



RENEWAL PARTS

GEF-4164B
Supersedes GEF-4164A

FOR CONTACTORS IC2812 AND IC2814

-E120-A, -B, -C;

-E121-A, -B, -C;

-E130-A, -B, -C, -D;

-E131-A, -B, -C;

-E140-A, -B, -C

-E141-A, -B, -C, -D.

NOTE:—When ordering parts for a form of the contactor not covered by this bulletin, give reference number, description of part, complete nameplate reading, and above bulletin (GEF) number. *Do not use catalog number when form for which the parts are needed is not covered by the bulletin.*

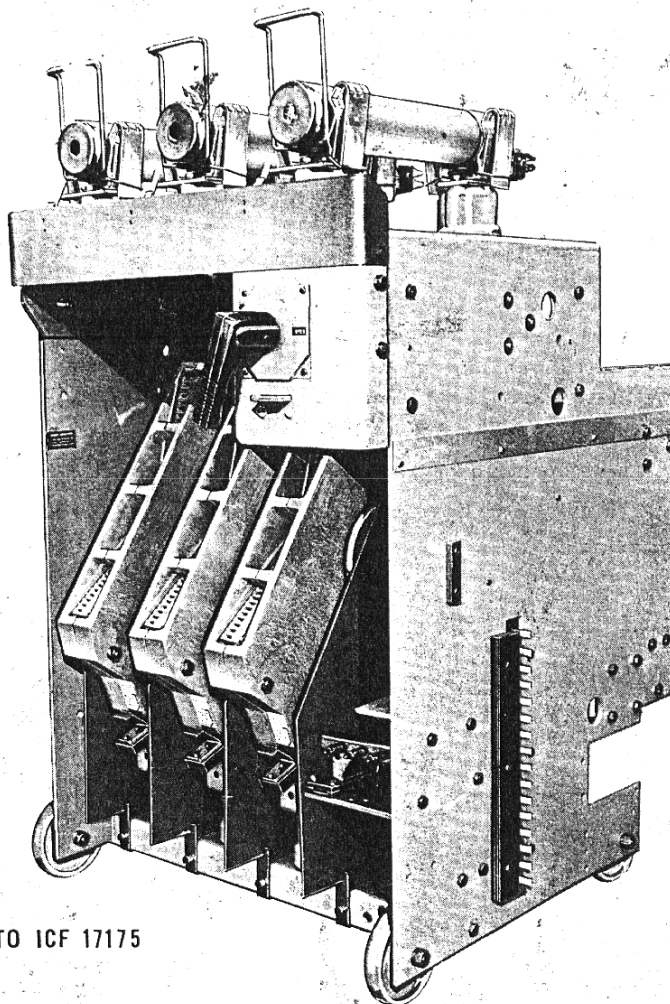


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When ordering renewal parts, give quantity, catalog number, description of each item required, and complete nameplate reading.

GENERAL  ELECTRIC

GENERAL INFORMATION

COVERAGE: This bulletin identifies all of the parts used in all of the models and forms of contactors listed on the cover.

REFERENCE NUMBERS: The Reference numbers on the illustration correspond to the Reference numbers in the left hand columns of the numerical lists.

NUMERICAL LISTS: There are nine numerical lists in this bulletin. Each list is devoted to a particular category of parts:

- LIST # 1 Parts for Normal Stock. These are the parts recommended to be kept on hand by the user.
- LIST # 2 Operating Coils. This list shows all of the operating coils and how to determine which one fits your contactor. It is divided between A-C and D-C contactors.
- LIST # 3 Mechanical Interlock Parts. This list includes also the Standard Hardware for the interlocks. It is divided between A-C and D-C applications.
- LIST # 4 Interference Boxes. The Interference Boxes appearing in List # 3 are broken down in this list along with their Standard Hardware.
- LIST # 5 Electrical Interlock Parts. The same Electrical Interlock may fit A-C or D-C contactors, so no division is made in this list.
- LIST # 6 Blowout Coil & Pole Piece Assembly. This list merely identifies the proper Blowout Coil for the various Models and Forms of Contactors. The rest of the parts of this assembly are given as the first eleven parts in the next list. (List # 7, Ref. No. 68 through 78.)
- LIST # 7 Common Parts. All of the parts which fit all covered contactors in identical quantities appear in this list.
- LIST # 8 Other Parts. Those parts which fit only certain models or forms of contactors, or are used in varying quantities are found in this list.
- LIST # 9 Standard Hardware. This list contains all of the nuts, screws, washers, pins, etc. Quantities given are for the whole contactor. Reference Numbers for these parts are prefixed by "N" as are their catalog numbers. Their reference numbers run consecutively from 1 through 88.

Note: Some of these parts, though standard, are of special design and substitutes should be used with discretion.

FINDING YOUR PARTS:

- 1) Locate the required parts on the illustration in the center of the bulletin and note the Reference Numbers.
- 2) Using these numbers, refer to the numerical listings for the name and catalog number of your parts.
- 3) To facilitate this, keep in mind that the Reference Numbers run consecutively from 1 through 256, spanning Lists # 2 through # 8 and from N 1 through N 88 in List # 9.
- 4) If a part has more than one Reference Number on the illustration, the correct catalog number for your contactor is the one having a quantity given opposite it in the column headed by the model number of your contactor.
- 5) Reference Numbers that "bracket" a group of parts on the illustration indicate that the item is available as an assembly, and that individual parts within it may be obtained. When an assembly is ordered, all necessary standard hardware will be included.

ILLUSTRATION:

Because the Illustration portrays all of the parts in all of the contactors covered by this bulletin, there will be parts in some sub-assemblies that are not on your contactor. These will not be supplied when the correct catalog number is ordered.

WIRING:

Each Contactor covered by this bulletin contains two Wiring Harnesses.
The Upper Wiring Harness is Catalog No. 7075R44-P1.
The Lower Wiring Harness is Catalog No. 7075R44-P2.
D-C Contactors have a Jumper Wire between Magnet Coils.
The Jumper Wire is Catalog No. 7075R48-P2.
No wiring is shown on the illustration.

LIST NO. 1 PARTS FOR NORMAL STOCK

Ref. No.	Catalog Number	Qty Req'd for IC2812 & IC2814						Description
		-E120	-E121	-E130	-E131	-E140	-E141	
1 or 2	See list #2	1	2	1	2	1	2	Coil, Operating.
109	167A9956-G1	3	3	3	3	3	3	Tip, Movable Contact.
102	138A1125-G1	3	3	3	3	3	3	Tip, Stationary Contact.
112	2416875	3	3	3	3	3	3	Spring, Cont. Br'k't Compr.
168	138A1108-G1	6	6	6	6	6	6	Shunt Assy., (braided strap).
118	104B9930-G1	3	3	3	3	3	3	Arc Chute Assembly.

LIST NO. 2 OPERATING COILS.

Contactors IC2812 and IC2814-E120, -E130 and -E140 are A-C Contactors and require one A-C Coil - The last digit or digits in the IC designation is the operating coil number. EXAMPLE: IC2814-E120A24AA requires coil number 24 (Catalog No. 1D300-G121) in the list below.								
Ref. No.	Coil No.	Cat. No.	Coil No.	Cat. No.	Coil No.	Cat. No.	Coil No.	Cat. No.
1	2	1D300-G102	14	1D300-G114	26	1D300-G123	41	1D300-G130
	3	1D300-G103	15	1D300-G103	28	1D300-G123	42	1D300-G131
	4	1D300-G104	16	1D300-G104	29	1D300-G124	45	1D300-G132
	5	1D300-G105	17	1D300-G115	30	1D300-G125	46	1D300-G133
	6	1D300-G106	18	1D300-G116	31	1D300-G126	47	1D300-G124
	7	1D300-G107	19	1D300-G117	32	1D300-G127	48	1D300-G134
	8	1D300-G108	20	1D300-G118	33	1D300-G108	49	1D300-G135
	9	1D300-G109	21	1D300-G119	34	1D300-G122	50	1D300-G136
	10	1D300-G110	22	1D300-G120	35	1D300-G128	51	1D300-G133
	11	1D300-G111	23	1D300-G113	38	1D300-G129	52	1D300-G135
	12	1D300-G112	24	1D300-G121	39	1D300-G107		
	13	1D300-G113	25	1D300-G122	40	1D300-G103		
Contactors IC2812 and IC2814-E121, -E131 and -E141 are D-C Contactors and require two D-C Coils - The last digits in the IC designation are the operating coil number. EXAMPLE: IC2814-E121A212AA requires two coils number 212 (Catalog No. 22D95-G39) in the list below.								
Ref. No.	Coil No.	Cat. No.	Coil No.	Cat. No.	Coil No.	Cat. No.	Coil No.	Cat. No.
2	22	22D95-G20	25	22D95-G37	213	22D95-G37	216	22D95-G38
	23	22D95-G30	26	22D95-G38	214	22D95-G38		
	24	22D95-G39	212	22D95-G39	215	22D95-G38		

LIST NO. 3 MECHANICAL INTERLOCK ASSEMBLY PARTS

The Mechanical Interlock for your Contactor is identified by the FIRST LETTER SUFFIX in the model identification number. EXAMPLE: Contactor IC2814-E131A212AC uses all of the parts and quantities in column 'A' in the D-C Contactor list below. Suffix letter 'B' contactors use no Mechanical Interlock.

D-C Contactors -E121, -E131, -E141											
Ref. No.	Catalogue Number	Quantity Required									Description
		Suffix Letter									
		A	B	C	D	E	F	G	H	J	
3	477C371-G1	1	-	-	-	-	-	-	-	-	Interlock Assembly, Complete.
3	477C371-G2	-	-	1	-	-	-	-	-	-	Interlock Assembly, Complete.
3	477C371-G3	-	-	-	1	-	-	-	-	-	Interlock Assembly, Complete.
3	477C371-G4	-	-	-	-	1	-	-	-	-	Interlock Assembly, Complete.
3	477C371-G5	-	-	-	-	-	1	-	-	-	Interlock Assembly, Complete.
3	477C371-G6	-	-	-	-	-	-	1	-	-	Interlock Assembly, Complete.
3	477C371-G7	-	-	-	-	-	-	-	1	-	Interlock Assembly, Complete.
3	477C371-G8	-	-	-	-	-	-	-	-	1	Interlock Assembly, Complete.
4	979B444-G1	1	-	-	-	-	-	-	-	-	Interference Box Assembly.
4	979B444-G2	-	-	1	-	1	-	-	-	1	Interference Box Assembly.
4	979B444-G3	-	-	-	1	-	1	-	-	-	Interference Box Assembly.

LIST NO. 3 - MECHANICAL INTERLOCK ASSEMBLY PARTS (Cont.)

Ref. No.	Cat. No.	Quantity Required for Suffix Letter									Description
		A	B	C	D	E	F	G	H	J	
5	125A6088-P2	1	-	1	1	1	1	1	1	-	Bushing
6	144A4818-P1	1	-	1	1	1	1	1	1	1	Link
7	577A126-P10	1	-	1	1	1	1	-	-	-	Pin
8	144A4812-G5	-	-	1	1	2	2	-	-	1	Bellcrank & Yoke Assembly.
9	125A5947-P2	-	-	1	1	2	2	1	1	2	Rod
10	577A126-P9	-	-	1	1	1	1	1	1	1	Pin
11	577A142-P26	-	-	1	1	2	2	-	2	1	Spacer
12	577A142-P27	-	-	1	1	-	-	1	-	-	Spacer
13	144A4812-G2	-	-	-	-	-	-	1	-	1	Link & Yoke Assembly
14	144A4812-G4	-	-	-	-	-	-	-	1	-	Link & Yoke Assembly
15	144A4818-P2	-	-	-	-	-	-	-	-	1	Link
16	125A6088-P5	-	-	-	-	-	-	-	-	1	Bushing
17	2414879	-	-	-	-	-	-	1	1	1	Spring, Link or Bellcrank Rod Compr.
18	286A113-P27	-	-	1	1	1	1	-	-	-	Screw, 5/16-18x2-1/4-Spl.Th'd.Lgth.
19	117A7850-P1	2	-	2	2	2	2	2	2	4	Hair Pin Cotter
N44	N22P29020B	1	-	1	1	1	1	1	1	1	Screw-Slot Hd. 1/2-13x1-1/2
N59	N245P23B	2	-	4	4	6	6	1	1	5	Nut, Hex-5/16-18
N6	N405P42B	2	-	4	4	6	6	1	1	5	Lockwasher, Med. Sec. 5/16 hole
N43	N405P45B	1	-	1	1	1	1	1	1	1	Lockwasher, Med. Sec. 1/2 hole
N75	N503P1212B	-	-	2	2	2	2	2	2	2	Cotter Pin - 3/4 x 1/8
N76	N402P42B	-	-	-	-	-	-	2	2	2	Washer, Plain 5/16 hole

A-C Contactors -E120, -E130, -E140

Ref. No.	Cat. No.	Quantity Required for Suffix Letter									Description
		A	B	C	D	E	F	G	H	J	
3	477C345-G1	1	-	-	-	-	-	-	-	-	Interlock Assembly, Complete.
3	477C345-G2	-	-	1	-	-	-	-	-	-	Interlock Assembly, Complete.
3	477C345-G3	-	-	-	1	-	-	-	-	-	Interlock Assembly, Complete.
3	477C345-G4	-	-	-	-	1	-	-	-	-	Interlock Assembly, Complete.
3	477C345-G5	-	-	-	-	-	1	-	-	-	Interlock Assembly, Complete.
3	477C345-G6	-	-	-	-	-	-	1	-	-	Interlock Assembly, Complete.
3	477C345-G7	-	-	-	-	-	-	-	1	-	Interlock Assembly, Complete.
3	477C345-G8	-	-	-	-	-	-	-	-	1	Interlock Assembly, Complete.
4	979B444-G1	1	-	-	-	-	-	-	-	-	Interference Box Assembly
4	979B444-G2	-	-	1	-	1	-	-	-	-	Interference Box Assembly
4	979B444-G3	-	-	-	1	-	1	-	-	-	Interference Box Assembly
4	979B444-G4	-	-	-	-	-	-	-	-	1	Interference Box Assembly
20	577A197-P1	1	-	1	1	1	1	-	-	1	Yoke Pin
21	138A1139-P1	1	-	1	1	1	1	1	1	1	Link
22	138A1138-P1	1	-	1	1	1	1	1	1	1	Link Pin
23	125A5947-P2	-	-	1	1	2	2	1	1	-	Rod
24	577A142-P26	-	-	1	1	2	2	-	2	-	Spacer
25	577A142-P27	-	-	1	1	-	-	1	-	-	Spacer
26	577A126-P9	-	-	1	1	1	1	1	1	-	Pin
17	2414879	-	-	-	-	-	-	1	1	-	Spring, Link or Bellcrank Rod Compr.
28	118B3071-G1	-	-	-	-	-	-	-	-	1	Operating Mechanical Assy.
29	151A2000TE-P1	-	-	-	-	-	-	-	-	1	Bracket, Front
30	151A2012TA-P1	-	-	-	-	-	-	-	-	1	Bracket, Left Rear
31	151A2012TA-P2	-	-	-	-	-	-	-	-	1	Bracket, Right Rear
32	151A5888-P1	-	-	-	-	-	-	-	-	2	Guide, Plunger Operating Arm
33	151A5889	-	-	-	-	-	-	-	-	1	Solenoid
34	151A2013TE-G1	-	-	-	-	-	-	-	-	1	Arm Assy., Plunger Operating
N25	N405P39B	-	-	-	-	-	-	-	-	8	Lockwasher, Med. Sec. #10 hole
N5	N405P43B	-	-	-	-	-	-	-	-	1	Lockwasher, Med. Sec. 3/8 hole
N24	N57P16008B	-	-	-	-	-	-	-	-	4	Screw, Slot Hd., #10-32x1/2
N78	N57P16020B	-	-	-	-	-	-	-	-	4	Screw, Slot Hd., #10-32x1-1/4
N55	N22P25024B	-	-	-	-	-	-	-	-	1	Screw, Hex Hd., 3/8-16x1-1/2
N4	N245P25B	-	-	-	-	-	-	-	-	1	Nut, Hex, 3/8-16
35	144A4812-G1	-	-	-	-	-	-	1	-	-	Link and Yoke Assy.
36	144A4812-G3	-	-	-	-	-	-	-	1	-	Link and Yoke Assy.
37	144A4812-G5	-	-	1	1	2	2	-	-	-	Bellcrank and Yoke Assy.

A-C Contactors -E120, -E130, -E140 (continued)

A-C Contactors - 1110, 1120, 1130, 1140, 1150, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1360, 1370, 1380, 1390, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690, 1700, 1710, 1720, 1730, 1740, 1750, 1760, 1770, 1780, 1790, 1800, 1810, 1820, 1830, 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910, 1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020, 2030, 2040, 2050, 2060, 2070, 2080, 2090, 2100, 2110, 2120, 2130, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2220, 2230, 2240, 2250, 2260, 2270, 2280, 2290, 2300, 2310, 2320, 2330, 2340, 2350, 2360, 2370, 2380, 2390, 2400, 2410, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, 2510, 2520, 2530, 2540, 2550, 2560, 2570, 2580, 2590, 2600, 2610, 2620, 2630, 2640, 2650, 2660, 2670, 2680, 2690, 2700, 2710, 2720, 2730, 2740, 2750, 2760, 2770, 2780, 2790, 2800, 2810, 2820, 2830, 2840, 2850, 2860, 2870, 2880, 2890, 2900, 2910, 2920, 2930, 2940, 2950, 2960, 2970, 2980, 2990, 3000, 3010, 3020, 3030, 3040, 3050, 3060, 3070, 3080, 3090, 3100, 3110, 3120, 3130, 3140, 3150, 3160, 3170, 3180, 3190, 3200, 3210, 3220, 3230, 3240, 3250, 3260, 3270, 3280, 3290, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 3370, 3380, 3390, 3400, 3410, 3420, 3430, 3440, 3450, 3460, 3470, 3480, 3490, 3500, 3510, 3520, 3530, 3540, 3550, 3560, 3570, 3580, 3590, 3600, 3610, 3620, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 3700, 3710, 3720, 3730, 3740, 3750, 3760, 3770, 3780, 3790, 3800, 3810, 3820, 3830, 3840, 3850, 3860, 3870, 3880, 3890, 3900, 3910, 3920, 3930, 3940, 3950, 3960, 3970, 3980, 3990, 4000, 4010, 4020, 4030, 4040, 4050, 4060, 4070, 4080, 4090, 4100, 4110, 4120, 4130, 4140, 4150, 4160, 4170, 4180, 4190, 4200, 4210, 4220, 4230, 4240, 4250, 4260, 4270, 4280, 4290, 4300, 4310, 4320, 4330, 4340, 4350, 4360, 4370, 4380, 4390, 4400, 4410, 4420, 4430, 4440, 4450, 4460, 4470, 4480, 4490, 4500, 4510, 4520, 4530, 4540, 4550, 4560, 4570, 4580, 4590, 4600, 4610, 4620, 4630, 4640, 4650, 4660, 4670, 4680, 4690, 4700, 4710, 4720, 4730, 4740, 4750, 4760, 4770, 4780, 4790, 4800, 4810, 4820, 4830, 4840, 4850, 4860, 4870, 4880, 4890, 4900, 4910, 4920, 4930, 4940, 4950, 4960, 4970, 4980, 4990, 5000, 5010, 5020, 5030, 5040, 5050, 5060, 5070, 5080, 5090, 5100, 5110, 5120, 5130, 5140, 5150, 5160, 5170, 5180, 5190, 5200, 5210, 5220, 5230, 5240, 5250, 5260, 5270, 5280, 5290, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5370, 5380, 5390, 5400, 5410, 5420, 5430, 5440, 5450, 5460, 5470, 5480, 5490, 5500, 5510, 5520, 5530, 5540, 5550, 5560, 5570, 5580, 5590, 5600, 5610, 5620, 5630, 5640, 5650, 5660, 5670, 5680, 5690, 5700, 5710, 5720, 5730, 5740, 5750, 5760, 5770, 5780, 5790, 5800, 5810, 5820, 5830, 5840, 5850, 5860, 5870, 5880, 5890, 5900, 5910, 5920, 5930, 5940, 5950, 5960, 5970, 5980, 5990, 6000, 6010, 6020, 6030, 6040, 6050, 6060, 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9390, 9400, 9410, 9420, 9430, 9440, 9450, 9460, 9470, 9480, 9490, 9500, 9510, 9520, 9530, 9540, 9550, 9560, 9570, 9580, 9590, 9600, 9610, 9620, 9630, 9640, 9650, 9660, 9670, 9680, 9690, 9700, 9710, 9720, 9730, 9740, 9750, 9760, 9770, 9780, 9790, 9800, 9810, 9820, 9830, 9840, 9850, 9860, 9870, 9880, 9890, 9900, 9910, 9920, 9930, 9940, 9950, 9960, 9970, 9980, 9990, 10000, 10010, 10020, 10030, 10040, 10050, 10060, 10070, 10080, 10090, 10100, 10110, 10120, 10130, 10140, 10150, 10160, 10170, 10180, 10190, 10200, 10210, 10220, 10230, 10240, 10250, 10260, 10270, 10280, 10290, 10300, 10310, 10320, 10330, 10340, 10350, 10360, 10370, 10380, 10390, 10400, 10410, 10420, 10430, 10440, 10450, 10460, 10470, 10480, 10490, 10500, 10510, 10520, 10530, 10540, 10550, 10560, 10570, 10580, 10590, 10600, 10610, 10620, 10630, 10640, 10650, 10660, 10670, 10680, 10690, 10700, 10710, 10720, 10730, 10740, 10750, 10760, 10770, 10780, 10790, 10800, 10810, 10820, 10830, 10840, 10850, 10860, 10870, 10880, 10890, 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15190, 15200, 15210, 15220, 15230, 15240, 15250, 15260, 15270, 15280, 15290, 15300, 15310, 15320, 15330, 15340, 15350, 15360, 15370, 15380, 15390, 15400, 15410, 15420, 15430, 15440, 15450, 15460, 15470, 15480, 15490, 15500, 15510, 15520, 15530, 15540, 15550, 15560, 15570, 15580, 15590, 15600, 15610, 15620, 15630, 15640, 15650, 15660, 15670, 15680, 15690, 15700, 15710, 15720, 15730, 15740, 15750, 15760, 15770, 15780, 15790, 15800, 15810, 15820, 15830, 15840, 15850, 15860, 15870, 15880, 15890, 15900, 15910, 15920, 15930, 15940, 15950, 15960, 15970, 15980, 15990, 16000, 16010, 16020, 16030, 16040, 16050, 16060, 16070, 16080, 16090, 16100, 16110, 16120, 16130, 16140, 16150, 16160, 16170, 16180, 16190, 16200, 16210, 16220, 16230, 16240, 16250, 16260, 16270, 16280, 16290, 16300, 16310, 16320, 16330, 16340, 16350, 16360, 16370, 16380, 16390, 16400, 16410, 16420, 16430, 16440, 16450, 16460, 16470, 16480, 16490, 16500, 16510, 16520, 16530, 16540, 16550, 16560, 16570, 16580, 16590, 16600, 16610, 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18050, 18060, 18070, 18080, 18090, 18100, 18110, 18120, 18130, 18140, 18150, 18160, 18170, 18180, 18190, 18200, 18210, 18220, 18230, 18240, 18250, 18260, 18270, 18280, 18290, 18300, 18310, 18320, 18330, 18340, 18350, 18360, 18370, 18380, 18390, 18400, 18410, 18420, 18430, 18440, 18450, 18460, 18470, 18480, 18490, 18500, 18510, 18520, 18530, 18540, 18550, 18560, 18570, 18580, 18590, 18600, 18610, 18620, 18630, 18640, 18650, 18660, 18670, 18680, 18690, 18700, 18710, 18720, 18730, 18740, 18750, 18760, 18770, 18780, 18790, 18800, 18810, 18820, 18830, 18840, 18850, 18860, 18870, 18880, 18890, 18900, 18910, 18920, 18930, 18940, 18950, 18960, 18970, 18980, 18990, 19000, 19010, 19020, 19030, 19040, 19050, 19060, 19070, 19080, 19090, 19100, 19110, 19120, 19130, 19140, 19150, 19160, 19170, 19180, 19190, 19200, 19210, 19220, 19230, 19240, 19250, 19260, 19270, 19280, 19290, 19300, 19310, 19320, 19330, 19340, 19350, 19360, 19370, 19380, 19390, 19400, 19410, 19420, 19430, 19440, 19450, 19460, 19470, 19480, 19490, 19500, 19510, 19520, 19530, 19540, 19550, 19560, 19570, 19580, 19590, 19600, 19610, 19620, 19630, 19640, 19650, 19660, 19670, 19680, 19690, 19700, 19710, 19720, 19730, 19740, 19750, 19760, 19770, 19780, 19790, 19800, 19810, 19820, 19830, 19840, 19850, 19860, 19870, 19880, 19890, 19900, 19910, 19920, 19930, 19940, 19950, 19960, 19970, 19980, 19990, 20000, 20010, 20020, 20030, 20040,											
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LIST NO. 4 - MECHANICAL INTERLOCK INTERFERENCE BOXES - may be ordered as an assembly from the list above or by parts as shown below. They are identified by the last letter and digit of their catalog number as -G1, -G2 and so on.

Ref. No.	Cat. No.	Quantity Required for 979B444				Description
		-G1	-G2	-G3	-G4	
4	979B444	1	1	1	1	Interference Box Assembly
40	125A5948-G1	1	1	1	1	Plate Assy., W/Bellcrank Br'k't.
41	119A4392-P1	-	1	1	1	Plate, Back Cover
42	119A4392-P3	1	-	-	-	Plate, Back Cover
43	979B465-G1	2	2	2	2	Ball Case
44	117A7774-P1	2	4	4	4	Plunger
45	117A7774-P2	1	1	1	1	Plunger
46	577A200-P1	1	2	2	2	Steel Ball
47	138A1141-P1	1	1	1	1	Bellcrank
48	138A1124	1	1	1	1	Spring
49	125A4287	2	4	4	4	Spring
50	286A113-P44	1	1	1	1	Screw, Sl'td. Hex Hd., 5/16-18x1-1/4 Spl. Thread Length
N84	N22P23072B	-	-	-	2	Screw, Slot Hd., 5/16-18x4-1/2
N83	N405P12B	1	1	1	1	Lockwasher, Lt. Sec. 5/16 hole
N57	N245P23B	1	1	1	1	Nut, Hex 5/16-18
N74	N533P3820	1	1	1	1	Roll Pin
N82	N22P23064B	2	2	2	-	Screw, Slot Hd. 5/16-18x4

LIST NO. 5 - ELECTRICAL INTERLOCK PARTS - The Electrical Interlock is identified by the SECOND LETTER SUFFIX in the IC model identification number. EXAMPLE: Contactor IC 2814-E130A212AB uses all of the parts and quantities in Column 'B' in the list below.

Ref. No.	A-C and D-C Contactors -E120, -E121, -E130, -E131, -E140, & -E141							Description
	Cat. No.	Quantity Required for Suffix Letter						
		A	B	C	D	E	F	
51	728B214-G7	1	-	-	-	-	-	Interlock Assembly, Complete
51	728B214-G8	-	1	-	-	-	-	Interlock Assembly, Complete
51	728B214-G13	-	-	1	-	-	-	Interlock Assembly, Complete
51	728B214-G14	-	-	-	1	-	-	Interlock Assembly, Complete
51	728B214-G15	-	-	-	-	1	-	Interlock Assembly, Complete
51	728B214-G17	-	-	-	-	-	1	Interlock Assembly, Complete
52	287A190-P1	4	4	4	4	4	4	Guide, Link & Bracket
53	125A5906-P1	1	1	1	1	1	1	Interlock Block Bracket
55	147A5878-G3	1	1	1	1	1	1	Link & Bracket
56	393B459-P1	1	1	1	1	1	1	Support, Interlock
19	117A7850-P1	1	1	1	1	1	1	Hair Pin Cotter
58	723B245-G71	-	1	-	-	2	-	Interlock & Bracket Assy.
59	575A555-P1	-	1	-	-	2	-	Bracket
60	IC2956A200A	-	1	-	-	2	-	2 Norm. Open Interlock Block
	6960053-G3	-	1	-	-	2	-	Spring & Contact Kit
61	138A1105-G1	1	1	1	1	1	1	Link Assy, Int'l'k to Armature Lever

LIST NO. 5 - ELECTRICAL INTERLOCK PARTS (Cont.)

Ref. No.	Cat. No.	Quantity Required for Suffix Letter						Description
		A	B	C	D	E	F	
62	723B245-G72	-	-	1	2	-	3	Interlock & Bracket Assembly
59	575A555-P1	-	-	1	2	-	3	Bracket
63	IC2956A200B	-	-	1	2	-	3	2 Norm. Closed Interlock Block
	6960053-G3	-	-	1	2	-	3	Spring & Contact Kit
64	723B245-G73	3	2	2	1	1	-	Interlock & Bracket Assembly
59	575A555-P1	3	2	2	1	1	-	Bracket
65	IC2956A200C	3	2	2	1	1	-	1 N.O., 1 N.C. Interlock Block
	6960053-G3	3	2	2	1	1	-	Spring & Contact Kit
N65	N57P15006B	6	6	6	6	6	6	Screw-Slot Hd. #8-32x3/8
N78	N405P38B	6	6	6	6	6	6	Lockwasher-Med. Sec., #8 hole
N10	N405P41B	6	6	6	6	6	6	Lockwasher-Med. Sec., 1/4 hole
N88	N26P21008B	2	2	2	2	2	2	Screw-Slot Hex Hd. 1/4-20x1/2
N13	N402P41B	4	4	4	4	4	4	Washer-Plain 1/4 hole
N63	N22P21016B	4	4	4	4	4	4	Screw-Slot Hd. 1/4-20x1

LIST NO. 6 - BLOW OUT COIL & POLE PIECE ASSEMBLY

Ref. No.	Cat. No.	Numbers Indicate Model - Letters Indicate Form																Description				
		-E120			-E121			-E130				-E131			-E140				-E141			
		A	B	C	A	B	C	A	B	C	D	A	B	C	A	B	C		A	B	C	D
66	979B472-G1	-	-	3	-	-	3	-	-	3	-	-	-	3	-	-	3	-	-	3	-	B.O. & Pole Piece
67	979B482-G1	-	-	3	-	-	3	-	-	3	-	-	-	3	-	-	3	-	-	3	-	B.O. Coil
66	979B472-G2	-	3	-	-	3	-	-	3	-	-	-	3	-	-	3	-	-	3	-	-	B.O. & Pole Piece
67	979B482-G2	-	3	-	-	3	-	-	3	-	-	-	3	-	-	3	-	-	3	-	-	B.O. Coil
66	979B472-G3	3	-	-	3	-	-	3	-	-	3	3	-	-	3	-	-	3	-	-	3	B.O. & Pole Piece
67	979B482-G3	3	-	-	3	-	-	3	-	-	3	3	-	-	3	-	-	3	-	-	3	B.O. Coil

LIST NO. 7 - COMMON PARTS: The parts in the list below are found in all contactors covered by this bulletin.

Ref. No.	Cat. No.	Qty.	Description
66		3	B. O. Coil & Pole Piece (See list above for Cat. No.)
67		3	B. O. Coil Only (See list above for Cat. No.)
68	129B5639-P1	6	Block, B.O. Coil & Pole Piece Support
69	979B484-G1	3	Stab Assembly
70	125A5994-P1	6	Insulation, Upper Arc Horn Upper Support
71	125A5992-P2	6	Flange, Blowout Coil
72	125A5993-P2	6	Strap, Pole Piece to Support Block
73	104B9900-G1	3	Core Assembly, Blowout Coil
74	981B156-G1	6	Pole Piece Assembly
75	125A5993-P1	3	Support, Upper, for Upper Arc Horn
76	125A5992-P2	6	Washer, B.O. Coil Core End, (composition)
77	125A5913-P1	6	Stud, Pole Piece Assembly, 5/8-16 threaded both ends
78	138A1128-P1	6	Insulation, B.O. Coil Flange to Pole Piece
79	979B481-G1	1	Arc Horn & Support Assy., (channel W/ 3 Arc Horns)
80	979B470-G1	2	Support Channel Assy., W/3 Insulators & 4 Clips
81	125A5928-P2	12	Clip, Arc Barrier Support
82	125A4278-P1	24	Finger, Stab Contact
83	125A6083-G1	6	Arc Horn Assembly, W/insulation
84	477C355-P1	6	Arc Horn, Brass casting only
85	125A5986-P2	6	Insulation, Arc Horn (thin)
86	981B132-P2	3	Support, lwr. Arc Horn, Inner
87	161A7307-G1	3	Insulation Assy., lwr. Arc Horn, W/Arc Chute Support
88	161A7307-P2	3	Insulation, lwr. Arc Horn, (thick)
89	147A5790-P1	3	Support, Arc Chute
90	125A4282-P1	12	Retainer, Stab Cont. Finger, Side
91	125A4280-P1	6	Retainer, Stab Cont. Finger, End
92	125A4277-P1	6	Spacer, Cont. Finger Spring Length
93	125A4276-P1	6	Spring, Cont. Finger Compression
94	5755152-P1	6	Nut, Cont. Finger Spring Retaining

INTERLOCKS ASSY^s LF (3) 951



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This diagram is a detailed exploded view of a mechanical assembly, likely a vehicle chassis or engine component. It features a wide variety of parts, including structural members, fasteners, and sub-assemblies, each labeled with a numerical or alphanumeric callout. The parts are arranged in their relative positions to show how they fit together. Key components include a large structural frame at the bottom, various mounting brackets, bolts, nuts, and specialized fasteners. The diagram uses dashed lines to indicate the assembly path and alignment of the parts. The overall layout is complex, showing the integration of multiple sub-components into a single functional unit.

LIST NO. 7 - COMMON PARTS (cont.)

Ref. No.	Cat. No.	Qty.	Description
95	125A4281-P1	6	Retainer, Cont. Finger, Inner
96	125A4279-P1	24	Spacer, Cont. Finger
97	577A328-P1	12	Nut, Channel Tee (to assemble Arc Horn to Support)
98	981B132-P3	3	Support, lwr. Arc Horn, Outer
99	104B9901-G1	1	Support Assy., Stationary Cont. Tip, (Channel & Tips)
100	477C354-P4	3	Support, Stationary Cont. Tip, (Brass Casting Only)
101	125A5985-P1	3	Support, lwr. end of Upper Arc Horn
102	138A1125-G1	3	Tip, Stationary Contact
103	162A2852-G1	2	Bearing & Plate Assy., Mov. Tip Shaft
104	162A2851-G1	2	Plate, Tip Shaft Bearing
105	162A2852-P3	2	Bearing, Tip Shaft
106	979B488-G1	1	Movable Contact Tip & Shaft Assy., For A-C contactor
106	979B488-G3	1	Movable Contact Tip & Shaft Assy., For D-C contactor
107	393B421-P1	1	Shaft only, Movable Contact Tip
108	979B488-G2	3	Support Assy., Movable Cont. Tip, Complete W/1 tip
109	167A9956-G1	3	Tip, Movable Contact
110	9385881-P1	3	Pin, Contact Tip Bracket Pivot
111	501 D127-P1	3	Support, Movable Contact Tip (Plastic Casting Only)
112	2416875	3	Spring, Contact Bracket, Compression
113	125A6099-P1	3	Bracket, Movable Cont. Tip (Rocker)
114	981B123-G1	1	Disconnect Assembly
115	728B129-P1	1	Support, Disconnect Block
116	125A4285-G1	4	Block, Disconnect
117	8617022-P1	12	Clamp, Disconnect Block Terminal Wire
118	104B9930-G1	3	Arc Chute Assembly
119	477C363-P1	6	Side, Arc Chute
120	104B9931-P1	129	Barrier, Arc (within Arc Chute)
122	9385870-P2	9	Spacer, Arc Barrier (.030" thick)
123	9385870-P3	3	Spacer, Arc Barrier (.125" thick)
124	125A4299-P1	4	Barrier (between Arc Chutes)
125	138A1135-G1	4	Wheel, Caster
127	979B472-G2	1	Channel Assy., B.O. Coil & Pole Piece Supp. (W/4 Clips)
128	125A4291-P2	1	Stop, Contactor Positioning
129	125A4258-P2	2	Spacer, Electrical Interlock Support
130	125A6086-P1	1	Guard, Disconnect Finger (laminated)
131	125A6064-P1	1	Guard, Electrical Interlock
132	728B129-P2	1	Rub Strip
133	151A4428-P1	1	Ground Strap
134	161A7351-P1	1	Stud, Fuse Shelf Operating Lever
135	577A177-P1	2	Screw, Ground Strap Ret. 5/16-18x3/4, W/2 washers
136	162A2894-P1	4	Pin, Caster Wheel Mounting (threaded)
137	477C346-G1	1	Cam Mechanism Assy., Fuse Shelf Operating
138	981B127-G1	1	Side Rail Assy., (Right, W/ cam m'tg br'kt welded on)
139	979B459-G1	1	Bracket, Bearing, Cam Rear Support
140	125A5925-P1	1	Support, Interlock Block
141	979B464-G1	1	Cylindrical Cam Assy., W/Shaft
142	979B464-P2	1	Cylindrical Cam (Casting Only).
143	2229647-P83	1	Shaft, Cylindrical Cam
144	125A5926-G1	1	Sleeve Assy., Interlock Block Actuating
145	125A5901	1	Spring, Actuating Sleeve, Compression
146	125A5912-P1	1	Push Rod, Actuating Sleeve
147	125A5900-G2	1	Lever Assy., Fuse Shelf Operating, W/cam follower
148	125A5900-P4	1	Operating Lever (welded up assy.)
149	577A198-P1	1	Cam Follower, Operating Lever
150	125A5991-G1	1	Coupling Shaft & Stop Assy., Cam to Operating Handle
151	981B126-G1	1	Disc Assy., W/Handle
152	125A5974-P2	1	Shaft, Operating Handle
153	125A5980	1	Spring, Coupling Shaft Compression
154	981B126-P6	1	Disc, Compression Spring Retaining
155	151A7994-G1	1	Bearing, Operating Handle, Shaft
156	981B124-G1	1	Support Plate, Operating Handle
157	125A5982-P1	1	Indicator Dial, Handle Position
158	125A6073-P1	1	Cover, Indicator Dial
159	981B128-P1	1	Handle, Fuse Shelf Operating
160	125A5975-G1	1	Bracket, Fuse Shelf Lock Plate
161	981B169-G1	1	Lock Plate, Fuse Shelf
162	125A4297-P3	1	Spacer, Shelf Operating Lever to Cam Supp. Br'k't.

LIST NO. 7 - Common Parts (cont.)

Ref. No.	Cat. No.	Qty.	Description
163	125A5926-P4	3	Shim, Cylindrical Cam Fore & Aft Spacing
165	125A5974-P3	1	Pin, Connecting, Cam Shaft to Coupling Shaft
166	577A142-P13	2	Spacer, Operating Sleeve & end Brg. to Arm. Link
167	125A5926-P5	3	Shim, Cylindrical Cam Fore & Aft Spacing
168	138A1108-G1	6	Shunt (braided strap)
169	979B484-P4	3	Clip, Bus Bar to Shunt Alignment
170	979B466-P2	1	Handle, Contactor Pull-out
171	979B466-P3	24	Grounding Finger, Fuse Support to Contactor
172	979B466-P7	3	Stiffener, Grounding Finger
173	981B127-P3	1	Side Rail (left)
174	161A7352-P1	1	Strap, Fuse Shelf Operating Lever Mounting
175	577A142-P33	1	Spacer, Operating Lever to Shelf
176	979B463-P1	1	Fuse Shelf Assy. (base plate only)
177	125A5950-P1	1	Insulation, Fuse Shelf (W/3 holes for Bus Bars)
178	125A4297-P4	1	Tongue, Fuse Shelf Guide
179	2288003-P1	4	Ball Bearing, Shelf Roller (vertical loads)
180	147A3600-G1	4	Roller Assy., Brg. W/Br'k't. (riveted)(horizontal load)
181	147A3616-P1	4	Bracket, Shelf Horiz. Roller Retaining
182	979B471-P2	1	Channel, Magnet Support
183	979B479-G1	3	Channel Only. (mounting B. O. Coils, Arc Horns & Stationary Contact Tips)

LIST NO. 8 - OTHER PARTS

Ref. No.	Cat. No.	Qty for IC2812 & IC2814						Description
		-E120	-E121	-E130	-E131	-E140	-E141	
184	979B497-G1	1	1	-	-	-	-	Fuse Shelf Assembly, Complete
185	979B493-G2	3	3	3	3	-	-	Fuse Clip Assembly, Front
186	979B492-P5	3	3	3	3	-	-	Fuse Adapter, Front
187	979B461-P1	12	12	12	12	-	-	Fuse Clip, (folded spring)
188	979B461-P2	6	6	6	6	-	-	Spring, Fuse Clip ('U' shaped)
189	125A5946-G1	3	3	3	3	-	-	Lever Assy., Fuse Extracting
190	125A4298-P1	9	9	9	9	-	-	Retainer, Fuse Clip ('C' shaped)
191	226B799-P1	18	18	18	18	15	15	Insulator
192	979B494-P7	1	1	-	-	-	-	Bus Bar
193	979B494-P8	1	1	-	-	-	-	Bus Bar
194	979B494-P11	1	1	-	-	-	-	Bus Bar
195	979B494-P9	-	-	1	1	-	-	Bus Bar
196	979B494-P10	-	-	1	1	-	-	Bus Bar
197	979B494-P12	-	-	1	1	-	-	Bus Bar
198	979B494-P16	-	-	-	-	1	1	Bus Bar
199	979B494-P17	-	-	-	-	1	1	Bus Bar
200	979B494-P18	-	-	-	-	1	1	Bus Bar
201	979B466-G1	1	1	-	-	-	-	Handle Assy., Contactor Pull-out
202	119A4810-P1	a.r.	a.r.	-	-	-	-	Tape (approx. 25")
203	979B497-G2	-	-	1	1	-	-	Fuse Shelf Assy., Complete
204	979B493-G3	3	3	3	3	-	-	Fuse Clip Assy., Rear
205	979B493-P21	6	6	6	6	-	-	Fuse Clip Alignment
206	981B130-G1	-	-	1	1	-	-	Grounding Finger Assy.
207	981B130-P2	-	-	1	1	-	-	Support, Grounding Finger
208	981-B130-G2	-	-	-	-	1	1	Grounding Finger Assembly
209	981B130-P11	-	-	-	-	1	1	Support, Grounding Finger
210	151A2003TD-P1	-	-	-	-	3	3	Bracket, Grounding Finger, Set-Back
211	979B497-G3	-	-	-	-	1	1	Fuse Shelf Assembly, Complete
212	979B493-G1	-	-	-	-	3	3	Fuse Clip Assy., Rear (holds no fuse)
213	981B136-P1	-	1	-	1	-	1	Support, D-C Armature Stop
214	577A142-P6	-	2	-	2	-	2	Spacer, Mag. Chan'l to B.O. Coil Chan'l
215	277A300-P4	2	-	2	-	2	-	Spacer, Mag. Chan'l to B.O. Coil Chan'l
216	104B9904-P1	-	1	-	1	-	-	Support, D-C Magnet Coils
217	9605575-G3	-	2	-	2	-	2	Core Assembly, D-C Coil
218	8626009P5	-	2	-	2	-	2	Spring Washer (between Coil & Support)
219	125A5994-P3	-	1	-	1	-	1	Stop, D-C Armature

LIST NO. 8 - OTHER PARTS (cont.)

Ref. No.	Cat. No.	Qty for IC2812 & IC2814						Description
		-E120	-E121	-E130	-E131	-E140	-E141	
220	125A5985-P3	-	3	-	3	-	3	Shim, Armature Stop (qty. varies)
221	577A176-P2	30	26	30	26	30	26	Screw, 5/16-18x3/4, W/washer
222	981B120-P1	1	1	1	1	-	-	Side Frame, Right
223	981B120-P2	1	1	1	1	-	-	Side Frame, Left
224	981B120-P6	-	-	-	-	1	1	Side Frame, Right
225	981B120-P7	-	-	-	-	1	1	Side Frame, Left
226	104B9908-P1	-	1	-	1	-	1	Mounting Block, Arm. to Cont. Tip Shaft
227	104B9903-G1	-	1	-	1	-	1	Armature Assembly, D-C Contactor
228	104B9906-G3	-	1	-	1	-	1	Lever Assy., Elec. Int'l'l'k Actuating
229	577A203-P1	-	1	-	1	-	1	End Bearing Assembly
230	125A6090-G1	-	1	-	1	-	1	Link Assy., End Brg. to Armature
231	577A205-P1	-	2	-	2	-	2	Nut, End Brg. Positioning
232	125A6085-P2	-	1	-	1	-	1	Shim, Armature to Coil Spacing
233	9397788-P3	-	2	-	2	-	2	Bearing, Armature Pivot Shaft
234	104B9938-G1	1	2	1	2	1	2	Support, A-C Armature to Cont. Tip Shaft
235	9348678-P7	1	-	1	-	1	-	Arm, Interlock Link Actuating
236	981B148-G1	1	-	1	-	1	-	Armature and Bracket Assembly, A-C Cont.
237	233B523-G2	1	-	1	-	1	-	Armature Assembly
238	284A964-P1	1	-	1	-	1	-	Fulcrum, A-C Armature
239	125A5907-P1	1	-	1	-	1	-	Bracket, A-C Armature
240	979B491-G1	1	-	1	-	1	-	Frame and Support Assy., A-C Magnet
241	979B490P4	1	-	1	-	1	-	Back Stop, Magnet, left
242	979B490-P5	1	-	1	-	1	-	Back Stop, Magnet, right
243	979B490-G1	1	-	1	-	1	-	Back Stop Assembly, front
244	9348650-P4	1	-	1	-	1	-	Yoke, Magnet Stop
245	9385863-P3	1	-	1	-	1	-	Stop, Magnet
246	233B523-G1	1	-	1	-	1	-	Frame Assembly, Magnet
247	284A962-P1	2	-	2	-	2	-	Pole Shader, Magnet
248	284A950-P1	2	-	2	-	2	-	Clamp, Magnet Frame Retaining
249	9644367-P1	2	-	2	-	2	-	Shim, Magnet Frame to Support (.030")
250	9644367-P2	2	-	2	-	2	-	Shim, Magnet Frame to Support (.010")
251	573A615-P1	2	-	2	-	2	-	Support, Coil Retaining Spring
252	284A967-P1	2	-	2	-	2	-	Spring, Coil Retaining
253	577A138-P7	2	-	2	-	2	-	Wire Clamp, Plastic, (large dia.)
254	577A138-P5	2	-	2	-	2	-	Wire Clamp, Plastic, (small dia.)
255	162A3103-P1	-	-	-	-	3	3	Support, Fuse & Cont. Finger Support
256	162A3103-P2	-	-	-	-	3	3	Support, Contact Finger

LIST NO. 9 - STANDARD HARDWARE

Ref. No.	Cat No.	Qty for IC2812 & IC2814						Description and Size
		-E120	-E121	-E130	-E131	-E140	-E141	
N1	N146P904B	42	42	42	42	42	42	Screw, Self-Tapp. Slot Hd. #4x1/4
N2	N22P25016E	54	56	54	56	45	47	Screw, Hex Hd. 3/8-16x1
N3	N22P23012B	-	6	-	6	-	6	Screw, Hex Hd. 5/16-18x3/4
N4	N245P25B	74	88	76	90	73	87	Nut, Hex, 3/8-16
N5	N405P 43B	158	168	158	168	143	153	Lockwasher, Medium Sec. 3/8 hole
N6	N405P42B	23	29	23	29	23	29	Lockwasher, Medium Sec. 5/16 hole
N7	N402P12B	18	34	18	34	18	34	Plain Washer, 5/16 hole
N8	N22P25012B	50	48	50	48	44	44	Screw, Hex Hd. 3/8-16x3/4
N9	N210P21B	13	16	13	16	13	16	Nut, Hex, 1/4-20
N10	N405P41B	57	57	47	47	33	33	Lockwasher, Medium Sec. 1/4 hole
N11	N403P37B	4	4	4	4	4	4	Lockwasher, External Tooth, 3/8 hole
N12	N402P43B	2	2	2	2	2	2	Plain Washer, 3/8 hole
N13	N402P41B	13	12	13	12	13	12	Plain Washer, 1/4 hole
N14	N57P15010B	3	1	3	1	3	1	Screw, Slot Hd. #8-32 x5/8
N15	N207P15B	2	-	2	-	2	-	Nut, Hex, #8-32 Brass
N16	N57P21008B	24	26	24	26	-	-	Screw, Slot Hd. 1/4-20x1/2
N17	N402P9B	6	6	8	8	6	6	Plain Washer, #10 hole, narrow
N18	N402P13B	35	31	37	33	35	31	Plain Washer, 3/8 hole
N19	N112P15008B	13	14	13	14	13	14	Screw, Self-Tapp. Slot Hd. #8x1/2

LIST NO. 9 - STANDARD HARDWARE (cont.)

Ref. No.	Cat. No.	Quantity for IC2812 & IC2814						Description
		-E120	-E121	-E130	-E131	-E140	-E141	
N20	N22P21008B	16	12	16	12	16	12	Screw, Hex Hd. 1/4-20x1/2
N21	N112P15006B	16	16	16	16	16	16	Screw, Self-Tapp. Slot Hd. #8x3/8
N22	N22P21010B	4	4	4	4	4	4	Screw, Hex Hd. 1/4-20x5/8
N23	N402P11B	6	6	6	6	6	6	Plain Washer, 1/4 hole
N24	N57P16008B	6	6	6	6	12	12	Screw, Slot Hd. #10-32x1/2
N25	N405P39B	12	12	12	12	18	18	Lockwasher, Medium Sec. #10 hole
N26	N57P16016B	18	18	18	18	18	18	Screw, Slot Hd. #10-32x1
N27	N22P25020B	14	14	14	14	14	14	Screw, Hex Hd. 3/8-16x1-1/4
N28	N402P39B	4	4	4	4	4	4	Plain Washer, #10 hole
N29	N57P21056B	6	6	6	6	6	6	Screw, Slot Hd. 1/4-20x3-1/2
N30	N22P23016B	21	21	21	21	21	21	Screw, Hex Hd. 5/16-18x1
N31	N403P50B	1	1	1	1	1	1	Lockwasher, External Tooth, 1/2 hole
N32	N245P29B	9	9	9	9	9	9	Nut, Hex, 1/2-13
N33	N70P2110B	1	1	1	1	1	1	Set Screw, Socket Hd. 1/4-20x5/8
N34	N70P1604B	1	1	1	1	1	1	Set Screw, Socket Hd. #10-32x1/4
N35	N22P21016B	1	1	1	1	1	1	Screw, Hex Hd. 1/4-20x1
N36	N405P44B	1	1	1	1	1	1	Lockwasher, Medium Sec. 7/16 hole
N37	N245P26B	1	1	1	1	1	1	Nut, Hex, 7/16-20
N38	N22P29056B	2	2	2	2	2	2	Screw, Hex Hd. 1/2-13x3-1/2
N39	N22P29024B	-	2	-	2	-	2	Screw, Hex Hd. 1/2-13x1-1/2
N40	N22P29016B	-	3	-	3	-	3	Screw, Hex Hd. 1/2-13x1
N41	N57P21012B	-	3	-	3	-	3	Screw, Slot Hd. 1/4-20x3/4
N42	N144P16008B	-	4	-	4	-	4	Screw & Washer Assy. #10-32x1/2
N43	N405P45B	18	23	18	23	18	23	Lockwasher, Medium Sec. 1/2 hole
N44	N22P29020B	3	3	3	3	3	3	Screw, Hex Hd. 1/2-13x1-1/4
N45	N22P21020B	3	2	3	2	3	2	Screw, Hex Hd. 1/4-20x1-1/4
N46	N22P25008B	6	-	6	-	6	-	Screw, Hex Hd. 3/8-16x1/2
N47	N22P21012B	6	-	6	-	6	-	Screw, Hex Hd. 1/4-20x3/4
N48	N210P15B	1	-	1	-	1	-	Nut, Hex #8-32
N49	N112P15004B	1	1	1	1	1	1	Screw, Self-Tapp. #8-32x1/4
N50	N402P45B	2	15	2	15	2	15	Plain Washer, 1/2 hole
N51	N22P25044B	1	-	1	-	1	-	Screw, Hex Hd. 3/8-16x2-3/4
N53	N22P25028B	6	6	6	6	6	6	Screw, Hex Hd. 3/8-16x1-3/4
N54	N26P23006B	2	2	2	2	2	2	Screw, Slotted Hex Hd. 5/16-18x3/8
N55	N22P25024B	2	2	2	2	2	2	Screw, Hex Hd. 3/8-16x1-1/2
N56	N22P25040B	1	1	1	1	1	1	Screw, Hex Hd. 3/8-16x2-1/2
N57	N245P23B	10	10	10	10	10	10	Nut, Hex, 5/16-18
N58	N22P29032B	10	9	10	9	10	9	Screw, Hex Hd. 1/2-13x2
N59	N26P23008B	2	2	2	2	2	2	Screw, Slotted Hex Hd. 5/16-18x1/2
N60	N70P2312B	3	3	3	3	3	3	Set Screw, Socket Hd. 5/16-18x3/4
N61	N144P16006B	12	12	12	12	12	12	Screw & Washer Assy. #10-32x3/8
N62	N22P25056B	12	12	12	12	12	12	Screw, Hex Hd. 3/8-16x3-1/2
N63	N57P21016B	1	1	1	1	1	1	Screw, Slot Hd. 1/4-20x1
N64	N22P25032B	1	1	1	1	1	1	Screw, Hex Hd. 3/8-16x2
N65	N57P15006B	4	4	4	4	4	4	Screw, Slot Hd. #8-32x5/16
N66	N402P8B	1	-	1	-	1	-	Plain Washer, #8 hole, narrow
N67	N22P23020B	6	6	6	6	6	6	Screw, Hex Hd. 5/16-18x1-1/4
N68	N403P31B	-	2	-	2	-	2	Lockwasher, External Tooth, 5/16 hole
N69	N51P21012B	1	1	1	1	1	1	Screw, Countersunk, Slot Hd. 1/4-20x3/4
N70	N509P2524B	1	1	1	1	1	1	Roll Pin, 1/4x1-1/2
N71	N509P605B	2	2	2	2	2	2	Roll Pin, 1/16x5/16
N72	N509P2512B	4	2	4	2	4	2	Roll Pin, 1/4x3/4
N73	N509P2532B	1	1	1	1	1	1	Roll Pin, 1/4x2
N74	N533P3820	1	1	1	1	1	1	Roll Pin, 3/8x1-1/4 Chrome Stainless Steel
N75	N503P1212B	2	2	2	2	2	2	Pin, Cotter 3/4x1/8
N76	N402P42B	-	3	-	2	-	2	Plain Washer, 5/16 hole
N77	N57P16020B	4	-	4	-	4	-	Screw, Slot Hd. 10-32x1-1/4
N78	N405P38B	1	-	1	-	1	-	Lockwasher, Med. Sec. #8 hole
N79	N22P23070B	2	-	2	-	2	-	Screw, Slot Hd. 5/16-18x4-1/2
N80	N22P25088B	2	2	2	2	2	2	Screw, Hex Hd. 3/8-16x5-1/2
N81	N26P21012B	6	6	6	6	6	6	Screw, Slotted Hex Hd. 1/4-20x3/4
N82	N22P23064B	2	2	2	2	2	2	Screw, Slot Hd. 5/16-18x4
N83	N405P12B	1	1	1	1	1	1	Lockwasher, Lt Sec. 5/16 hole
N84	N22P23072B	2	2	2	2	2	2	Screw, Slot Hd. 5/16-18x4-1/2

LIST NO. 9 - STANDARD HARDWARE (cont.)

Ref. No.	Cat. No.	Qty for IC2812 & IC2814						Description
		-E120	-E121	-E130	-E131	-E140	-E141	
N85	N210P16B	4	4	4	4	4	4	Nut, Hex #10-32
N86	119A4655P5	6	6	6	6	6	6	Screw, Slot Hd., Self Tapp. #8-18x5/8, W/Lockwasher
N87	N22P25010B	6	6	6	6	6	6	Screw, Hex Hd. 3/8-16x5/8
N88	N26P21008B	2	2	2	2	2	2	Screw, Slotted Hex Hd. 1/4-20x1/2

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