15)		R-115-U	2215731	30		
CR3208-1604-C	*1466387	14	‡1466387 (14)		R-115-N	2215731	32		
CR3208-1607-A, -B, -C, -D, -E, -F, -G, -H, -L, -M, -N, -P, -Q	*1476440	24	‡1476440 (24)		R-122-A, -C, -G, -H, -K, -L	235713	9	121569	
CR3208-1612-A, -B, -C, -E, -G	*1476440	36	‡1476440 (36)		R-122-P, -Q, -R	235713	9	157362	
CR3910-2400-A, -B, -D, -E, -F, -G, -H, -J, -M	*1479663	25			R-126-A, -B, -H, -J	125256	20	105427	
CR3910-2400-K, -L	*1479663	22			R-156-A, -B, -D, -E, -J, -K, -P, -Q, -S, -T	125257	6		
CR3910-2402-A, -B, -C	*1479663	14	2210920G1		R-156-F, -G, -H, -M, -N	171595	14	142827	
CR3910-2402-D, -E, -F, -G, -H, -J	*1479663	14	2210920G3		R-164-A, -B, -C, -G, -H, -L, -R, -T, -AD, -AE, -AG	171595	14	142827	
CR3910-2403-A, -B, -J, -K	*1479663	18			R-164-D, -E, -F, -J, -N, -P, -Q, -V, -AB, -AF, -AH, -AJ, -AL	61880	18	195490	

* Tip only.
 ‡ For blowout coil.
 For prices, see page 69.
 For illustrations, see pages 67 and 68.

‡ Catalog number covers one stationary contact tip. Number in parentheses indicates quantity per set.



Cam, Drum, and Master Switches

CONTACT FINGERS AND SEGMENTS FOR CR3000 TO CR3923

Switch	Fingers		Segments	Switch	Fingers		Segments
	Cat. No. of Finger	Quantity in Set			Cat. No. of Finger	Quantity in Set	
R-302-A	205498	17		T-52-L, -S, -W, -AL, -AN	2215731	28	1689560G1
R-302-B, -C	205498	17		T-54-A, -H, -J, -K	68999	18	
R-307-A, -B, -F, -G, -H, -J, -K	1468973	10	1868811G1	T-62-A	1492678	56	
R-715-A, -D, -G, -K, -L, -M	2215731	32	1683954G1	T-73-A, -B, -F, -K, -M	198593	16	
R-715-B, -C, -F	2215731	30		T-73-D, -G, -H, -J, -L	198593	18	
R-715-E, -H, -J	2215731	32		T-80-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M	198068	6	
R-728-A, -D, -E, -G, -H, -Q, -V, -W, -AF, -AG, -AM, -AP, -AS	1492678	11	39486	T-84-A, -B, -C, -D	198593	10	
R-728-B, -C, -F, -J, -K, -L, -M, -N, -P, -R, -S, -T, -U, -AB, -AD, -AE, -AH, -AJ, -AK, -AL, -AN, -AQ, -AR, -AT, -AU, -AV	1492678	11		T-85-A, -B, -D, -E, -J, -L, -R	2210062G6	13	189901
RD-80-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M	198068	6		T-85-C	2210062G6	12	
RD-417-A, -B, -C, -D, -E	1468973	6		T-85-G, -H	2210062G6	13	
RD-418-A, -B	1468973	6		T-94-A, -B, -K, -L, -P, -R	171595	18	173577
RD-419-A, -B	1468973	8		T-94-C, -Q	171595	18	173579
RD-422-A, -B, -C, -D	1468973	4	1617810G3	T-94-D	171595	17	220899
RD-430-A, -H, -L, -M, -N, -P	1468973	10		T-94-E, -H, -W	171595	18	
RD-430-B, -C, -E, -G, -J, -K, -Q	1468973	8		T-96-A, -B, -C, -D	68999	20	
RD-430-D, -F	1468973	9		T-101-A, -B, -C, -D, -E, -F, -G, -K, -M, -N, -Q, -R, -S, -T	1492678	12	121079
RD-430-R	1468973	6		T-108-A, -B	196367	26	
RD-4001-A, -B, -C	2219713	4		T-108-C, -D, -K, -N	196367	26	195514
RD-4004-A, -B, -C, -D	2219713	6			196504	2	
RD-4006-A, -B, -C	1468973	6		T-108-H	196367	26	195514
RD-4007-A, -B, -C, -F	1468973	8		T-110-B, -C	196504	3	
RD-4007-D, -H	1468973	10		T-116-A, -B, -C	171595	15	
RD-4008-A, -B	1468973	8			125256	16	
RD-4009-A, -B, -C, -D, -E	1468973	8			125257	8	
RD-4010-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P, -Q, -R, -S	198068	6		T-129-A, -B, -C, -D, -E, -F, -G, -L, -M, -N, -P	2210800G5	11	195520
T-1-A, -C, -D, -F, -G, -H, -J, -K, -L, -N, -P, -Q, -R, -S, -U, -V, -W	1492678	12	121079		1477185	2	
T-1-M, -T	1492678	12		T-129-K	2210800G5	11	
T-10-A, -C, -D, -G, -J, -P, -Q, -R, -U, -V, -W	171595	15	1881196G1	T-133-A	* 469252	17	
T-10-N, -T	171595	15		T-133-B, -F, -G, -H, -J, -M, -AL	* 469252	17	1683921G2
T-29-A, -B, -C, -D, -E, -F, -H, -M, -N, -P, -Q, -R	171595	56	88626	T-133-AF	* 469252	19	
T-34-A, -C, -E, -G, -H, -K, -L, -S, -U	1492678	14	121080	T-133-C, -L, -N, -P, -Q, -R, -V, -AG, -AJ	* 469252	19	1836092G1
T-34-J, -M, -N, -Q, -T, -V, -W	1492678	14		T-134-A, -B, -C, -D, -F, -G, -J, -M, -N, -P, -W	1492678	14	
T-42-A, -F	1492678	58		T-134-H	1492678	15	
T-42-C, -G	1492678	54		T-134-K, -L, -S	1492678	14	121080
T-42-D, -E, -K, -M, -N	1492678	54	105702	T-134-T	1492678	14	210099
T-42-P, -R6, -S, -T, -U	1492678	54		T-157-A, -E, -G, -L	* 469252	21	1836069G1
T-42-Q	1493678	51	195502	T-157-B, -C, -D, -H, -J, -K	* 469252	21	1995577G1
T-46-A, -B, -C, -D, -E, -J, -K, -M, -N, -P, -Q, -R, -T, -V, -W	68999	18		T-708-B, -D, -F, -H, -J, -K, -L, -P, -Q, -R, -AE, -AG	196367	26	195514
T-46-G, -U	68999	11		T-734-A, -H	196504	9	
T-46-H, -L, -S	68999	16		T-734-B, -E	1492678	14	121080
T-52-A, -C, -D, -J, -N, -Q, -AM	2215731	28		T-734-D, -G, -R	1492678	14	219184
T-52-B	2215731	26		T-742-A	1492678	54	210099
T-52-G, -K, -P, -R, -AD, -AE, -AF, -AG, -AH, -AK	2215731	26	210210	T-742-B, -C, -E, -F, -G, -K, -L	1492678	54	195502
				T-742-H	1492678	47	
				T-742-J	1492678	44	
				T-794-C, -N, -Q	171595	18	
				T-794-E, -L, -P	171595	18	173577
				T-794-F, -G, -K, -M	171595	17	173579
				T-794-H, -J	171595	18	220899

* Tip only.
For illustrations, see pages 67 and 68.
For prices, see page 69.



Contact Fingers and Tips

IDENTIFYING ILLUSTRATIONS

CR3000 to CR3923 Cam, Drum, and Master Switches

CONTACT FINGERS AND TIPS MOST FREQUENTLY USED

(Illustrations are approximately 1/2 actual size)



Cat. No. 198566



Cat. No. 198592



Cat. No. 171595



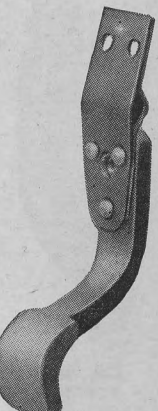
Cat. No. 196367



Cat. No. 2215731



Cat. No. 198593



Cat. No. 198068



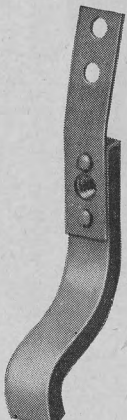
Cat. No. 296184



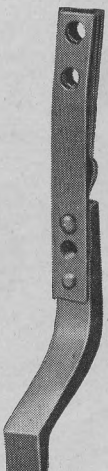
Cat. No. 5X188



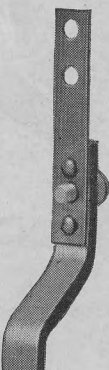
Cat. No. 280055



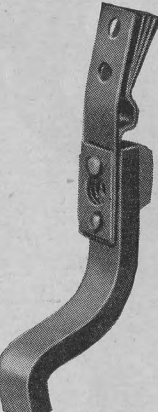
Cat. No. 68999



Cat. No. 61880



Cat. No. 235713

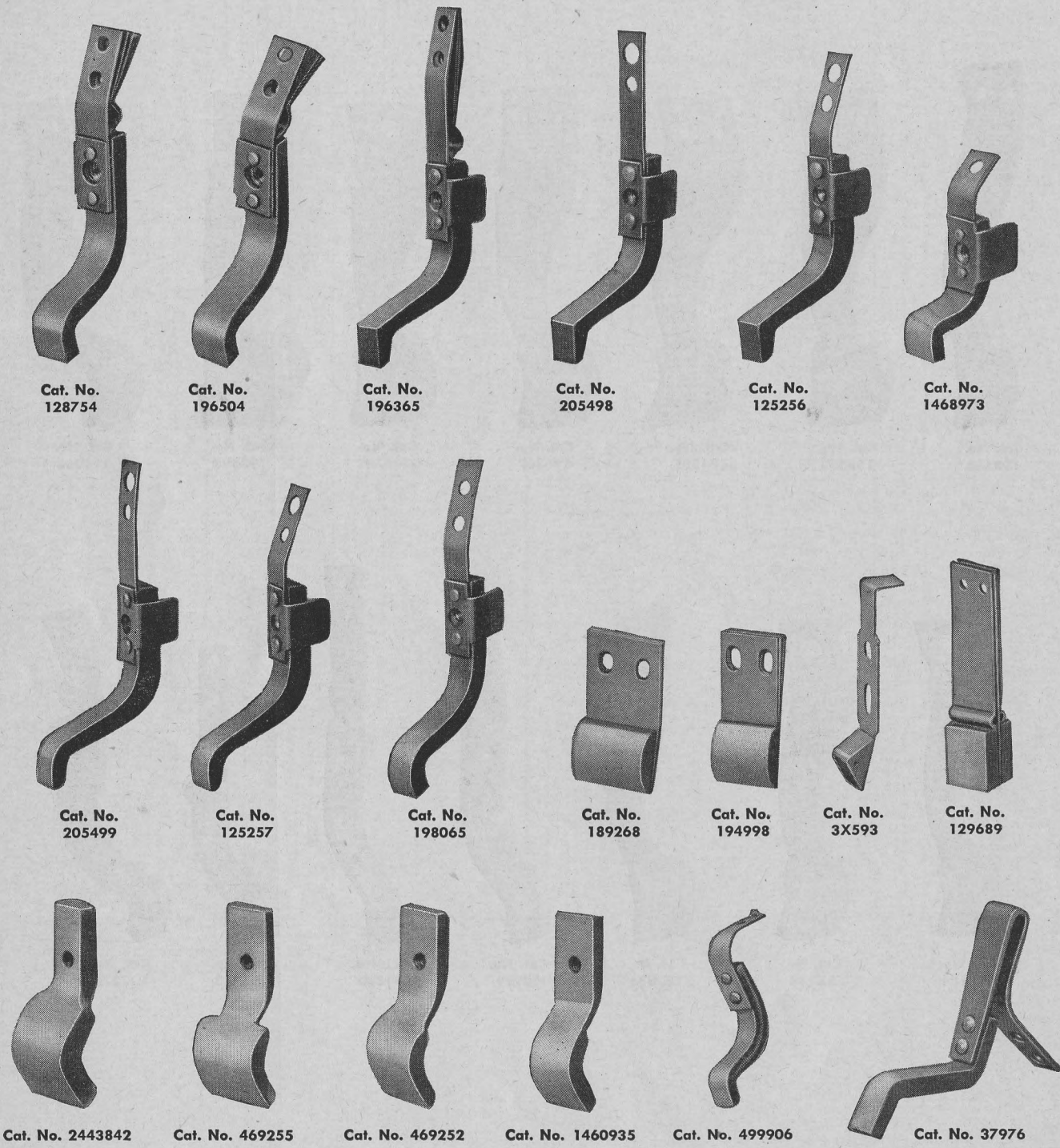


Cat. No. 217278

For prices, see page 69.

Contact Fingers and Tips

IDENTIFYING ILLUSTRATIONS
CR3000 to CR3923 Cam, Drum, and Master Switches
Contact Fingers and Tips Most Frequently Used
(Illustrations are approximately 1/2 actual size)



For prices, see page 69.

Prices of Contact Fingers, Tips and Segments

LIST PRICES—CONTACT FINGERS, TIPS, AND SETS OF SEGMENTS
FOR CAM, DRUM, AND MASTER SWITCHES
CR3000 to CR3923

Cat. No.	Part	List Price, Ea. GO-11	Cat. No.	Part	List Price, Ea. GO-11	Cat. No.	Part	List Price, Ea. GO-11
37976	Finger	\$1.30	219816	Set Segments	\$20.00	2219082G1	Set Segments	\$42.00
39485	Set Segments	11.50	220899		20.00	2219082G2		52.00
39486		8.25	234856		5.40	2219082G6		47.00
39488		9.60	235713	.94	2219135G1	25.00		
61880	Finger	.78	280055	Finger	.94	2219135G2		25.00
68999		.94	296184		1.20	2219136G1		31.00
88626		29.00	469252	Tip	.46	2219713	Finger	.46
105333		24.00	469255		.78	2224121G1		24.00
105427		6.80	499906	Finger	.46	2224179G1		22.00
105702	Set Segments	51.00	821032G1	Set Segments	39.00	2224179G2	Set Segments	19.50
121079		15.00	878259G1		20.00	2234556G1		23.00
121080		22.00	1158696G1		26.00	2234732G1		22.00
121569	7.40	1445307	Tip	.24	2234877G2	8.80		
123339	9.60	1459966	Finger	.16	2234885G1	29.00		
125256		.94	1460935	Tip	.62	2234916G1		52.00
125257	Finger	1.04	1466032	Tip	.50	2236372	Finger	.30
128754		1.20	1466387	Tip	.28	2236930	Tip	.30
142827	Set Segments	23.00	1468973	Finger	.62	2280620G8	Contact	1.20
157362		6.80	1476440	Tip	1.90	2280620G9	Contact	.30
159385		Finger	.78	1477185	Finger	1.04	2280620G13	Contact	.46
171595		.50	1479663	Tip	.62	2280620G14	Contact	.46
173577	Set Segments	24.00	1492678	Finger	.45	2280620G15	Contact	.46
173579		22.00	1606633G1		19.00	2443842	Tip	.70
189268	Finger	1.50	1606633G3	Set Segments	16.00	2646119G1	Set Segments	14.50
189901	Set Segments	11.50	1657188G1		15.00	2646132G1		22.00
194998	Finger	.78	1657188G2		12.50	2647818G1		24.00
195471	Set Segments	6.80	1677708G1		15.00	2647852G1		11.50
195490		12.50	1683921G2		11.50	2649305G1		29.00
195502		58.00	1683954G1		40.00	2649326G1		31.00
195514		12.50	1689560G1		22.00	2801682G1		32.00
195520	Set Segments	6.80	1836069G1		11.50	2801683G1		25.00
196365	Finger	1.04	1836092G1		9.60	2801699G1		6.80
196367		.94	1868811G1		5.50	2802999G1		20.00
196504		1.04	1881196G1		20.00	2804416G1	25.00	
198065		1.04	1977610G3		Set Contacts	5.70	2804417G1	24.00
198068		.78	1995577G1	Set Segments	11.00	2808103G1	15.00	
198566		.78	2169887G1	12.00	2808163G1	22.00		
198592		1.04	2210062G6	Finger	.78	2809003G1	2.20	
198593		1.50	2210800G4		.50	2809003G2	4.00	
205498		.78	2210800G5		.50	2809027G1	11.00	
205499		.94	2210800G11		.62	2875044G1	24.00	
210099	Set Segments	15.00	2210920G1	Set Segments	20.00	3803265G1	Contact	.30
210210		19.00	2210920G3		20.00	3841733G1	Plate	.78
217278	Finger	1.30	2210999G1		9.60	3X593	Finger	.62
			2215625	Tip	.62	5X188		1.20
			2215731	Finger	.50			



Magnetic Switches

SETS OF CONTACT PARTS FOR CR7006, CR7008 AND CR7009

Type of Magnetic Switch	Cat. No. of Set†	Type of Magnetic Switch	Cat. No. of Set†
CR7006-B1A, -B1B, -B1AA, -B1BA	2282859G13	CR7006-D52A, -D52B, -D52D, -D52E, -D52G, -D52H, -D52K, -D52L, -D52N, -D52P, -D52R, -D52S, -D52U, -D52V, -D52AA, -D52AB, -D52AK, -D52AM, -D52BG, -D52BH, -D52CA, -D52CB, -D52CD, -D52CE, -D52CG, -D52CH, -D52CK, -D52CL, -D52CN, -D52CP, -D52CR, -D52CS, -D52CU, -D52CV	6960043G25
CR7006-B2A	2282859G14	CR7006-D52G, -D52H, -D52J, -D52M, -D52Q, -D52T, -D52W, -D52AC, -D52CC, -D52CF, -D52CJ, -D52CW	6960043G26
CR7006-B2B	2242621G22	CR7006-D53B, -D53E, -D53L, -D53P, -D53S, -D53Z	2242621G80
CR7006-B2C	2242621G42	CR7006-D54B, -D54E, -D54L, -D54P, -D54S, -D54Z	2242621G80
CR7006-B3A	2242621G22		
CR7006-B3B	2242621G41		
CR7006-B3C	2242621G42		
CR7006-B51A	2242621G22		
CR7006-B52A	2242621G41		
CR7006-B53A	2242621G42		
CR7006-D3	2242621G21		
CR7006-D4, 3-phase or 2-phase, 3-wire	2242621G29		
CR7006-D4, 2-phase, 4-wire	2242621G30		
CR7006-D5	2242621G21		
CR7006-D7	2242621G21		
CR7006-D7A, -D7B, -D7C, -D7K, -D7P, -D7T, -D7AR, -D7BP, -D7CU, -D7EA	2282859G16		
CR7006-D7CA	2282864G2		
CR7006-D7E, -D7CQ, -D7DC, -D7DD	2242621G20		
CR7006-D7F, -D7J, -D7R	2282864G1		
CR7006-D8	2242621G21		
CR7006-D13	2242621G30		
CR7006-D14	2242621G21		
CR7006-D16	2242621G21		
CR7006-D16B	2242621G52		
CR7006-D26, -D26A, 3-pole	2242621G23		
CR7006-D26A, 4-pole	2242621G24		
CR7006-D26B, -D26D, -D26F, -D26G	2242621G25		
CR7006-D26E, -D26H	2242621G26		
CR7006-D30, -D30J	2242621G18		
CR7006-D30A	2242621G19		
CR7006-D30B, -D30D, -D30E, -D30G, -D30K, -D30M, -D30AA, -D30AG, -D30AH, -D30AV, -D30BF, -D30BV, -D30CV, -D30DO, -D30FH, -D30FJ, -D30FK	2282859G14		
CR7006-D30F, -D30BM, -D30DG	2242621G17		
CR7006-D31, -D31C, -D31H, -D31AE, -D31BF	2242621G20		
CR7006-D31B, -D31E, -D31K, -D31C	2242621G52		
CR7006-D40, -D40A, -D40B, -D40C, -D40D, -D40H, -D40J, -D40K, -D40L, -D40M, -D40N, -D40S, -D40T, -D40V, -D40AB, -D40AF, -D40AH, -D40AJ, -D40AK, -D40AL, -D40AR, -D40BA, -D40BF, -D40CN, -D40GH, -D40HK, -D40KL, -D40KM, -D40KN	2282859G13		
CR7006-D40E, -D40F, -D40AM, -D40DD, -D40GV	2242621G16		
CR7006-D40G, -D40P, -D40R, -D40W, -D40AN, -D40AP, -D40AT, -D40DA, -D40DE	2242621G15		
CR7006-D50A, -D50D, -D50G, -D50K, -D50N, -D50R, -D50U	6960043G18		
CR7006-D50B, -D50E, -D50H, -D50L, -D50P, -D50S, -D50V	6960043G19		
CR7006-D50C, -D50F, -D50J, -D50M, -D50Q, -D50T, -D50W	6960043G20		
CR7006-D51A, -D51D, -D51U, -D51CA, -D51CD, -D51CU, -D51GG	6960043G21		
CR7006-D51B, -D51E, -D51V, -D51CB, -D51CE, -D51CG, -D51CH, -D51CV, -D51GA, -D51GD, -D51GH, -D51GK, -D51GN, -D51GR, -D51GU	6960043G22		
CR7006-D51C, -D51F, -D51W, -D51CC, -D51CF, -D51CW, -D51GB, -D51GE, -D51GJ, -D51GL, -D51GP, -D51GS, -D51GV	6960043G23		
CR7006-D51CJ, -D51GC, -D51GF, -D51GM, -D51GQ, -D51GT, -D51GW	6960043G24		

* For front panel.

φ For rear panel.

□ For front contactor.

§ For rear contactor (not used on Forms V21A or V22B).

† See pages 71 and 72.

△ Two required.

LIST PRICES

Cat. No.	List Price per Set GO-11	Cat. No.	List Price per Set GO-11	Cat. No.	List Price per Set GO-11	Cat. No.	List Price per Set GO-11
2242621G15	\$3.60	2242621G28	\$2.70	2242621G42	\$5.70	6960043G8	\$10.00
2242621G16	7.20	2242621G29	1.80	2242621G52	4.10	6960043G18	4.90
2242621G17	2.70	2242621G30	2.30	2242621G61	1.70	6960043G19	6.40
2242621G18	2.30	2242621G31	3.50	2242621G62	7.20	6960043G20	8.20
2242621G19	1.80	2242621G32	4.10	2242621G73	4.00	6960043G21	3.80
2242621G20	4.10	2242621G33	6.20	2242621G80	5.25	6960043G22	5.70
2242621G21	1.80	2242621G34	6.20	2282859G13	5.40	6960043G23	7.40
2242621G22	4.10	2242621G35	4.80	2282859G14	2.10	6960043G24	9.40
2242621G23	3.00	2242621G37	14.50	2282859G15	4.00	6960043G25	2.90
2242621G24	3.90	2242621G38	8.60	2282859G16	1.80	6960043G26	3.40
2242621G25	3.00	2242621G39	11.00	2282864G1	8.60	6960044G60	7.50
2242621G26	3.90	2242621G40	6.40	2282864G2	2.70	6960044G61	10.00
2242621G27	1.80	2242621G41	4.10	2282867G1	23.00	6960044G62	12.50



Magnetic Switches

DESCRIPTION OF SETS FOR CR7006, CR7008 AND CR7009

Cat. No. of Set *	Cat. No.	Quantity	Part	Cat. No. of Set *	Cat. No.	Quantity	Part
2242621G15	133452	4	Screw	2242621G27	154191	3	Washer
	154191	4	Washer		154194	3	Washer
	2413673	2	Spring		175561	3	Screw
	4314800G1	2	Plate		189703	3	Spring
	4314800G2	4	Plate		1445307	3	Tip
	133452	8	Screw		1445427	3	Tip
	154191	8	Washer		48X49	3	Screw
2242621G16	2413673	4	Spring		154191	4	Washer
	4318000G1	4	Plate		154194	4	Washer
	4314800G2	8	Plate		175561	4	Screw
	139003	4	Screw		189703	4	Spring
	154190	4	Washer		1445307	4	Tip
	154191	4	Washer		1445427	4	Tip
2242621G17	189703	4	Spring		48X49	4	Screw
	2455288	4	Tip		154191	3	Washer
	2473070	4	Screw		154194	3	Washer
	2488877	4	Tip		175561	3	Screw
	139003	3	Screw		189703	3	Spring
2242621G18	154190	3	Washer		1445307	3	Tip
	154191	3	Washer		1452603	3	Tip
	189703	3	Spring		48X49	3	Screw
	2230287	3	Tip		154191	4	Washer
	2455288	3	Tip		154194	4	Washer
	2473070	3	Screw		175561	4	Screw
	139003	2	Screw		189703	4	Spring
2242621G19	154190	2	Washer		1445307	4	Tip
	154191	2	Washer		1452603	4	Tip
	189703	2	Spring		48X49	4	Screw
	2230287	2	Tip		154191	5	Washer
	2455288	2	Tip		154194	6	Washer
	2473070	2	Screw		166096	6	Screw
	30522	3	Screw		189703	6	Spring
2242621G20	154196	6	Washer		1445307	6	Tip
	126872	3	Screw		1452603	6	Tip
	2411332	3	Spring		36X175	6	Screw
	2457337	3	Tip		112305	6	Screw
	2457351	3	Tip		154194	12	Washer
	112305	3	Screw		189707	6	Spring
2242621G21	154194	6	Washer		1445307	6	Tip
	189703	3	Spring		1468908	6	Tip
	1445307	3	Tip		36X175	6	Screw
	1468908	3	Screw		154191	12	Washer
	48X49	3	Screw		166096	12	Screw
	133452	6	Screw		2411917	6	Spring
2242621G22	154191	6	Washer		3614198G4	12	Tip
	2413673	3	Spring		3667572G1	6	Tip
	4952545G1	6	Plate		154191	12	Washer
	4952545G2	3	Plate		166096	12	Screw
	154191	6	Washer		2411917	6	Spring
2242621G23	166096	6	Screw		3614198G4	12	Tip
	2411917	3	Spring		3667572G4	6	Tip
	3614198G4	6	Tip		139003	6	Screw
	3667572G1	3	Tip		154190	6	Washer
	154191	8	Washer		154191	6	Washer
2242621G24	166096	8	Screw		489703	6	Spring
	2411917	4	Spring		2230287	6	Tip
	3614198G4	8	Tip		2455288	6	Tip
	3667572G1	4	Tip		2473070	6	Screw
	154191	6	Washer		2234040G2	8	Contact
2242621G25	166096	6	Screw		2234040G3	8	Contact
	2411917	3	Spring		2411917	8	Spring
	3614198G4	6	Tip		3667572G1	8	Tip
	3667572G4	3	Tip		2413966	8	Spring
	154191	8	Washer		3863767G2	8	Tip
2242621G26	166096	8	Screw		4900573G1	8	Contact
	2411917	4	Spring		4900573G2	8	Contact
	3614198G4	8	Tip		133452	12	Screw
	3667572G4	4	Tip		154191	12	Washer
	2413673	6	Spring		4314800G1	6	Spring
	4314800G2	6	Plate		4314800G2	12	Plate

* For prices, see page 70.



Magnetic Switches

DESCRIPTION OF SETS FOR CR7006, CR7008 AND CR7009

Cat. No. of Set *	Set Consists of			Cat. No. of Set *	Set Consists of			Cat. No. of Set *	Set Consists of		
	Cat. No.	Quantity	Part		Cat. No.	Quantity	Part		Cat. No.	Quantity	Part
2242621G40	30522	6	Screw	2282859G14	139003	3	Screw	6960043G20	2415331	5	Spring Tip
	514196	12	Washer		154190	3	Washer		5303307G35	5	Tip
	126872	6	Screw		154191	3	Washer		5375160G3	5	Tip
	2415140	6	Spring		189703	3	Spring		5375160G4	5	Tip
2242621G41	2457337	6	Tip	2282859G15	2455288	3	Tip	6960043G21	6901414	10	Screw
	2457351	6	Tip		2473070	3	Screw		2415135	2	Spring Tip
	105113	3	Screw		2483877	3	Tip		5373245G1	2	Tip
	139003	3	Screw		154191	6	Washer		5373245G2	2	Tip
2242621G42	154190	3	Washer	2282859G16	154194	6	Washer	6960043G22	5373245G3	2	Tip
	189703	3	Spring		189703	6	Spring		6915750P5	4	Screw
	2496413	3	Tip		1445307	6	Tip	6960043G23	2415135	3	Spring Tip
	2496414	3	Tip		2473070	6	Tip		5373245G1	3	Tip
2242621G52	128616	3	Screw	2282864G1	2492908	6	Tip		5373245G2	3	Tip
	154191	3	Washer		36X175	6	Screw		5373245G3	3	Tip
	154194	3	Washer		154191	3	Washer		6915750P5	6	Screw
	189703	3	Spring		154194	3	Washer	6960043G24	2415135	5	Spring Tip
2242621G61	2496792	3	Tip	2282864G2	189703	3	Spring		5373245G1	5	Tip
	4952565G1	3	Tip		2473070	3	Screw		5373245G2	5	Tip
	36X175	3	Screw		2890181G1	3	Tip		5373245G3	5	Tip
	30522	3	Screw		4379461G2	3	Screw		6915750P5	10	Screw
2242621G62	126872	3	Screw	2282864G1	36X175	3	Screw	6960043G25	143528	3	Screw
	154196	3	Washer		154191	4	Washer		150279	3	Washer
	2411332	3	Spring		154194	4	Washer		154191	6	Washer
	2457337	3	Tip		189703	4	Spring	6960043G26	2415954	3	Spring
2242621G61	2457351	3	Tip	2282864G2	1445307	4	Tip		5384962	3	Tip
	105113	3	Screw		2473070	4	Tip		5384963	3	Tip
	154191	3	Washer		2492908	4	Tip		5958460	3	Screw
	154194	3	Washer		36X175	4	Screw	6960043G27	143528	4	Screw
2242621G62	189703	3	Spring	2282867G1	154191	6	Washer		150279	4	Screw
	1445307	3	Tip		154194	6	Washer		154191	8	Washer
	1452603	3	Tip		189703	6	Spring		2415954	4	Spring
	48X49	3	Screw		2473070	6	Screw		5384962	4	Tip
2242621G62	128616	6	Screw	2282867G1	2890181G1	6	Tip	6960043G28	5384963	4	Tip
	139033	3	Washer		4379461G2	6	Tip		5958460	4	Screw
	150279	6	Washer		36X175	6	Screw		2415944	6	Spring
	154191	6	Washer		126872	6	Screw	6960044G60	5197821G1	8	Tip
2242621G62	196352	3	Nut	2282867G1	141992	6	Screw		5197821G4	2	Tip
	278451	3	Screw		2416432	6	Spring		5352149	6	Tip
	295230	3	Washer		2416432	6	Spring		6908543	6	Tip
	2219434	3	Spring		2416432	6	Spring		6X814	6	Washer
2242621G73	2236824	3	Tip	6960043G8	2415331	3	Spring	6960044G61	54X616	6	Washer
	3667572G1	3	Tip		5303307G35	3	Tip		2415944	10	Spring
	4929729P4	3	Tip		5375160G3	3	Tip		5197821G1	12	Tip
	154191	6	Washer		5375160G4	3	Tip		5197821G5	2	Tip
2242621G80	189703	6	Spring	6960043G18	6901414	6	Screw	6960044G62	5303307G1	6	Tip
	2455288	6	Tip		2415331	3	Spring		2415944	8	Spring
	2473070	6	Screw		5303307G35	3	Tip		341AE, AL	12	Tip
	2483877	6	Tip		5375160G3	3	Tip		349A, D, F, G	62	Tip
2242621G80	126872	3	Screw	6960043G18	5375160G4	3	Tip	6960044G61	350A, C, D, F, G	62	Tip
	141992	3	Screw		6901414	6	Screw		351A-G	62	Tip
	2416432	3	Spring		2415331	4	Spring		355A, B	63	Tip
	5352149	3	Tip		5303307G35	4	Spring		356A, B	63	Tip
2282859G13	6908543	3	Tip	6960043G19	5375160G3	4	Tip	6960044G62	357A, B	63	Tip
	6X814	3	Washer		5375160G4	4	Tip		358A, B	63	Tip
	54X616	3	Washer		6901414	8	Screw		359A, B	63	Tip
	133452	6	Screw		5375160G3	4	Tip		367A, B, C, BA, BB, BC	25	Tip
2282859G13	154191	6	Washer		5375160G4	4	Tip		368A, B, C, D, BA, BB, BC	25	Tip
	2413673	3	Spring		6901414	8	Screw		368AA, AB, AC, CA, CB, CC	51	Tip
	4314800G1	3	Plate						372A	1	Tip
	4314800G2	6	Plate						373A	1	Tip

* For prices, see page 70.



A-c Coils

To determine the catalog number of the coil for any specific CR control, refer to the CR Control Table (below) which indicates the Coil Table number for each device. From the Coil Tables on pages 77 and 78, the proper voltage for each catalog number can then be selected.

If a coil is required for a device not listed in the CR Control Table, order by the catalog number stamped on coil.

When the catalog number of a coil is known, the voltage can be determined by referring to the Index to Coil Catalog Numbers on pages 81 and 82, which refers to the Coil Table number, from which the voltage can be ascertained, after checking the CR Control Table to make sure that the coil is to be used on the control designated.

Prices are shown in the Index to Coil Catalog Numbers on pages 81 and 82.

CR CONTROL TABLE

Control	Coil Table No.	Control	Coil Table No.	Control	Coil Table No.
CR1034		CR2810-1206B	3	CR2810-1298A-F	5
Type NR Form A, N, P	*	1207A, B, C	2	1299A	30
B, H, J	6	1211B	30	1301A, B	30
R1	36	1218B	30	1302A, B	30
CR1034-K1, K19, K42, M4, M5, M6	36	1219B, C	79	1303A, B	30
K17, K18, K22, K33	11	1229A-E	80	1306A, B	30
K21, K37	109	1230A, C, E	30	1307A, B	30
CR1042-A1, A2, A3, B1, B2	30	1231A-K	30	1308A	79
CR2810-A11AA, AB, AC, AH, AJ, AK, AR, AS, AT, BA, BB, BG	118	1232A-K	30	1309A	2
AT1AD, AE, AF, AG, AL, AM, AN, AP, AV, AW, AX, AY, BC, BD, BE, BF, BH, BY	119	1233A-H	30	1310A	80
B11	120	1234A-H	30	1311A	1
C11	121	1238A (3-pole)	1	1311B	30
D11AA, AB, AE, AF	122	1238A (5-pole)	4	1313A, B, C	1
D11AC, AD, AG, AH	123	1239A-L	2	1314A-D, F-J	5
CR2810-176A-D, F, G	59	1240A-N	1	1314E (Oper)	81
177A-K	59	1241A-D	4	1314E (Trip)	82
193A, B	60	1242A-F	5	1315 (Except Form A)	5
197A-W, AA-PP, RR-TT, VV-AB	1	1243A (Oper)	81	1316A	87
197QG, UU (Oper)	1	1243A (Trip)	82	1317A, B	1
197QG, UU (Trip)	61	1245A, B, C, D, E, M	10	1318A, B, C	30
198AB-AQ, PP-VV (Except form AL)	4	1247A-J	2	1319A	2
198AL, AR (Oper)	2	1250A-N (Except Forms F, G, H)	5	1322A-D	1
198AL, AR (Trip)	61	1250G	47	1325A, B	1
199T-GG	3	1250F (Oper)	81	1326A	30
202AB-AH, JJJ-RRR	5	1250F (Trip)	82	1328A	30
204D, E, F, G	3	1251A-E, G, M	5	1331A-D, G, N	12
222AB, AE-AM, AP, AQ, JJ-WW	2	1251H (Oper)	81	1331E	13
222AD, AN (Oper)	2	1251H (Trip)	82	1331F, H, J, P, R	89
222AD, AN (Trip)	61	1251K, L, N, P to V	47	1332A, C, F, M	89
223A-W, AB-AD, AF-AK, AM	1	1252A, B, C	83	1332B, D, E, G-L	13
223AE, AL (Oper)	1	1253A-F	83	1333A	89
223AE, AL (Trip)	61	1254A, B	5	1335A	90
224K-U	3	1259A	47	1337A	30
227P-V	2	1260A, B, C	4	1338A, B, C	18
228A-H	1	1261A, B, C	84	1338D-J	19
336E, F, G	2	1262A, B	2	1339A	91
341A-T	1	1263A, B	2	1340A-E, G-L	30
341U	56	1264A	2	1341A-R, T-AH	30
341AA, AB, AD, AK, AM	65	1265A-S, V, AB-AT	10	1341S (Oper)	30
341AE, AL	59	1269A-E	2	1341S (Trip)	96
349A, D, F, G	62	1269G, K (Oper)	2	1342A-G, H, J-W, AC-BA	30
350A, C, D, F, G	62	1269G, K (Trip)	61	1342AB (Oper)	30
351A-G	62	1270A-D, F, G	1	1342AB (Trip)	96
355A, B	63	1270H (Oper)	1	1342AS	70
356A, B	63	1270H (Trip)	61	1343A-U, AB-BD	30
357A, B	63	1271A	3	1344A-AP	30
358A, B	63	1278A-M	85	1345A-K	30
359A, B	63	1279A	5	1346A-D	30
367A, B, C, BA, BB, BC	25	1280A-N	2	1347A, D	92
368A, B, C, D, BA, BB, BC	25	1281A, B, C	2	1347B, C	44
368AA, AB, AC, CA, CB, CC	51	1283A, B	5	1348A, D	92
372A	1	1284A	2	1349A, B, C, D	30
373A	1	1285G, H	7	1350 (Oper)	30
374L-W, AD, AF, AG	1	1286A, B	30	1350 (Trip)	105
374AA, AB, AE	56	1286AA, AB	25	1351A-AA	30
374BA, BC, BD	65	1287A-F	30	1352A-R, T-V, AC-AF, AJ-BV, CE-CR (Except Form AW)	30
374BE	59	1288A-K	30	1352S, AB (Oper)	30
374BF, BG, BH, BJ, BK	21	1289A-K	30	1352S, AB (Trip)	96
375C, D	1	1290A-M	30	1352BW, CD	96
1201D	2	1291A-R	30	1353A-W, AC, AH-AK, AN-AW	30
1202B	2	1292A, B	30	1353AB, AD, AE, AF (Oper)	30
1205B	3	1293A, B, C, D	30	1353AB, AD, AE, AF (Trip)	96
		1294A-H	30	1353AG	18
		1295A-J	30	1353AK, BA-DR	94
		1296A-J	30		
		1297A-K	30		

* The CR1034 Type NR Forms A, N, and P compensators were furnished with coils as listed in both Tables 6 and 42. To deter-

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Cam, Drum, and Master Switches

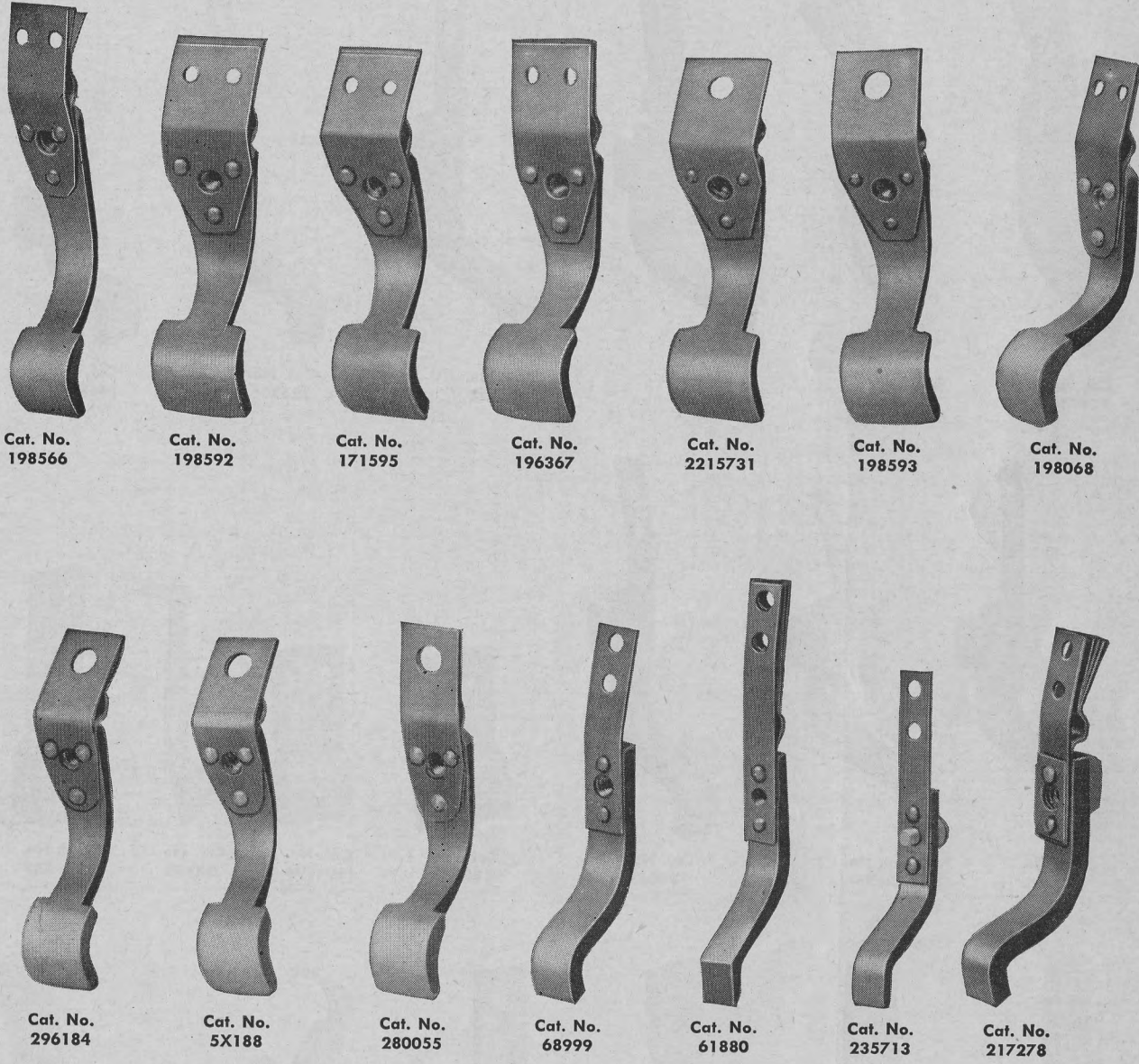
CONTACT FINGERS AND SEGMENTS FOR CR3000 TO CR3923

Switch	Fingers		Segments	Switch	Fingers		Segments
	Cat. No. of Finger	Quantity in Set			Cat. No. of Finger	Quantity in Set	
R-302-A	205498	17		T-52-L, -S, -W, -AL, -AN	2215731	28	1689560G1
R-302-B, -C	205498	17		T-54-A, -H, -J, -K	68999	18	
R-307-A, -B, -F, -G, -H, -J, -K	1468973	10	1868811G1	T-62-A	1492678	56	
R-715-A, -D, -G, -K, -L, -M	2215731	32	1683954G1	T-73-A, -B, -F, -K, -M	198593	16	
R-715-B, -C, -F	2215731	30		T-73-D, -G, -H, -J, -L	198593	18	
R-715-E, -H, -J	2215731	32		T-80-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M	198068	6	
R-728-A, -D, -E, -G, -H, -Q, -V, -W, -AF, -AG, -AM, -AP, -AS	1492678	11	39486	T-84-A, -B, -C, -D	198593	10	
R-728-B, -C, -F, -J, -K, -L, -M, -N, -P, -R, -S, -T, -U, -AB, -AD, -AE, -AH, -AJ, -AK, -AL, -AN, -AQ, -AR, -AT, -AU, -AV	1492678	11		T-85-A, -B, -D, -E, -J, -L, -R	2210062G6	13	189901
RD-80-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M	198068	6		T-85-C	2210062G6	12	
RD-417-A, -B, -C, -D, -E	1468973	6		T-85-G, -H	2210062G6	13	
RD-418-A, -B	1468973	6		T-94-A, -B, -K, -L, -P, -R	171595	18	173577
RD-419-A, -B	1468973	8		T-94-C, -Q	171595	18	173579
RD-422-A, -B, -C, -D	1468973	4	1617810G3	T-94-D	171595	17	220899
RD-430-A, -H, -L, -M, -N, -P	1468973	10		T-94-E, -H, -W	171595	18	
RD-430-B, -C, -E, -G, -J, -K, -Q	1468973	8		T-96-A, -B, -C, -D	68999	20	
RD-430-D, -F	1468973	9		T-101-A, -B, -C, -D, -E, -F, -G, -K, -M, -N, -Q, -R, -S, -T	1492678	12	121079
RD-430-R	1468973	6		T-108-A, -B	196367	26	
RD-4001-A, -B, -C	2219713	4		T-108-C, -D, -K, -N	196367	26	195514
RD-4004-A, -B, -C, -D	2219713	6			196504	2	
RD-4006-A, -B, -C	1468973	6		T-108-H	196367	26	195514
RD-4007-A, -B, -C, -F	1468973	8		T-110-B, -C	196504	3	
RD-4007-D, -H	1468973	10		T-116-A, -B, -C	171595	15	
RD-4008-A, -B	1468973	8			125256	16	
RD-4009-A, -B, -C, -D, -E	1468973	8			125257	8	
RD-4010-A, -B, -C, -D, -E, -F, -G, -H, -J, -K, -L, -M, -N, -P, -Q, -R, -S	198068	6		T-129-A, -B, -C, -D, -E, -F, -G, -L, -M, -N, -P	2210800G5	11	195520
T-1-A, -C, -D, -F, -G, -H, -J, -K, -L, -N, -P, -Q, -R, -S, -U, -V, -W	1492678	12	121079		1477185	2	
T-1-M, -T	1492678	12		T-129-K	2210800G5	11	
T-10-A, -C, -D, -G, -J, -P, -Q, -R, -U, -V, -W	171595	15	1881196G1	T-133-A	* 469252	17	
T-10-N, -T	171595	15			* 469252	17	1683921G2
T-29-A, -B, -C, -D, -E, -F, -H, -M, -N, -P, -Q, -R	171595	56	88626	T-133-B, -F, -G, -H, -J, -M, -AL	* 469252	19	
T-34-A, -C, -E, -G, -H, -K, -L, -S, -U	1492678	14	121080	T-133-AF	* 469252	19	
T-34-J, -M, -N, -Q, -T, -V, -W	1492678	14		T-133-C, -L, -N, -P, -Q, -R, -V, -AG, -AJ	* 469252	19	1836092G1
T-42-A, -F	1492678	58		T-134-A, -B, -C, -D, -F, -G, -J, -M, -N, -P, -W	1492678	14	
T-42-C, -G	1492678	54		T-134-H	1492678	15	
T-42-D, -E, -K, -M, -N	1492678	54	105702	T-134-K, -L, -S	1492678	14	121080
T-42-P, -R6, -S, -T, -U	1492678	54		T-134-T	1492678	14	210099
T-42-Q	1493678	51	195502	T-157-A, -E, -G, -L	* 469252	21	1836069G1
T-46-A, -B, -C, -D, -E, -J, -K, -M, -N, -P, -Q, -R, -T, -V, -W	68999	18		T-157-B, -C, -D, -H, -J, -K	* 469252	21	1995577G1
T-46-G, -U	68999	11		T-708-B, -D, -F, -H, -J, -K, -L, -P, -Q, -R, -AE, -AG	196367	26	195514
T-46-H, -L, -S	68999	16			196504	9	
T-52-A, -C, -D, -J, -N, -Q, -AM	2215731	28		T-734-A, -H	1492678	14	121080
T-52-B	2215731	26		T-734-B, -E	1492678	14	219184
T-52-G, -K, -P, -R, -AD, -AE, -AF, -AG, -AH, -AK	2215731	26	210210	T-734-D, -G, -R	1492678	14	210099
				T-742-A	1492678	54	
				T-742-B, -C, -E, -F, -G, -K, -L	1492678	54	195502
				T-742-H	1492678	47	
				T-742-J	1492678	44	
				T-794-C, -N, -Q	171595	18	
				T-794-E, -L, -P	171595	18	173577
				T-794-F, -G, -K, -M	171595	17	173579
				T-794-H, -J	171595	18	220899

* Tip only.
For illustrations, see pages 67 and 68.
For prices, see page 69.

Contact Fingers and Tips

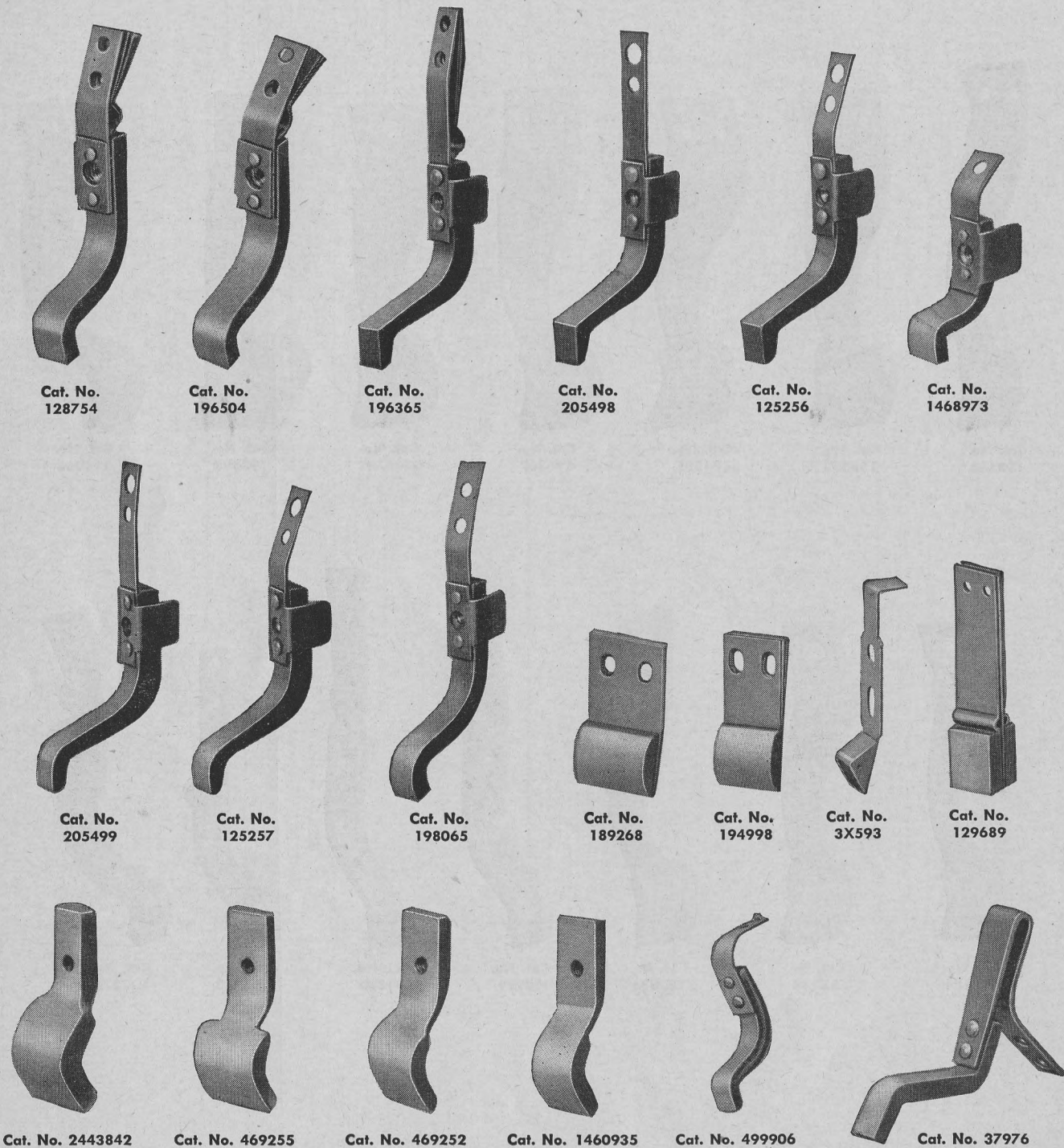
IDENTIFYING ILLUSTRATIONS
CR3000 to CR3923 Cam, Drum, and Master Switches
CONTACT FINGERS AND TIPS MOST FREQUENTLY USED
(Illustrations are approximately 1/2 actual size)



For prices, see page 69.

Contact Fingers and Tips

IDENTIFYING ILLUSTRATIONS
CR3000 to CR3923 Cam, Drum, and Master Switches
Contact Fingers and Tips Most Frequently Used
(Illustrations are approximately 1/2 actual size)



For prices, see page 69.

Prices of Contact Fingers, Tips and Segments

LIST PRICES—CONTACT FINGERS, TIPS, AND SETS OF SEGMENTS
FOR CAM, DRUM, AND MASTER SWITCHES
CR3000 to CR3923

Cat. No.	Part	List Price, Ea. GO-11	Cat. No.	Part	List Price, Ea. GO-11	Cat. No.	Part	List Price, Ea. GO-11
37976	Finger	\$1.30	219816	Set Segments	\$20.00	2219082G1	Set Segments	\$42.00
39485	Set Segments	11.50	220899		20.00	2219082G2		52.00
39486		8.25	234856		5.40	2219082G6		47.00
39488		9.60	235713	Finger	.94	2219135G1		25.00
61880	Finger	.78	280055		.94	2219135G2		25.00
68999		.94	296184		1.20	2219136G1		31.00
88626	Set Segments	29.00	469252	Tip	.46	2219713	Finger	.46
105333		24.00	469255		.78	2224121G1	Set Segments	24.00
105427		6.80	499906	Finger	.46	2224179G1		22.00
105702		51.00	821032G1	Set Segments	39.00	2224179G2		19.50
121079		15.00	878259G1		20.00	2234556G1		23.00
121080		22.00	1158694G1		26.00	2234732G1		22.00
121569		7.40	1445307	Tip	.24	2234877G2		8.80
123339		9.60	1459966	Finger	.16	2234885G1		29.00
125256	Finger	.94	1460935	Tip	.62	2234916G1		52.00
125257		1.04	1466032	Tip	.50	2236372	Finger	.30
128754		1.20	1466387	Tip	.28	2236930	Tip	.30
142827		1.20	1468973	Finger	.62	2280620G8	Contact	1.20
157362	Set Segments	23.00	1476440	Tip	1.90	2280620G9	Contact	.30
159385	Finger	.78	1477185	Finger	1.04	2280620G13	Contact	.46
171595		.50	1479663	Tip	.62	2280620G14	Contact	.46
173577	Set Segments	24.00	1492678	Finger	.45	2280620G15	Contact	.46
173579		22.00	1606633G1	Set Segments	19.00	2443842	Tip	.70
189268	Finger	1.50	1606633G3		16.00	2646119G1	Set Segments	14.50
189901	Set Segments	11.50	1657188G1		15.00	2646132G1		22.00
194998	Finger	.78	1657188G2		12.50	2647818G1		24.00
195471	Set Segments	6.80	1677708G1		15.00	2647852G1		11.50
195490		12.50	1683921G2		11.50	2649305G1		29.00
195502		58.00	1683954G1		40.00	2649326G1		31.00
195514		12.50	1689560G1		22.00	2801682G1		32.00
195520	Set Segments	6.80	1836069G1		11.50	2801683G1		25.00
196365	Finger	1.04	1836092G1		9.60	2801699G1		6.80
196367		.94	1868811G1		5.50	2802999G1		20.00
196504		1.04	1881196G1		20.00	2804416G1	Set Segments	25.00
198065		1.04	1977610G3	Set Contacts	5.70	2804417G1		24.00
198068		.78	1995577G1	Set Segments	11.00	2808103G1		15.00
198566		.78	2169887G1		12.00	2808163G1		22.00
198592		1.04	2210062G6	Finger	.78	2809003G1		2.20
198593		1.50	2210800G4		.50	2809003G2		4.00
205498		.78	2210800G5		.50	2809027G1		11.00
205499		.94	2210800G11		.62	2875044G1		24.00
210099	Set Segments	15.00	2210920G1	Set Segments	20.00	3803265G1	Contact	.30
210210		19.00	2210920G3		20.00	3841733G1	Plate	.78
217278	Finger	1.30	2210999G1		9.60	3X593	Finger	.62
			2215625	Tip	.62	5X188		1.20
			2215731	Finger	.50			



Magnetic Switches

SETS OF CONTACT PARTS FOR CR7006, CR7008 AND CR7009

Type of Magnetic Switch	Cat. No. of Set†	Type of Magnetic Switch	Cat. No. of Set†
CR7006-B1A, -B1B, -B1AA, -B1BA	2282859G13	CR7006-D52A, -D52B, -D52D, -D52E, -D52G, -D52H, -D52K, -D52L, -D52N, -D52P, -D52R, -D52S, -D52U, -D52V, -D52AA, -D52AB, -D52AK, -D52AM, -D52BG, -D52BH, -D52CA, -D52CB, -D52CD, -D52CE, -D52CG, -D52CH, -D52CK, -D52CL, -D52CN, -D52CP, -D52CR, -D52CS, -D52CU, -D52CV	6960043G25
CR7006-B2A	2282859G14	CR7006-D52G, -D52J, -D52M, -D52Q, -D52T, -D52W, -D52AC, -D52CC, -D52CF, -D52CJ, -D52CW	6960043G26
CR7006-B2B	2242621G22	CR7006-D53B, -D53E, -D53L, -D53P, -D53S, -D53Z	2242621G80
CR7006-B2C	2242621G42	CR7006-D54B, -D54E, -D54L, -D54P, -D54S, -D54Z	2242621G80
CR7006-B3A	2242621G22		
CR7006-B3B	2242621G41		
CR7006-B3C	2242621G42		
CR7006-B51A	2242621G22		
CR7006-B52A	2242621G41		
CR7006-B53A	2242621G42		
CR7006-D3	2242621G21		
CR7006-D4, 3-phase or 2-phase, 3-wire	2242621G29		
CR7006-D4, 2-phase, 4-wire	2242621G30		
CR7006-D5	2242621G21		
CR7006-D7	2242621G21		
CR7006-D7A, -D7B, -D7C, -D7K, -D7P, -D7T, -D7AR, -D7BP, -D7CU, -D7EA	2282859G16		
CR7006-D7CA	2282864G2		
CR7006-D7E, -D7CQ, -D7DC, -D7DD	2242621G20		
CR7006-D7F, -D7J, -D7R	2282864G1		
CR7006-D8	2242621G21		
CR7006-D13	2242621G30		
CR7006-D14	2242621G21		
CR7006-D16	2242621G21		
CR7006-D16B	2242621G52		
CR7006-D26, -D26A, 3-pole	2242621G23		
CR7006-D26A, 4-pole	2242621G24		
CR7006-D26B, -D26D, -D26F, -D26G	2242621G25		
CR7006-D26E, -D26H	2242621G26		
CR7006-D30, -D30J	2242621G18		
CR7006-D30A	2242621G19		
CR7006-D30B, -D30D, -D30E, -D30G, -D30K, -D30M, -D30AA, -D30AG, -D30AH, -D30AV, -D30BF, -D30BV, -D30CV, -D30DO, -D30FH, -D30FJ, -D30FK	2282859G14		
CR7006-D30F, -D30BM, -D30DG	2242621G17		
CR7006-D31, -D31C, -D31H, -D31AE, -D31BF	2242621G20		
CR7006-D31B, -D31E, -D31K, -D31C	2242621G52		
CR7006-D40, -D40A, -D40B, -D40C, -D40D, -D40H, -D40J, -D40K, -D40L, -D40M, -D40N, -D40S, -D40T, -D40V, -D40AB, -D40AF, -D40AH, -D40AJ, -D40AK, -D40AL, -D40AR, -D40BA, -D40BF, -D40CN, -D40GH, -D40HK, -D40KL, -D40KM, -D40KN	2282859G13		
CR7006-D40E, -D40F, -D40AM, -D40DD, -D40GV	2242621G16		
CR7006-D40G, -D40P, -D40R, -D40W, -D40AN, -D40AP, -D40AT, -D40DA, -D40DE	2242621G15		
CR7006-D50A, -D50D, -D50G, -D50K, -D50N, -D50R, -D50U	6960043G18		
CR7006-D50B, -D50E, -D50H, -D50L, -D50P, -D50S, -D50V	6960043G19		
CR7006-D50C, -D50F, -D50J, -D50M, -D50Q, -D50T, -D50W	6960043G20		
CR7006-D51A, -D51D, -D51U, -D51CA, -D51CD, -D51CU, -D51GG	6960043G21		
CR7006-D51B, -D51E, -D51V, -D51CB, -D51CE, -D51CG, -D51CH, -D51CV, -D51GA, -D51GD, -D51GH, -D51GK, -D51GN, -D51GR, -D51GU	6960043G22		
CR7006-D51C, -D51F, -D51W, -D51CC, -D51CF, -D51CW, -D51GB, -D51GE, -D51GJ, -D51GL, -D51GP, -D51GS, -D51GV	6960043G23		
CR7006-D51CJ, -D51GC, -D51GF, -D51GM, -D51GQ, -D51GT, -D51GW	6960043G24		

* For front panel.
 † For rear panel.

□ For front contactor.
 § For rear contactor (not used on Forms V21A or V22B).

† See pages 71 and 72.
 ‡ Two required.

LIST PRICES

Cat. No.	List Price per Set GO-11	Cat. No.	List Price per Set GO-11	Cat. No.	List Price per Set GO-11	Cat. No.	List Price per Set GO-11
2242621G15	\$3.60	2242621G28	\$2.70	2242621G42	\$5.70	6960043G8	\$10.00
2242621G16	7.20	2242621G29	1.80	2242621G52	4.10	6960043G18	4.90
2242621G17	2.70	2242621G30	2.30	2242621G61	1.70	6960043G19	6.40
2242621G18	2.30	2242621G31	3.50	2242621G62	7.20	6960043G20	8.20
2242621G19	1.80	2242621G32	4.10	2242621G73	4.00	6960043G21	3.80
2242621G20	4.10	2242621G33	6.20	2242621G80	5.25	6960043G22	5.70
2242621G21	1.80	2242621G34	6.20	2282859G13	5.40	6960043G23	7.40
2242621G22	4.10	2242621G35	4.80	2282859G14	2.10	6960043G24	9.40
2242621G23	3.00	2242621G37	14.50	2282859G15	4.00	6960043G25	2.90
2242621G24	3.90	2242621G38	8.60	2282859G16	1.80	6960043G26	3.40
2242621G25	3.00	2242621G39	11.00	2282864G1	8.60	6960044G60	7.50
2242621G26	3.90	2242621G40	6.40	2282864G2	2.70	6960044G61	10.00
2242621G27	1.80	2242621G41	4.10	2282867G1	23.00	6960044G62	12.50



Magnetic Switches

DESCRIPTION OF SETS FOR CR7006, CR7008 AND CR7009

Cat. No. of Set *	Cat. No.	Quantity	Part	Cat. No. of Set *	Cat. No.	Quantity	Part
2242621G15	133452	4	Screw	2242621G27	154191	3	Washer
	154191	4	Washer		154194	3	Washer
	2413673	2	Spring		175561	3	Screw
	4314800G1	2	Plate		189703	3	Spring
	4314800G2	4	Plate		1445307	3	Tip
	133452	8	Screw		1445427	3	Tip
	154191	8	Washer		48X49	3	Screw
2242621G16	2413673	4	Spring		154191	4	Washer
	4318000G1	4	Plate		154194	4	Washer
	4314800G2	8	Plate		175561	4	Screw
	139003	4	Screw		189703	4	Spring
	154190	4	Washer		1445307	4	Tip
	154191	4	Washer		1445427	4	Tip
2242621G17	189703	4	Spring		48X49	4	Screw
	2455288	4	Tip		154191	3	Washer
	2473070	4	Screw		154194	3	Washer
	2488877	4	Tip		175561	3	Screw
	139003	3	Screw		189703	3	Spring
2242621G18	154190	3	Washer		1445307	3	Tip
	154191	3	Washer		1452603	3	Tip
	189703	3	Spring		48X49	3	Screw
	2230287	3	Tip		154191	4	Washer
	2455288	3	Tip		154194	4	Washer
	2473070	3	Screw		175561	4	Screw
	139003	2	Screw		189703	4	Spring
2242621G19	154190	2	Washer		1445307	4	Tip
	154191	2	Washer		1452603	4	Tip
	189703	2	Spring		48X49	4	Screw
	2230287	2	Tip		154191	5	Washer
	2455288	2	Tip		154194	6	Washer
	2473070	2	Screw		166096	6	Screw
	30522	3	Screw		189703	6	Spring
2242621G20	154196	6	Washer		1445307	6	Tip
	126872	3	Screw		1452603	6	Tip
	2411332	3	Spring		36X175	6	Screw
	2457337	3	Tip		112305	6	Screw
	2457351	3	Tip		154194	12	Washer
	112305	3	Screw		189707	6	Spring
2242621G21	154194	6	Washer		1445307	6	Tip
	189703	3	Spring		1468908	6	Tip
	1445307	3	Tip		36X175	6	Screw
	1468908	3	Screw		154191	12	Washer
	48X49	3	Screw		166096	12	Screw
	133452	6	Screw		2411917	6	Spring
2242621G22	154191	6	Washer		3614198G4	12	Tip
	2413673	3	Spring		3667572G1	6	Tip
	4952545G1	6	Plate		154191	12	Washer
	4952545G2	3	Plate		166096	12	Screw
	154191	6	Washer		2411917	6	Spring
2242621G23	166096	6	Screw		3614198G4	12	Tip
	2411917	3	Spring		3667572G4	6	Tip
	3614198G4	6	Tip		139003	6	Screw
	3667572G1	3	Tip		154190	6	Washer
	154191	8	Washer		154191	6	Washer
2242621G24	166096	8	Screw		489703	6	Spring
	2411917	4	Spring		2230287	6	Tip
	3614198G4	8	Tip		2455288	6	Tip
	3667572G1	4	Tip		2473070	6	Screw
	154191	6	Washer		2234040G2	8	Contact
2242621G25	166096	6	Screw		2234040G3	8	Contact
	2411917	3	Spring		2411917	8	Spring
	3614198G4	6	Tip		3667572G1	8	Tip
	3667572G4	3	Tip		2413966	8	Spring
	154191	8	Washer		3863767G2	8	Tip
2242621G26	166096	8	Screw		4900573G1	8	Contact
	2411917	4	Spring		4900573G2	8	Contact
	3614198G4	8	Tip		133452	12	Screw
	3667572G4	4	Tip		154191	12	Washer
	2411917	4	Spring		2413673	6	Spring
	3614198G4	8	Tip		4314800G1	6	Plate
	3667572G4	4	Tip		4314800G2	12	Plate

* For prices, see page 70.



Magnetic Switches

DESCRIPTION OF SETS FOR CR7006, CR7008 AND CR7009

Cat. No. of Set *	Set Consists of			Cat. No. of Set *	Set Consists of			Cat. No. of Set *	Set Consists of		
	Cat. No.	Quantity	Part		Cat. No.	Quantity	Part		Cat. No.	Quantity	Part
2242621G40	30522	6	Screw	2282859G14	139003	3	Screw	6960043G20	2415331	5	Spring
	514196	12	Washer		154190	3	Washer		5303307G35	5	Tip
	126872	6	Screw		154191	3	Washer		5375160G3	5	Tip
	2415140	6	Spring		189703	3	Spring		5375160G4	5	Tip
2242621G41	2457337	6	Tip	2282859G15	2455288	3	Tip	6960043G21	6901414	10	Screw
	2457351	6	Tip		2473070	3	Screw		2415135	2	Spring
	105113	3	Screw		2483877	3	Tip		5373245G1	2	Tip
	139003	3	Screw		154191	6	Washer		5373245G2	2	Tip
2242621G42	154190	3	Washer	2282859G16	154194	6	Washer	6960043G22	5373245G3	2	Tip
	189703	3	Spring		189703	6	Spring		6915750P5	4	Screw
	2496413	3	Tip		1445307	6	Tip	6960043G23	2415135	3	Spring
	2496414	3	Tip		2473070	6	Tip		5373245G1	3	Tip
2242621G52	128616	3	Screw	2282864G1	2492908	6	Tip		5373245G2	3	Tip
	154191	3	Washer		36X175	6	Screw		5373245G3	3	Tip
	154194	3	Washer		154191	3	Washer		6915750P5	6	Screw
	189703	3	Spring	2282864G2	154194	3	Washer	6960043G24	2415135	5	Spring
2242621G61	2496792	3	Tip		154194	3	Washer		5373245G1	5	Tip
	4952565G1	3	Tip		189703	3	Spring		5373245G2	5	Tip
	36X175	3	Screw		2473070	3	Screw		5373245G3	5	Tip
2242621G62	30522	3	Screw	2282867G1	2890181G1	3	Tip	6960043G25	6915750P5	10	Screw
	126872	3	Screw		4379461G2	3	Tip		143528	3	Screw
	154196	3	Washer		36X175	3	Screw		150279	3	Washer
	2411332	3	Spring	2282867G2	154191	4	Washer		154191	6	Washer
2242621G63	2457337	3	Tip		154194	4	Washer	6960043G26	5384962	3	Tip
	2457351	3	Tip		189703	4	Spring		5384963	3	Tip
	105113	3	Screw		1445307	4	Tip		5958460	3	Screw
	154191	3	Washer	2282867G3	2473070	6	Screw	6960043G27	2415954	3	Spring
2242621G64	154194	3	Washer		2890181G1	6	Tip		5384962	3	Tip
	189703	3	Spring		4379461G2	6	Tip		5384963	3	Tip
	1445307	3	Tip	2282867G4	36X175	6	Screw		5958460	3	Screw
2242621G65	1452603	3	Tip		126872	6	Screw	6960043G28	2415944	6	Spring
	48X49	3	Screw		141992	6	Screw		5197821G1	8	Tip
	128616	6	Screw	6960043G8	2416432	6	Spring		5197821G4	2	Tip
	139033	3	Washer	2282867G5	5352149	6	Tip	6960044G60	5197821G5	2	Tip
2242621G66	150279	6	Washer		6908543	6	Tip		5303307G1	6	Tip
	154191	6	Washer		6X814	6	Washer	6960044G61	2415944	8	Spring
	196352	3	Nut	2282867G6	54X616	6	Washer		5197821G1	12	Tip
2242621G67	278451	3	Screw		2415331	3	Spring		5197821G4	2	Tip
	295230	3	Washer	6960043G9	5303307G35	3	Tip	6960044G62	5197821G5	2	Tip
	2219434	3	Spring		5375160G3	3	Tip		5303307G1	8	Tip
	2236824	3	Tip	2282867G7	5375160G4	3	Tip	6960044G63	2415944	10	Spring
2242621G68	3667572G1	3	Tip		6901414	6	Screw		5197821G1	12	Tip
	4929729P4	3	Tip	6960043G10	5375160G3	4	Tip		5197821G4	4	Tip
	154191	6	Washer		5375160G4	4	Tip	6960044G64	5197821G5	4	Tip
2242621G69	189703	6	Spring		6901414	8	Screw		5303307G1	10	Tip
	2455288	6	Tip	2282867G8	2415331	3	Spring	6960044G65	2415944	8	Spring
	2473070	6	Screw		5303307G35	3	Tip		5197821G1	12	Tip
	2483877	6	Tip	2282867G9	5375160G3	3	Tip		5197821G4	2	Tip
2242621G70	126872	3	Screw		5375160G4	3	Tip		5197821G5	2	Tip
	141992	3	Screw	2282867G10	6901414	6	Screw	6960044G66	2415944	10	Spring
	2416432	3	Spring		5375160G3	4	Tip		5197821G1	12	Tip
	5352149	3	Tip	2282867G11	5375160G4	4	Tip		5197821G4	4	Tip
2242621G71	6908543	3	Tip		6901414	8	Screw	2282867G12	5197821G5	4	Tip
	6X814	3	Washer	2282867G13	5375160G3	4	Tip		5303307G1	10	Tip
	54X616	3	Washer		5375160G4	4	Tip	2282867G14	5197821G4	4	Tip
	133452	6	Screw		6901414	8	Screw		5197821G5	4	Tip
2282859G13	154191	6	Washer	2282867G15	5375160G3	4	Tip		5303307G1	10	Tip
	2413673	3	Spring		5375160G4	4	Tip	2282867G16	5197821G4	4	Tip
	4314800G1	3	Plate		6901414	8	Screw		5197821G5	4	Tip
	4314800G2	6	Plate						5303307G1	10	Tip

* For prices, see page 70.



A-c Coils

To determine the catalog number of the coil for any specific CR control, refer to the CR Control Table (below) which indicates the Coil Table number for each device. From the Coil Tables on pages 77 and 78, the proper voltage for each catalog number can then be selected.

If a coil is required for a device not listed in the CR Control Table, order by the catalog number stamped on coil.

When the catalog number of a coil is known, the voltage can be determined by referring to the Index to Coil Catalog Numbers on pages 81 and 82, which refers to the Coil Table number, from which the voltage can be ascertained, after checking the CR Control Table to make sure that the coil is to be used on the control designated.

Prices are shown in the Index to Coil Catalog Numbers on pages 81 and 82.

CR CONTROL TABLE

Control	Coil Table No.	Control	Coil Table No.	Control	Coil Table No.
CR1034		CR2810-1206B	3	CR2810-1298A-F	5
Type NR Form A, N, P	*	1207A, B, C	2	1299A	30
B, H, J	6	1211B	30	1301A, B	30
R1	36	1218B	30	1302A, B	30
CR1034-K1, K19, K42, M4, M5, M6	36	1219B, C	79	1303A, B	30
K17, K18, K22, K33	11	1229A-E	80	1306A-G	30
K21, K37	109	1230A, C, E	30	1307A, B	30
CR1042-A1, A2, A3, B1, B2	30	1231A-K	30	1308A	79
CR2810-A11AA, AB, AC, AH, AJ, AK, AR, AS, AT, BA, BB, BC	118	1232A-K	30	1309A	2
A11AD, AE, AF, AG, AL, AM, AN, AP, AV, AW, AX, AY, BC, BD, BE, BF, BH, BY	119	1233A-H	30	1310A	80
B11	120	1234A-H	30	1311A	1
C11	121	1238A (3-pole)	1	1311B	30
D11AA, AB, AE, AF	122	1238A (5-pole)	4	1313A, B, C	1
D11AC, AD, AG, AH	123	1239A-L	2	1314A-D, F, J	5
CR2810-176A-D, F, G	59	1240A-N	1	1314E (Oper)	81
177A-K	59	1241A-D	4	1314E (Trip)	82
193A, B	60	1242A-F	5	1315 (Except Form A)	5
197A-W, AA-PP, RR-TT, VV-AB	1	1243A (Oper)	81	1316A	87
197QQ, UU (Oper)	1	1243A (Trip)	82	1317A, B	1
197QQ, UU (Trip)	61	1245A, B, C, D, E, M	10	1318A, B, C	30
198AB-AQ, PP-VV (Except form AL)	4	1247A-J	2	1319A	2
198AL, AR (Oper)	2	1250A-N (Except Forms F, G, H)	5	1321A-F	27
198AL, AR (Trip)	61	1250G	47	1322A-D	1
199T-GG	3	1250F (Oper)	81	1325A, B	1
202AB-AH, JJJ-RRR	5	1250F (Trip)	82	1326A	30
204D, E, F, G	3	1251A-E, G, M	5	1328A	30
222AB, AE-AM, AP, AQ, JJ-WW	2	1251H (Oper)	81	1331A-D, G, N	12
222AD, AN (Oper)	2	1251H (Trip)	82	1331E	13
222AD, AN (Trip)	61	1251K, L, N, P to V	47	1331F, H, J, P, R	89
223A-W, AB-AD, AF-AK, AM	1	1252A, B, C	83	1332A, C, F, H	89
223AE, AL (Oper)	1	1253A-F	83	1332B, D, E, G-L	13
223AE, AL (Trip)	61	1254A, B	5	1333A	89
224K-U	3	1259A	47	1335A	90
227P-V	2	1260A, B, C	4	1337A	30
228A-H	2	1261A, B, C	84	1338A, B, C	18
336E, F, G	1	1262A, B	2	1338D-J	19
341A-T	1	1263A, B	2	1339A	91
341U	56	1264A	2	1340A-E, G-L	30
341AA, AB, AD, AK, AM	65	1265A-S, V, AB-AT	10	1341A-R, T-AH	30
341AE, AL	59	1269A-E	2	1341S (Oper)	30
349A, D, F, G	62	1269G, K (Oper)	2	1341S (Trip)	96
350A, C, D, F, G	62	1269G, K (Trip)	61	1342A-G, H, J-W, AC-BA	30
351A-G	62	1270A-D, F, G	1	1342AB (Oper)	30
355A, B	63	1270H (Oper)	1	1342AB (Trip)	96
356A, B	63	1270H (Trip)	61	1342AS	70
357A, B	63	1271A	3	1343A-U, AB-BD	30
358A, B	63	1278A-M	85	1344A-AP	30
359A, B	63	1279A	5	1345A-K	30
367A, B, C, BA, BB, BC	25	1280A-N	2	1346A-D	30
368A, B, C, D, BA, BB, BC	25	1281A, B, C	2	1347A, D	92
368AA, AB, AC, CA, CB, CC	51	1283A, B	5	1347B, C	44
372A	1	1284A	2	1348A, D	92
373A	1	1285G, H	7	1349A, B, C, D	30
374L-W, AD, AF, AG	1	1286A, B	30	1350 (Oper)	30
374AA, AB, AE	56	1287A-F	30	1350 (Trip)	105
374BA, BC, BD	65	1288A-K	30	1351A-AA	30
374BE	59	1289A-K	30	1352A-R, T-W, AC-AF, AJ-BV, CE-CR (Except Form AW)	30
374BF, BG, BH, BJ, BK	21	1290A-M	30	1352S, AB (Oper)	30
375C, D	1	1291A-R	30	1352S, AB (Trip)	96
1201D	2	1292A, B	30	1352BW, CD	94
1202B	2	1293A, B, C, D	30	1353A-W, AC, AH-AK, AN-AW	30
1205B	3	1294A-H	30	1353AB, AD, AE, AF (Oper)	30
		1295A-J	30	1353AB, AD, AE, AF (Trip)	96
		1296A-J	30	1353AG	18
		1297A-K	30	1353AK, BA-DR	94
				1353AL, AM	30



A-c Coils

CR CONTROL TABLE (Cont'd)

Control	Coil Table No.	Control	Coil Table No.	Control	Coil Table No.
CR2810-1354A-AL	30	CR2810-1558B (Oper)	19	CR2820-1019A-W, AB-CC, CN, CP, CR-DV, CF-CL (Except Forms AP, AQ, AR)	30
1355A-M	30	1558B (Trip)	61	1019CD, CE, CM	52
1356A-B	30	1559A	18	1033A-H, K-M	9
1357A-G, M-AG, AJ, AK	30	1561A, B, C, D	21	1033J, N	67
1357H, J, K, L, AH (Oper)	30	1562A, B, F, H, J, K, L, N, R, T, V, W	21	1041A, C-W	7
1357H, J, K, L, AH (Trip)	96	1562C, D, E, S (Oper)	61	1047A-L	37
1360A, B, C, D	30	1562C, D, E, S (Trip)	21	1062A-D, F-N	109
1361A-L	30	1563A, B, H, M, N, P, W	21	1062E	11
1362A-K	30	1563C, D, G (Oper)	21	1062P (A-c)	11
1363A-K	30	1563C, D, G (Trip)	61	1068A-F, J, L, N, P, Q, U, V, W, AB, AD, AF, AG	17
1364A-K	30	1563T, V	51	1071A-J, L-S	30
1365A	30	1564A-L	51	1071K	70
1366A	30	1565A-J	51	1076 (A-c)	17
1367A	5	1566A, B, C	21	1080A-L, P-S, AD, AF	26
1371A, B, D, E	30	1567B (Oper)	21	1080W, AB	24
1371C (Oper)	30	1567B (Trip)	61	1081 (A-c)	20
1371C (Trip)	96	1567A, D, E	21	1083B, C, D	71
1372A	30	1568A (Oper)	100	1086A-J	72
1373A-E	34	1568A (Trip)	61	1092 (A-c coils)	17
1375A-M, Q, R	33	1569A, B	98	1095A	16
1376A, B	5	1571A, B, C, D	48	1096A-M	29
1377A	5	1572C-G, M	48	1097A-BB	23
1378A	33	1573A-L, P, R, U, V, AA-AC	48	1097BC-DG, DH-DN, EJ-FN, GE, GG-GN, GT, GU, GV, HB, HK	24
1379A	33	1573S, T	15	1097FR-GD, GF, GP-GS	78
1380A	33	1574A, B, C, D, E, F, G	47	1099E-M, P-W, AA-AE, AG-AK, AM-AS, AU-AW, BB, BD-BH, BK, BL, BN, BP, BQ, BS	73
1381A	91	1575C-M	47	1099AF, N	74
1382A	5	1576A	30	1099AL, AT	75
1383A	5	1579A	30	1099BT	76
1383B (Oper)	81	1581A, B	52	1700A, B, C	14
1383B (Trip)	82	1582A-K	52	1708A, B, C	30
1385A	90	1583A-H	52	1713A, C, D, G, H, L, N-U	38
1390A	91	1583J, K, L	22	1714A-R (Except Forms D, E, F)	69
1502A	53	1587A, B	52	1722A, B, D, E	103
1503A, B	53	1589A, B, D	30	1729 (All A-c forms)	17
1504A-G	53	1591A	101	1731A-J	24
1505A-J	53	1592A	101	1742 (Oper)	18
1506A	95	1593A, B	101	1742 (Trip)	18
1507A	95	1809	39	1744A (Oper)	30
1508A, B	54	1810	39	1744A (Trip)	30
1509A, B	54	1811A, B, C, E-H, K-N, Q-T, V-AB, AD, AE	104		
1510A, B	54	1811AH	64		
1511A, B	54	1811D, J, P, U, AC	111		
1512A, B	54	1820A, B, D, F, G	93		
1513A	88	1820E	106		
1514A, B, C	55	1822AA-AD	60		
1515A, B, D, E	55	1823 (A11)	60		
1516A, B, D-G	55	1824A-D, AA-AD	60		
1517A, B	77	1825A-H, AA-AE	60		
1518A, B	77	1825BA-BD	58		
1519A, B	57	1852A-D, AA-AB	107		
1520A, B	57	1853A-D, AA-AE	107		
1521A, B	57	1854A, B, AA, AB	107		
1524A	56	1855A, B, AA	107		
1525A	56	1862A-D, AA, AB	27		
1526A, B, C	56	1863AA-AE	27		
1527A-D, G, H, J	56	1864A, B, AA, AB	126		
1528A	56	1865AA	126		
1530A	53				
1531A, B, C, D, E-M	49				
1531K, S	96				
1531N, P, Q, R	97				
1532A-L	96				
1533A	54				
1534A	18				
1535B, C	95				
1536A, B	56				
1537A	98				
1539A	95				
1540A, B	96				
1541A-M	99				
1542A-N	99				
1543A-W	99				
1544A, B, C	99				
1546A, B, D, E	99				
1547A	99				
1550A (Oper)	19				
1550A (Trip)	61				
1551A, C, E, G, H	18				
1551B, D (Oper)	19				
1551B, D (Trip)	61				
1552A, B, D, F, K, S, AA-AL	18				
1552C, G, L, M, W (Oper)	19				
1552C, G, L, M, W (Trip)	61				
1553A, B, D, G, J, K, L, N, Q, W, AK, AN, AP, AR, AS-AV, BA-BJ	18				
1553E, H, AF (Oper)	19				
1553E, H, AF (Trip)	61				
1554A, C-J	18				
1554B (Oper)	19				
1554B (Trip)	61				
1555A-N, Q, R	19				
1556A	19				
1557A, B, C, D	18				
1558A, C-M	18				



A-c Coils

CR CONTROL TABLE (Cont'd)

Control	Coil Table No.	Control	Coil Table No.	Control	Coil Table No.
CR6133-E3 (DL-2249255)	33	CR7006-D42E, L, R, S, T, W, AA, AD, AF, AG, AK, AN, AR, AV, BA, BC, BJ, BN, BR, BV	34	CR7008-C100, C101 D100, D101 E100, E101 V42A, V43A	121
(1) CR2810-1375F	33				122
(2) CR2810-1378A	33				124
(2) CR2810-1265AE	10				32
CR6133-E7 (DL-22296805)	33	CR7006-D42F, K, N, V, AP, AS, AT, AW, BB, BK, BL, BP	31	CR7009-A100, A101 A102 B18, B18C	*118
(1) CR2810-1375F	33	D42AB, AC, CG, CH, CI, CM	34		*119
(2) CR2810-1378A	33	D42AE, AJ, AL, CL, CN	32	B19	*33
(2) CR2810-1265AE	10	D50A-T, AA-AM, AR, AU, BR, BT, BU, CE-CK, CM-CV, DA, DB, DF, DG, DJ, DL, DP-DW, EA, EC, ED, EE, EG, EH, EJ, EM, EN, EP, ET, EU, FA, FB, FF, FG, FK, FL, FM, FQ, FR, FT, FV, FW, GB, GG, GJ, GK, GL, GP, GR, GT	115	B19A, B20, B20A, 540	*24
		50U, V, W, BK, BQ, BS, BV, CA, CB, CC, CD, CL, DD, DE, DM, DN, EB, EF, EK, EL, ES, EV, EW, FH, FJ, EP, GA, GE, GH, GM	93	B24	*30
		D50DK, GN, GS	106	B26	*39
		D50FN, FS, FU, GC, GU	116	B29	*39
		D51A-T, AA, AD, AF, AG, AJ, AK, AL, AN, AQ, AR, AS, AT, BJ, BM, BN, CA-CT, DA, DD, DF, DG, DJ, DK, DL, DM, DQ-DW, EA, EC, ED, EE, EG, EH, FI, FK, FL, FP, FQ, FS-FV, GA-GG, GJ, GK, GT, HA, HD, HE, HG, HJ, HK, HL, HN, HQ-HW, JA-JD, JN, JU, KD, KH, KK, KL, KP, KQ, KR, KU, KV, LA, LD, LE, LF, LH, LI, LN, LP, MV, NB, NC, NE	105	B30	*39
		D51U, V, W, AB, AE, AM, AP, BB, BC, BD, BF, BH, CI, CV, CW, DB, DE, DM, DP, EE-EM, FB, FE, FG, FI, FM, FN, FR, FW, GU, GV, GW, HB, HE, HM, HP, JE-JM, KB, KE, KF, KG, KM, KN, KS, KT, KW, LB, LC, LL, LM, LO, LR, LS, LV, MA, MC, MG, MJ, MK, MR, MW, NA, ND, NF, D51AC, BE, BK, DC, FA, HC, KA, LG, LJ, MD, NG	104	B31 (All forms except FU, KR, KW, LG, LH, LQ, NR, NS, NV, PA, PR, PS, PT, PW, RA)	*104
		D51AH, DH, GH, HH, MH	110	B32	60
		S2	60	B33	107
		D53A, B, E, L, P, S, U, V, AA, AB, AC, AE, AF, AG, AH, AP, AQ	107	B34	27
		S3C	113	B50	*93
		D54	27	B51	*104
		D100, D101	122	B100, B101, B102	*120
		D102	123	C100, C101, C102	*121
		E100, E101	124	D100, D101	*122
		E102	125	D102	*123
		GI	24	E100, E101	*124
		G2A	33	E102	*125
		G3A, D	30	W10	21
		G4A	18	W11	48
		T3	2		
CR7002-D3	30				
CR7005-A4, A5	30				
CR7006-B1A, B2A, B3A, B51A, B1R, L, B50	24				
B2B, B3B, B52A, B1G, H, B52	33				
B2C, B3C, B53, B62, B63	32				
B11A, B11B	105				
B61	60				
B64	19				
B100, B101, B102	120				
C100, C101, C102	121				
D7 (Except Form E)	30				
D7B	30				
D9 (150 A)	2				
D9 (300 A)	1				
CR7006-D12D, D12G	46				
(1) CR2810-1573C	23				
(1) CR2820-1097H	23				
CR7006-D12E	46				
(1) CR2810-1251K	23				
(1) CR2820-1097H	23				
CR7006-D16B	18				
D20	8				
D26 (All forms)	28				
D30 (All forms)	33				
D31 (Except Form A)	18				
D38 (Except Form K)	21				
D40 (All forms)	24				
D24A, B, C, D, G, H, J, M, P, AM, BD, BE, BF, BG, BH, BM, BS, BT, CK	24				
CR7006-D12D, D12G	46				
(1) CR2810-1573C	23				
(1) CR2820-1097H	23				
CR7006-D12E	46				
(1) CR2810-1251K	23				
(1) CR2820-1097H	23				
CR7006-D16B	18				
D20	8				
D26 (All forms)	28				
D30 (All forms)	33				
D31 (Except Form A)	18				
D38 (Except Form K)	21				
D40 (All forms)	24				
D24A, B, C, D, G, H, J, M, P, AM, BD, BE, BF, BG, BH, BM, BS, BT, CK	24				

* Two coils required.

† Refer to nearest G-E Apparatus Sales Office.

‡ Operating coil



A-c Coils

CR CONTROL TABLE (Cont'd)

Control	Coil Table No.	Control	Coil Table No.	Control	Coil Table No.
CR7761-F1 (DL-2233722) (1) CR2810-1553A..... (2) CR2810-1552B..... (1) CR2810-1343C..... (2) CR2810-1344T..... (1) CR2810-1343S.....	18 18 30 30 30	CR7896-A2 (DL-4389503) (2) CR2810-1352D..... (1) CR2820-1097M.....	30 23	CR7896-C2 (1) CR2810-1554A..... (1) CR2820-1097M.....	18 23
CR7761-F1 (DL-2249859) (1) CR2810-1353E..... (1) CR2810-1343B..... (2) CR2810-1343C..... (3) CR2820-1097D.....	30 30 30 23	CR7896-A2 (DL-4388522) (2) CR2810-1552A..... (1) CR2820-1097M.....	18 23	CR7896-C2 (DL-3889654) (2) CR2810-1562A..... (1) CR2810-1341D.....	21 30
CR7761-F1 (DL-2249860) (1) CR2810-1353L..... (1) CR2810-1343B..... (2) CR2810-1343C..... (3) CR2820-1097D.....	30 30 30 23	CR7896-A2 (DL-4388524) (2) CR2810-1553A..... (1) CR2820-1097M.....	18 23	CR7896-C2 (DL-3889656) (1) CR2810-1563A..... (1) CR2810-1564A..... (1) CR2810-1341D.....	21 21 30
CR7761-F1 (DL-2249746) (1) CR2810-1353E..... (1) CR2810-1344F..... (1) CR2810-1342C..... (1) CR2810-1343B..... (2) CR2820-1097D.....	30 30 30 30 23	CR7896-A2 (DL-3889650) (2) CR2810-1562A..... (1) CR2810-1341D.....	21 30	CR7896-C3 (DL-4388505) (1) CR2810-1352D.....	30
CR7761-F1 (DL-2249884) (1) CR2810-1553A..... (1) CR2810-1343C..... (1) CR2810-1552B..... (1) CR2810-1553B..... (3) CR2820-1097D.....	18 30 18 18 23	CR7896-A2 (DL-3889652) (2) CR2810-1563A..... (1) CR2810-1341D.....	21 30	CR7896-C3 (1) CR2810-1352E..... (1) CR2820-1097M.....	30 23
CR7761-L1 (DL-2241077) (1) CR7006-D40V..... (2) CR2820-1080Q..... (2) Contactor.....	24 26 33	CR7896-A3 (DL-4388501) (2) CR2810-1352D..... (1) CR2820-1097M.....	30 23	CR7896-C3 (DL-4388507) (1) CR2810-1353D..... (1) CR2810-1353E..... (1) CR2820-1097M.....	30 30 23
CR7761-L1 (DL-2249980) (1) CR7006-D40V..... (2) CR2820-1097M..... (2) Contactor.....	24 23 33	CR7896-A3 (DL-4388503) (2) CR2810-1353D..... (1) CR2820-1097M.....	30 23	CR7896-C3 (DL-4388509) (1) CR2810-1353D..... (1) CR2810-1354E..... (1) CR2820-1097M.....	30 30 23
CR7764-C1 (DL-2223154) (1) CR2810-1353D.....	30	CR7896-A3 (DL-4388521) (2) CR2810-1552A..... (1) CR2820-1097M.....	18 23	CR7896-C3 (DL-4388525) (2) CR2810-1552A..... (1) CR2820-1097M.....	18 23
CR7764-C1 (DL-2223155) (1) CR2810-1353D.....	30	CR7896-A3 (DL-4388523) (2) CR2810-1553A..... (1) CR2820-1097M.....	18 23	CR7896-C3 (DL-4388527) (2) CR2810-1553A..... (1) CR2820-1097M.....	18 23
CR7764-C1 (DL-2223156) (1) CR2810-1353D.....	30	CR7896-A3 (DL-3889651) (2) CR2810-1562A..... (1) CR2810-1341D.....	21 30	CR7896-C3 (DL-3889652) (1) CR2810-1553A..... (1) CR2810-1554A..... (1) CR2820-1097M.....	18 18 23
CR7764-C1 (DL-2223157) (1) CR2810-1353D.....	30	CR7896-C2 (DL-4388506) (1) CR2810-1352D..... (1) CR2810-1352E..... (1) CR2820-1097M.....	30 30 23	CR7896-C3 (DL-3889655) (2) CR2810-1562A..... (1) CR2810-1341D.....	21 30
CR7764-C1 (DL-2223158) (1) CR2810-222VV.....	2	CR7896-C2 (DL-4388508) (1) CR2810-1353D..... (1) CR2810-1353E..... (1) CR2820-1097M.....	30 30 23	CR7896-C3 (DL-3889657) (2) CR2810-1563A..... (1) CR2810-1341D.....	21 30
CR7764-H1 (DL-2237329) (1) CR2810-1353D.....	30	CR7896-C2 (DL-4388510) (1) CR2810-1353D..... (1) CR2810-1354E..... (1) CR2820-1097M.....	30 30 23	CR9516-458A, B, C, D, E, F..... 459A, B..... 460A, A1, B, C, D, E, F, H..... 461A, B, C, D, E..... 462A1, D..... 462L..... 463A1, D..... 464A1, D..... 465A1.....	14 16 16 42 40 42 40 43 43
CR7664-H1 (DL-2237339) (1) CR2810-1353D.....	30	CR7896-C2 (DL-4388526) (2) CR2810-1552A..... (1) CR2820-1097M.....	18 23	CR9522-A2C..... A2D..... A2E..... A2L..... A2N..... A2S..... A3D..... A3E.....	* 35 35 35 35 35 35 18 18
CR7664-J1 (DL-2249408) (1) CR7006-D30D.....	33	CR7896-C2 (DL-4388528) (2) CR2810-1553A..... (1) CR2820-1097M.....	18 23		
CR7764-J1 (DL-2249410) (1) CR7006-D40V.....	24	CR7896-C2 (DL-4388530) (1) CR2810-1553A.....	18		

* Two coils required. † Four coils required.



A-c Coils

COIL TABLES

All coils are continuously rated, and the voltage and the frequency apply only when they are used on the control listed on pages 73 to 76.

Table No.	60 CYCLES			
	110 Volts	220 Volts	440 Volts	550 Volts
	Cat. No.	Cat. No.	Cat. No.	Cat. No.
1	151283	151278	151279	151280
2	151445	151447	151448	151446
3	151835	151831	151827	177717
4	224816	151282	151286	151279
5	177721	177707	177708	Δ
6	197703	197703	197704	197705
7	(o) 224399	(b) 224400	(c) 224401	(d) 224402
8	22D23G20	22D23G26	22D23G22	22D23G23
9	3020277	3020278	3020279	3020277
10	3040681	3020402	(e) 3020402	(f) 3020402
11	3021161	3021089	3021175	3021370
12	(g) 3021522	(h) 3021364	(i) 3021515	(j) 3021520
13	3021529	3021743	3023894	3021716
14	3021571	3021145	3021704	3021751
15	(k) 22D63G3	Δ	(l) 22D63G3	3021581
16	3021713	3021090	3021580	3021581
17	3021703	3021752	3021753	3021754
18	3022114	3022115	3022116	3022117
19	3022233	3022234	3022235	3022236
20	3024141	3024142	3024143	3024144
21	3027743	3027744	3027745	3024219
22	(m) 22D109G2	(n) 22D109G2	(Δ) 22D109G2	Δ
23	22D2G33	22D2G34	22D2G6	22D2G11
24	22D2G5	22D2G4	22D2G4	22D2G5
25	22D95G5	(p) 22D95G5	(q) 22D95G14	(r) 22D95G14
26	22D3G2	22D3G3	22D3G4	22D3G5
27	1D38G2	1D38G2	1D38G4	1D38G5
28	22D3G52	22D3G46	22D3G49	22D3G12
29	22D8G6	22D8G7	22D8G8	22D8G5
30	22D15G2	22D15G3	22D15G4	22D15G5
31	22D15G21	22D15G17	22D15G20	22D15G4
32	22D15G50	22D15G51	22D15G52	22D15G53
33	22D23G2	22D23G3	22D23G4	22D23G5
34	22D23G20	22D23G19	22D23G22	22D23G23
35	22D92G1	22D92G2	22D92G3	22D92G4
36	22D26G2	22D26G3	22D26G4	22D26G5
37	22D37G2	22D37G4	22D37G3	22D37G9
38	22D47G2	22D47G6	Δ	Δ
39	22D72G2	22D72G3	22D72G4	22D72G5
40	(s) 3021736	(s) 3021094	(s) 3021730	(s) 3021738
41	(t) 3021735	(t) 3021135	(t) 3021731	(t) 3021737
42	(s) 3027812	(s) 3021312	(s) 3024171	(s) 3027907
43	(t) 3027870	(t) 3021313	(t) 3024172	(t) 3023869
44	(s) 3022146	(s) 3022082	(s) 3022148	(s) 3022150
45	(t) 3022145	(t) 3022081	(t) 3022147	(t) 3022149
46	(s) 3022198	(s) 3021107	(s) 3021715	(s) 3021914
47	(t) 3022197	(t) 3021712	(t) 3021717	(t) 3021915
48	Δ	(u) (s) 3021913	(v) (s) 3023801	(w) (s) 3023865
49	Δ	(u) (t) 3022197	(v) (t) 3021913	(w) (t) 3023802
50	Δ	(s) 3022324	(s) 3022325	(s) 3022327
51	(x) 22D63G6	(t) 3022184	(t) 3022326	(t) 3022328
52	(y) 22D63G7	(y) 22D63G7	(z) 22D63G7	(A) 22D63G7
53	(B) 22D63G12	(C) 22D63G12	(D) 22D63G8	(E) 22D63G8
	(F) 22D63G3	(G) 22D63G3	(H) 22D63G3	(I) 22D63G3
	(J) 22D2G26	(K) 22D2G27	(L) 22D2G28	(M) 22D2G29
	22D2G31	22D2G32	22D2G29	22D2G6
	3028173	3028174	3028175	3027757
	22D15G94	(O) 22D15G81	(P) 22D15G89	(Q) 22D15G95
	22D80G7	(R) 22D80G4	(S) 22D80G4	(U) 22D80G4

For notes applying to Coil Tables, see pages 79 and 80.

For prices, see pages 81 and 82.



A-c Coils

COIL TABLES

Table No.	60 CYCLES			
	110 Volts Cat. No.	220 Volts Cat. No.	440 Volts Cat. No.	550 Volts Cat. No.
54	(V) 22D91G6	(W) 22D91G5	(X) 22D91G7	(Y) 22D91G7
55	(Z) 22D84G4	(oo) 22D84G3	(bb) 22D84G3	(cc) 22D84G3
56	(p) 22D95G5	(p) 22D95G5	(q) 22D95G6	(dd) 22D95G6
57	(ee) 22D88G4	(ff) 22D88G3	(gg) 22D88G5	(hh) 22D88G5
58	1D10G30	1D10G31	1D10G32	1D10G32
59	22D112G2	(ii) 22D118G3	(iii) 22D118G3	(kk) 22D118G3
60	3024113	22D112G3	22D112G4	22D112G5
61		3021703	3021752	3021759
62	224399	224400	224401	224402
63	189684	189681	189683	189685
64	22D82G95	22D82G96	22D82G97	22D82G98
65	22D95G5	(ll) 22D95G5	(mm) 22D95G5	(nn) 22D95G5
66	235304	235305	(oo) 235305	(pp) 235305
67	3020634	3020635	(qq) 3020956	3020637
68	22D2G21	22D2G22	3020636	22D2G24
69			22D2G23	
70	3021322	3021321	3021311	3021323
71	3027957	3027957	3028010	3027959
72	(rr) 22D3G2	(ss) 22D3G3	(tt) 22D3G4	(uu) 22D3G5
73	22D2G69	22D2G168	22D2G169	22D2G170
74	22D2G69	22D2G70	22D2G71	22D2G72
75	22D2G236	22D2G237	22D2G217	22D2G170
76	22D2G69	(C) 22D84G6	(D) 22D84G3	22D2G72
77				22D2G170
78	22D2G2	22D2G3	22D2G4	22D2G72
79	22D15G21	22D15G17	22D15G20	22D2G170
80	151453	151452	151451	22D15G16
81	3027792	177707	177715	151448
82	3027771	3024141	3024142	151827
83	3040662	3040662	3040689	22D8G26
84	177721	177707	177708	
85	22D8G28	22D8G24	22D8G5	
86	3020918	3020917	3020970	3020971
87	3021955	177711	151829	177708
88	22D80G8	(vv) 22D80G8	(ww) 22D80G8	22D80G8
89	(xx) 3021522	(yy) 3021364	(zz) 3021515	3021520
90	(AA) 3199226	(BB) 3199227	(a) 3199228	(CC) 3199229
91	(DD) 3199077	(EE) 3199078	(FF) 3199079	(GG) 3199080
92		(HH) 3022184	(HH) 3022326	(HH) 3022328
93	22D103G2	(II) 3022324	(II) 3022325	(II) 3022327
94	22D15G23	22D103G3	22D103G4	22D103G5
95	22D3G61	(JJ) 22D15G24	(KK) 22D80G7	22D15G9
96		22D3G2	22D3G3	22D3G47
97	(J) 22D2G295	(K) 22D2G54	(LL) 22D2G296	(M) 22D2G140
98	22D93G5	(MM) 22D95G19	(NN) 22D95G19	22D93G5
99	(OO) 3028033	(PP) 3027752	(QQ) 3027753	(RR) 3027745
100		(SS) 22D94G7	(TT) 22D94G7	(UU) 22D94G7
101	22D47G52	22D78G3	22D78G4	22D78G5
102	22D82G2	22D82G3	22D82G4	22D82G5
103		22D82G103	22D82G104	22D82G105
104	22D82G102	22D103G203	22D103G204	22D103G205
105	1D34G2	1D34G3	1D34G4	1D34G5
106	224400	224401	224391	224392
107		3021175	3021370	3021370
108	3021161	22D82G303	22D82G304	22D82G305
109	22D82G202	22D82G203	22D82G204	22D82G205
110		1D34G103	1D34G104	1D34G105
111	1D34G102	22D103G103	22D103G104	22D103G105
112	22D103G102	22D103G303	22D103G304	22D103G305
113	22D112G102	22D112G103	22D112G104	22D112G105
114		22D135G2	22D135G4	22D135G5
115	22D135G102	22D135G103	22D135G104	22D135G105
116	22D155G2	22D155G3	22D155G4	22D155G5
117	22D151G2	22D151G3	22D151G4	22D151G5
118		22D156G3	22D156G4	22D156G5
119	22D156G102	22D156G103	22D156G104	22D156G105
120	22D153G2	22D153G3	22D153G4	22D153G5
121	22D153G102	22D153G103	22D153G104	22D153G105
122	1D38G102	1D38G103	1D38G104	1D38G105

For notes applying to Coil Tables, see pages 79 and 80.

For prices, see pages 81 and 82.



A-c Coils

NOTES APPLYING TO COIL TABLES ON PAGES 77 AND 78.

- ⊕ Two (2) coils required.
- † Coil dimensions, approx. 3 in. diameter, 3 3/8 in. long.
- φ Coil dimensions, approx. 3 in. diameter, 1 1/4 in. long.
- † When new layer-wound coil (22D26 series) is used for the first time on CR1034 compensators, replacing old spool-body coil, a washer, Cat. No. 2236756, and Tag GEJ-348 are also required.
- π Set of parts Cat. No. 4906422G4 and Tag GEJ-363 also required when new layer-wound coil (22D2 series) replaces old spool-body coil for the first time.
- ◆ When new layer-wound coils (22D3 series) are used on the following devices for first time, replacing the old spool-body coil, the following additional parts are required:
- For CR2940-BS82 push button
CR7006-B19 switch
CR 9503-A and C solenoid
- Set of Parts, Cat. No. 4906422G1
- For CR9503-B solenoid—Set of Parts, Cat. No. 4906422G2
- For CR2820-1080 relay
CR9503-D solenoid
CR7006-D26 switch
- Set of Parts, Cat. No. 4906422G3
- § When new layer-wound coil (22D15 series) is used for the first time, replacing old spool-body coil, a washer, Cat. No. 1445425, is also required.
- △ Refer to nearest G-E office.
- When new layer-wound coil (22D23 series) is used for the first time replacing old spool-body, (2) spring clips Cat. No. 2243767 and Instructions Tag GEJ-649 are required.
- ⊕ Layer-wound coils for CR2810-1245 and CR2810-1265 contactors have same catalog numbers as old-style coils. With every layer-wound coil for these contactors, a washer, Cat. No. 2236568 is required.
- †† Terminal coils only.
- φφ Terminal coils for 5 poles.
- †† Lead coils for 5 poles.
- ππ When new layer-wound coils (22D3 series) replace old spool-wound body for the first time, set of parts Cat. No. 4906422G1, and Instruction Tag GEJ-363 are required.
- ◆◆ Terminal coils for 4 poles.
- §§ When ordering coils in the 1D10 or 22D112 series for CR2810, CR2811, and CR7006 Size 2 contactors and magnetic switches, an equal number of rubber coil pads Cat. No. 5384145P10 should also be ordered on a no-charge basis.
- △△ Lead coils for (4) poles.
- (a) Requires 100-ohm, 80-watt resistor.
- (b) Requires 400-ohm, 80-watt resistor.
- (c) Requires 1600-ohm, 80-watt resistor.
- (d) Requires 2500-ohm, 80-watt resistor.
- (e) Requires 3000-ohm, 45-watt resistor in series.
- (f) Requires 5000-ohm, 50-watt resistor in series.
- (g) Requires QFK-2673118 250-ohm resistor.
- (h) Requires QFK-2673118 1000-ohm resistor.
- (i) Requires QFK-2673118 4000-ohm resistor.
- (j) Requires QFK-2673118 5000-ohm resistor.
- (k) Requires (1) 50-watt holding resistor, 100 ohms, and (2) 6RC3K270 rectifiers.
- (l) Requires (1) 120-watt holding resistor, 1000 ohms, and (1) 50-watt pickup resistor, 75 ohms, and (2) 6RC3K270 rectifiers.
- (m) Requires (1) QLK2673227G1 dropout resistor, 40 ohms, and (1) 6RC3K256 rectifier.
- (n) Requires (1) QLK2673227G1 pickup resistor, 65 ohms, and (1) QLK2673227G1 dropout resistor, 115 ohms, and (1) 6RC3K256 rectifier.
- (o) Requires (1) QLK2673227G1 pickup resistor, 150 ohms, and (1) QLK2673227G1 dropout resistor, 250 ohms, and (1) 6RC3K256 rectifier.
- (p) Requires (4) 6RC3B259 rectifiers.
- (q) Requires (4) 6RC3B296 rectifiers.
- (r) Requires (1) 60-watt resistor (series), 300 ohms, and (4) 6RC3B296 rectifiers.
- (s) Upper coil.
- (t) Lower coil.
- (u) Requires (1) 2828021AF201 solenoid tripping coil.
- (v) Requires (1) 2828021AF203 solenoid tripping coil.
- (w) Requires (1) 2828021AF204 solenoid tripping coil.
- (x) Requires (1) QDK1924016 holding resistor, 160 ohms, and (1) 6RC3Y113 rectifier.
- (y) Requires (1) QDK1924016 holding resistor, 600 ohms, and (1) 6RC3Y111 rectifier.
- (z) Requires (1) QDK1924016 holding resistor, 2400 ohms, and (1) 6RC3Y111 rectifier.
- (A) Requires (1) QDK1924016 holding resistor, 3200 ohms, and (1) QDK1924016 pickup resistor, 100 ohms, and (1) 6RC3Y111 rectifier.
- (B) Requires (1) QDK2673249 holding resistor, 100 ohms, and (4) 6RC3K255 rectifiers.
- (C) Requires (1) QDK2673249 holding resistor, 400 ohms, and (4) 6RC3B265 rectifiers.
- (D) Requires (1) QDK2673249 holding resistor, 1600 ohms, and (4) 6RC3B265 rectifiers.
- (E) Requires (1) QDK2673249 holding resistor, 1800 ohms, and (1) QDK2673249 pickup resistor, 75 ohms, and (4) 6RC3B265V rectifiers.
- (F) Requires (1) 25-watt holding resistor, 175 ohms, and (2) 6RC3K250 rectifiers.
- (G) Requires (1) 80-watt holding resistor, 700 ohms, and (2) 6RC3K250 rectifiers.
- (H) Requires (1) 120-watt holding resistor, 1500 ohms, and (1) 25-watt pickup resistor, 90 ohms, and (2) 6RC3B270 rectifiers.
- (I) Requires (1) 120-watt holding resistor, 1800 ohms, and (1) 150-watt pickup resistor, 135 ohms, and (2) 6RC3B270 rectifiers.
- (J) Requires (1) QCK2673150G3 resistor, 200 ohms.
- (K) Requires (1) QCK2673150G3 resistor, 800 ohms.
- (L) Requires (1) QCK2673150G3 resistor, 3000 ohms.



A-c Coils

NOTES APPLYING TO COIL TABLES ON PAGES 77 AND 78 (Cont'd)

- (M) Requires (1) QCK2673150G3 resistor, 5000 ohms.
- (N) Requires (1) QLK2673227G1 resistor, 60 ohms, and (1) 6RC3K245 rectifier.
- (O) Requires (1) QLK2673227G1 resistor, 250 ohms, and (1) 6RC3B260 rectifier.
- (P) Requires (1) QLK2673227G1 resistor, 1000 ohms, and (1) 6RC3B291 rectifier.
- (Q) Requires (1) QLK2673227G1 resistor, 1500 ohms, and (1) 6RC3B277 rectifier.
- (R) Requires (1) QDK2673249 holding resistor, 350 ohms, and (1) 6RC3K266 rectifier.
- (S) Requires (1) QDK2673249 holding resistor, 1500 ohms, and (2) 6RC3B286 rectifiers.
- (T) Requires (1) QDK2673249 holding resistor, 3000 ohms, and (1) QDK2673249 pickup resistor, 500 ohms, and (2) 6RC3B286 rectifiers.
- (U) Requires (1) QDK2673249 holding resistor, 3500 ohms, and (1) QDK2673249 pickup resistor, 800 ohms, and (2) 6RC3B286 rectifiers.
- (V) Requires (1) QLK2673259G1 dropout resistor, 75 ohms, and (2) 6RC3Y195 rectifiers.
- (W) Requires (1) QLK2673259G1 dropout resistor, 300 ohms, and (2) 6RC3K261 rectifiers.
- (X) Requires (1) QLK2673259G1 dropout resistor, 1200 ohms, and (2) 6RC3B274 rectifiers.
- (Y) Requires (1) QLK2673259G1 dropout resistor, 1600 ohms, (1) QLK2673259G1 pickup resistor, 65 ohms, and (2) 6RC3B274 rectifiers.
- (Z) Requires (1) QDK2673249 holding resistor, 175 ohms, and (1) 6RC3K248 rectifier.
- (aa) Requires (1) QDK2673249 holding resistor, 800 ohms, and (2) 6RC3B265 rectifiers.
- (bb) Requires (1) QDK2673249 holding resistor, 1700 ohms, and (1) QDK2673249 pickup resistor, 230 ohms, and (2) 6RC3B265 rectifiers.
- (cc) Requires (1) QDK2673249 holding resistor, 2100 ohms, and (1) pickup resistor, 350 ohms, and (2) 6RC3B265 rectifiers.
- (dd) Requires (1) QDK2673249 resistor, 300 ohms, and (4) 6RC3B296 rectifiers.
- (ee) Requires (1) QLK2673259G1 resistor, 75 ohms, and (4) 6RC3Y195 rectifiers.
- (ff) Requires (1) QLK2673259G1 resistor, 300 ohms, and (4) 6RC3K261 rectifiers.
- (gg) Requires (1) QLK2673259G1 resistor, 1200 ohms, and (4) 6RC3B274 rectifiers.
- (hh) Requires (1) QLK2673259G1 resistor, 1600 ohms, and (1) QLK2673259G1 pickup resistor, 50 ohms, and (4) 6RC3B274 rectifiers.
- (ii) Requires (1) QDK2673249 holding resistor, 400 ohms, and (1) 6RC3Y111 rectifier.
- (jj) Requires (1) QDK2673249 holding resistor, 1600 ohms, and (1) 6RC3Y111 rectifier.
- (kk) Requires (1) QDK2673249 holding resistor, 1800 ohms, and (1) QDK2673249 pickup resistor, 50 ohms, and (1) 6RC3Y111 rectifier.
- (ll) Requires (1) QDK2673249 holding resistor, 350 ohms, and (4) 6RC3B264 rectifiers.
- (mm) Requires (2) QDK2673249 holding resistors, 90 ohms, and (4) 6RC3K260 rectifiers.
- (nn) Requires (1) QDK2673249 holding resistor, 1500 ohms, and (4) 6RC3B265 rectifiers.
- (oo) Requires (1) 25 watt series resistor, 2200 ohms.
- (pp) Requires (1) 25 watt series resistor, 2800 ohms.
- (qq) Requires (2) 25 watt series resistors, 250 ohms.
- (rr) Requires (1) QFK1924003 series resistor, 350 ohms.
- (ss) Requires (1) QFK1924003 series resistor, 1000 ohms.
- (tt) Requires (1) QFK1924003 series resistor, 4000 ohms.
- (uu) Requires (1) QFK1924003 series resistor, 6000 ohms.
- (vv) Requires (1) QDK2673249 holding resistor, 600 ohms, and (2) 6RC3B280 rectifiers.
- (ww) Requires (2) QDK2673249 holding resistors, 750 ohms, and (1) QDK2673249 pickup resistor, 140 ohms, and (2) 6RC3B280 rectifiers.
- (xx) Requires (1) 25 watt resistor, 125 ohms, if used for thermostatic control.
- (yy) Requires (1) 25 watt resistor, 500 ohms, if used for thermostatic control.
- (zz) Requires (1) 25 watt resistor, 2000 ohms, if used for thermostatic control.
- (AA) Requires (1) 80 watt series resistor, 6.5 ohms.
- (BB) Requires (1) 80 watt series resistor, 25 ohms.
- (CC) Requires (1) 80 watt series resistor, 150 ohms.
- (DD) Requires (1) 55 watt series resistor, 2 ohms.
- (EE) Requires (1) 55 watt series resistor, 8.5 ohms.
- (FF) Requires (1) 55 watt series resistor, 35 ohms.
- (GG) Requires (1) 55 watt series resistor, 54 ohms.
- (HH) Bottom coil of set of (2) coils.
- (II) Top coil of set of (2) coils.
- (JJ) Requires (1) 75 watt holding resistor, 300 ohms, and (2) 6RC3B259 rectifiers.
- (KK) Requires (1) 150 watt holding resistor, 600 ohms, and (1) 38 watt pickup resistor, 150 ohms, and (2) 6RC3B259 rectifiers.
- (LL) Requires (1) QCK2673150G3 resistor, 3200 ohms.
- (MM) Requires (2) QDK2673249 holding resistors, 90 ohms, and (4) 6RC3K260 rectifiers.
- (NN) Requires (2) QDK2673249 holding resistors, 350 ohms, and (4) 6RC3B264 rectifiers.
- (OO) Requires (1) QDK2673249 holding resistor, 1000 ohms, and (1) 6RC3K260 rectifier.
- (PP) Requires (1) QDK2673249 holding resistor, 2000 ohms, and (1) QDK2673249 pickup resistor, 600 ohms, and (1) 6RC3K260 rectifier.
- (QQ) Requires (1) QDK2673249 holding resistor, 4000 ohms, and (1) QDK2673249 pickup resistor, 1800 ohms, and (1) 6RC3K260 rectifier.
- (RR) Requires (1) QDK2673249 holding resistor, 5000 ohms, and (1) QDK2673249 pickup resistor, 2500 ohms, and (1) 6RC3K260 rectifier.
- (SS) Requires (1) 6RC3K263 rectifier.
- (TT) Requires (1) QLK2673287 pickup resistor, 100 ohms, and (1) QLK2673287 dropout resistor, 1200 ohms, and (1) 6RC3K263 rectifier.
- (UU) Requires (1) QLK2673287 pickup resistor, 160 ohms, and (1) QLK2673287 dropout resistor, 1800 ohms, and (1) 6RC3K263 rectifier.



A-c Coils

COIL INDEX AND PRICES

When referring to the coil tables for any of the following catalog numbers, the control nomenclature must also be checked before the voltage for the coil can be determined:

Coil, Cat. No.	Coil Table No.	List Price, Each GO-11	Coil, Cat. No.	Coil Table No.	List Price, Each GO-11	Coil, Cat. No.	Coil Table No.	List Price, Each GO-11	Coil, Cat. No.	Coil Table No.	List Price, Each GO-11
151278	1		3021321	70		3024141	20, 82		22D2G23	69	
151279	1, 4		3021322	70	\$22.00	3024142	20, 82		22D2G24	69	
151280	1		3021323	70		3024143	20	\$12.00	22D2G26	49	
151282	4								22D2G27	49	
151283	1		3021364	12, 89	8.40	3024144	20				
151286	4		3021370	11, 109	11.00	3024171	41		22D2G28	49	
151445	2	\$34.00				3024172	41		22D2G29	49, 50	
151446	2		3021515	12, 89					22D2G31	50	
151447	2		3021520	12, 89		3024219	21	17.00	22D2G32	50	
151448	2, 80		3021522	12, 89	8.40						
151451	80		3021529	13		3027743	21		22D2G33	23	
151452	80					3027744	21		22D2G34	23	
151453	80		3021571	14	8.40	3027745	21		22D2G54	97	
151827	3, 81, 84		3021580	16	12.00	3027752	100	17.00	22D2G69	73, 74, 76	\$7.20
151829	87		3021581	16							
151831	3		3021703	17, 61	8.40	3027753	100		22D2G70	74	
151835	3		3021704	14		3027754	100		22D2G71	74	
177707	5, 81, 84	50.00				3027757	50		22D2G72	74	
177708	5, 84, 87		3021712	43	31.00				22D2G140	97	
177711	87		3021713	16	12.00	3027771	82	12.00			
177715	81		3021715	43	31.00	3027772	82		22D2G168	73, 76	
177717	3		3021716	13	8.40				22D2G169	73, 76	
177721	5, 84		3021717	43	31.00	3027792	81	50.00	22D2G170	73, 75	
189681	63	15.00				3027812	41		22D2G217	75	
189683	63		3021730	40		3027870	41	12.00	22D2G236	75	
189684	63		3021731	40		3027907	41		22D2G237	75	
189685	63		3021735	40	17.00				22D2G295	97	
197702	6	22.00	3021736	40		3027957	71	8.40	22D2G296	97	
197703	6		3021737	40		3027958	71				
197704	6		3021738	40		3027959	71		22D3G2	26, 72, 96	
197705	6					3028010	71		22D3G3	26, 72, 96	
224391	108		3021743	13	8.40				22D3G4	26, 72	
224392	108		3021751	14		3028033	100	17.00	22D3G5	26, 72	
224399	7, 62	12.00				3028173	51		22D3G12	28	5.30
224401	7, 62, 108		3021752	17, 61	8.40	3028174	51		22D3G16	28	
224402	7, 62		3021753	17		3028175	51		22D3G46	28	
224816	4	34.00	3021754	17					22D3G47	28	
235304	66	11.50	3021759	61		3040662	83	110.00	22D3G49	28	
235305	66					3040681	10	4.30	22D3G52	28	
3020277	9	29.00	3021913	44		3040689	83	110.00	22D3G61	28	
3020278	9		3021914	43	31.00				22D8G5	29, 85	
3020279	9		3021915	43		3199077	91	22.00	22D8G6	29	
3020402	10	4.30				3199078	91		22D8G7	29	
3020634	68	15.00	3021955	87	50.00	3199079	91		22D8G8	29	8.40
3020635	68					3199080	91				
3020636	68		3022081	42	11.00				22D8G24	85	
3020637	68		3022082	42		3199226	90	17.00	22D8G26	85	
3020687	83	110.00	3022114	18		3199227	90		22D8G28	85	
3020917	86	17.00	3022115	18	22.00	3199228	90		22D15G2	30	
3020918	86		3022116	18		3199229	90		22D15G3	30	
3020957	9	29.00	3022117	18					22D15G4	30, 31	
3020970	86	17.00	3022145	42		1D10G30	58	11.00	22D15G5	30	
3020971	86		3022146	42		1D10G31	58		22D15G9	94	
3021089	11, 109	11.00	3022147	42	11.00	1D10G32	58		22D15G16	79	
3021090	16	12.00							22D15G17	31, 79	
3021094	40	17.00	3022148	42		1D34G2	107		22D15G20	31, 79	
3021107	43	31.00	3022149	42		1D34G3	107		22D15G21	31, 79	
3021135	40	17.00	3022150	42		1D34G4	107		22D15G23	94	14.00
3021145	14	8.40				1D34G5	107		22D15G24	94	
3021161	11, 109	11.00	3022184	45, 92					22D15G27	94	
3021175	11, 109		3022197	43, 44	31.00	1D34G102	113	24.00	22D15G50	32	
3021311	70	22.00	3022198	43		1D34G103	113		22D15G51	32	
3021312	41	12.00				1D34G104	113		22D15G52	32	
3021313	41		3022233	19	22.00	1D34G105	113		22D15G53	32	
			3022234	19					22D15G81	52	
			3022235	19		1D38G2	27		22D15G89	52	
			3022236	19		1D38G3	27		22D15G94	52	
						1D38G4	27		22D15G95	52	
			3022324	45, 92		1D38G5	27				
			3022325	45, 92					22D23G2	33	
			3022326	45, 92					22D23G3	33	
			3022327	45, 92	31.00				22D23G4	33	
									22D23G5	33	
			3022328	45, 92		22D2G2	24, 78	7.20	22D23G19	34	8.40
			30223801	44		22D2G3	24, 78		22D23G20	8, 34	
			30223802	44		22D2G4	24, 78		22D23G22	8, 34	
						22D2G5	24		22D23G23	8, 34	
			3022385	44					22D23G26	8	
			3022389	41	12.00	22D2G6	23, 50				
			3022394	13	8.40	22D2G11	23				
			3024113	61	8.40	22D2G21	69				
						22D2G22	69				



A-c Coils

COIL INDEX AND PRICES

When referring to the coil tables for any of the following catalog numbers, the control nomenclature must also be checked before the voltage for the coil can be determined.

Coil, Cat. No.	Coil Table No.	List Price, Each GO-11	Coil, Cat. No.	Coil Table No.	List Price, Each GO-11	Coil, Cat. No.	Coil Table No.	List Price, Each GO-11	Coil, Cat. No.	Coil Table No.	List Price, Each GO-11
22D26G2	36	\$12.00	22D82G95	64	\$36.00	22D95G5	25, 56, 65	\$6.80	22D135G2	118	\$6.80
22D26G3	36		22D82G96	64		22D95G6	56		22D135G3	118	
22D26G4	36		22D82G97	64		22D95G14	25		22D135G4	118	
22D26G5	36		22D82G98	64		22D95G19	98		22D135G5	118	
22D37G2	37	6.20	22D82G102	105	\$ 7.00	22D103G2	93	\$ 7.00	22D135G102	119	\$ 7.00
22D37G3	37		22D82G103	105		22D103G3	93		22D135G103	119	
22D37G4	37		22D82G104	105		22D103G4	93		22D135G104	119	
22D37G9	37		22D82G105	105		22D103G5	93		22D135G105	119	
22D47G2	38	2.10	22D82G202	111	7.20	22D103G102	115	7.20	22D151G2	121	9.00
22D47G6	38		22D82G203	111		22D103G103	115		22D151G3	121	
22D47G52	102		22D82G204	111		22D103G104	115		22D151G4	121	
			22D82G205	111		22D103G105	115		22D151G5	121	
22D63G3	15, 48	46.00	22D82G302	110	20.00	22D103G202	106	20.00	22D153G2	124	26.50
22D63G6	46		22D82G303	110		22D103G203	106		22D153G3	124	
22D63G7	46		22D82G304	110		22D103G204	106		22D153G4	124	
22D63G8	47		22D82G305	110		22D103G205	106		22D153G5	124	
22D72G2	39	6.20	22D84G3	55, 57	36.00	22D103G302	116	36.00	22D153G102	125	7.90
22D72G3	39		22D84G4	55		22D103G303	116		22D153G103	125	
22D72G4	39		22D84G6	77		22D103G304	116		22D153G104	125	
22D72G5	39					22D103G305	116		22D153G105	125	
22D78G2	103	11.00	22D88G3	57	34.00	22D109G2	22	11.00	22D155G2	120	12.00
22D78G3	103		22D88G4	57		22D112G2	60		22D155G3	120	
22D78G4	103		22D88G5	57		22D112G3	60		22D155G4	120	
22D78G5	103					22D112G4	60		22D155G5	120	
22D80G4	53	42.00	22D91G5	54	7.20	22D112G5	60	7.20	22D156G2	122	12.00
22D80G7	53, 95		22D91G6	54		22D112G102	117		22D156G3	122	
22D80G8	88		22D91G7	54		22D112G103	117		22D156G4	122	
						22D112G104	117		22D156G5	122	
22D82G2	104	7.00	22D92G1	35	34.00	22D118G3	59	42.00	22D156G102	123	42.00
22D82G3	104		22D92G2	35					22D156G103	123	
22D82G4	104		22D92G3	35					22D156G104	123	
22D82G5	104		22D92G4	35					22D156G105	123	
			22D93G5	99							
			22D94G7	101	50.00						



D-c Coils

To determine the catalog number of the coil for any specific CR control, refer to the CR Control Table (below), which indicates the Coil Table number on pages 87-90 for each device. The coil catalog number for the proper voltage can then be selected.

The root catalog number only is given in the CR Control Table. All devices with the same root catalog number require the same coils.

If a coil is required for a device not listed in the CR Control Table, order by catalog number stamped on coil.

CR CONTROL TABLE

Control	Coil Table No.	Control	Coil Table No.	Control	Coil Table No.
CR1003		CR1224-B1		CR2800 (Cont'd)	
Root Cat. No. 2021000	1	Root Cat. No. 2202025	9	1119-A-AR (Except M)	79
2021100	2	2202108	9	1120-A-H	33
2042440	1	2202622	10	1121-A-AJ (Except V)	80
		2202653	9	1121-V	34
2042593	3			1122-A	55
2046400	1	2202654	9	1122-B-K, M-R	56
2046402	1	2202655	9	1122-S	25
2046828	1	2204987	9	1123-A-L	83
		2207042	9		
2091686	5			1124-A-CH (Except L, S)	75
2091687	6	2207781	11	1124-S	84
2091688	7	2208754	78	1125-A-G	75
2091689	8	2208755	79	1126-A-R	85
		2208756	80		
2091690	8			1127-A-AE (Except G)	85
2091691	5	2208758	10	1128-A-BE (Except J)	85
2284840	88	2296152	78	1129-A-V, AA-AJ	85
2284841	91	2296153	79	1130-A-W	85
2284842	56	2296154	80		
				1131-A-BB, BD (Except J)	85
CR1203		CR2800-184-A-U	66	1132-A-BE	85
Root Cat. No. 2046956	4	185-D-T	67	1133-A	75
2046957	4	186-B-W	68	1134-A-J	75
2091100	4	225-A-V (Except B)	70		
2091101	4			1135-A-BG (Except G)	85
2091102	1	309-A, B, C	70	1137-A, B, D-P, AB	85
2091103	4	310-A-F	108	1138-A-CU (Except N and AG)	85
2091105	4	311-A-F	82		
2091107	4	313-A	47	1139-A	
				1142-A-AD	
2091111	4	313-B, C	70	1143-A-M	85
2091112	3	313-A, D, E, F, G	70	1144-A-N	
2202694	9	314-B-C	59		
2202772	4	315-A, B, C	82	1145-A-BH	
				1147-A, B, C	103
2202773	4	324-E, R, FF	47	1148-A-E	103
2204942	4	333-A	19	1149-A	103
2204943	4	333-B	20		
2248431	4	334-A	19	1150-A, B	40
				1161-A-M	118
CR1220-B1		334-B	20	1162-A-E	116
Root Cat. No. 2202689	9	1101-A	53	1170-A-U, W-AS, BK, BL, BM	86
2202690	9				
2202691	9	1101-B, C	50	1170-AT-AW, BA-BJ, BN	76
2202692	9	1102-A	51	1170-BP, BQ, BR	110
		1102-B, C	52	1172-C-AG, AN, AP, AQ	87
2202693	9	1105-A-K	71	1172-AH-AM, AS	115
2202698	10				
2007043	9	1106-B-E, G, K, N, P	30	1172-AR, AT	90
2208576	78	1107-B, C, D, F, H, L, Q, R	72	1173-C-F	88
		1108-B, -E, H, J, K	73	1173-G-S	35
2208577	79	1109-B-E	74		
2208578	80			1174-C-L	88
2208579	9	1112-A-HJ (Except D, G, H, BJ, DF, DM, DQ)	75	1174-M-R	94
2208730	79	1114-A-L	75	1174-V, W	97
		1115-A-AW (Except AS)	85	1175-C, D	91
2208757	11				
2296148	78	1115-AS	77		
2296149	79	1116-A, B, C	31		
2296150	80	1117-A-AD (Except G)	78		
2296151	79	1118-A-M	32		



D-c Coils

CR CONTROL TABLE (Cont'd)

Control	Coil Table No.	Control	Coil Table No.	Control	Coil Table No.
CR2800 (Cont'd)		CR2801-E5A		CR4052-A1A	
1175-E, F, G, H, L	92	Root Cat. No. 4985709		A1L	63
1175-K, P	42	(1) CR2800-1174-D	88	A2A	
1176-C, H, K, S	91	CR2801-E5C		A2L	
1176-J, V, AG	36	Root Cat. No. 4985708		CR4061-A1B	
1178-A, C, D, F	93	(1) CR2800-1174-D	88	Root Cat. No. 4389976	
1178-B, E	37	CR2801-E5E		(1) CR2800-1129-A	85
1178-J, K	45	Root Cat. No. 4985711		(2) CR2800-1716-B	106
1180-A, B, D, F, J	38	(2) CR2800-1174-D	88	CR4061-A1B	
1180-C, E, H, K	39	CR2801-E5G		Root Cat. No. 5367125	
1183-A, F	78	Root Cat. No. 4985710		CR2800-1129-A	85
1610-B, F		(2) CR2800-1174-D	88	CR2800-1716-B	106
1611-B, G		CR2801-E6A		CR4061-A2A	
1612-B, J	95	Root Cat. No. 4985713		Root Cat. No. 5367128	
1613-B, H		(1) CR2800-1176-D	91	CR2800-1124-AV	75
1614-B, F		CR2801-E6C		CR2800-1716-E	106
1615-B, H		Root Cat. No. 4985712		CR4061-A2C	
1616-A		(1) CR2800-1176-D	91	Root Cat. No. 5367129	
1620-B, G		CR2801-E6E		CR2800-1127-D	85
1621-B, H		Root Cat. No. 4985715		CR2800-1716-B	106
1622-B, J	86	(2) CR2800-1176-D	91	CR4061-A3A	
1623-B, H		CR2801-E6G		Root Cat. No. 5367130	
1624-B, G		Root Cat. No. 4985714		CR2800-1112-BM	75
1625-B, K		(2) CR2800-1176-D	91	CR2800-1716-E	106
1626-B		CR2801-E1A		CR4061-A3C	
CR2801-E1A		Root Cat. No. 4981940		Root Cat. No. 5367131	
(1) CR2800-1112-DE	75	1013-D	95	(2) CR2800-1127-D	85
CR2801-E1C		1013-L	96	(2) CR2800-1129-A	85
Root Cat. No. 4981946		1033-A-P (Except J, N)	98	(3) CR2800-1716-B	106
(1) CR2800-1112-DE	75	1035-A-AD (Except D, E, F, G, Q, U, V)	104	CR4061-B1B	
CR2801-E2A		1047-A-L	101	Root Cat. No. 4981020	
Root Cat. No. 4981941		1054-A-JQ (Except BJ, BN, CX-DD, DH, ES, ET, FK, GL, HM, HS, JM, JN, JR, JU, HW, HT)	41	CR2800-1129-A	85
(1) CR2800-1112-DH	75	1054-BJ, BN, ES, ET	102	CR2800-1716-B	106
CR2801-E2C		1062-P	114	CR4065-A1	
Root Cat. No. 4981947		1068-F, G, K, L, AD (Lockout)	22	Root Cat. No. 3651115	57
(1) CR2800-1112-DH	75	1076-F, G, H, J, K, Q, R, S, T, U, AL, AM, AN, AP, AQ, AR, AS, AT, AU	43	CR4065-A2	
CR2801-E2E		1080-M, N, U, V	21	Root Cat. No. 3650393	57
Root Cat. No. 4981942		1081 (Lockout coil)	44	3650396	15
(2) CR2800-1112-DH	75	1088-A-AG	103	CR4065-A3	
CR2801-E2G		1092-A, B, C, D, E, F, G, H, S, T, U, V, W, AA	43	Root Cat. No. 3652785	58
Root Cat. No. 4981948		1092 (Lockout coil)	22	CR4065-A8	
(2) CR2800-1112-DH	75	1097-A-BB	23	Root Cat. No. 3883843	58
CR2801-E3A		1097-B, C, D, G, DP, DQ, DR, DV, DW, EE, EG, HD	12	CR4065-B2	
Root Cat. No. 4985701		1097-FP, GW, HA	24	Root Cat. No. 3656362	17
(1) CR2800-1115-R	85	1071-A-M	104	3656895	16
CR2801-E3C		1709-A	95	CR4065-C1 or C2	
Root Cat. No. 4985700		1713-B	46	Root Cat. No. 2237991	
(1) CR2800-1115-R	85	1716-A-E	106	(1) CR2800-1076-AR	43
CR2801-E3E		1729-All (D-c Forms)	43	(2) CR2800-1117-B	78
Root Cat. No. 4985703				(2) CR2800-1115-T	79
(2) CR2800-1115-D	5			(1) CR2800-1117-A	78
CR2801-E3G				(1) CR2800-1119-B	79
Root Cat. No. 4985702				CR4065-C1 or C2	
(1) CR2800-1115-D	85			Root Cat. No. 3885463	
CR2801-E4A				(1) CR2800-1076-AR	43
Root Cat. No. 4985705				(2) CR2800-1117-B	85
(1) CR2800-1172-E	87			(2) CR2800-1115-T	78
CR2801-E4C				(1) CR2800-1117-A	78
Root Cat. No. 4985704				(2) CR2800-1119-B	79
(1) CR2800-1172-E	87			CR4065-C1 or C2	
CR2801-E4E				Root Cat. No. 3885473	
Root Cat. No. 4985707				(1) CR2800-1076-AR	43
(2) CR2800-1172-E	87			(3) CR2800-1117-B	78
CR2801-E4G				(4) CR2800-1119-B, AM	78
Root Cat. No. 4985706				(2) CR2800-1119-B, AN	79
(2) CR2800-1172-E	87			CR4065-C1 or C2	
				Root Cat. No. 4981172	
				(1) CR2800-1076-AR	43
				(2) CR2800-1117-B	78
				(4) CR2800-1119-S	79
				(2) CR2800-1119-T	79

Number in parentheses indicates quantity required.



D-c Coils

CR CONTROL TABLE (Cont'd)

Control	Coil Table No.	Control	Coil Table No.	Control	Coil Table No.
CR4065-C3 or C4		CR4161-A1A		CR4168-A2	
Root Cat. No. 3885523		Root Cat. No. 6936726		Root Cat. No. 3650983	
(1) CR2800-1076-AR	43	(1) CR2800-1112-GJ	75	(1) Starter Mechanism	57
(3) CR2800-1115-T	85	(1) CR2800-1124-AV	75	(4) CR2800-1112-BM	75
(1) CR2800-1115-R	85	(1) CR2800-1716-E	106	CR4168-A2	
CR4066-A1		CR4161-A2A		Root Cat. No. 3650986	
Root Cat. No. 3651116	57	Root Cat. No. 5367126		(1) Starter Mechanism	15
CR4066-A2		(1) CR2800-1112-GJ	75	(1) CR2800-1145-A	85
Root Cat. No. 3650391	57	(2) CR2800-1124-AE	75	(1) CR2800-1145-B	85
3650394	57	(1) CR2800-1716-E	106	CR4168-C1 or C2	
3650397	15	CR4161-A3A		Root Cat. No. 3885475	
CR4066-B2		Root Cat. No. 5367132		(1) CR2800-1076-AN	43
Root Cat. No. 3656361	17	(2) CR2800-1112-BM	75	(2) CR2800-1115-T	85
CR4066-C1 or C2		(1) CR2800-1112-GJ	75	(4) CR2800-1117-B	78
Root Cat. No. 2295434		(2) CR2800-1124-AV	75	(2) CR2800-1117-B	78
(1) CR2800-1115-T	85	(2) CR2800-1716-E	106	(1) CR2800-1054-AK	41
(1) CR2800-1117-A	78	CR4161-A2C		CR4168-C1 or C2	
(2) CR2800-1117-B	78	Root Cat. No. 6936727		Root Cat. No. 3885476	
CR4066-C1 or C2		(1) CR2800-1112-DJ	75	(1) CR2800-1076-AN	43
Root Cat. No. 3885466		(1) CR2800-1127-D	85	(2) CR2800-1117-B	78
(1) CR2800-1076-AR	43	(1) CR2800-1716-B	106	(4) CR2800-1119-AN	79
(1) CR2800-1115-T	85	CR4161-A3C		(2) CR2800-1119-AN	79
(2) CR2800-1117-B	78	Root Cat. No. 5367133		(1) CR2800-1054-AK	41
CR4066-C1 or C2		(1) CR2800-1112-GJ	75	CR4168-C1 or C2	
Root Cat. No. 3885467		(2) CR2800-1127-D	85	Root Cat. No. 3885477	
(1) CR2800-1076-AR	43	(2) CR2800-1129-A	85	(1) CR2800-1076-AN	43
(3) CR2800-1117-B	78	(3) CR2800-1716-B	106	(3) CR2800-1119-B, AN	79
(1) CR2800-1119-A, N	79	CR4166-A2		(6) CR2800-1121-B, S, AJ	80
(2) CR2800-1119-B, AN	79	Root Cat. No. 3650392	57	(1) CR2800-1054-AK	41
CR4066-C1 or C2		3650395	57	CR4168-C1 or C2	
Root Cat. No. 3885468		3650398	15	Root Cat. No. 5725272	
(1) CR2800-1076-AR	43	CR4166-B2		(1) CR2800-1729-G18	43
(3) CR2800-1119-B, AM	79	Root Cat. No. 3883505	18	(2) CR2800-1170-AU2	76
(3) CR2800-1121-B, S, AJ	80	CR4166-C1 or C2		(4) CR2800-1172-U2	87
CR4068-A2		Root Cat. No. 3885469		(2) CR2800-1172-T2	87
Root Cat. No. 3650400	57	(1) CR2800-1076-AR	43	(1) CR2800-1054-AK5	41
3650403	57	(2) CR2800-1115-T	85	CR4168-C1 or C2	
3650985	15	(1) CR2800-1117-A	78	Root Cat. No. 6932542	
CR4068-B2		(2) CR2800-1117-B	78	(3) CR2800-1117-B	78
Root Cat. No. 2237831		(1) CR2800-1054-AK	41	(4) CR2800-1119-AM	79
(1) Starter Mechanism	18	CR4166-C1 or C2		(2) CR2800-1119-AN	79
(1) CR2800-1145-L	85	Root Cat. No. 3885470		(1) CR2800-1054-AK	41
(1) CR2800-1145-M	85	(1) CR2800-1076-AR	43	CR4602-K1 or L1	
CR4068-C1 or C2		(3) CR2800-1117-B	78	Root Cat. No. 1768471	
Root Cat. No. 2295579		(1) CR2800-1119-AM	79	(1) CR2800-309-A	70
(1) CR2800-1729-G	43	(2) CR2800-1119-AN	79	(2) CR2800-313-B	70
(2) CR2800-1115-T	85	(1) CR2800-1054-AK	41	(1) CR2800-324-U	81
(4) CR2800-1117-A	78	CR4166-C1 or C2		(2) CR2800-324-AA	81
(2) CR2800-1117-B	78	Root Cat. No. 3885471		CR4602-K1 or L1	
CR4068-C1 or C2		(1) CR2800-1076-AR	43	Root Cat. No. 1768472	
Root Cat. No. 3656476		(3) CR2800-1119-B, AM	79	(3) CR2800-310-A	108
(1) CR2800-1076-S	43	(3) CR2800-1119-B, S, AJ	79	(1) CR2800-314-A	108
(2) CR2800-1115-T	85	(1) CR2800-1054-AK	41	(2) CR2800-1101-B	50
(4) CR2800-1117-A	78	CR4166-C1 or C2		CR4602-K1 or L1	
(2) CR2800-1117-B	78	Root Cat. No. 3885525		Root Cat. No. 1768473	
CR4068-C1 or C2		(1) CR2800-1076-AR	43	(3) CR2800-311-A	82
Root Cat. No. 3885473		(2) CR2800-1117-A	78	(2) CR2800-315-A	82
(1) CR2800-1076-AN	43	(1) CR2800-1119-A	79	(2) CR2800-315-A	82
(3) CR2800-1117-B	78	(2) CR2800-1119-B	79	(1) CR2800-1102-B	52
(4) CR2800-1117-A, AM	78	(1) CR2800-1054-AK	41	CR4602-K2 or L2	
(2) CR2800-1119-B, AN	79	CR4166-C1 or C2		Root Cat. No. 1773773	
CR4068-C1 or C2		Root Cat. No. 6930330		(1) CR2800-309-A	70
Root Cat. No. 3885474		(3) CR2800-1117-B	78	(2) CR2800-313-B	70
(1) CR2800-1076-AR	43	(1) CR2800-1119-AM	79	(1) CR2800-314-A	81
(3) CR2800-1119-B, AN	79	(2) CR2800-1119-AN	79	(2) CR2800-324-AA	81
(6) CR2800-1121-B, S, AJ	80	(1) CR2800-1054-AK	41	CR4602-K2 or L2	
CR4068-C1 or C2		(1) CR2800-1729-J	43	Root Cat. No. 1773774	
Root Cat. No. 4981172		CR4168-A2		(3) CR2800-310-A	108
(1) CR2800-1076-AR	43	Root Cat. No. 3650401		(2) CR2800-314-A	108
(2) CR2800-1117-B	78	(1) Starter Mechanism	57	(1) CR2800-1101-B	50
(4) CR2800-1119-S	79	(4) CR2800-1112-BM	75		
(2) CR2800-1119-T	79				

Number in parentheses indicates quantity required.



D-c Coils

CR CONTROL TABLE (Cont'd)

Control	Coil Table No.	Control	Coil Table No.	Control	Coil Table No.
CR4602-K2 or L2 Root Cat. No. 1773775 (3) CR2800-311-A..... (2) CR2800-315-A..... (1) CR2800-1102-B.....	82 82 52	CR6320-B1 Root Cat. No. 2249198 (1) CR2800-1112-BM1..... (1) CR2800-1112-AL1.....	75 75	CR6344-A1 Root Cat. No. 2248735 (1) CR2800-1127-D2-2..... (1) CR2800-1112-BN2..... (1) Solenoid Coil, Cat. No. 3022056	85 75
CR4602-K2 or L2 Root Cat. No. 1773776 (3) CR2800-311-A..... (2) CR2800-315-A..... (1) CR2800-1102-B.....	82 82 52	CR6320-B1 Root Cat. No. 2249199 (1) CR2800-1112-BM2..... (1) CR2800-1112-AL2.....	75 75	CR6344-A1 Root Cat. No. 2248736 (1) CR2800-1127-D1-1..... (1) CR2800-1112-BN1..... (1) Solenoid Coil, Cat. No. 3022059	85 75
CR4602-K3 or L3 Root Cat. No. 1776678 (1) CR2800-309-B..... (2) CR2800-313-B..... (1) CR2800-324-U..... (2) CR2800-324-AA.....	70 108 81 81	CR6332-B1 Root Cat. No. 2241878 (1) CR2800-1112-BM2..... (1) CR2800-1112-BN2.....	75 75	CR6344-B1 Root Cat. No. 2248732 (2) CR2800-1127-D2-2..... (2) CR2800-1129-A2..... (1) CR2800-1112-BN2..... (1) Solenoid Coil, Cat. No. 3022056	85 85 75
CR4602-K3 or L3 Root Cat. No. 1776679 (2) CR2800-310-A..... (1) CR2800-310-E..... (2) CR2800-314-A..... (1) CR2800-1101-B.....	108 108 108 50	CR6332-B1 Root Cat. No. 2249084 (1) CR2800-1112-BM1..... (1) CR2800-1112-BN1.....	75 75	CR6344-B1 Root Cat. No. 2248733 (2) CR2800-1127-D1-1..... (2) CR2800-1129-A1..... (1) CR2800-1112-BN1..... (1) Solenoid Coil, Cat. No. 3022059	85 85 75
CR4602-K3 or L3 Root Cat. No. 1776680 (2) CR2800-311-A..... (1) CR2800-311-F..... (2) CR2800-315-A..... (1) CR2800-1102-B.....	82 82 82 52	CR6341-D1 Root Cat. No. 2248971 (2) CR2800-1124-AD2..... (1) CR2800-1112-BM2..... (1) CR2800-1112-BN2..... (1) Holding Coil, Cat. No. 3020456	75 75 75	CR6365-B1 Root Cat. No. 2248749 (1) CR2800-1112-BM1..... (1) CR2800-1112-BN1.....	75 75
CR6201-A1 Root Cat. No. 2285494 (1) CR2800-1172-C2..... (1) CR2800-1129-A2..... (2) CR2800-1129-A1..... (1) CR2800-1137-A2..... (2) CR2800-1135-D2..... (1) CR2800-1054-A7.....	87 85 85 85 85 41	CR6341-D1 Root Cat. No. 2249415 (2) CR2800-1124-AD1..... (1) CR2800-1112-BM2..... (1) CR2800-1112-BN2..... (1) Holding Coil, Cat. No. 3020456	75 75 75	CR6365-B1 Root Cat. No. 2248750 (1) CR2800-1112-BM2..... (1) CR2800-1112-BN2.....	75 75
CR6201-A1 Root Cat. No. 2285496 (1) CR2800-1172-C2..... (1) CR2800-1129-A2..... (2) CR2800-1129-A1..... (1) CR2800-1137-A2..... (2) CR2800-1135-D2..... (1) CR2800-1054-A7.....	87 85 85 85 85 41	CR6341-D2 Root Cat. No. 2248973 (2) CR2800-1124-AD1..... (1) CR2800-1124-AD2..... (1) CR2800-1112-BM1..... (1) CR2800-1112-BM2..... (1) CR2800-1112-BN2..... (2) Holding Coils, Cat. No. 3020456	75 75 75 75 75	CR9507-C1B or C1C.....	105
CR6201-C1 Root Cat. No. 2285495 (1) CR2800-1172-C2..... (1) CR2800-1129-A2..... (2) CR2800-1129-A1..... (1) CR2800-1137-A2..... (2) CR2800-1135-D2..... (1) CR2800-1054-A7.....	87 85 85 85 85 41	CR6342-B2 Root Cat. No. 2249200 (1) CR2800-1124-AD1..... (1) CR2800-1124-AD2..... (1) CR2800-1124-AL1..... (1) CR2800-1112-BN1..... (1) Holding Coil, Cat. No. 3020456	75 75 75 75	CR9516-159-A, B, C, D, E, H..... 159-F, G..... 160-A1, K1..... 161-A1..... 162-A1..... 163-A1..... 164-A.....	61 62 64 54 26 26 27
		CR6342-B2 Root Cat. No. 2249201 (1) CR2800-1124-AD2..... (1) CR2800-1124-AL2..... (1) CR2800-1112-BN2..... (1) Holding Coil, Cat. No. 3020456	75 75 75	CR9522-B2A, B2D, B2E, B2G..... D2A, D2B, D2C, D2D..... D3A, D3B..... F2A, F2B, F2C..... F2D, F2E, F2F..... F2G, F2H..... F3A, F3B.....	111 112 113 112 112 112 113

Number in parentheses indicates quantity required.

Wet contactor coils should be dried by
baking at a temperature of 110 to 125 C.

D-c Coils

COIL TABLES

All coils are continuously rated, and the voltage applies only
when they are used on the control listed on pages 83 to 86.

Volts	Coil, Cat. No.	Resistor Unit	Ohms	Volts	Coil, Cat. No.	Resistor Unit	Ohms
Table 1				Table 11			
115	230777	QDK1924016	900	115	179877	QDK1924016	900
230	230777	QDK1924016	1800	230	179877	QDK1924016	1800
440	235206	QDK1924016	9000				
550	235206	QDK1924016	11500				
Table 2				Table 12			
115	257440	QDK1924013	1000	125	22D2G27	(2) QLK2673287G2	400
230	257440	QDK1924013	2000	250	22D2G28	(2) QLK2673287G2	1500
				440	22D2G6	(2) QLK2673287G2	4000
				500	22D2G10	(2) QLK2673287G2	5500
				600	22D2G14	(2) QLK2673287G2	8000
Table 3				Table 13			
115	257893	QDK1924016	800	125	3023895	QFK2673118	500
230	257893	QDK1924016	1800	250	3023894	QFK2673118	2000
				550	3023896	QFK2673118	7500
Table 4				Table 14			
115	230777	QDK1924016	800	125	*22D2G13	QCK2673150G3	500
230	230777	QDK1924016	1800	250	*22D2G6	QCK1673150G3	2000
440	235206	QDK1924016	9000	440	*22D2G17	QCK2673150G3	6000
550	235206	QDK1924016	11500	550	*22D2G113	QCK2673150G3	10000
Table 5				125	†3175840		
115	22D12G3	QDK1924016	500	250	†3175837		
230	22D12G2	QDK1924016	2500	440	†3175791		
440	22D12G7	QDK1924016	6500	550	†3175838		
550	22D12G9	QDK1924016	10000				
Table 6				Table 15			
115	22D28G3	QDK1924016	400	115	3022059	QLK2673131	400
230	22D28G2	QDK1924016	1500	230	3022056	QLK2673131	1500
				300	3022056	QLK2673131	2000
Table 7				Table 16			
440	22D11G6	QDK1924016	17000	440	3023992	QFK1924019	2200
550	22D11G8	QDK1924016	230000	500	3022202	QFK1924019	3200
				550	3022202	QFK1924019	3500
				600	3022202	QFK1924019	4200
Table 8				Table 17			
440	22D10G6	QDK1924016	15000	440	3022290	QFK2155967	2500
550	22D10G9	QDK1924016	230000	500	3022290	QFK2155967	3000
				550	3022201	QFK2155967	4000
Table 9				Table 18			
115	179876	QDK1924016	900	440	3022290	QDK1924013	2500
230	179876	QDK1924016	1800	500	3022290	QDK1924013	3000
440	91X242	QDK1924016	9000	550	3022290	QDK1924013	4800
550	91X242	QDK1924016	11500	600	3022202	QDK1924013	6000
Table 10							
115	179876	QDK1924016	1000				
230	179876	QDK1924016	1800				

Number in parentheses indicates quantity required.
† Tip holding coil (2 required).

For prices, see pages 91 and 92.

* Contactor coil.
† Refer to nearest G-E Apparatus Sales Office.



D-c Coils

COIL TABLES

Volts	Coil Cat. No.	Resistor Unit	Ohms
Table 19			
115 230 550	22D8G102 22D8G100 †	QLK2673131 QLK2673131	75 250
Table 20			
115 230 550	22D8G100 22D8G101 †	QLK2673131 QLK2673131	175 700
Table 21			
125 250 550	22D3G46 22D3G49 †	QLK1924003 QLK1924003	900 3500
Table 22			
125 250 600	3020420 3020420 3020420	DL2880121G44 DL2880121G52 DL2880141G57	1000 3000 8600
Table 23			
125 250 440 500 600	22D2G3 22D2G4 22D2G10 22D2G14 22D2G17	(2) QLK1924006 (2) QLK1924006 (2) QLK1924006 (2) QLK1924006 (2) QLK1924006	250 1000 2500 4000 6000
Table 24			
125 250	22D2G27 22D2G28	(2) QLK2673095G2 (2) QLK2673095G2	500 2000

Volts	Coil Cat. No.	Resistor	Ohms	Watts
Table 25				
115 230 550	3021086 3020203 3020413	50 200 1000	120 120 120	
Table 26				
230	(2)3021098	900	55	
Table 27				
230	(2)3022070	240	195	
Table 28				
115 230 250	153551 197238 153551	2500	25	
300 500 550 600	153551 153551 153551 153551	1400 3200 3600 6000	25 80 80 80	
Table 29				
115 230 550	91X243 91X244 91X244	3500	35	
Table 30				
115 250 550	22D18G3 22D18G2 22D18G2	4200	20	
Table 31				
125 250 500 600	22D10G8 22D10G3 22D10G2 22D10G5	150 600 2500 3500	25 25 25 25	
Table 32				
125 250 500 600	22D12G11 22D12G3 22D12G2 22D12G4	100 400 1500 2000	50 50 50 50	
Table 33				
125 250 500 600	22D28G9 22D28G3 22D28G2 22D28G4	6 250 1000 1400	75 75 75 75	
Table 34				
125 250 300 550	22D28G9 22D28G3 22D28G3 22D28G2	750 300 400 1500	75 75 75 75	
Table 35				
115 125 230 250	22D87G18 22D87G18 22D87G17 22D87G17	150 180 600 720		
Table 36				
125 250 300 550	22D76G6 22D76G3 22D76G2 22D76G2	85 350 1500 1500	75 75 75 75	
Table 37				
125 250 300 500 550 600	Q22D95G11 Q22D95G12 Q22D95G12 Q22D95G12 Q22D95G12 Q22D95G12	50 175 220 700 800 900	170 182 240 188 210 245	
Table 38				
125 250 600	Q22D63G14 Q22D63G14 Q22D63G15	40 150 1000	80 80 112	
Table 39				
250 300 500 550 600	22D63G16 22D63G16 Q22D63G16 Q22D63G16 Q22D63G16	120 200 400 500 600	790 235 198 190 250	
Table 40				
115 230 440 550 660	22D11G7 22D11G3 22D11G2 22D11G5 3241222	1800 7200 26000 42000 10000	20 20 20 20 20	
Table 41				
125 125 125 125 250 250 300 300 300 300 500 500	22D11G26 with terminals 22D11G3 with leads Q22D13G4 with terminals Q22D13G21 with leads 22D11G25 with terminals Q22D13G2 with terminals Q22D13G20 with leads 22D11G48 with terminals 22D11G5 with leads Q22D13G13 with terminals Q22D13G23 with leads 22D11G49 with terminals 22D11G6 with leads			

Number in parentheses indicates quantity required.
 † Requires copper jacket Cat. No. 2494629.
 For prices, see pages 91 and 92.

† Refer to nearest G-E Apparatus Sales Office.
 ‡ Two coils in multiple.
 Δ Two coils in series.



D-c Coils

COIL TABLES

Volts	Coil Cat. No.	Resistor	Ohms	Watts
Table 41 (Cont'd)				
500 500 550 550 600 600 600	Q22D13G13 with terminals Q22D13G13 with leads Q22D13G13 with terminals Q22D13G13 with leads 22D11G50 with terminals Q22D13G13 with terminals 22D11G8 with leads	3000 3000 4000 4000 4000 4600 4600	20 20 20 20 25 25	
Table 42				
115 230	22D86G16 22D86G15	80 325	....	....
Table 43				
100/125 200/250 380/650	3028147 3028148 3023934	 4200	 75	
Table 44				
125 150 250 600	3021508 3194998 3021509 3022202	 5000	 61	
Table 45				
115 230	(2) 22D95G5 (2) 22D95G5	250 1000	40 40	
Table 46				
110 250	22D47G2 22D47G2	1000 3000	20 20	
Table 47				
115 230 550	178635 178631 178631	(3) PSQ-4000B		
Table 48				
115 230 550	210782 210782 210782	PSQ-1000B (3) PSQ-1200B		
Table 49				
115 230 550	200000 200000 †	PSQ-2000A		
Table 50				
115 230 500/550	224292 222955 222951	(1) QL-1400B (1) QL-400% (1) QL-3000B (1) QL-3000% (4) QP-4000B (1) QP-4000% (1) QP-4000% (1) QP-4000%		
Table 51				
115 230 550	223481 223466 †	(2) PSQ-100B (1) PSQ-75B (2) PSQ-600B (1) PSQ-100B		
Table 52				
115 230 550	223481 223466 †	(1) QL-300B (1) QL-175% (1) QL-1200B (1) QL-700% (1) QL-700% (1) QL-700%		
Table 53				
115 230 440 550 600	224292 222955 222951 222951 222951	(1) PSQ-1000B (1) PSQ-100B (1) PSQ-4000B (1) PSQ-1200B (3) QP-4000B (1) QP-4000% (4) QP-4000B (1) QP-4000% (5) QP-4000B (1) QP-4000%		
Table 54				
115 230	3022099 3022084	3022098 3022083		
Table 55				
230	3020053			
Table 56				
115 230 300 500 600	3020203 3020204 3020413 3040694 3020205			
Table 57				
115 230	3021505 3021506			
Table 58				
115 230	3022047 3022048			
Table 59				
125 230 550	286372 286371 †			
Table 60				
115 230 550	193599 † †			
Table 61				
125 230 550	3027951 3027952 3027953			
Table 62				
115 230	3021508 3028075			
Table 63				
115 230	22D104G1 22D104G2			
Table 64				
115 230 550	3021768 3021092 3021709			
Table 65				
125 230 250 550	271X13 271X14 271X15 271X16			
Table 66				
115 230 550 600	217797 217801 217800 217802			
Table 67				
115 230 250 550 600	197250 149871 197246 196246			
Table 68				
115 230 250 500 600	148987 148984 148989 148985 148986			
Table 69				
115 230 500 550 600	150589 150587 150588 150588 150591			
Table 70				
125 230 500 550 600	209244 209243 209252 209246 209246			
Table 71				
115 250	22D17G2 22D17G3			
Table 72				
115 250	22D19G3 22D19G2			
Table 73				
115 250 550	3020081 3020024 3020099			
Table 74				
115 250 550	3020082 3020077 3020100			
Table 75				
60 80 125 250 300	22D8G5 22D8G26 22D8G3 22D8G2 22D8G22			
Table 76				
115/125 230/250 300 500 600	22D85G202 22D85G201 22D85G211 22D85G204 22D85G205			
Table 77				
125 250	22D11G9 22D11G85			

Number in parentheses indicates quantity required.
 For prices, see pages 91 and 92.

† Requires copper jacket, Cat. No. 2494629.
 ‡ Refer to nearest G-E Apparatus Sales Office.



D-c Coils

COIL TABLES

Volts	Coil, Cat. No.	Volts	Coil, Cat. No.	Volts	Coil, Cat. No.	Volts	Coil, Cat. No.	Volts	Coil, Cat. No.	Volts	Coil, Cat. No.
Table 78		Table 85		Table 91		Table 98		Table 104		Table 111	
125	22D10G3	125	22D11G3	125	22D76G3	125	3020278	125	22D38G2	115	3192083
250	22D10G2	250	22D11G2	250	22D76G2	250	3020279	250	22D38G3	230	3192065
500	22D10G6	300	22D11G5	300	22D76G11			300	22D38G4		
600	22D10G9	500	22D11G6	500	22D76G5			600	22D38G6		
		600	22D11G8								
Table 79		Table 86		Table 92		Table 99		Table 105		Table 112	
125	22D12G3	125	22D85G3	125	22D86G4	125	3020859	115	22D41G10	115	3199010
250	22D12G2	230	22D85G1	230	22D86G2	250	3020969	230	22D41G36	230	3198286
500	22D12G7	250	22D85G2	250	22D86G3						
600	22D12G9	300	22D85G7	300	22D86G6						
		500	22D85G4	500	22D86G6						
		600	22D85G5								
Table 80		Table 87		Table 93		Table 100		Table 106		Table 113	
125	22D28G3	125	22D74G3	125	22D95G1	125	3021088	62	22D57G4	230	3028054
250	22D28G2	250	22D74G2	250	22D95G1	250	3020859	115	22D57G3		
300	22D28G4	300	22D74G11	300	22D95G6			230	22D57G2		
500	22D28G10	500	22D74G5	500	22D95G4						
600	22D28G7	550	22D74G5	600	22D95G3						
		600	22D74G6								
Table 81		Table 88		Table 94		Table 101		Table 107		Table 114	
115	178631	125	22D75G3	125	22D75G3	125	22D37G4	115/225	22D136G3	125	3028014
230	218511	250	22D75G2	250	22D75G2	250	22D37G3	230/250	22D136G2	250	3028015
		300	22D75G11	475	22D75G5	300	22D37G9	500	22D136G5	550	†
		550	22D75G5	550	22D75G19			600	22D136G6		
Table 82		Table 89		Table 95		Table 102		Table 108		Table 115	
115	223466	125	22D87G3	125	22D11G26	125	22D11G3	115	222954	115/125	22D101G3
230	223465	230	22D87G2	250	22D11G25	125	with leads	230/250	222951	230/250	22D101G2
550	223468	500	22D87G10	300	22D11G48	250	22D11G2	500	222957	500	22D101G5
		550	22D87G6	500	22D11G49	300	22D11G5	600		600	22D101G6
				600	22D11G50		with leads				
Table 83		Table 90		Table 96		Table 103		Table 109		Table 116	
125	22D30G3	115	22D101G11	125	3020298	125	22D16G3	115	22D136G11	125	22D8G3
250	22D30G2	230	22D101G10	230	3020299	250	22D16G4	230	22D136G10	250	22D8G2
300	22D30G7					250	22D16G2			550	†
500	22D30G10					300	22D16G2				
550	22D30G5					500	22D16G2				
600	22D30G5					600	22D16G2				
Table 84		Table 97		Table 104		Table 110		Table 117		Table 118	
125	3020296	115	22D87G202	115	22D85G210	125	22D13G3	125	22D8G3	125	22D13G3
250	3020805	230	22D87G201	230	22D85G209	250	22D13G2	250	22D8G2	250	22D13G2
						300	22D13G1	500	22D8G1	500	22D13G1
						600	22D13G1	600	22D8G1	600	22D13G1

¶ Two coils in multiple.
 φ Requires copper jacket Cat. No. 2494629.
 † Refer to nearest G-E Apparatus Sales Office.

⌘ Requires copper jacket, Cat. No. 2494628.
 Δ Two coils in series.

For prices, see pages 91 and 92.



D-c Coils

COIL INDEX AND PRICES

When referring to the coil tables for any of the following catalog numbers, the control nomenclature must also be checked before the voltage for the coil can be determined.

Coil, Cat. No.	Coil Table	List Price, Each GO-11	Coil, Cat. No.	Coil Table	List Price, Each GO-11	Coil, Cat. No.	Coil Table	List Price, Each GO-11
148984	68	\$47.00	3021509	44	\$12.00	22D11G5	85, 40, 41, 102	\$12.00
148985	68	47.00	3021709	64	12.00	22D11G6	7, 85, 41	12.00
148986	68	47.00	3021768	64	12.00	22D11G7	40	12.00
148987	68	47.00	3022047	58	8.40	22D11G8	7, 85	12.00
148989	68	47.00	3022048	58	8.40	22D11G9	77	12.00
149871	67	40.00	3022056	15	12.00	22D11G25	95, 41	12.00
150587	69	18.00	3022059	15	12.00	22D11G26	95, 41	12.00
150588	69	18.00	3022070	27	31.00	22D11G48	95, 41	12.00
150589	69	18.00	3022083	54	11.00	22D11G49	95, 41	12.00
150591	69	18.00	3022084	54	11.00	22D11G50	95, 41	12.00
153551	28	32.00	3022098	54	11.00	22D11G85	77	12.00
178631	47, 81	15.50	3022099	54	11.00	22D12G2	5, 32, 79	24.00
178635	47	14.00	3022201	17	11.00	22D12G3	5, 32, 79	24.00
179876	10	5.00	3022202	16, 18, 44	12.00	22D12G4	32	24.00
179877	11	6.20	3022290	17, 18	11.00	22D12G7	5, 79	24.00
193599	60	19.00	3023894	13	8.40	22D12G9	5, 79	24.00
197238	28	32.00	3023895	13	8.40	22D12G11	32	24.00
197246	67	40.00	3023896	13	8.40	22D13G2	41, 118	11.00
197250	67	40.00	3023934	43	8.40	22D13G3	118	11.00
200000	49	20.00	3023992	16	12.00	22D13G4	41, 118	11.00
209243	70	17.00	3027951	61	12.00	22D13G13	41, 118	11.00
209244	70	17.00	3027952	61	12.00	22D13G20	41, 102	11.00
209246	70	17.00	3027953	61	12.00	22D13G21	41, 102	11.00
209252	70	17.00	3028014	114	11.00	22D13G23	41, 102	11.00
210782	48	22.00	3028015	114	11.00	22D14G2	103	17.00
217797	66	62.00	3028054	113	58.00	22D14G4	103	17.00
217800	66	62.00	3028075	62	12.00	22D14G6	103	17.00
217801	66	62.00	3028147	43	8.40	22D14G8	103	17.00
217802	66	62.00	3028148	43	8.40	22D14G12	116	17.00
218511	81	22.00	3040694	56	62.00	22D14G24	116	17.00
222951	50, 108, 53	35.00	3175791	14	2.80	22D14G27	116	17.00
222954	108	35.00	3175837	14	2.80	22D16G2	103	22.00
222955	50, 53	35.00	3175838	14	2.80	22D16G3	103	22.00
222957	108	35.00	3175840	14	2.80	22D16G12	103	22.00
223465	82	46.00	3192065	111	43.00	22D17G2	71	9.20
223466	82, 51, 52	46.00	3192083	111	43.00	22D17G3	71	9.20
223468	82	46.00	3194998	44	12.00	22D18G2	30	11.00
223481	51, 52	46.00	3198286	112	46.00	22D18G3	30	11.00
224292	50, 53	35.00	3199010	112	46.00	22D19G2	72	12.00
230777	1, 4	5.50	3241222	40	22.00	22D19G3	72	12.00
235206	1, 4	6.20	22D2G3	23	7.20	22D28G2	6, 33, 80, 34	42.00
257440	2	3.60	22D2G4	23	7.20	22D28G3	6, 33, 80, 34	42.00
257893	3	10.00	22D2G6	12, 14	7.20	22D28G4	33, 80	42.00
286371	59	39.00	22D2G10	12, 23	7.20	22D28G7	80	42.00
286372	59	39.00	22D2G13	14	7.20	22D28G9	33, 34	42.00
3020024	73	29.00	22D2G14	12, 23	7.20	22D28G10	80	42.00
3020053	55	74.00	22D2G17	14, 23	7.20	22D30G2	83	67.00
3020077	74	24.00	22D2G27	12, 24	7.20	22D30G3	83	67.00
3020081	68	29.00	22D2G28	12, 24	7.20	22D30G5	83	67.00
3020082	69	24.00	22D2G113	14	7.20	22D30G7	83	67.00
3020099	68	29.00	22D3G46	21	5.30	22D30G10	83	67.00
3020100	69	24.00	22D3G49	21	5.30	22D37G3	101	6.20
3020203	56, 25	62.00	22D8G2	75, 117	8.40	22D37G4	101	6.20
3020204	56	62.00	22D8G3	75, 117	8.40	22D37G9	101	6.20
3020205	56	62.00	22D8G5	75	8.40	22D38G2	104	17.00
3020278	98	29.00	22D8G22	75	8.40	22D38G3	104	17.00
3020279	98	29.00	22D8G26	75	8.40	22D38G4	104	17.00
3020296	84	22.00	22D8G100	19, 20	8.40	22D38G6	104	17.00
3020298	96	15.50	22D8G101	20	8.40	22D41G10	105	7.20
3020299	96	15.50	22D8G102	19	8.40	22D41G36	105	7.20
3020413	56, 25	62.00	22D10G2	31, 78	15.50	22D47G2	46	2.10
3020420	22	4.30	22D10G3	31, 78	15.50	22D57G2	106	12.00
3020805	84	22.00	22D10G5	31	15.50	22D57G3	106	12.00
3020859	99, 100	17.00	22D10G6	8, 78	15.50	22D57G4	106	12.00
3020969	99	17.00	22D10G8	31, 41	15.50	22D63G14	38	46.00
3021086	25	62.00	22D10G9	8, 78	15.50	22D63G15	38	46.00
3021088	100	17.00	22D11G2	85, 40, 102	12.00	22D63G16	39	46.00
3021092	64	12.00	22D11G3	85, 40, 41, 102	12.00	22D74G2	87	17.00
3021098	26	17.00						
3021505	57	11.00						
3021506	57	11.00						
3021508	62, 44	12.00						

D-c Coils

COIL INDEX AND PRICES

Coil, Cat. No.	Coil Table	List Price, Each GO-11	Coil, Cat. No.	Coil Table	List Price, Each GO-11	Coil, Cat. No.	Coil Table	List Price, Each GO-11
22D74G3	87	\$17.00	22D85G209	110	\$15.50	22D101G2	115	\$20.00
22D74G5	87	17.00	22D85G210	110	15.50	22D101G3	115	20.00
22D74G6	87	17.00	22D85G211	76	15.50	22D101G5	115	20.00
22D74G11	87	17.00	22D86G2	92	73.00	22D101G6	115	20.00
22D75G2	88, 94	26.00	22D86G3	92	73.00	22D101G10	90	20.00
22D75G3	88, 94	26.00	22D86G4	92	73.00	22D101G11	90	20.00
22D75G5	88, 94	26.00	22D86G6	92	73.00	22D104G1	63	13.50
22D75G11	88	26.00	22D86G15	42	73.00	22D104G2	63	13.50
22D75G19	94	26.00	22D86G16	42	73.00	22D136G2	107	50.00
22D76G2	91, 36	42.00	22D87G2	89	31.00	22D136G3	107	50.00
22D76G3	91, 36	42.00	22D87G3	89	31.00	22D136G5	107	50.00
22D76G5	91	42.00	22D87G6	89	31.00	22D136G6	107	50.00
22D76G6	36	42.00	22D87G10	89	31.00	22D136G10	109	50.00
22D76G11	91	42.00	22D87G17	35	31.00	22D136G11	109	50.00
22D85G1	86	15.50	22D87G18	35	31.00	91X242	9	5.00
22D85G2	86	15.50	22D87G201	97	31.00	91X243	29	64.00
22D85G3	86	15.50	22D87G202	97	31.00	91X244	29	64.00
22D85G4	86	15.50	22D95G1	93	36.00	271X13	65	83.00
22D85G5	86	15.50	22D95G3	93	36.00	271X14	65	83.00
22D85G7	86	15.50	22D95G4	93	36.00	271X15	65	83.00
22D85G201	76	15.50	22D95G5	45	36.00	271X16	65	83.00
22D85G202	76	15.50	22D95G6	93	36.00			
22D85G204	76	15.50	22D95G11	37	36.00			
22D85G205	76	15.50	22D95G12	37	36.00			

Cross Reference from Number Stamped on Coil to D-c Coil Catalog Numbers

No. Stamped on Coil	Coil, Cat. No.	Coil Table	No. Stamped on Coil	Coil, Cat. No.	Coil Table	No. Stamped on Coil	Coil, Cat. No.	Coil Table
90432	217797	66	92961	148986	68	94365	197238	28
90696	237893	3	92962	217802	66	94876	178631	47, 81
90697	230777	1, 4	92970	150591	69	320416	197250	67
90698	237440	2	92987	148987	68	320433	209252	70
						320646	200000	49
						320668	271X16	65
90922	179876	9, 10	93042	91X243	29	323200	210782	48
91159	235206	1, 4	93059	271X13	65	323666	223465	82
91160	179877	11	93082	271X15	65	323691	222951	50, 108, 53
92517	148984	68	93243	149871	67	323723	222955	50, 53
						323728	224292	50, 53
						323729	223466	82
92525	217800	66	93267	91X242	9	323734	286371	59
92715	150587	69	93293	91X244	29	323735	286372	59
92718	217801	66	93598	209243	70	323744	223481	51
92851	153551	28	93627	148989	68	323745	193599	60
92860	150588	69	93707	209244	70	324105	222954	108
92866	148985	68	93856	209246	70	324108	218511	81
92868	271X14	65	94231	197246	67	324126	222957	108
92886	150589	69	94326	178635	47	324447	223468	82

G-E Soldering Irons, Gluepots and Thermostats

PARTS FOR G-E *CALROD SOLDERING IRONS

Complete Irons, Cat. No.	Calorized Tips			Ironclad Tips			Heaters		Rubber Cord and Plug	
	Diameter in Inches	Cat. No.	Price, Each	Diameter in Inches	Cat. No.	Price, Each	Cat. No.	Price, Each	Cat. No.	Price, Each
6A161	3/4	6851732P21	\$0.65	3/4	6851732P22	\$1.30	6A31	\$3.05	6808374P2	\$1.05
6A162	1/2 short	6808345AAP2	.65	1/2 short	6851775P21	1.30	6A32	3.05	6808374P2	1.05
	1/2 long	6808345AAP3	1.20	1/2 long	6851775P22	2.00				
6A200	3/4	6827994P21	1.00	3/4	8381902P21	2.40	6A32	3.05	6808374P2	1.05
6A201	1	6827994P22	1.30	1	8381902P22	2.85	9A77	3.90	6808374P2	1.05
6A202	1 1/2	6827994P23	2.40	1 1/2	8381902P23	3.95	9A78	4.45	6808374P2	1.05

* Trade-mark reg. U.S. Pat. Off.

RENEWAL PARTS FOR EXTRA-HEAVY-DUTY SOLDERING IRONS

Complete Irons, Cat. No.	Heaters		Tips		Cord and Plug	
	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price
6A318	3A173	\$17.60	3952837	\$3.30	5222309P1	\$1.10
6A318G2	3A173G2	17.60	3952837	3.30	5222309P1	1.10
6A319	3A179	28.00	5236601	4.85	5222309P1	1.10
6A319G2	3A179G2	28.00	5236601	4.85	5222309P1	1.10

RENEWAL PARTS FOR OBSOLETE I-TYPE SOLDERING IRONS

Obsolete Irons, Cat. No.	Heaters		Tips		Cord and Plug	
	Cat. No.	Price	Cat. No.	Price	Cat. No.	Price
291880	174-H	\$2.85	561352	\$1.10	6808374P2	\$1.05
291882	174-X	2.85	561352	1.10	6808374P2	1.05
291883	175-H	3.45	561353	1.10	6808374P2	1.05
291885	175-X	3.45	561353	1.10	6808374P2	1.05
291886	176-H	3.85	561354	1.45	6808374P2	1.05
291888	176-X	3.85	561354	1.45	6808374P2	1.05
291889	177-H	3.85	2580786	1.20	6808374P2	1.05
291891	177-X	3.85	2580786	1.20	6808374P2	1.05
291892	178-H	4.25	561359	1.80	6808374P2	1.05
291894	178-X	4.25	561359	1.80	6808374P2	1.05
43X700	183-H	2.85	3920240	.40	6808374P2	1.05
43X701	183-X	2.85	3920240	.40	6808374P2	1.05

RENEWAL PARTS FOR AUTOMATIC GLUEPOTS

Cat. No.	Removable Inner Kettle Price, Each†	Heater Price, Each†	Thermostat Price, Each†	8-ft Cord and Plug Set Price, Each†
6A126G4	\$4.60	\$5.30	\$2.35	\$1.45
6A126G5	4.60	5.30	2.35	1.45
6A111G4	5.30	5.30	2.35	1.45
6A111G5	5.30	5.30	2.35	1.45
6A139G4	7.35	5.30	2.35	1.45
6A139G5	7.35	5.30	2.35	1.45

RENEWAL PARTS FOR OBSOLETE GLUEPOTS

For Obsolete Jacketless Gluepots				For Obsolete Water-jacketed Gluepots			
Pot Cat. No.	Description of Part	Cat. No. of Part	Price, Each	Pot Cat. No.	Description of Part	Cat. No. of Part	Price, Each
269853	Cartridge heater, 70 w, 115 v.	109-H	\$5.90	280486	Cartridge heater, 300 w, 115 v.	179-H	\$8.20
269855	Cartridge heater, 70 w, 230 v.	109-X	5.90	280487	Cartridge heater, 300 w, 230 v.	179-X	8.20
259989	Cartridge heater, 90 w, 115 v.	110-H	5.90	280488	Cartridge heater, 460 w, 115 v.	180-H	8.20
259991	Cartridge heater, 90 w, 230 v.	172-X	5.90	280489	Cartridge heater, 460 w, 230 v.	180-X	8.20
259994	Cartridge heater, 140 w, 115 v.	111-H	5.90	280490	Cartridge heater, 660 w, 115 v.	181-H	8.75
259996	Cartridge heater, 140 w, 230 v.	173-X	5.90	280491	Cartridge heater, 660 w, 230 v.	181-X	8.75
All	Contact plug with 8 ft of cable and socket attaching plug.	29X934	1.45†	All	Three-terminal contact plug with 8 ft of cable and three-heat porcelain receptacle for use with all sizes.	223256	5.15†
All	Socket attaching plug.	GE2345	.25	All	Three-terminal contact plug for use with all sizes.	179481	1.75†
All	Two-terminal contact plug only.	GE2602	.35†	All	Three-heat porcelain attaching plug with separable cover for use with all sizes.	GE451	1.05†
				All	Porcelain bushing for supporting heating unit in jacket of all sizes.	1592831	.05†

PARTS FOR G-E AUTOMATIC THERMOSTATS FOR INDUSTRIAL HEATING

The bellows assembly of G-E thermostats for industrial heating is sometimes ruined by mechanical injury, or by exposure to injuriously high temperatures. It is not possible to assemble the three parts—bellows, bulb, and capillary tube—to each other in the field; therefore, when a replacement bellows assembly is needed, it should be ordered as a unit. Order as follows: "Bellows assembly for thermostat Cat. No. (insert complete Cat. No. from nameplate on mechanism)."		Bellows assemblies for thermostats:	
		Cat. No. 4980281 G86 to 4980281 G89, incl.	Price Each
		4980281 G107 to 4980281 G110, incl.	\$9.80
		4980281 G132 to 4980281 G139, incl.	\$14.40
		Cat. No. 4980281 G156 to 4980281 G163, incl.	Price \$6.80
		All other listed thermostats.	



Cleaning Materials for Lighting Fixtures

Cleaning at regular intervals is required to maintain the initial high efficiency and attractive appearance of any reflecting surface. This requires, in the case of Alzak-finished aluminum, the use of materials which do the work easily and without damage to the surface.

Strong acids and ordinary alkaline soap and scouring powders must not be used. The materials and methods recommended for various types of street and flood-lighting reflectors are as follows:

Type Cleaner	Recommended Use	Cat. No.	Quantity	Net Price F.O.B. Utica
Type 112-B2 Washing Compound (Powder Form)	Recommended for cleaning spun-sealed reflector assemblies, also suitable for cleaning ANY parts or finishes used on lighting fixtures—glassware, porcelain, etc.	.....	20-lb drum 50-lb drum 100-lb drum	\$4.70 10.20 19.00
Type 1UCOA Heavy Duty Dry Cleaner (Liquid Form)	Recommended for cleaning reflectors of open-type fixtures and surfaces that are very dirty.	.....	1-gal can 1 case of 6, 1-gal cans 5-gal drum 10-gal drum	3.75 20.25 14.50 27.00
Type D50R1 Alzak Abrasive Cleaner (Paste Form)	Recommended for cleaning reflectors of open-type fixtures and surfaces that are very dirty or have become corroded or pitted. Do not use on reflectors that have a protective coating of clear lacquer, e.g., Type M-2 sodium luminaire and Type SO reflector.	90X1	1-gal can	Net Price \$3.00

†Vendor's Designation.



Cat. No. 71X890, brush

CLEANING BRUSH
Cat. No. 71X890
\$0.60 Net Price
Order from Lynn River Works

TYPE D50R1 ALZAK ABRASIVE CLEANER (paste form)

Is recommended for cleaning reflecting surfaces that have become pitted or corroded. It contains a mild abrasive compound that is very effective in cleaning off the pitted or corroded parts of the reflector.

Use soft bristle brush, Cat. No. 71X890, or similar. Wet brush with cold water. Dip brush in cleaner and scrub surface until dirt loosens. Allow to dry and wipe off with soft cloth.

This cleaner should not be used on reflectors with lacquer (plastic seal) finish, e.g., Type M-2 sodium luminaires and Type SO reflectors, since it is abrasive and will remove the finish.

NEGLECT OF THE REFLECTING SURFACE OR USE OF IMPROPER CLEANING MATERIALS MAY CAUSE PERMANENT DAMAGE—PLAY SAFE BY CLEANING REGULARLY WITH SAFE MATERIALS.

SEALING COMPOUND FOR PIPE JOINTS

The joint between the hood of any pendent luminaire and the supporting bracket should always be sealed to prevent water-drip from breaking the lamp. No. 1201 Glyptal-Red is very suitable for this purpose. It should be applied to the threads before assembly—a watertight joint cannot be made by painting it on afterward.

No. 1201 Glyptal-Red is put up in pint, quart, gallon, and 5-gallon cans and is sold by General Electric Merchandise Distributors. Prices on application.

Cleaning Open Reflectors

TYPE UCOA HEAVY DUTY DRY CLEANER (liquid form)

Is applied by means of a damp cloth. It is then wiped off with a soft dry cloth after it has been allowed to dry.

Care should be taken in cleaning reflecting surfaces which are protected with a lacquer (plastic seal) finish. Cleaning this type reflector can normally be accomplished by using a damp cloth or washing with a mild soap and water.



For G-E Floodlights

For Use with Flood-light Type	Door Glass				Reflector			Sockets		Parts Bulletin	
	Diam in. In.	Type	Cat. No.	*List Price	Cat. No.	Remarks	*List Price	Cat. No.	Price		
L-24	19 13/16 19 13/16 19 13/16	Plain Lt. Stipple Spreadlight	Clear Clear Clear	4830575G1 4830576G1 3717251G1	\$17.00 17.00 17.00	12X321 1257901P1	Glass Rear Glass Front	\$12.60 37.00	1172666G3	\$0.90 net	GEF-1089
L-29	11 1/4 11 1/4 11 1/4	Plain Lt. Stipple Hvy. Stipple	Clear Clear Clear	4830572G1 4830574G1 4830573G1	5.00 5.00 5.00	3758292P1 4802348P1	For General Service Lamp For Floodlight Lamp	9.00 9.00	78X169	*1.20	GEF-2916
L-30	15 3/4 15 3/4 15 3/4 15 3/4	Plain Lt. Stipple Hvy. Stipple Spreadlight	Clear Clear Clear Clear	4830571G1 4830570G1 4830569G1 3706486G1	9.00 9.00 9.00 9.00	3740770P1	Gloss	21.00	45X841	.90 net	GEF-2935
L-31	15 3/4	Same as L-30			3758242P1	Glass	21.00	45X841	.90 net		GEF-2924
L-33	10 3/4	Plain Hvy. Stipple Spreadlight	Clear Clear Clear	4830577G1 4830578G1 4815467G1	5.00 5.00 5.00	4802488P1	Glass	7.50	49X349	*.80	GEF-2572
L-34	19 13/16	Same as L-24			4865493G5 4865493G3	Glass	35.00 35.00	45X841 45X841	.90 net		
L-35	8 3/4	Plain	Clear	4815033G1	1.20			49X987	*.50		
L-36	9 1/4	Plain	Clear	4815510G1	2.70			49X987	*.50		
L-38	11 1/4	Same as L-29			4830549P1	Glass	9.00	8478259	*1.00		GEF-2554B
L-41	15 3/4	Same as L-30			3740770P1	Glass	21.00	45X841	.90 net		GEF-2570
L-43	15 3/4	Same as L-30			4830613G4	Metal, specular finish	20.00	78X332	*1.40		GEF-3429
L-45	.....	None			4830754P3	Metal, diffuse finish	11.00	78X332	*1.40		
L-46	14 1/4	None			4865164P1	Porcelain enamel	9.00	78X332	*1.40		
L-49	14 1/4	Plain	Clear	4865758G1	6.00	4815219G1 4815219G2	Metal, specular finish Metal, diffuse finish	20.00 16.00 11.00	78X332 78X332	*1.40 *1.40	GEF-3429
L-68	18	Plain	Clear	5562041P1	12.00	5562262G1 5562262G2	Metal, specular finish Metal, diffuse finish	24.00 17.00	78X332	*1.40	GEF-3399
S-1	19 3/16	Same as L-24			3706432G3	Glass	70.00	Mogul 45X841 Prefocus 23X546	.90 net *7.90		
S-3	13 3/4	Plain	Clear	4865012G1	6.00	3706431P4	Glass	40.00	Mogul 36X243 Med. Prefocus 292380	*1.75 *2.80	
S-5	18	Plain	Clear	5562041P1	12.00	5562621G1	Glass	62.50	Mogul 45X841 Prefocus 23X546	.90 net *7.90	GEF-3316

* GO-34 Discount

STREET-LIGHTING REFLECTOR AND SOCKETS

Reflector



Cat. No. 4897140
20-in.-diameter deep-dome radial-wave reflector
Net price, \$4.30 each

Series Mogul Sockets



Cat. No. 4815866G1
Porcelain shell
Net price, \$1.30 each



Cat. No. 4815866G2
Textolite shell
Net price, \$1.30 each

Film Cutouts



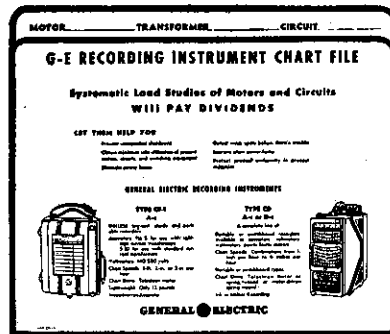
Cat. No. 4815920G1
1 1/2-in.-diameter, 100-200 volts
Net price, \$3.50 per 100

All lighting equipment should be thoroughly cleaned on a regular schedule.



G-E Recording Instruments Supplies

Strip-chart Record Rolls for Recording Instruments



FILE FOR STRIP-CHART RECORDS

This is a convenient folder for filing sections of strip-chart recorder records. Dimensions are 10 by 11 1/4 in. to fit into standard filing cabinets. Order folder GES-2289. Price .2 cents net each.

CLASS I

Types C to C-9 inclusive, and CP. Standard record rolls have speeds of 1, 2, 3, 6, and 12 inches per hour.

CLASS II

Types CP-2 to CP-7 inclusive, and C-32 to C-37. No time stampings are furnished on standard record rolls. Arbitrary figures 1 to 24 are stamped on record rolls, spaced 3 inches apart.

Types C-18 to C-21. Standard chart speeds are 1, 3, 6, and 12 inches per hour.

CLASS III

Types C-10 to C-17, inclusive, C-22 to C-25, and CK-1 to CK-25, inclusive. Standard chart speeds are 1, 3, 6, and 12 inches per hour.

CLASS IV

Special record rolls.

CLASS V

Types CD-1 to CD-36, inclusive, CD-39 to CD-48, inclusive, CD-J, and CDP-1 to CDP-6. Standard record-roll speeds are 1, 2, 3, 4, and 6 inches per hour.

CLASS VI

Photoelectric recorders.

CLASS VII

Types CF-1 and CF-2. Standard record rolls have speeds of 1, 2, and 3 inches per hour, and 1 inch per day.

TIME STAMPINGS

1-inch-per-hour speed—time stamp every 3 hours
2-inch-per-hour speed—time stamp every hour
3-inch-per-hour speed—time stamp every hour
4-inch-per-hour speed—time stamp every hour
6-inch-per-hour speed—time stamp every hour
12-inch-per-hour speed—time stamp every hour
1-inch-per-day speed—no time stamp

Record-roll No.	Used with Class	Record-roll No.	Used with Class	Record-roll No.	Used with Class	Record-roll No.	Used with Class
2001-2470	I	3017-3018	I	3624	IV	6750-6899	II
2471	IV	3019	II	3625-3632	I	8001-8987	V
2472-2482	I	3020-3298	IV	3633	IV	8988	VI
2483	IV	3299	IV	3634-3639	I	8989-9200	V
*2484-2791	I	3300-3363	I	3640	III	9201-9221	VI
2792-2797	I	3364	IV	3641-3672	I	9222	†
2798	IV	3365-3482	I	3673	IV	9223	VI
2799-2807	I	3483	IV	3674-3700	I	9224	†
2808	IV	3484-3493	I	3701-3729	III	9225-9227	VI
2809-2890	I	3494	IV	3730-3750	III	9228-9229	†
2891	IV	3495-3574	I	3751-3850	I	9230	VI
2892-2945	I	3575	III	3851-3899	IV	9231-9235	†
2946-2948	I	3576-3582	I	3900-3950	I	9236-9260	VI
2949-2984	I	3583-3586	III	3951-4750	II	9261	†
2985-2986	IV	3587-3599	I	4751-4850	III	9262-9300	VI
2987-3011	I	3600-3601	III	4851-5000	IV	9301-9745	V
3012	IV	3602-3606	I	5001-5500	I	9746	IV
3013	I	3607-3609	III	5501-5600	IV	9747-9999	V
3014	IV	3610-3612	I	5601-5700	VII	10000-10500	VII
3015	I	3613	III	5701-6000	II		
3016	II	3614-3623	I	6001-6699	II		

* Numbers between 2501 and 2675 have also been used for flowmeter charts. Care should be exercised that orders do not call for record rolls when flowmeter charts are required.

† New numbers have been assigned to these record rolls. When orders specify the old number, rolls printed with the new numbers will be shipped.

Quantity	RECORD-ROLL CLASS													
	I		II		III		IV		V		VI		VII	
	List Price, Each	Made to Order	List Price, Each	Made to Order	List Price, Each	Made to Order	List Price, Each	Made to Order	List Price, Each	Made to Order	List Price, Each	Made to Order	List Price, Each	Made to Order
1-4	\$1.10	*	\$2.15	*	\$2.15	*			\$1.35	*	\$1.35	*	\$1.10	*
5-9	1.05	\$2.00	2.05	\$2.85	2.05	\$2.85			1.30	\$2.25	1.30	\$2.25	1.05	\$2.00
10-24	1.00	1.70	1.95	2.35	1.95	2.35			1.25	1.95	1.25	1.95	1.00	1.70
25-49	.95	1.40	1.85	2.25	1.85	2.25			1.20	1.65	1.20	1.65	.95	1.40
50-99	.90	1.10	1.75	1.95	1.75	1.95			1.15	1.35	1.15	1.35	.90	1.10
100-499	.80	.80	1.65	1.65	1.65	1.65			1.05	1.05	1.05	1.05	.80	.80
500 or more	.75	.75	1.55	1.55	1.55	1.55			1.00	1.00	1.00	1.00	.75	.75

* Minimum order is five.

GO-83

Recording-instrument inkwells should be cleaned periodically.

Keep it General Electric with G-E Renewal Parts



G-E Recording Instruments Supplies

ROUND CHARTS FOR RECORDING INSTRUMENTS

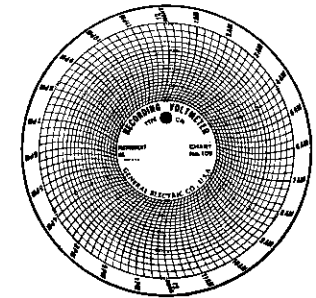
Types CR, CR-2, CR-7, CR-8, CR-9, CR-16, CR-17, CR-18, CR-19, CR-20, CR-21, CRP, CRP-4, CRP-5, CRP-6, CR-24, CR-25, and CR-26

Chart No.	One Revolution in	Chart No.	One Revolution in	Chart No.	One Revolution in	Chart No.	One Revolution in
109-117	24 hr	238-282	24 hr	306-312	7 days	335-337	24 hr
120-121	24 hr	283	7 days	313-314	24 hr	338-339	7 days
123-178	24 hr	284-288	24 hr	315	7 days	341-342	24 hr
180-191	24 hr	290-295	24 hr	316-321	24 hr	343	7 days
193	24 hr	296-299	7 days	323-326	24 hr	344-353	24 hr
195-227	24 hr	300-302	24 hr	328-329	24 hr	354	7 days
229-232	24 hr	303-304	7 days	330-331	7 days	355-449	24 hr
234-235	24 hr	305	24 hr	332	24 hr	450-500	7 days
				333-334	7 days		

Charts are furnished only in standard packages of 100 or multiples thereof. The quantity to determine price is the total quantity ordered.

List Price
GO-87B

Quantities 100-400.....\$2.10 per C
Quantities 500-1900.....1.85 per C
Quantities 2000 and above..1.65 per C



G-E RECORDING INSTRUMENTS SUPPLIES AND ACCESSORIES

(In ordering, give serial number of instruments)

Description	Cat. No.	List Price, Each GO-83	Description	Cat. No.	List Price, Each GO-83
For Types C-4 to C-9 inclusive			For Type CE (Photoelectric)		
Pen for Types C to C-5 and CP	97X215	\$3.00	Lamp for light source	8908609P1	\$1.00
Pen for Types C-6 to C-9, inc.	1239752P46	5.00	Pen—Models BCE1, 2, 3, 4	8908653G1	7.75
Inkwell fillers			Models BCE5 and 6	8943358G1	7.00
For C to C-5 and CP	4125819	.20	Inkwell (porcelain)	4120691P1	2.00
For C-6 to C-9	1289603	1.00	Inkwell filler	1289603	1.00
For Types C-32 to C-37, CP-2 to CP-7, and C-18 to C-21 inc.			Plug (120-volt 60-cycle supply) to fit recessed receptacle	2713	.75
Pen		7.00	Complete power cord—5 ft long	8908936P1	2.00
Inkwell (celluloid)	1280990	.30	10 ft long	8908936P2	2.50
Inkwell supporting plate	1289964	.20	Tubes—Type 6SJ7		1.00
Gasket for inkwell	1283012	.20	Type 6V6GT		1.30
Inkwell filler	1289603	1.00	Type 6X5GT		1.00
Armature-shaft pivot	4124268	.20	Photo tube Type GL868PJ23		5.00
Lower jewel	1297227	4.00	Fuses, 1-amp, 3AG size	132765	.10
Upper jewel	1285560	3.00	For Types CF-1 and CF-2		
For Types CD and CDP			Typewriter ribbon, black (on spool)	4141571P1	1.00
Pen	1294486G1	7.00	Typewriter ribbon, red (on spool)	4141571P2	1.00
† Inkwell (porcelain)	4120691P1	2.00	Empty spool	4141570	.30
Inkwell filler	1297117	.80	Lamp, G-43, 2 1/2 volt	69X189	.15
Armature-shaft pivot	4124268	.20	For Types CR and CRP		
Lower jewel	1297227	4.00	Pen (glass pen with pen arm and support)	1281292	5.00
Upper jewel	1285560	3.00	Pen filler	4125819	.20
Pivot wrench	4116176G1	.60	Clock key	4117815	.30
Magnet wrench	97X226	.20	For All Types		
Clock key	4125914	.50	Pen cleaner (specify type of instrument)	1281943	.20
* Key for clock and reroll	4114832	1.00	Pen starter	4126265	.50
For Inkless Type CD			Inks		
Stylus	1299664G1	3.00	Ink Formula No. 21 for all types recording instruments		
Typewriter ribbon, black (on spool)	4141571P1	1.00	2-oz bottle	97X216	1.00
Typewriter ribbon, red (on spool)	4141571P5	1.00	8-oz bottle	97X217	2.20
Typewriter ribbon, red (on spool), light-inked for use with 1-inch-per-day chart speed only	4141571P4	1.00	1-pt bottle	97X218	3.40
Empty spool	4141570	.30	1-qt bottle	97X219	5.50
			Sealing Oil		
			For inkwells for Types C-6, C-7, C-8, and C-9		
			2-oz bottle	97X220	.40
			8-oz bottle	97X221	.80
			1-pt bottle	97X222	1.20
			1-qt bottle	97X223	2.00

*This is for old-style instruments which had a separate spring-driven reroll.

†Instruments originally furnished with cast-metal inkwells can be changed to use the larger porcelain inkwells by installing one each of brackets. Cat. No. 4131209 and 4131210. Price per set of two brackets \$0.60 list. Order porcelain inkwell separately.

Formula No. 21, blue ink, is recommended for use in all General Electric recording instruments. In cases where customers require a different-color ink or insist on one of the older formulas, we are prepared to furnish any of the following:

For use only with strip-chart instruments and not suitable for use with round-chart instruments.

Supersedes Formulas
Formula 16A—Red Ink 1, 4, 16
Formula 18A—Green Ink 10, 18
Formula 20A—Blue Ink 6, 20

For use with all types G-E Recording Instruments.

Supersedes Formulas
Formula 17—Red Ink 2, 3, 5, 15
Formula 19—Green Ink 9, 12, 13
Formula 21—Blue Ink 7, 11

All of these inks, as well as No. 30 black ink used in photoelectric recorders, have the same price as No. 21 listed above.

Keep it General Electric with G-E Renewal Parts

Magnet Wire

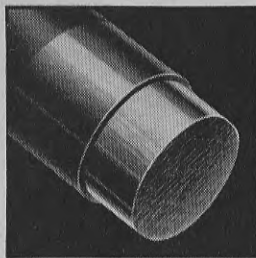


Fig. 1
Formex or enamel wire

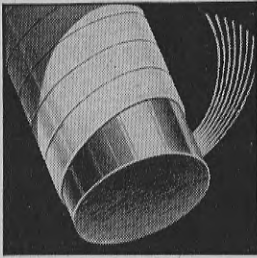


Fig. 2
Single-cotton-covered wire

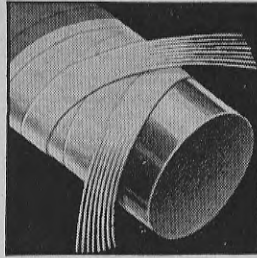


Fig. 3
Double-cotton-covered wire

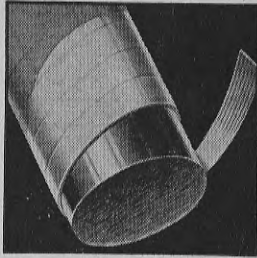


Fig. 4
Bonded-cotton-covered wire

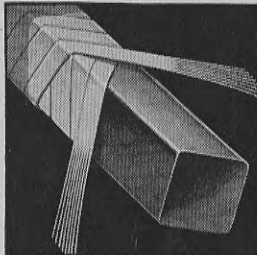


Fig. 5
Square double-cotton-covered wire

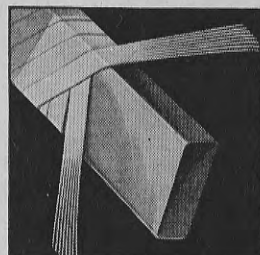


Fig. 6
Rectangular double-cotton-covered wire

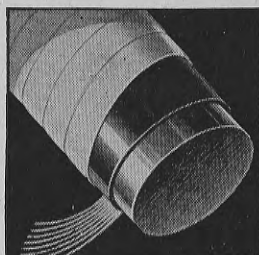


Fig. 7
Single-cotton, plain-enamel covered wire

Types of G-E Magnet Wire

*Formex, enamel, and cotton magnet wire. Various combinations of these basic types are often used. There is no universal wire insulation. Each application may have its own particular requirements to which consideration must be given when selecting wire.

Copper Conductor

These fully conform with the specifications of ASTM (B3-45) covering soft or annealed copper wire.

Formex Wire

A development of the General Electric Company. Outstanding characteristics:
Low space factor
Unusual toughness
Flexibility
Resistance to many solvents, oils, refrigerants, and to similar other harmful agents.

Electrically it is equal to conventional enameled wire having comparable film thickness.

G.E. manufactures round sizes No. 8 Awg to 0.001 inch inclusive.

* Trade-mark reg. U. S. Pat. Office.

APPLICATION AND ADVANTAGES

Because of its superior physical properties, Formex wire, on many applications, may be used to replace the more expensive and more bulky types of insulation—such as cotton, silk, paper, etc. Publication GEA-3911

Cotton-covered Wire

Consists of a warp or warps of specially selected cotton yarn applied over the conductor. Single-cotton-covered wire has one warp of cotton applied to the conductor. Double-cotton-covered wire (DC) has two warps of cotton applied to the conductor, the outer warp being applied in the reverse direction to the inner warp.

Untreated cotton is classified as Class O insulation under the AIEE rules but, when properly treated, it is Class A insulation.

General Electric cotton-covered wire meets all the NEMA specifications for this type of material.

As a conductor insulation, cotton adds very little to the dielectric strength. Its chief functions are as a spacer to provide mechanical protection, and as a matrix for varnishes and compounds.

G.E. manufactures Awg Sizes No. 1 to No. 24 inclusive.

Magnet Wire

Square and Rectangular Wire

Manufactured in sizes listed below:

Heavy Formex

RECTANGULAR WIRE

Max thickness.....162 mils
Max width.....400 mils
Max width X thickness.....40,000 sq mils
Min thickness.....25 mils
Min width X thickness.....2500 sq mils

Width should be at least 50 per cent greater than the thickness for easy handling. In the event that rectangular wire cannot be used, square wire in sizes 0.102 in. to 0.162 in., inclusive, can be made.

Single- and Double-cotton Covered

SQUARE WIRE

Smallest: 0.064 in. by 0.064 in.
Largest: 0.289 in. by 0.289 in.
Cross-sectional area not to exceed 83,500 square mils.

RECTANGULAR WIRE

Width not to exceed 1.00 inch.
Cross-sectional area not to exceed 250,000 square mils; ratio of width to thickness not to exceed 40.

Minimum limits are:

Thickness, not less than 0.025 in.

Width, not less than 0.050 in.

For further details, address the nearest G-E Construction Materials Sales Office, or write direct to General Electric Company, Wire and Cable Division, Bridgeport, Conn.

Prices

Magnet-wire prices are computed for each size of wire by adding to the standard magnet-wire base an amount called an advance per hundredweight. Normally, magnet-wire base fluctuates with the market price of copper.

Capacity in Lb of Standard Reels and Spools of Formex and Enamel Wire

Size Awg	Size Spool in. in.	Capacity in Lb		Size Awg	Size Spool in. in.	Capacity in Lb	
		Min	Max			Min	Max
7-9	20	100	250	25-30	6	7	13
10-17	16	75	140	31-34	4 1/2	4	7 1/4
18-24	12	40	80	35-40	3	1	2 1/4

Total weight of any order will not exceed ±10 per cent.



Insulating Materials

G-E INSULATING MATERIALS

The purchaser of G-E insulating materials buys products that are backed by the resources of the largest manufacturer of electric equipment in the world—products that are recommended for his needs on the basis of exhaustive tests.



G-E Varnishes

The G-E line of insulating and finishing varnishes includes clear air-drying, clear-baking, black air-drying, and black-baking varnishes. There's a G-E varnish to meet virtually every specific need.

G-E Glyptal

Glyptal is the G-E trade-name for a synthetic-type resin made by the chemical combination of a polyhydric alcohol, a polybasic acid, and various oil and oil-acid modifications. Glyptal imparts toughness, its adhesion is good (it improves with heat aging), and it is flexible and oil resistant. Its resistance to acids is generally fair.

G-E 1201 Glyptal Red is an air-drying or quick-baking Glyptal, noted for its protection of coil windings, metallic surfaces, porcelain, molded insulation, fiber, etc. It reduces maintenance costs because it protects machines, controls, insulation, etc., against arcing, moisture, oil, heat, alkali, dust, salt air and acid. It is noncarbonizing under arcing, and is resistant to abrasion, to kerosene and gasoline when baked, and to sodium carbonate and oleic acid. It has a smooth, hard, glossy surface, and has comparatively high dielectric strength, high surface resistance, tenacious adherence to the underlying surface, and a high degree of flexibility.

G-E 1201-B Glyptal Red is like G-E 1201, except that it is of a heavier consistency. It is recommended as a filler or sealer for joints of various types to prevent leakage of oil, gas, water, and other fluids.

G-E Papers and Fibers

All G-E papers and fibers are selected for high insulating properties, uniformity of thickness, and great tensile strength. The line includes pressboard, rawhide fiber, asbestos paper, insulating paper (1874), varnished paper, composite slot insulation, and vulcanized-fiber sheets, rods, and tubing.

G-E Tapes and Cloths

G-E varnish-treated cloth tapes and varnished cloths are identical with those used in the manufacture of G-E equipment. They are available in various qualities, thicknesses, and weaves to meet specific requirements. The tapes include armature, cotton, friction, mica, rubber, stay binding, surgical webbing, and varnished cloth.

G-E Cords, Twines, Sleeveings, and Tubings

G-E cords, twines, sleeveings, and varnished tubing are made of materials selected for their ability to provide additional insulation protection.

G-E Armature Wedges

G-E armature wedges are manufactured in a great variety of shapes, widths, and thicknesses; hence, the proper wedge for practically every need is available. They are made from hard maple, and each wedge conforms to rigid specifications regarding its grain, hardness, and freedom from danger of splitting.

G-E Soldering Materials

G-E 291 soldering fluid is a liquid, nonacid soldering fluid, for use on surfaces previously cleaned or tinned. The solvent of this flux is inflammable.

G-E 294 soldering salt solution is an acid flux in liquid form.

G-E 295 soldering flux is an acid flux in stick form, generally used for dirty and difficult work. It is the same as G-E 294 soldering salt solution, except that it is supplied in stick form.

G-E 1533 soldering flux is a noncorrosive flux made in stick form.

G-E 2103 soldering flux is a noncorrosive flux made in stick form.

G-E 293 soldering paste will solder all metals except aluminum.

G-E core solder will solder all metals except aluminum. It takes the place of acid- or rosin-core solder.

Mica

Mica comprises a group of natural silicates that can be split into thin, tough, flexible layers. When properly selected and prepared, mica generally is the most satisfactory insulation known. It has exceptionally good electrical properties, such as dielectric strength and dielectric power loss, is stable under varying atmospheric conditions, and is particularly useful at elevated temperatures.

Complete data on all G-E insulating materials are given in the G-E Insulating Materials Catalog, which may be obtained free by writing to your local distributor or to General Electric Co., Chemical Department, 1 Plastics Ave., Pittsfield, Mass.



Welding Equipment

RENEWAL PARTS

To help you keep your G-E welders in top operating condition, General Electric offers you a complete line of high-quality renewal parts. These parts are manufactured from our factories' material and design specifications—the **same** specifications (with all up-to-date improvements) which control the manufacture of new equipment. Always specify genuine G-E renewal parts to keep your G-E equipment in top condition.

Your nearest General Electric Welding Distributor will give you prompt service on your orders for renewal parts.

ACCESSORIES

General Electric also manufactures the most complete line of welding accessories available to industry. Bulletin GEC-253 describes this line in detail. For efficient, safe operation, use G-E welding accessories.

G-E Distribution Transformers

The quickest way to obtain new bushings, gaskets, or other maintenance supplies for distribution transformers is to state on your order the name or description of the part wanted, together with the serial number which appears on the transformer nameplate.

Those who have occasion to order transformer parts frequently may find it convenient to specify only the part catalog numbers. These catalog numbers may be determined from Publication GEF-2612.

Complete sets of replacement core-and-coils are available for modernizing small G-E distribution transformers. Their use has many advantages over the mere repair of old transformers, such as attainment of up-to-date electrical characteristics, high insulation strength, and more prompt restoration to service. This modernization can be achieved at reasonable cost. Full details upon request.



WE believe there are sound reasons for installing only G-E *renewal parts* in your G-E equipment.

These renewal parts are exact duplicates of the originals in size. This makes installation easy—saving you time and money. They are the *right* size because they are made in accordance with accurate records which are kept for all G-E apparatus now in service, not from casual measurements. Obviously, General Electric is the only manufacturer that can offer you this advantage.

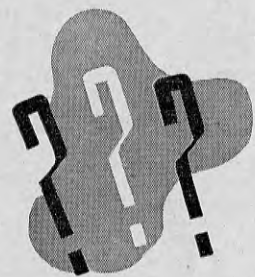
These renewal parts have incorporated in them the latest developments in design and manufacture. They are results of the constant research for better products that keeps General Electric years ahead.

They come to you from the one company that has a continuing interest in the performance of all your G-E equipment. It is to our interest to be sure that G-E apparatus is always ready to deliver satisfactory performance.

These renewal parts pass *all* their tests—not only the General Electric factory tests, but the supreme test of dependable service in your plant—the service for which they are built.



The RIGHT MAKE PREVENTIVE



Which of these
G-E Testing Instruments
Do You Need?

Here's a Good SHORT-CUT METHOD of Determining Induction-motor Horsepower from Ammeter Readings

Here are seven simple steps to take:

- 1 Plot a chart with "per cent hp" against "per cent full-load amperes" for each motor.
- 2 Locate point *A* as 100 per cent from motor nameplate reading of amperes at rated hp of motor. (Also, it is assumed that the nameplate voltage is maintained.)
- 3 Disconnect motor from load, read no-load amperes with ammeter, and locate point *C* in percentage of full-load current (approximately 25 to 45 per cent, depending on speed of motor).
- 4 Locate point *D* halfway between 0 and *C*, and draw line *DA*.
- 5 Locate point *B* on line *DA* at 50 per cent of the motor hp rating, and draw *CB*.
- 6 Then line *ABC* will be the approximate curve of the per-cent-horsepower output of the motor plotted against per cent of motor current.
- 7 For any motor current, read in amperes, calculate the percentage of the full-load current, follow horizontally until line *ABC* is intersected. Then drop down vertically, and read the per cent load of the rated hp of the motor.

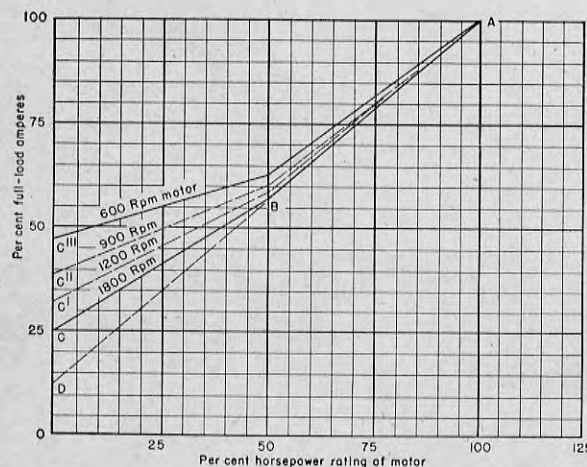
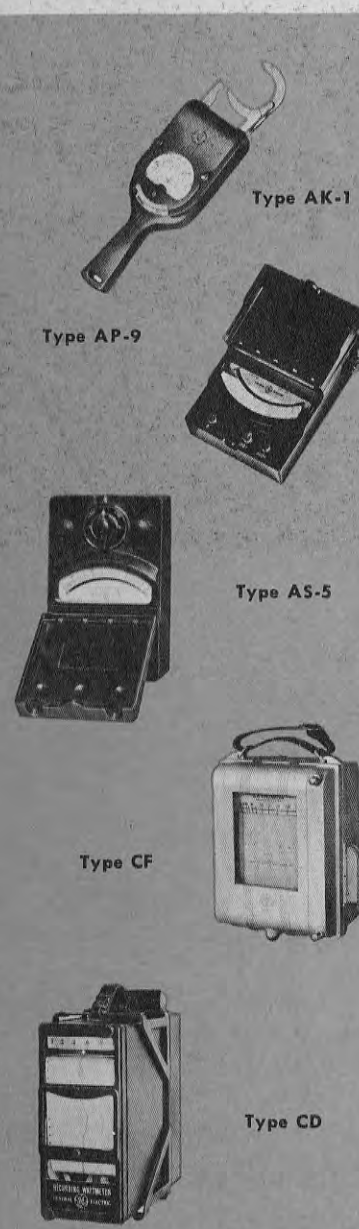


Fig. 1. Curve for estimating horsepower output of a motor at any load by hook-on-volt-ammeter readings (maintained voltage assumed)

Keep it General Electric with G-E Renewal Parts

INSTRUMENTS MAINTENANCE A CINCH



TYPE AK-1 HOOK-ON VOLT-AMMETER (A-C)—Here's the handiest type of instrument for quick load checks. Forget about cutting conductors or interrupting service. Just hook it around the line, flick the selector switch to AMPERES, and you have your measurement. It measures volts also—connect the voltage leads, snap the switch to VOLTS, and take your reading. Accuracy, ± 3 per cent. (Bulletin GEA-2950.)

TYPE AP-9, MEDIUM-SIZE A-C PORTABLES—AND TYPE DP-9, D-C—You'll want this instrument for jobs requiring a high degree of accuracy—it's accurate within $\frac{1}{4}$ of one per cent. It is very portable—size only $2\frac{1}{2}$ by $6\frac{1}{2}$ by $4\frac{1}{4}$ inches. Available in a-c ammeters, voltmeters, milliammeters, and wattmeters; and d-c ammeters, voltmeters, milliammeters, microammeters, and millivoltmeters. (Bulletin GEA-1784.)

TYPE AS-5, POCKET-SIZE A-C PORTABLE—AND TYPE DS-5, D-C—This one fits easily in a coat pocket (size, 2 by $3\frac{1}{2}$ by $5\frac{1}{2}$ inches), yet it is accurate within one per cent. Available in a-c ammeters, voltmeters, and milliammeters; and d-c ammeters, voltmeters, milliammeters, microammeters, and millivoltmeters. (Bulletin GEA-1784.)

TYPE CF INKLESS RECORDERS (PORTABLE AND SWITCHBOARD)—Often, a chart record of load or voltage conditions over a period of time is needed to study the duration of peaks and the time when they occur. The CF line of recorders is ideal for this purpose. They're inkless—ready to go at a moment's notice—no pen to start, no inkwell to fill, and no ink to spill and blur the record. Weight, only 12 pounds each. They are very accurate—ac voltmeters, within $1\frac{1}{2}$ per cent; ammeter, within 2 per cent. Available in a-c ammeters, voltmeters and single-phase wattmeters; and d-c ammeters, voltmeters, milliammeters, microammeters, and millivoltmeters. (Bulletin GEC-215.)

New Low Chart Speed—You can now get a 30-day record on a 30-inch chart—with our new one-inch-per-day chart speed. This simplifies survey analysis. Speeds of 1, 2, and 3 inches per hour can be obtained for applications requiring a higher chart speed.

TYPE CD, INK RECORDERS (PORTABLE AND SWITCHBOARD TYPES)—These recorders are ideal for those applications where a high degree of accuracy is very important. Either ink-type or inkless. They are available in a-c ammeters, voltmeters, wattmeters, power-factor meters, and frequency meters; and in d-c ammeters, voltmeters, milliammeters, millivoltmeters, and wattmeters. (Bulletin GEC-216.)

CURRENT-MEASURING SETS (A-C)—Any of the above ammeters can be supplied equipped with a Type G-4 split-core current transformer—the AK-1 has the transformer built in. Thus, you can obtain the "hook-on" advantages in these other instruments, too, for load measurements. The transformer is shown both separately and applied to a CF-1 recording ammeter. (Bulletin GEC-373.)

RUBBER-COVERED LEADS—Flexible rubber-covered leads are available in 10-foot and 50-foot lengths. A plug is provided for connection to the split-core current transformer, and the terminals are molded in rubber for connection to the instrument.

POINTER-STOP INSTRUMENTS—These instruments are suitable for the measurement of rms current which flows for a short period of time, such as $1/20$ second or more (3 cycles or more on a 60-cycle system). Typical applications include measurement of resistance-welding current, measurement of motor-starting current, and measurement of voltage dip.

Conventional ammeters usually require from one to two seconds, after the current flow starts, to reach the correct indication. Thus, if the current is an impulse, lasting only a fraction of a second, the instrument pointer does not have time to reach the proper position. The same condition applies to voltmeters used to measure voltage dip that is caused by current impulses.

The term "pointer-stop" is applied to indicating instruments equipped with an adjustable pointer stop that can be placed (by means of an external knob) at the approximate scale value of the current or voltage being checked. Thus, an accurate indication of current or voltage is obtained when the pointer barely changes from the value at which it is set.

This pointer-stop feature has been applied to G-E Types AD-6 and AD-7 switchboard instruments, and Type AP-9 portables. The pointer-stop does not interfere with the instrument being used as a conventional ammeter.



Prices can be obtained by writing, to the Company shown on the front cover, for the bulletin listed.

GENERAL  **ELECTRIC**