

# **KOHLER TRANSFER SWITCHES**

**Parts  
Catalog**

**KOHLER**  
GENERATORS

TP-5037/7-80

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KOHLER CO. KOHLER, WISCONSIN 53044

# Parts Identification/How to Use this Book

1. Identify switch by type — whether contactor, single-panel breaker, split panel breaker/electro-mechanical logic, or split panel breaker/solid-state logic. Write down switch number and accessory numbers.
2. Identify the switches' functional area covering parts to be replaced (contactors, breakers, mechanism, or intelligence circuit).
3. See Illustrations to identify parts by name.
4. See Table of Contents for pages listing particular parts and accessories.
5. See pages indicated and select parts by description. Accessories are listed by number, description, and part number.

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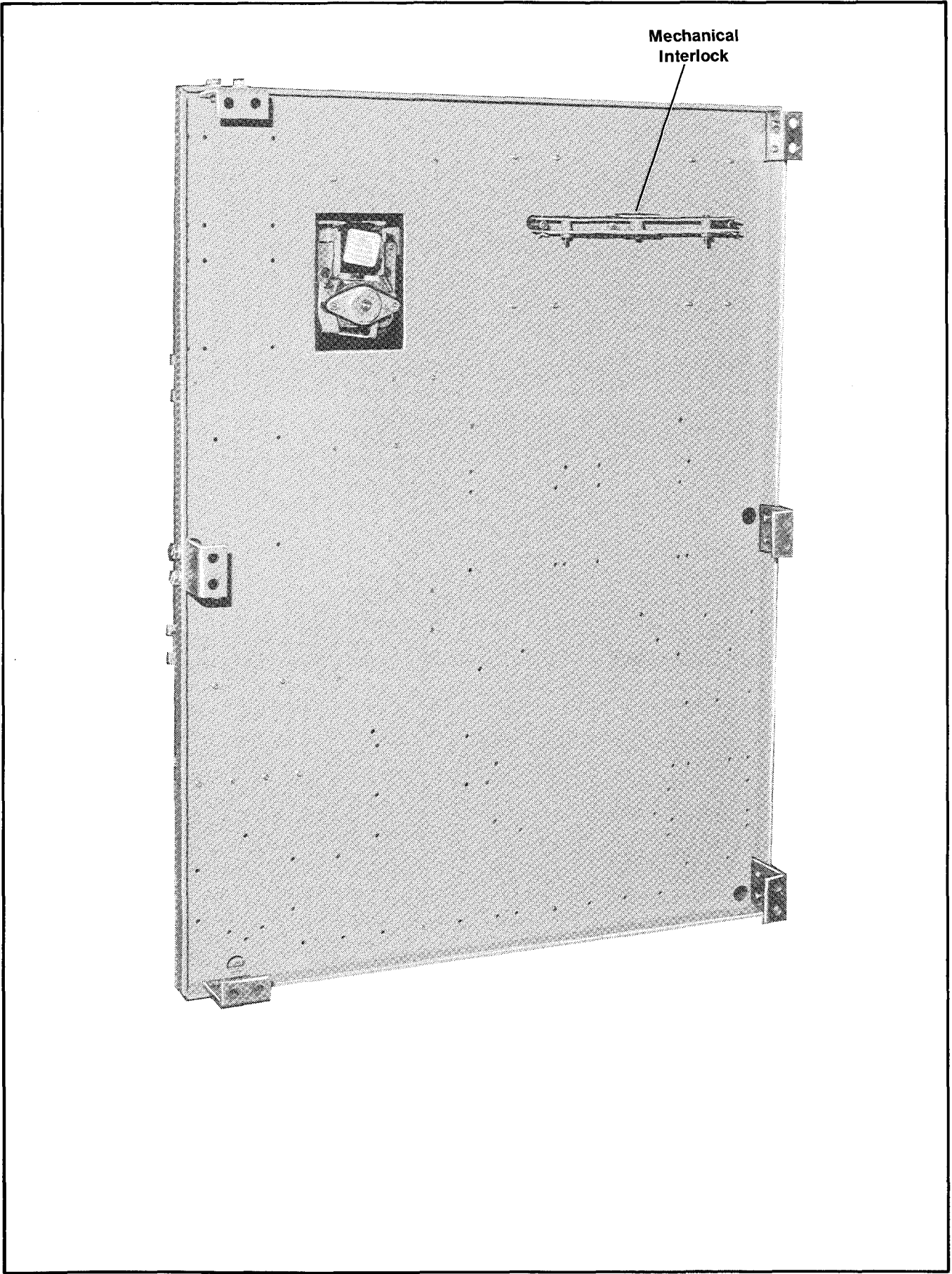


Figure 1. Mechanical Interlock (Breaker Panels)

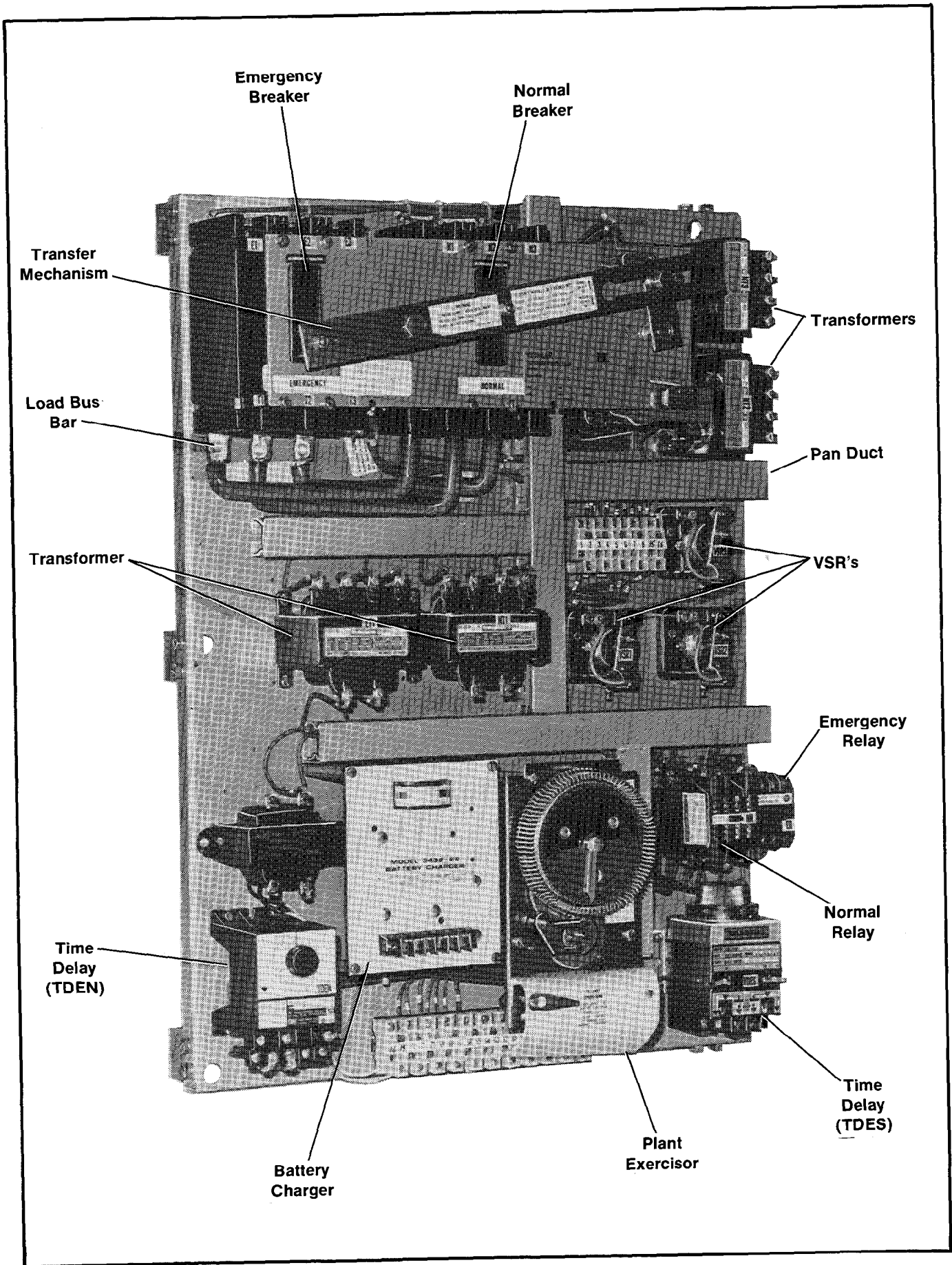


Figure 2. Typical Panel (30-104A)

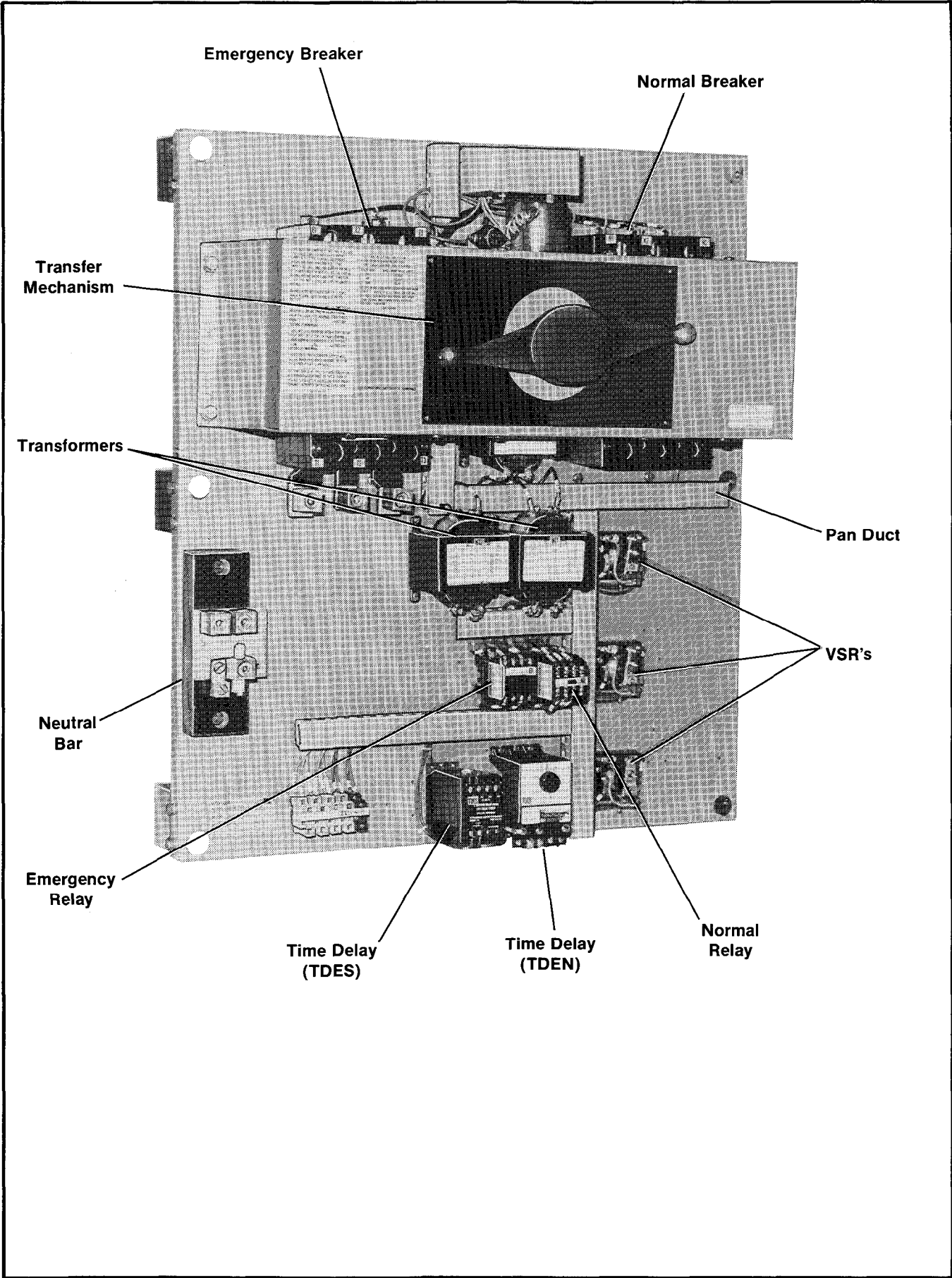


Figure 3. Typical Panel (225-400A)

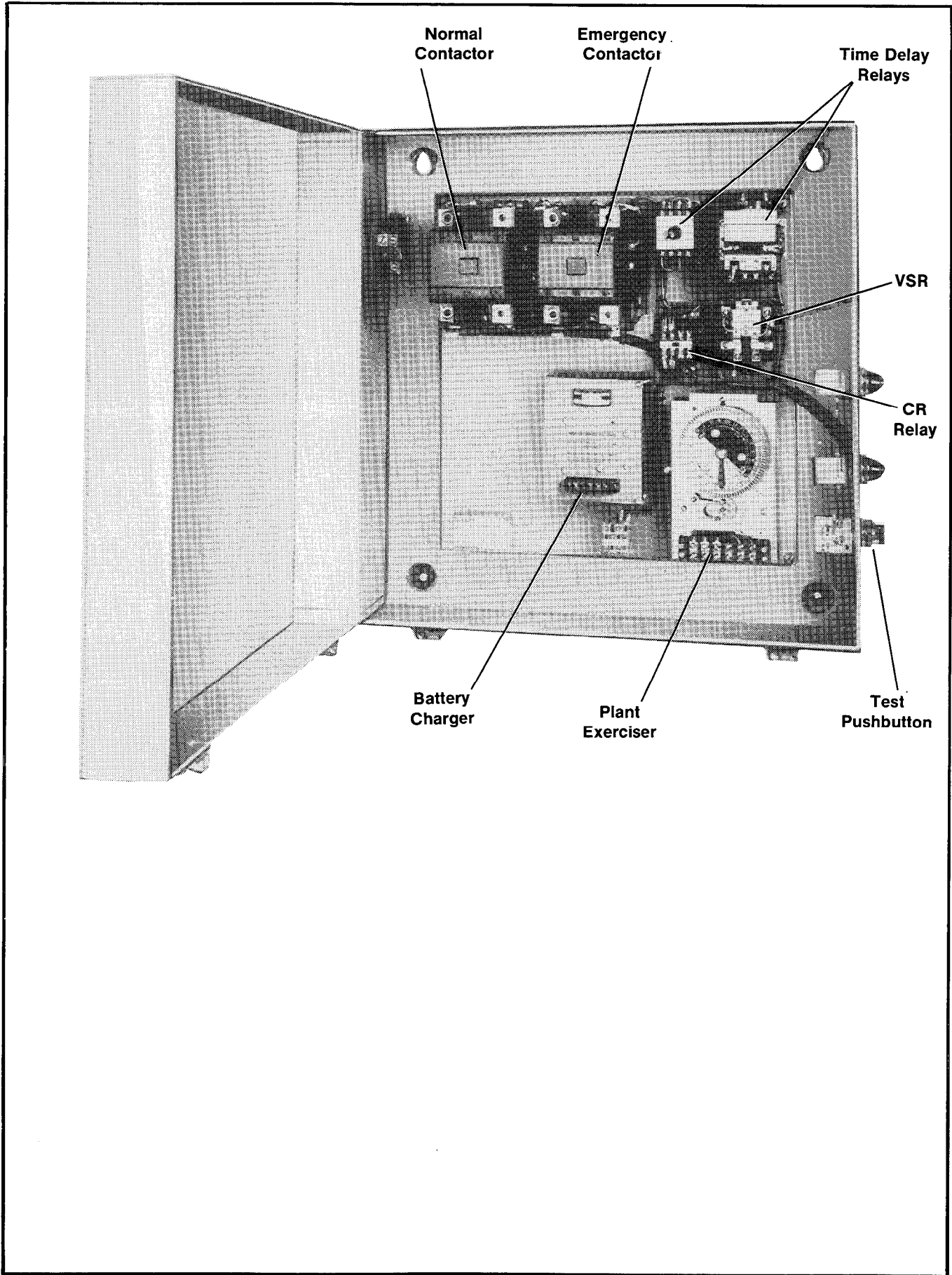


Figure 4. Typical Contactor Panel

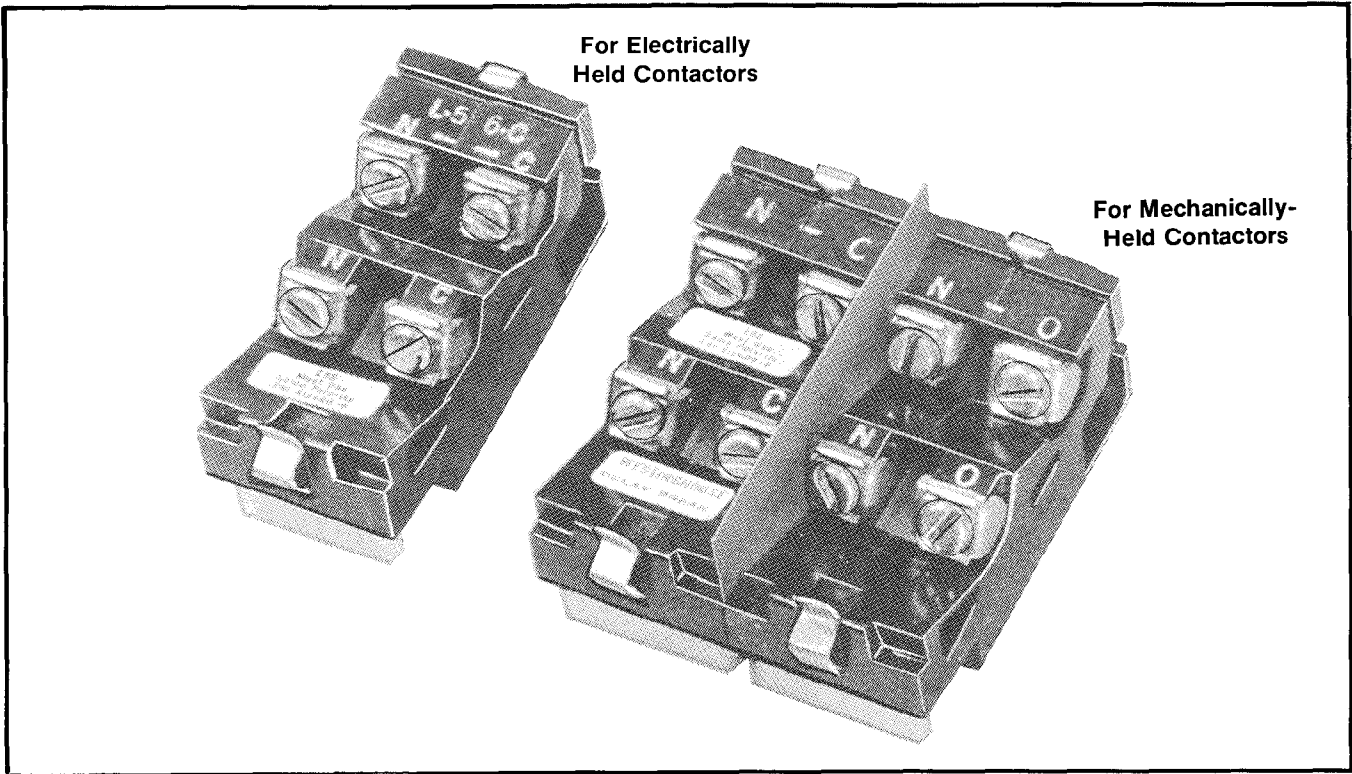


Figure 5. Electrical Interlocks

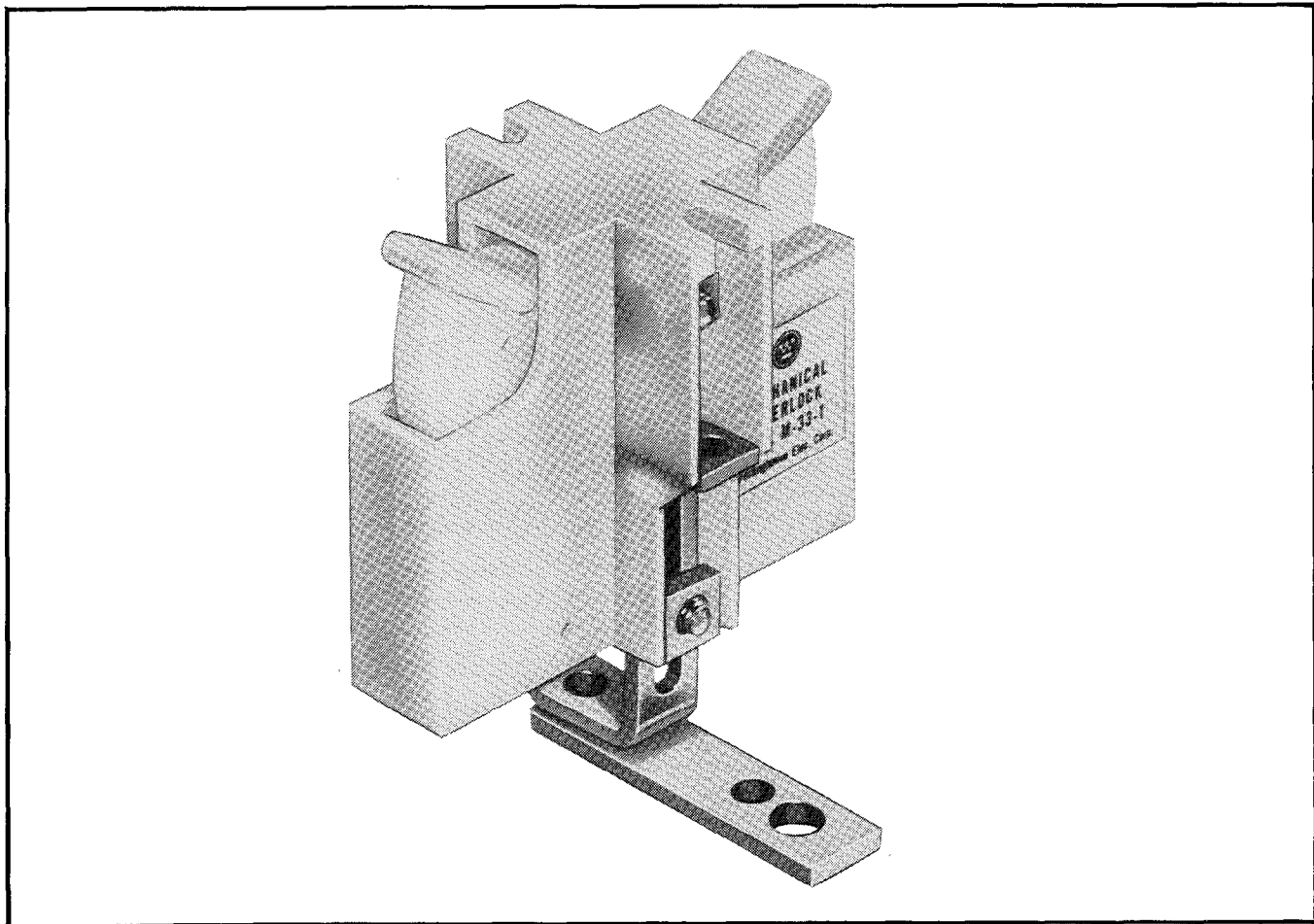
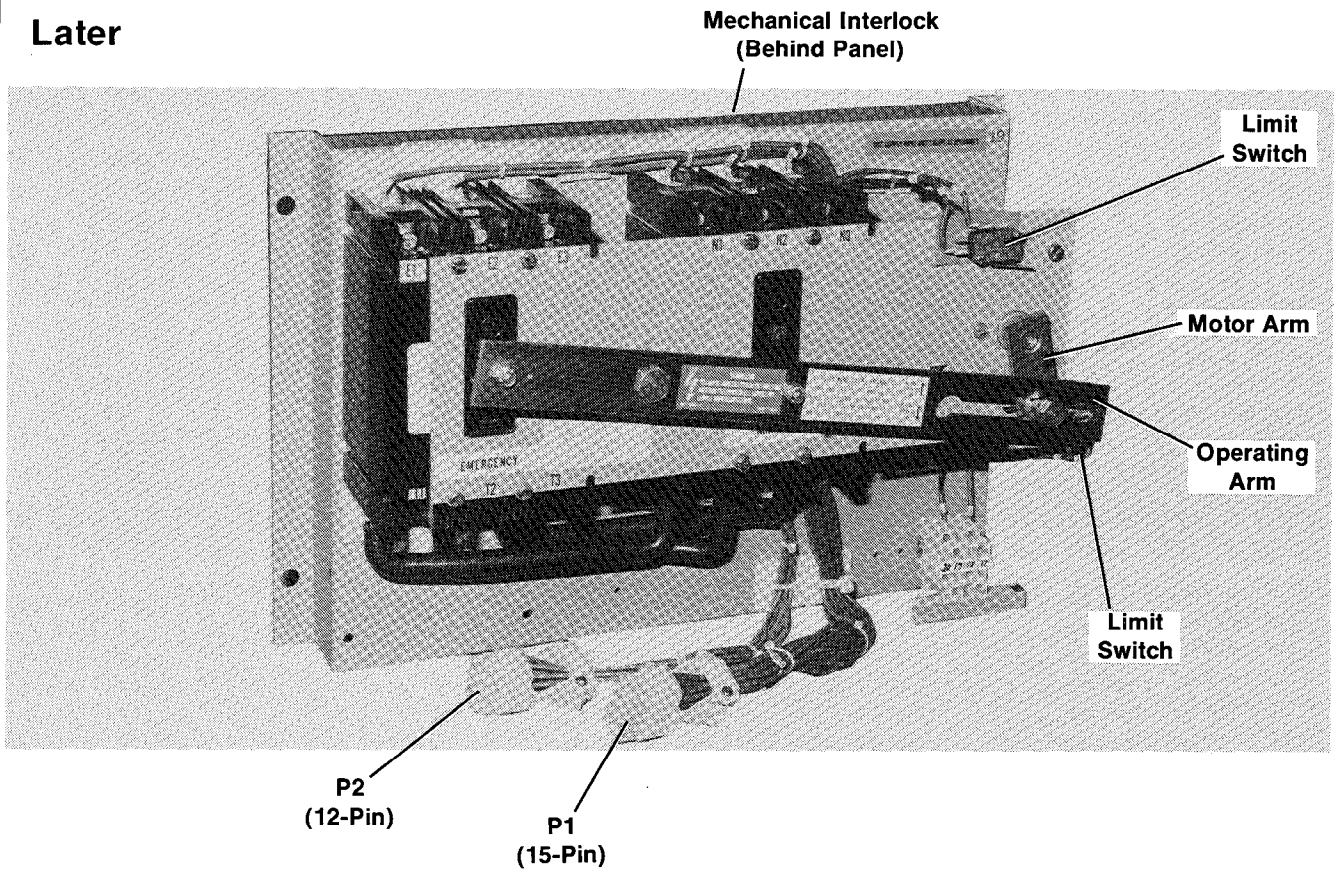


Figure 6. Mechanical Interlock

Later



Earlier

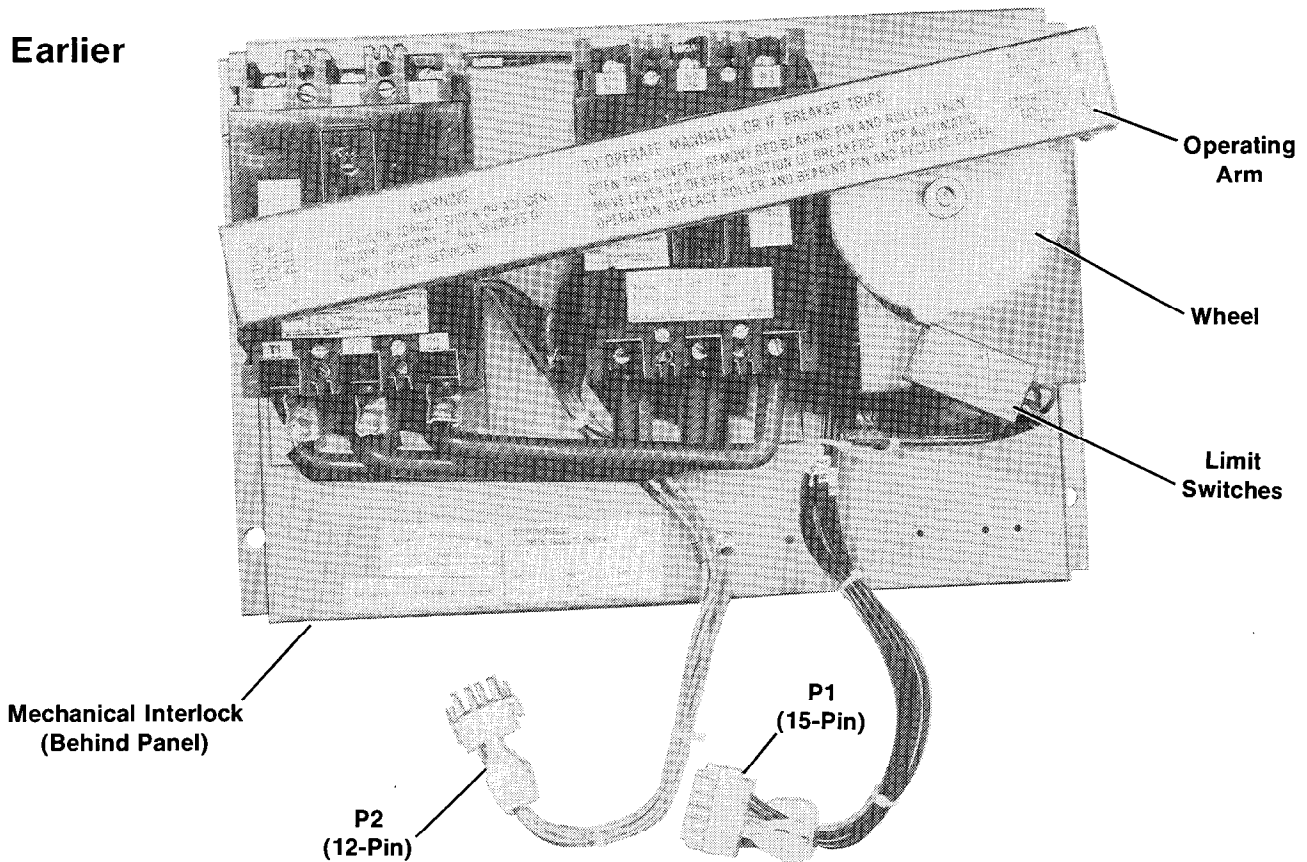


Figure 7. Transfer Mechanisms (30-104A) Earlier  
(Parts available only. Service complete mechanism with later type.)

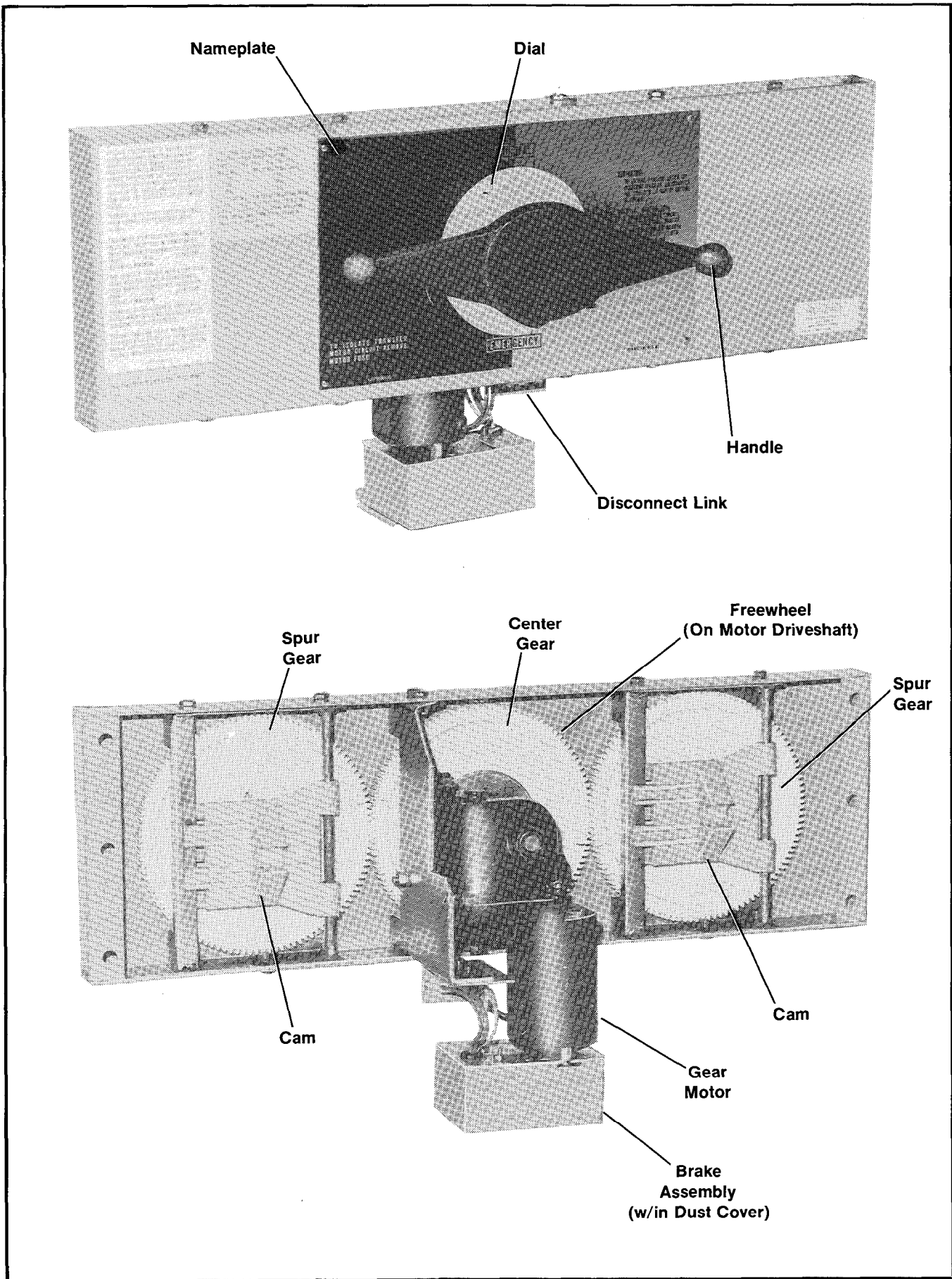


Figure 8. Transfer Mechanism (225-1000A)

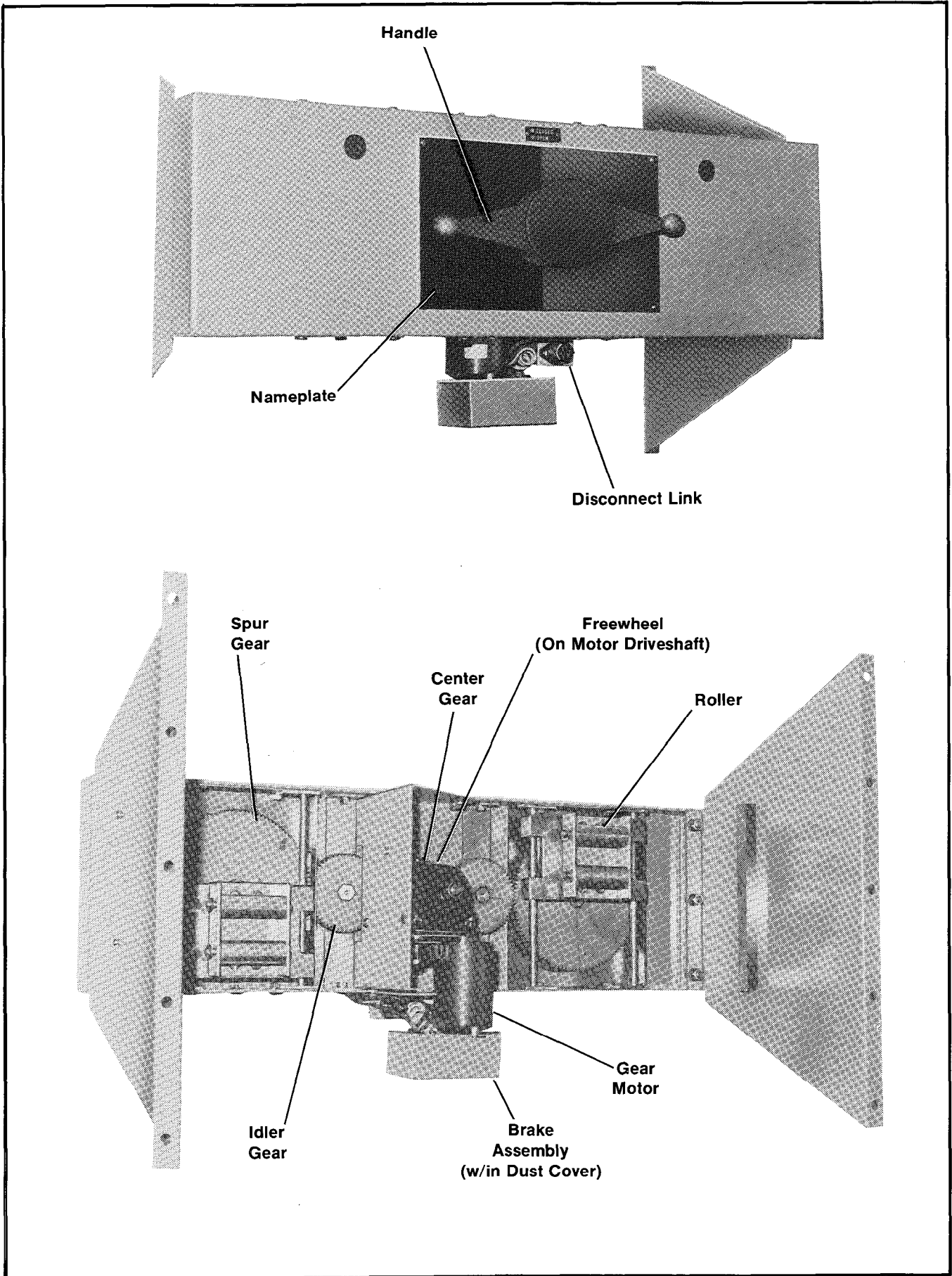


Figure 9. Transfer Mechanism (1200-2000A)

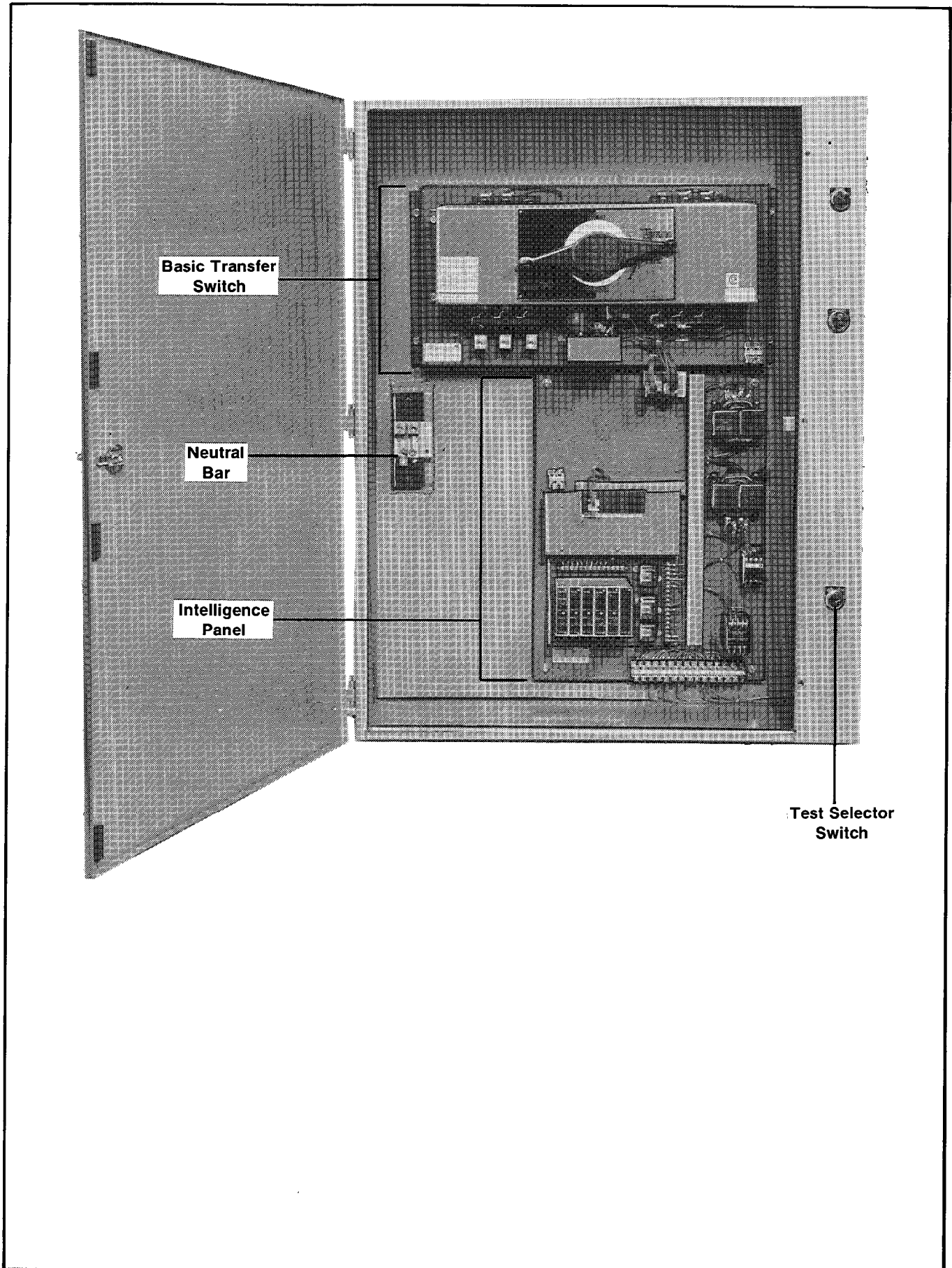


Figure 10. Typical Panel (225-1000A)

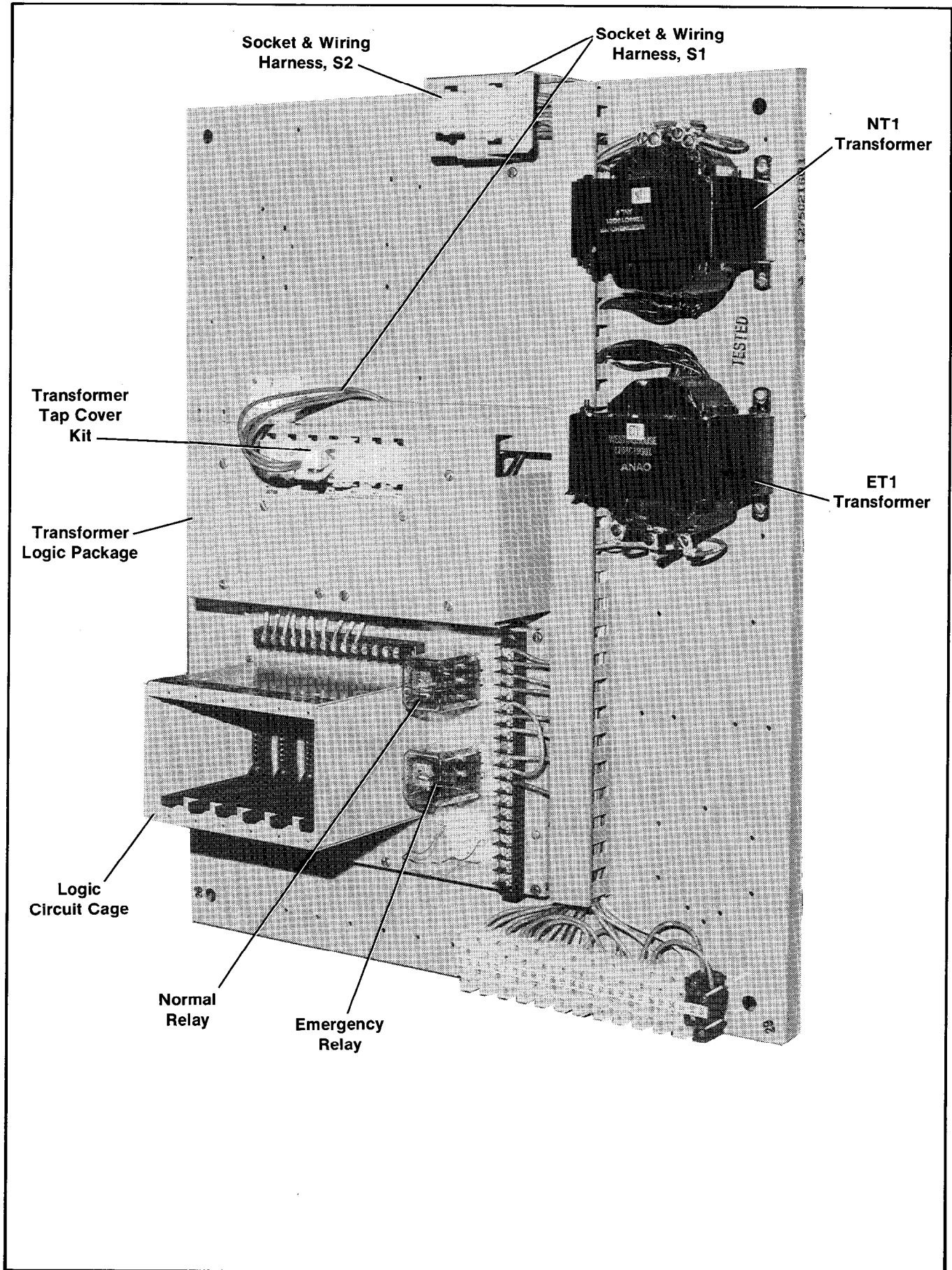


Figure 11. Intelligence Panel

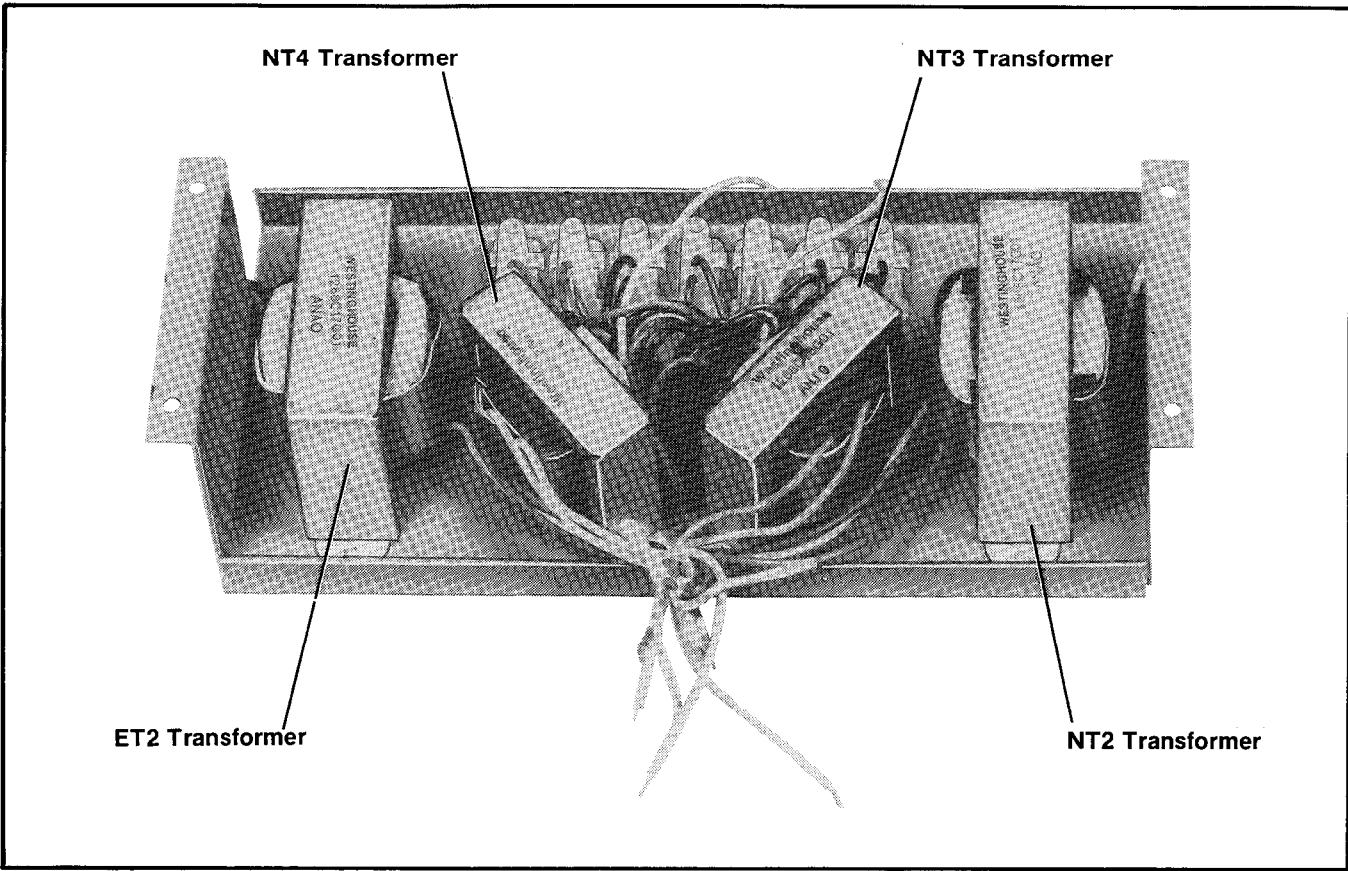


Figure 12. Transformer Logic Package

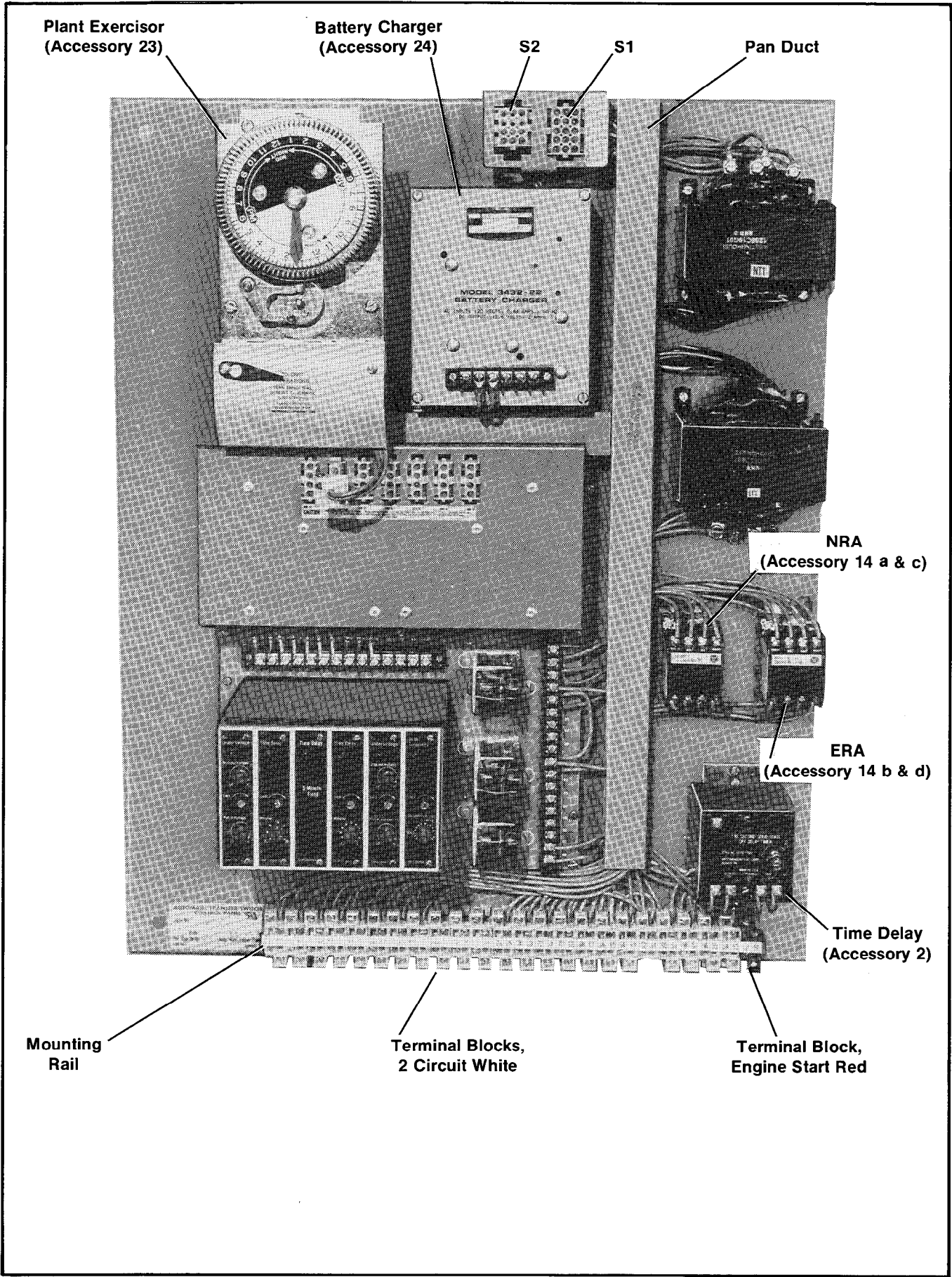


Figure 13. Intelligence Panel — with Options  
 (NOTE: Logic circuit cage slots not used will have blank cover.)

N			E			Solid State Logic Package	Position	Plug-in Module
1	2	3	4	5	6			
X								Under Voltage
								Over Voltage
								Under Frequency
								Over Frequency
								Time Delay
								Relay Driver
								Blank Cover

**6-Position**

N				E					Solid State Logic Package	Position	Plug-in Module
1	2	3	4	5	6	7	8	9			
X										Under Voltage	
										Over Voltage	
										Under Frequency	
										Over Frequency	
										Time Delay	
										Relay Driver	
										Blank Cover	

**9-Position**

Figure 14. Logic Cage Card Positions

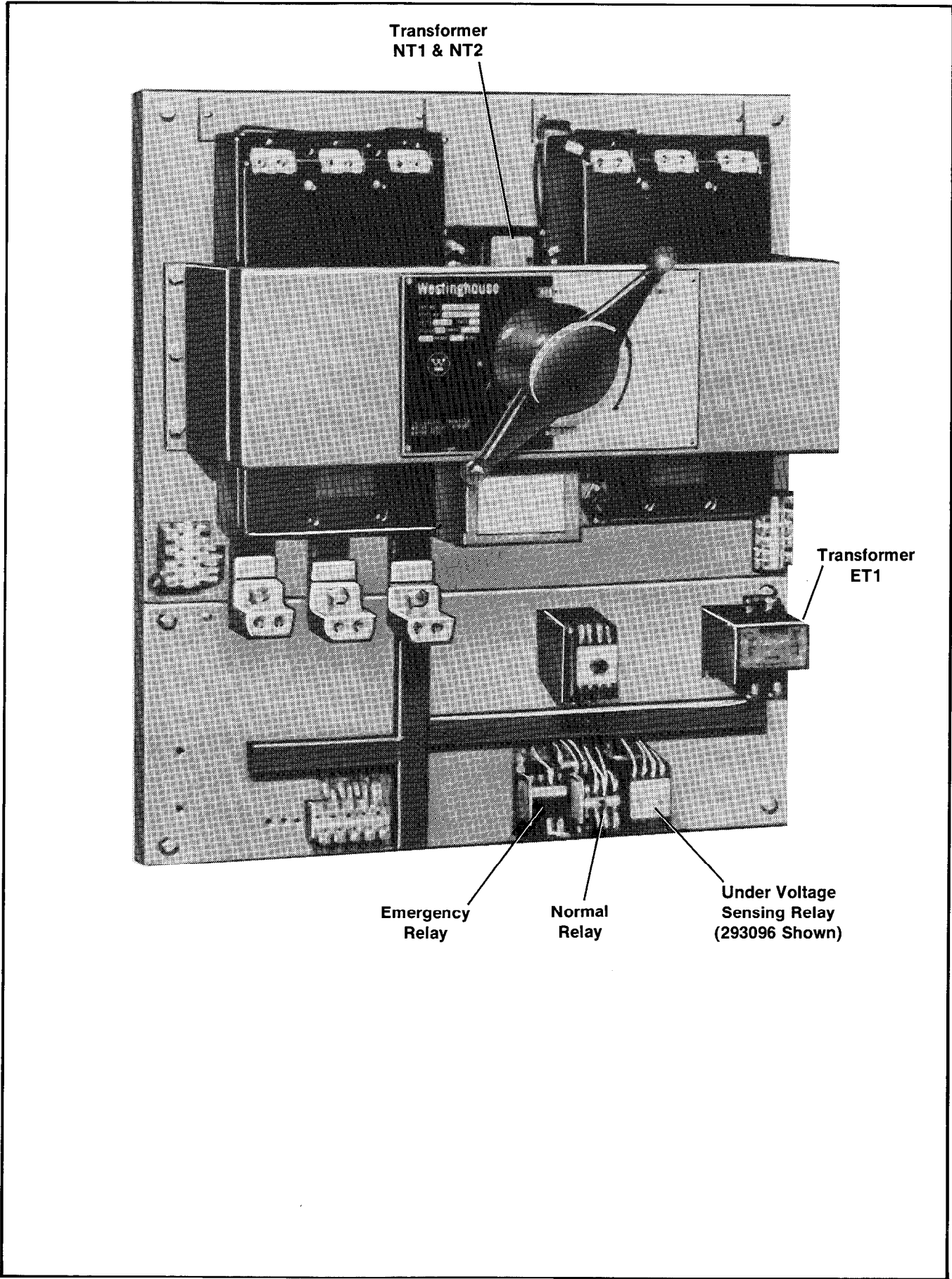


Figure 15. Typical Panel

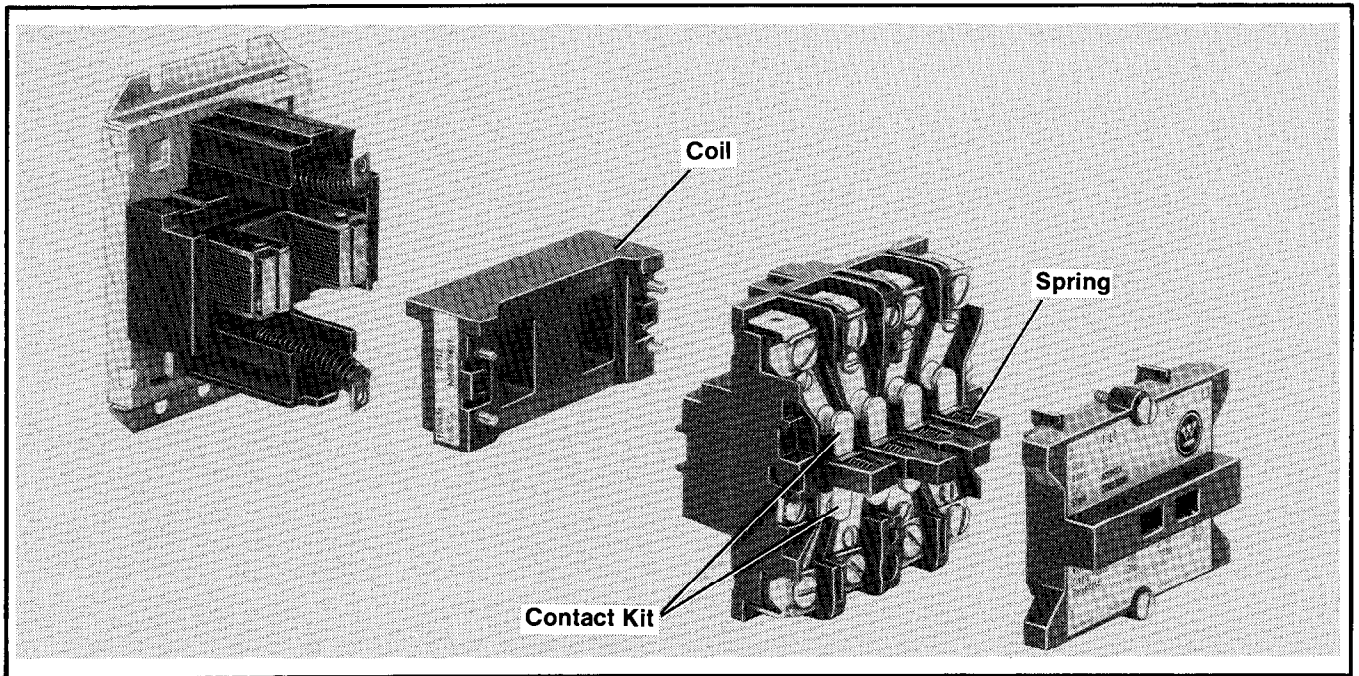


Figure 16. Electrically-Held Contactor

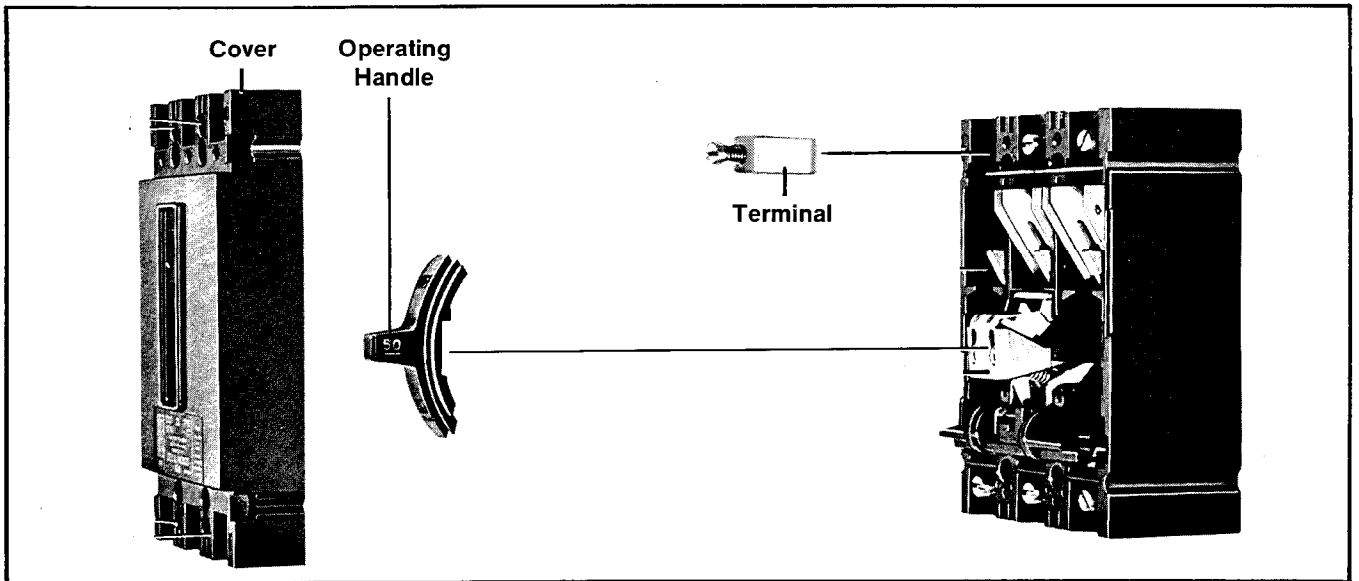


Figure 17. Typical Breaker

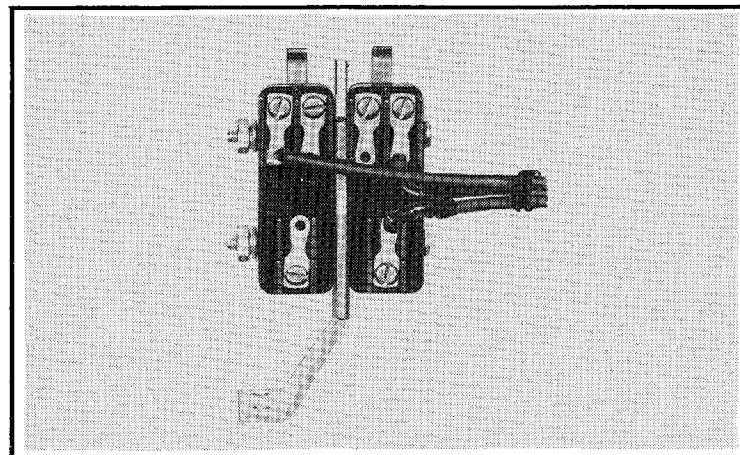


Figure 18. Limit Switch

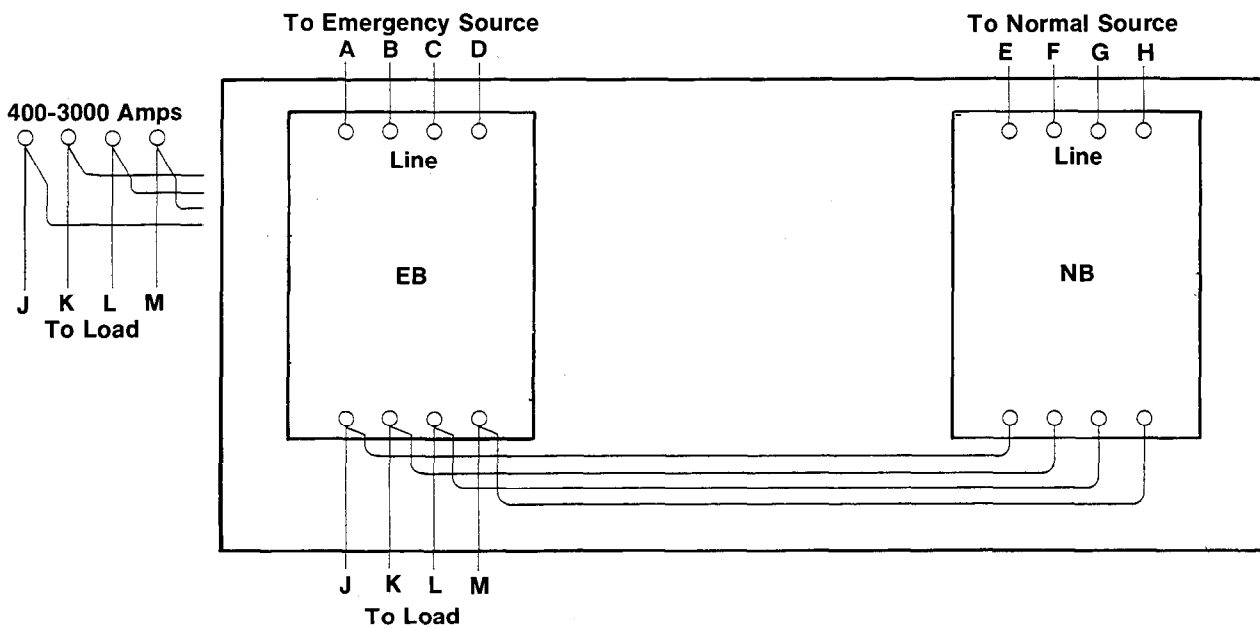
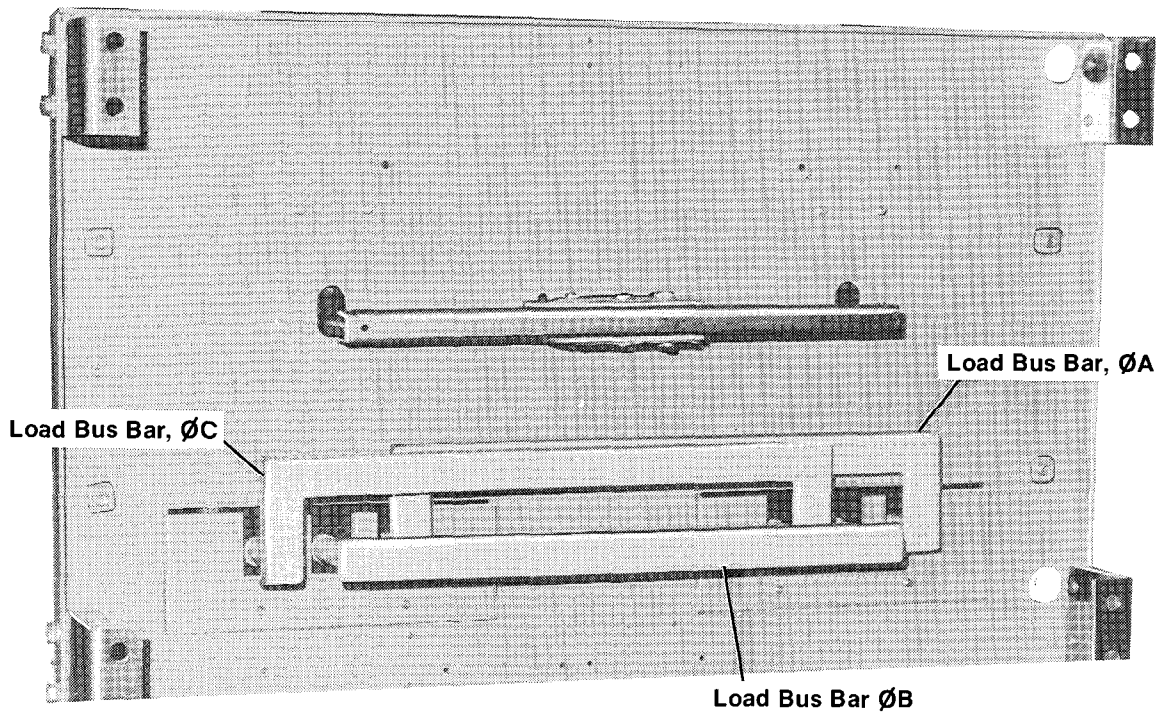


TABLE OF LINE AND LOAD CONNECTIONS

AMPERE RATING	A	B	C	D	E	F	G	H	J	K	L	M
100	E1	E2	E3	NEUT	N1	N2	N3	NEUT	T1	T2	T3	NEUT
225	NEUT	E1	E2	E3	NEUT	N1	N2	N3	NEUT	T1	T2	T3
400-3000	NEUT	E1	E2	E3	N1	N2	N3	NEUT	NEUT	T1	T2	T3

Figure 19. Load Bus Bar (225-2000A)  
Load Bus Bar (4 pole, front view)

# I. TRANSFER SWITCH COMPLETE

## Single Panel, Circuit Breaker Switch, Mechanically Held, Electro-Mechanical Logic

Description		Voltage	Complete	Open	Enclosure
Amps	Poles		Switch w/Nema #1 Enclosure		
30	2	60 HZ, 120V	A-292180	A-292680	A-293605
30	2	60 HZ, 240V	A-292183	A-292683	A-293605
30	2	50 HZ, 220V	A-292192	A-292198	A-293605
30	3	60 HZ, 208V	A-292168	A-292668	A-293605
30	3	60 HZ, 208V	A-292171	A-292671	A-293605
30	3	60 HZ, 480V	A-292174	A-292674	A-293605
30	3	60 HZ, 600V	A-292177	A-292677	A-293605
30	3	60 HZ, 240V	A-292186	-	A-293605
30	3	50 HZ, 380V	A-292189	A-292195	A-293605
70	2	60 HZ, 120V	A-292181	A-292681	A-293605
70	2	60 HZ, 240V	A-292184	A-292684	A-293605
70	2	50 HZ, 220V	A-292193	A-292199	A-293605
70	3	60 HZ, 208V	A-292169	A-292669	A-293605
70	3	60 HZ, 208V	A-292172	A-292672	A-293605
70	3	60 HZ, 480V	A-292175	A-292675	A-293605
70	3	60 HZ, 600V	A-292178	A-292678	A-293605
70	3	60 HZ, 240V	A-292187	-	A-293605
70	3	50 HZ, 380V	A-292190	A-292196	A-293605
104	2	60 HZ, 120V	A-292182	A-292682	A-293605
104	2	60 HZ, 240V	A-292185	A-292685	A-293605
104	2	50 HZ, 220V	A-292194	A-292200	A-293605
104	3	60 HZ, 208V	A-292170	A-282670	A-293605
104	3	60 HZ, 208V	A-292173	A-292673	A-293605
104	3	60 HZ, 480V	A-282176	A-292676	A-293605
104	3	60 HZ, 600V	A-292179	A-292679	A-293605
104	3	60 HZ, 240V	A-292188	-	A-293605
104	3	50 HZ, 380V	A-292191	A-292197	A-293605
225	2	60 HZ, 120V	A-292074	A-292574	A-293553
225	2	60 HZ, 120V	A-292201	A-292213	A-293553
225	2	60 HZ, 240V	A-292076	A-292576	A-293553
225	2	50 HZ, 220V	A-292127	A-292627	A-293553
225	2	60 HZ, 240V	A-292203	A-292215	A-293553
225	3	60 HZ, 240V	A-292068	A-292568	A-293553
225	3	60 HZ, 480V	A-292070	A-292570	A-293553
225	3	60 HZ, 600V	A-292072	A-292572	A-293553
225	3	50 HZ, 380V	A-292129	A-292629	A-293553
225	3	60 HZ, 208V	A-292066	A-292666	A-293553
225	3	60 HZ, 208V	A-292205	A-292217	A-293553
225	3	60 HZ, 240V	A-292207	A-292219	A-293553
225	3	60 HZ, 480V	A-292209	A-292221	A-293553
225	3	60 HZ, 600V	A-292211	A-292223	A-293553
225	3	60 HZ, 208V	A-292066	A-292566	A-293553

Description		Voltage	Complete Switch	Open	Enclosure
Amps	Poles		w/Nema #1 Enclosure	Switch	Only
400	2	60 HZ, 120V	A-292075	A-292575	A-293553
400	2	60 HZ, 120V	A-292202	A-292214	A-293553
400	2	60 HZ, 240V	A-292077	A-292577	A-293553
400	2	60 HZ, 240V	A-292204	A-292216	A-293553
400	3	60 HZ, 208V	A-292067	A-292567	A-293553
400	3	60 HZ, 240V	A-292069	A-292569	A-293553
400	3	60 HZ, 480V	A-292071	A-292571	A-293553
400	3	60 HZ, 600V	A-292073	A-292573	A-293553
400	2	50 HZ, 220V	A-292128	A-292628	A-293553
400	3	50 HZ, 380V	A-292130	A-292630	A-293553
400	3	60 HZ, 208V	A-292206	A-292218	A-293553
400	3	60 HZ, 240V	A-292208	A-292220	A-293553
400	3	60 HZ, 480V	A-292210	A-292222	A-293553
400	3	60 HZ, 600V	A-292212	A-292224	A-293553

**Single Panel, Contactor Switch, Electrically Held,  
Electro-Mechanical Logic**

Description		Voltage	Complete Switch	Open	Enclosure
Amps	Poles		w/Nema #1 Enclosure	Switch	Only
30	2	60 HZ, 120V	A-292090	A-292590	A-293604
30	2	60 HZ, 240V	A-292093	A-292593	A-293604
30	2	50 HZ, 220V	A-292116	A-292616	A-293605
30	3	60 HZ, 240V	A-292081	A-292581	A-293604
30	3	60 HZ, 208V	A-292078	A-292578	A-293604
30	3	60 HZ, 480V	A-292084	A-292584	A-293605
30	3	60 HZ, 600V	A-292087	A-292587	A-293605
30	3	60 HZ, 240V	A-292154	-	A-293604
30	3	50 HZ, 380V	A-292122	A-292622	A-293605
70	2	60 HZ, 120V	A-292091	A-292591	A-293604
70	2	60 HZ, 240V	A-292094	A-292594	A-293604
70	2	50 HZ, 220V	A-292118	A-292618	A-293605
70	3	60 HZ, 240V	A-292082	A-292582	A-293604
70	3	60 HZ, 208V	A-292079	A-292579	A-293604
70	3	60 HZ, 480V	A-292085	A-282585	A-293605
70	3	60 HZ, 600V	A-292088	A-292588	A-293605
70	3	60 HZ, 240V	A-292156	-	A-293604
70	3	50 HZ, 380V	A-292124	A-292624	A-293605
104	2	60 HZ, 120V	A-292092	A-292592	A-293604
104	2	60 HZ, 240V	A-292095	A-292595	A-293604
104	2	50 HZ, 220V	A-292120	A-292620	A-293605
104	3	60 HZ, 240V	A-292083	A-292583	A-293604
104	3	60 HZ, 208V	A-292080	A-292580	A-293604
104	3	60 HZ, 480V	A-292086	A-292586	A-293605
104	3	60 HZ, 600V	A-292089	A-292589	A-293605
104	3	60 HZ, 240V	A-292158	-	A-293604
104	3	50 HZ, 380V	A-292126	A-292626	A-293605

**Single Panel, Contactor Switch, Mechanically Held,  
Electro-Mechanical Logic**

<u>Description</u>		<u>Voltage</u>	<u>Complete</u>	<u>Open</u>	<u>Enclosure</u>
<u>Amps</u>	<u>Poles</u>		<u>Switch</u>		
			<u>w/Nema</u>	<u>Switch</u>	<u>Only</u>
			<u>#1 Enclosure</u>		
30	2	60 HZ, 120V	A-292108	A-292608	A-293604
30	2	60 HZ, 240V	A-292111	A-292611	A-293604
30	3	60 HZ, 240V	A-292099	A-292599	A-293604
30	3	60 HZ, 208V	A-292096	A-292596	A-293604
30	3	60 HZ, 480V	A-292102	A-292602	A-293605
30	3	60 HZ, 600V	A-292105	A-292605	A-293605
70	2	60 HZ, 120V	A-292109	A-292609	A-293604
70	2	60 HZ, 240V	A-292112	A-292612	A-293604
70	3	60 HZ, 240V	A-292100	A-292600	A-293604
70	3	60 HZ, 208V	A-292097	A-292597	A-293604
70	3	60 HZ, 480V	A-292103	A-292603	A-293605
70	3	60 HZ, 600V	A-292106	A-292606	A-293605
104	2	60 HZ, 120V	A-292110	A-292610	A-293604
104	2	60 HZ, 240V	A-292113	A-292613	A-293604
104	3	60 HZ, 240V	A-292101	A-292601	A-293604
104	3	60 HZ, 208V	A-292098	A-292598	A-293604
104	3	60 HZ, 480V	A-292104	A-292604	A-293605
104	3	60 HZ, 600V	A-292107	A-292607	A-293605

**Split Panel, Circuit Breaker Switch Mechanically Held,  
Sold State Logic**

<u>Description</u>		<u>Voltage</u>	<u>Complete</u>	<u>Open</u>	<u>Enclosure</u>
<u>Amps</u>	<u>Poles</u>		<u>Switch</u>		
			<u>w/Nema</u>	<u>Switch</u>	<u>Only</u>
			<u>#1 Enclosure</u>		
30	2	60 HZ, 240V	A-292700	A-292711	A-293525
		50 HZ, 220V			
30	3	60 HZ, 208V, 240V	A-292722	A-292733	A-293525
		480V, 600V			
		50 HZ, 220V, 380V			
		416V			
30	3	60 HZ & 50 HZ 240V	A-292766	-	A-293525
30	4	60 HZ, 208V, 240V	A-292744	A-292755	A-293525
		480V, 600V			
		50HZ, 220V, 380V			
		416V			

<u>Description</u>		<u>Voltage</u>	<u>Complete</u>	<u>Open</u>	<u>Enclosure</u>
<u>Amps</u>	<u>Poles</u>		<u>Switch</u>		
			<u>w/Nema</u>		<u>Only</u>
			<u>#1 Enclosure</u>		
70	2	60 HZ, 240V 50 HZ, 220V	A-292701	A-292712	A-293525
70	3	60 HZ, 208V, 240V 480V, 600V 50HZ, 220V, 380V 416V	A-292723	A-292734	A-293525
70	3	60 HZ, 50 HZ, 240V 60 HZ, 208V, 240V 480V, 600V 50 HZ, 220V, 380V 416V	A-292767 A-292745	- A-292756	A-293525 A-293525
104	2	60 HZ, 240V 50 HZ, 220V	A-292702	A-292713	A-293525
104	3	60 HZ, 208V, 240V 480V, 600V 50 HZ, 220V, 380V 416V	A-292724	A-292735	A-293525
104	3	60 HZ, 50 HZ, 240V	A-292768	-	A-293525
104	4	60 HZ, 208V, 240V 480V, 600V 50 HZ, 220V, 380V 416V	A-292746	A-292757	A-293525
225	2	60 HZ, 240V 50 HZ, 220V	A-292703	A-292714	A-293526
225	3	60 HZ, 208V, 240V 480V, 600V 50 HZ, 220V, 380V 416V	A-292725	A-292736	A-293526
225	4	60 HZ, 208V, 240V 480V, 600V 50HZ, 220V, 380V 416V	A-292747	A-292758	A-293528
400	2	60 HZ, 240V 50 HZ, 220V	A-292704	A-292715	A-293526
400	3	60 HZ, 208V, 240V 480V, 600V 50HZ, 220V, 380V 416V	A-292726	A-292737	A-293526
400	4	60 HZ, 208V, 240V 480V, 600V 50 HZ, 220V, 380V 416V	A-292748	A-292759	A-293528
600	2	60 HZ, 240V 50 HZ, 220V	A-292705	A-292716	A-293527
600	3	60 HZ, 208V, 240V 480V, 600V 50 HZ, 220V, 380V 416V	A-292727	A-292738	A-293527
600	4	60 HZ, 208V, 240V 480V, 600V 50 HZ, 220V, 380V 416V	A-292749	A-292760	A-293529

<b>Description</b>		<b>Voltage</b>	<b>Complete</b>	<b>Open</b>	<b>Enclosure</b>
<b>Amps</b>	<b>Poles</b>		<b>Switch w/Nema #1 Enclosure</b>	<b>Switch</b>	<b>Only</b>
800	2	60 HZ, 240V 50 HZ, 220V	A-292706	A-292717	A-293527
800	3	60 HZ, 208V, 240V 480V, 600V 50 HZ, 220V, 380V 416V	A-292728	A-292739	A-293527
800	4	60 HZ, 208V, 240V 480V, 600V 50 HZ, 220V, 380V 416V	A-292750	A-292761	A-293529
1000	2	60 HZ, 240V 50 HZ, 220V	A-292707	A-292718	A-293527
1000	3	60 HZ, 208V, 240V 480V, 600V 50 HZ, 220V, 380V 416V	A-292729	A-292740	A-293527
1000	4	60 HZ, 208V, 240V 480V, 600V 50 HZ, 220V, 380V 416V	A-292751	A-292762	A-293529
1200	2	60 HZ, 240V 50 HZ, 220V	A-292708	A-292719	A-293530
1200	3	60 HZ, 208V, 240V 480V, 600V 50 HZ, 220V, 380V 416V	A-292730	A-292741	A-293530
1200	4	60 HZ, 208V, 240V 480V, 600V 50 HZ, 220V, 380V 416V	A-292752	A-292763	A-293531
1600	2	60 HZ, 240V 50 HZ, 220V	A-292709	A-292720	A-293530
1600	3	60 HZ, 208V, 240V 480V, 600V 50 HZ, 220V, 380V 416V	A-292731	A-292742	A-293530
1600	4	60 HZ, 208V, 240V 480V, 600V 50 HZ, 220V, 380V 416V	A-292753	A-292764	A-293531
2000	2	60 HZ, 240V 50 HZ, 220V	A-292710	A-292721	A-293530
2000	3	60 HZ, 208V, 240V 480V, 600V 50 HZ, 220V, 380V 416V	A-292732	A-292743	A-293530
2000	4	60 HZ, 208V, 240V 480V, 600V 50 HZ, 220V, 380V 416V	A-292754	A-292765	A-293531

## Split Panel, Circuit Breaker Switch, Mechanically Held, Electro-Mechanical Logic

Description Amps	Poles	Voltage	Complete Switch w/Nema #1 Enclosure	Open Switch	Enclosure Only
30	2	60 HZ, 120V	A-292044	A-292544	A-293521
30	2	60 HZ, 240V	A-292055	A-292555	A-293521
30	2	50 HZ, 220V	A-292131	A-292631	A-293521
30	3	60 HZ, 208V	A-292000	A-292500	A-293521
30	3	60 HZ, 240V	A-292011	A-292511	A-293521
30	3	60 HZ, 480V	A-292022	A-292522	A-293521
30	3	60 HZ, 600V	A-292033	A-292533	A-293521
30	3	50 HZ, 380V	A-292142	A-292642	A-293521
70	2	60 HZ, 120V	A-292045	A-292545	A-293521
70	2	60 HZ, 240V	A-292056	A-292556	A-293521
70	2	50 HZ, 220V	A-292132	A-292632	A-293521
70	3	60 HZ, 208V	A-292001	A-292501	A-293521
70	3	60 HZ, 240V	A-292012	A-292512	A-293521
70	3	60 HZ, 480V	A-292023	A-292523	A-293521
70	3	60 HZ, 600V	A-292034	A-292534	A-293521
70	3	50 HZ, 380V	A-292143	A-292643	A-293521
104	2	60 HZ, 120V	A-292046	A-292546	A-293521
104	2	60 HZ, 240V	A-292057	A-292557	A-293521
104	2	50 HZ, 220V	A-292133	A-292633	A-293521
104	3	60 HZ, 208V	A-292002	A-292502	A-293521
104	3	60 HZ, 240V	A-292013	A-292513	A-293521
104	3	60 HZ, 480V	A-292024	A-292524	A-293521
104	3	60 HZ, 600V	A-292035	A-292535	A-293521
104	3	50 HZ, 380V	A-292144	A-292644	A-293521
225	2	60 HZ, 120V	A-292047	A-292547	A-293522
225	2	60 HZ, 240V	A-292058	A-292558	A-293522
225	2	50 HZ, 220V	A-292134	A-292634	A-293522
225	3	60 HZ, 208V	A-292003	A-292503	A-293522
225	3	60 HZ, 240V	A-292014	A-292514	A-293522
225	3	60 HZ, 480V	A-292025	A-292525	A-293522
225	3	60 HZ, 600V	A-292036	A-292536	A-293522
225	3	50 HZ, 380V	A-292145	A-292645	A-293522
400	2	60 HZ, 120V	A-292048	A-292548	A-293522
400	2	60 HZ, 240V	A-292059	A-292559	A-293522
400	2	50 HZ, 220V	A-292135	A-292635	A-293522
400	3	60 HZ, 208V	A-292004	A-292504	A-293522
400	3	60 HZ, 240V	A-292015	A-292515	A-293522
400	3	60 HZ, 480V	A-292026	A-292526	A-293522
400	3	60 HZ, 600V	A-292037	A-292537	A-293522
400	3	50 HZ, 380V	A-292146	A-292646	A-293522

<b>Description</b>		<b>Voltage</b>	<b>Complete</b>	<b>Open</b>	<b>Enclosure</b>
<b>Amps</b>	<b>Poles</b>		<b>Switch</b>		
			<b>w/Nema</b>	<b>Switch</b>	<b>Only</b>
			<b>#1 Enclosure</b>		
600	2	60 HZ, 120V	A-292049	A-292549	A-293523
600	2	60 HZ, 240V	A-292060	A-292560	A-293523
600	2	50 HZ, 220V	A-292136	A-292636	A-293523
600	3	60 HZ, 208V	A-292005	A-292505	A-293523
600	3	60 HZ, 240V	A-292016	A-292516	A-293523
600	3	60 HZ, 480V	A-292027	A-292527	A-293523
600	3	60 HZ, 600V	A-292038	A-292538	A-293523
600	3	50 HZ, 380V	A-292147	A-292647	A-293523
800	2	60 HZ, 120V	A-292050	A-292550	A-293523
800	2	60 HZ, 240V	A-292061	A-292561	A-293523
800	2	50 HZ, 220V	A-292137	A-292637	A-293523
800	3	60 HZ, 208V	A-292006	A-292506	A-293523
800	3	60 HZ, 240V	A-292017	A-292517	A-293523
800	3	60 HZ, 480V	A-292028	A-292528	A-293523
800	3	60 HZ, 600V	A-292039	A-292539	A-293523
800	3	50 HZ, 380V	A-292148	A-292648	A-293523
1000	2	60 HZ, 120V	A-292051	A-292551	A-293523
1000	2	60 HZ, 240V	A-292062	A-292562	A-293523
1000	2	50 HZ, 220V	A-292138	A-292638	A-293523
1000	3	60 HZ, 208V	A-292007	A-292507	A-293523
1000	3	60 HZ, 240V	A-292018	A-292518	A-293523
1000	3	60 HZ, 480V	A-292029	A-292529	A-293523
1000	3	60 HZ, 600V	A-292040	A-292540	A-293523
1000	3	50 HZ, 380V	A-292149	A-292649	A-293523
1200	2	60 HZ, 120V	A-292052	A-292552	A-293524
1200	2	60 HZ, 240V	A-292063	A-292563	A-293524
1200	2	50 HZ, 220V	A-292139	A-292639	A-293524
1200	3	60 HZ, 208V	A-292008	A-292508	A-293524
1200	3	60 HZ, 240V	A-292019	A-292519	A-293524
1200	3	60 HZ, 480V	A-292030	A-292530	A-293524
1200	3	60 HZ, 600V	A-292041	A-292541	A-293524
1200	3	50 HZ, 380V	A-292150	A-292650	A-293524
1600	2	60 HZ, 120V	A-292053	A-292553	A-293524
1600	2	60 HZ, 240V	A-292064	A-292564	A-293524
1600	2	50 HZ, 220V	A-292140	A-292640	A-293524
1600	3	60 HZ, 208V	A-292009	A-292509	A-293524
1600	3	60 HZ, 240V	A-292020	A-292520	A-293524
1600	3	60 HZ, 480V	A-292031	A-292531	A-293524
1600	3	60 HZ, 600V	A-292042	A-292542	A-293524
1600	3	50 HZ, 380V	A-292151	A-292651	A-293524
2000	2	60 HZ, 120V	A-292054	A-292554	A-293524
2000	2	60 HZ, 240V	A-292065	A-292565	A-293524
2000	2	50 HZ, 220V	A-292141	A-292641	A-293524
2000	3	60 HZ, 208V	A-292010	A-292510	A-293524
2000	3	60 HZ, 240V	A-292021	A-292521	A-293524
2000	3	60 HZ, 480V	A-292032	A-292532	A-293524
2000	3	60 HZ, 600V	A-292043	A-292543	A-293524
2000	3	50 HZ, 380V	A-292152	A-292652	A-293524



## II. Transfer Switch Parts

### Single Panel, Circuit Breaker Switch, Mechanically Held, Electro-Mechanical Logic

Part Description	<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Mechanical Interlock				
	30-104	2, 3,	All	293518
	225	2, 3	All	293462
	400	2, 3	All	293463
Normal Relay (NR)				
	30-104	2, 3	60 HZ, 208/240/480/600V	293177
		2, 3	50 HZ, All Voltages	293355
(Note: Normal Relays listed below are for 225-400 Amp Panels below A-292200)				
	225-400	2, 3	60 HZ, 120/480/600V	293177
			60 HZ, 208V	293178
			60 HZ, 240V	293179
		2, 3	50 HZ, All Voltages	293355
(Note: Normal Relays listed below are for 225-400 Amp Panels above A-292200)				
	225-400	2, 3	60 HZ, All Voltages	293177
		2, 3	50 HZ, All Voltages	293355
Emergency Relay (ER)				
	30-104	2, 3	60 HZ, 208/240/480/600V	293174
		2, 3	50 HZ, All Voltages	293355
(Note: Emergency Relays listed below are for 225-400 Amp Panels below A-292200)				
	225-400	2, 3	60 HZ, 120/480/600V	293174
			60 HZ, 208V	293175
			50 HZ, 240V	293176
			50 HZ, All Voltages	293355
(Note: Emergency Relays listed below are for 225-400 Amp Panels above A-292200)				
	225-400	2, 3	60 HZ, All Voltages	293174
		2, 3	50 HZ, All Voltages	293355
Voltage Sensing Relay (VSR)				
	30-400	2, 3	60 HZ, 120/480/600V	293143
			60 HZ, 208V	293167
			60 HZ, 240V	293166
			50 HZ, 110/220/330V	293096
Transformer, NT1+ET1				
	30-400	2,3	60 HZ, 240V	293091
			60 HZ, 480V	
			60 HZ, 208V	293118
			60 Hz, 600V	
			50 HZ, 220/380V	293633

**Part Description**

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Transformer, NT2+NT3			
30-104	2,3	60 HZ, 480V	293123
30-104	2,3	60 HZ, 600V	293124
30-104	2,3	50 HZ, 220/380V	293245
225-400	2,3	60 HZ, 480V	293623
225-400	2,3	60 HZ, 600V	293245
225-400	2,3	50 HZ, 220/380V	293245

**NOTE: The above transformers are used only on the following switches:**

A-292183 thru A-292185  
A-292168 thru A-292179  
A-292203 thru A-292212  
A-292215 thru A-292224

## Transformer NT1+ET1

30-400	2,3	60 HZ, 240/480V	293091
30-400	2,3	60 HZ, 208/600V	293118

## Transformer NT2+NT3

30-104	2,3	60 HZ, 480V	293123
225-400	2,3	60 HZ, 480/600V	293623
30-104	2,3	60 HZ, 600V	293124

## Transformer, MT

225-400	2,3	60 HZ, 208V	293118
		60 HZ, 240V	

**NOTE: The above transformers are used only on the following switches:**

**A-292076, A-292077 and A-292066 thru A-292073**

### Single Panel, Contactor Switch, Mechanically Held, Electro-Mechanical Logic

**Part Description**

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Electrical Interlock Switch, Normal			
30-104	2, 3	All	293047
Electrical Interlock Switch, Emergency			
30-104	2, 3	All	293048

## Single Panel, Contactor Switch, Electrically Held Electro-Mechanical Logic

<b>Part Description</b>			
<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Electrical Auxiliary Switch			
30-104	2, 3	All	293551
Normal Limit Switch			
30-104	2, 3	All	293550
Option 3	2, 3	All	293224

## Common Parts, Single Panel Contactor Switch, Mechanically and Electrically Held, Electro-Mechanical Logic

<b>Part Description</b>			
<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Mechanical Interlock			
30	2,3	All	293031
70-104	2,3	All	293032
Normal Relay (CR)			
30-104	2,3	60 HZ, 120/480/600V	293177
30-104	2,3	60 HZ, 240V	293179*
30-104	2,3	60 HZ, 208V	293178*
30-104	2,3	50 HZ, 110/220/380V	293355
Emergency Relay (ER)			
30-104	2,3	60 HZ, 120/480/600V	293174
30-104	2,3	60 HZ, 240V	293176*
30-104	2,3	60 HZ, 208V	293175*
30-104	2,3	50 HZ, 110/220/380V	293355
Under Voltage Sensing Relay (VSR)			
30-104	2,3	60 HZ, 120/480/600V	293143
		60 HZ, 208V	293167
		60 HZ, 240V	293166
		50 HZ, 110/220/380V	293096

**Part Description**

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Transformers NT1 + ET1			
30	3	60 HZ, 480V	293091
30	3	60 HZ, 600V	293107
30	3	50 HZ, 220/380V	293633
70-104	3	60 HZ, 480V	293053
70-104	3	60 HZ, 600V	293059
70-104	3	50 HZ, 220/380V	293633
Transformer NT2 + NT3			
30-104	3	60 HZ, 480V	293123
30-104	3	60 HZ, 600V	293124
30-104	3	50 HZ, 220/380V	293245

**Breakdown of Transfer Mechanism****Part Description**

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Transfer Mechanism Complete			
30-104	2, 3, 4	All	A-293517
30-104	2, 3	All	A-293473
225 (split panel)	2, 3	All	A-293467
225	4	All	A-293470
225 (single panel)	2, 3	All	A-293474
400-1000 (split panel)	2, 3	All	A-293468
400-1000	4	All	A-293471
400-1000 (single panel)	2, 3	All	A-293475
1200-2000	2, 3	All	A-293469
1200-2000	4	All	A-293472
Limit Switch (NLS, ELS)			
30-104	2, 3, 4	All	293476
Gear Motor (TM)			
30-104	2, 3, 4	All, 50, 60 HZ	293477
225-2000	2, 3, 4	All, 50, 60 HZ	293478
Motor, Arm			
30-104	2, 3, 4	All	293644
Handle			
225-2000	2, 3, 4	All	293480

<b>Part Description</b>	<b>Amps</b>	<b>Poles</b>	<b>Voltage</b>	<b>Part Number</b>
Dial				
	225-1000	2, 3, 4	All	293481
Nameplate				
	225-1000	2, 3, 4	All	293482
	1200-2000	2, 3, 4	All	293483
Brake Assembly (BS)				
	225-2000	2, 3, 4	All	293484
Dust Cover				
	225-2000	2, 3, 4	All	293485
Cam				
	225	2, 3, 4	All	293486
	400-1000	2, 3, 4	All	293487
	1200-2000	4	All	293488

**(NOTE: Cam 293487 goes up to 1000 Amps only on a 4 pole switch)**

Center Gear				
	225-1000	2, 3, 4	All	293489
	1200-2000	2, 3, 4	All	293490
Spur Gear				
	225-1000	2, 3, 4	All	293491
	1200-2000	2, 3, 4	All	293492
Idler Gear				
	1200-2000	2, 3, 4	All	293493
Wheel, White Nylon				
	30-104	2, 3	All	293494

**Part Description**

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Operating Arm			
30-104 (New)	2, 3, 4	All	293495
30-104 (Old)	2, 3, 4	All	293496
Freewheel			
225-2000	2, 3, 4	All	293497
Roller			
225-1000	2, 3, 4	All	293498
1200-2000	2, 3, 4	All	293632
Disconnect Link Kit (DL)			
30-2000 (Consists of Disconnect Link, Fuse Holder & Bracket)	2, 3, 4	All	293386
30-2000 (Consists of Plug & Socket)	2, 3, 4	All	293387

**Breakdown of Basic Transfer Switch**

<u>Part Description</u>	<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Part No. Complete				
30-104		2	All	A-293426
30-104		3	All	A-293437
104		4	All	A-293448
225		2	All	A-293427
225		3	All	A-293438
225		4	All	A-293449
400		2	All	A-293428
400		3	All	A-293439
400		4	All	A-293450
600		2	All	A-293429
600		3	All	A-293440
600		4	All	A-293451
800		2	All	A-293430
800		3	All	A-293441
800		4	All	A-293452
1000		2	All	A-293431
1000		3	All	A-293442
1000		4	All	A-293453

**Part Description**

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
1200	2	All	A-293432
1200	3	All	A-293443
1200	4	All	A-293454
1600	2	All	A-293433
1600	3	All	A-293444
1600	4	All	A-293455
2000	2	All	A-293434
2000	3	All	A-293445
2000	4	All	A-293456
P1 Harness			
30-2000	2, 3, 4	All	293459
P2 Harness			
30-2000	2, 3, 4	All	293460
Mechanical Interlock			
30-104	2, 3, 4	All	293518
225	2, 3, 4	All	293462
400	2, 3, 4	All	293463
600-1000	2, 3, 4	All	293464
1200-2000	2, 3, 4	All	293465

**Breakdown of Intelligence Panel, Solid State Logic****Part Description**

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Intelligence Circuit Logic Package, 6 Position			
30-1000	2	240V	293499
30-1000	3, 4	All	293501
1200-2000	2	240V	293500
1200-2000	3, 4	All	293502
Intelligence Circuit Logic Package, 9 Position			
30-1000	2	240V	293503
30-1000	3, 4	All	293505
1200-2000	2	240V	293504
1200-2000	3, 4	All	293506
Solid State Logic Circuit Cage, 6 Position			
30-2000	2, 3, 4	All	293507

**Part Description**

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Solid State Logic Circuit Cage, 9 Position			
30-2000	2, 3, 4	All	293508
Normal & Emergency Relay			
30-2000	2, 3, 4	All	293263
Transformer Logic Package Complete, W/Wiring Harness			
30-2000	2, 3, 4	All	293509
Transformer, NT1			
30-1000	2, 3, 4	All	293266
1200-2000	2, 3, 4	All	293267
Transformer, ET1			
30-1000	2, 3, 4	All	293268
1200-2000	2, 3, 4	All	293269
Transformer, NT2, ET2			
30-2000 (NT2)	2, 3, 4	All	293511
30-2000 (ET2)	2, 3, 4	All	293630
Transformer, NT3, NT4			
30-2000 (NT3)	2, 3, 4	All	293510
30-2000 (NT4)	2, 3, 4	All	293629
Socket & Wiring Harness, S1			
30-2000	2, 3, 4	All	293512
Socket & Wiring Harness, S2			
30-2000	2, 3, 4	All	293513
Transformer Tap Cover Kit			
30-2000	2, 3, 4	All	293515

<b>Part Description</b>			
<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Blank Cover			
30-2000	2, 3, 4	All	293260
Under Voltage Sensing Card, 1Ø			
30-2000	2, 3, 4	All	293261
Under Voltage Sensing Card, 3Ø			
30-2000	2, 3, 4	All	293262
Relay Driver Card			
30-2000	2, 3, 4	All	293259
Mounting Hardware			
30-2000	2, 3, 4	All	293568

### **Breakdown of Intelligence Panel, Electro-Mechanical Logic**

Intelligence Panel Complete

**Order by Description**

<b>Part Description</b>			
<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Normal Relay			
30-2000	2, 3	60 HZ, 120V 60 HZ, 208V 60 HZ, 240V 60 HZ, 480V 60 HZ, 600V	293177
Emergency Relay			
30-2000	2, 3	60 HZ, 120V 60 HZ, 208V 60 HZ, 240V 60 HZ, 480V 60 HZ, 600V	293174

<b>Part Description</b>			
<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Transformer, NT1 + NT2			
30-1000	2, 3	60 HZ, 208V 60 HZ, 240V 60 HZ, 480V 60 HZ, 600V	293117
1200-2000	2, 3	60 HZ, 240V 60 HZ, 480V 60 HZ, 600V	293118 + 293062
1200-2000	3	60 HZ, 208V	293118 + 293061
Transformer, ET1			
30-1000	2, 3	60 HZ, 240V 60 HZ, 480V 60 HZ, 600V	293118
1200-2000	2, 3	60 HZ, 240V 60 HZ, 480V 60 HZ, 600V	293062
1200-2000	3 3	60 HZ, 208V	293061
Under Voltage Sensing Relay			
30-2000	2, 3	60 HZ, 480V	293241
30-2000	2, 3	60 HZ, 208V	293243
30-2000	2, 3	60 HZ, 240V	293242
Under Voltage Sensing Relay			
30-2000	2, 3	All	293096

### **Breakdown of Contactors, Electrically Held**

<b>Part Description</b>			
<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Contactor Complete (Normal + Emergency)			
30	2	60 HZ, 120V 60 HZ, 480V 60 HZ, 600V	293001
30	2	60 HZ, 240V	293003
30	3	60 HZ, 120V 60 HZ, 480V 60 HZ, 600V	293226
30	3	60 HZ, 208V	293227
30	3	60 HZ, 240V	293228

**Part Description**

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
70	2	60 HZ, 120V 60 HZ, 480V 60 HZ, 600V	293229
70	2	60 HZ, 240V	293231
70	3	60 HZ, 120V 60 HZ, 480V 60 HZ, 600V	293232
70	3	60 HZ, 208V	293233
70	3	60 HZ, 240V	293234
104	2	60 HZ, 120V 60 HZ, 480V 60 HZ, 600V	293199
104	2	60 HZ, 240V	293201
104	3	60 HZ, 120V 60 HZ, 480V 60 HZ, 600V	293208
104	3	60 HZ, 208V	293209
104	3	60 HZ, 240V	293210
Coil			
70-104	2	60 HZ, 240V	293024
30	2, 3	60 HZ, 120V 60 HZ, 480V 60 HZ, 600V	293019
30	2, 3	60 HZ, 208V	293020
30	2, 3	60 HZ, 240V	293021
70-104	2, 3	60 HZ, 120V 60 HZ, 480V 60 HZ, 600V	293022
70-104	2, 3	60 HZ, 208V	293023
70-104	2, 3	60 HZ, 240V	293024

**Breakdown of Contactors, Mechanically Held****Part Description**

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Contactor Compete (N+N Latch, E+E Latch)			
30	2	60 HZ, 120V 60 HZ, 480V 60 HZ, 600V	293181
30	2	60 HZ, 240V	293183
30	3	60 HZ, 120V 60 HZ, 480V 60 HZ, 600V	293215
30	3	60 HZ, 208V	293216
30	3	60 HZ, 240V	293214

**Part Description**

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
70	2	60 HZ, 120V 60 HZ, 480V 60 HZ, 600V	293187
70	2	60 HZ, 240V	293189
70	3	60 HZ, 120V 60 HZ, 480V 60 HZ, 600V	293193
70	3	60 HZ, 208V 60 HZ, 240V	293194
104	2	60 HZ, 120/480/600V	293205
104	2	60 HZ, 240V	293204
104	3	60 HZ, 120/480/600V	293218
104	3	60 HZ, 208/240V	293219
Coil			
30	2, 3	60 HZ, 120V 60 HZ, 480V 60 HZ, 600V	293634
30	2, 3	60 HZ, 208V, 240V	293019
30	3		
70-104	2, 3	60 HZ, 120V 60 HZ, 480V 60 HZ, 600V	293594
70-104	2, 3	60 HZ, 208V, 240V	293595

NOTE: For 50 HZ Refer to Factory.

### Breakdown of Contactors, Electrically Held 50 Hertz

<u>Part Description</u>	<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Contactor Complete				
	30	2	50 HZ, 220V 50 HZ, 380V	293388
	30	3	50 HZ, 220V 50 HZ, 380V	293391
	70	2	50 HZ, 220V 50 HZ, 380V	293389
	70	3	50 HZ, 220V 50 HZ, 380V	293392
	104	2	50 HZ, 220V 50 HZ, 380V	293390
	104	3	50 HZ, 220V 50 HZ, 380V	293393

**Part Description**

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Coil			
30	2, 3	50 HZ, 220V 50 HZ, 380V	293394
70, 104	2, 3	50 HZ, 220V 50 HZ, 380V	293395

### Common Parts, Contactors, Mechanically & Electrically Held

**Part Description**

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Contact Kits			
30	2, 3	All	293026
70	2, 3	All	293028
104	2, 3	All	293030
Contact Springs, 1 Per Pole			
30	2, 3	All	293043
70-104	2, 3	All	293044

### Breakdown Split Panel, Normal & Emergency Circuit Breakers

**Part Description**

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Normal & Emergency Breaker Complete (NB, EB)			
30-104	2	All	293338
30-104	3	All	293344
30-104	4	All	293350
225	2	All	293339
225	3	All	293365
225	4	All	293351
400	2	All	293340
400	3	All	293367
400 (N)	4	All	293352
400 (E)	4	All	293626
600	2	All	293341
600	3	All	293347
600-1000 (N)	4	All	293353
600-1000 (E)	4	All	293627
800-1000	2	All	293342
800-1000	3	All	293348
1200-2000	2	All	293343
1200-2000	3	All	293349
1200-2000 (N)	4	All	293354
1200-2000 (E)	4	All	293628

## Breakdown Single Panel, Normal & Emergency Circuit Breakers

### Part Description

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Normal & Emergency Breaker Complete (NB, EB)			
30-104	2	All	293360
30-104	3	All	293363
225	2	All	293361
225	3	All	293364**
225	3	All	293365***
400	2	All	293362
400	3	All	293366**
400	3	All	293367***

\*\*Use up to date 2/29/80.

\*\*\*Used after date 3/01/80.

## Common Parts, Split and Single Panel Circuit Breakers

### Part Description

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Cover Complete			
30-104	2, 3	All	293396
30-104	4	All	293399
225	2, 3	All	293397
225	4	All	293400
1200-2000	2, 3	All	293398
1200-2000 (N)	4	All	293401
1200-2000 (E)	4	All	293625
Line Terminal Cover			
400	2, 3	All	293402
400	4	All	293406
600	2, 3	All	293403
600-1000 (N)	4	All	293407
600-1000 (E)	4	All	293638
800-1000	2, 3	All	293404
Load Terminal Cover			
400	2, 3	All	293405
600	2, 3	All	293403
600-1000 (E)	4	All	293407
600-1000 (N)	4	All	293638
800-1000	2, 3	All	293404

**Part Description**

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Handle			
30-104	2, 3, 4	All	293408
225	2, 3, 4	All	293409
400	2, 3, 4	All	293410
600	2, 3, 4	All	293411
800-1000	2, 3, 4	All	293412
1200-2000	2, 3, 4	All	293413

**Limit Switch (NLS, ELS)****ORDER BY DESCRIPTION****Common Parts For All Transfer Switches****Part Description**

<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Neutral (NEUT)			
30-104	2, 3, 4	All	293170
225	2, 3, 4	All	293171
400-600	2, 3, 4	All	293172
800	2, 3, 4	All	293173
1000	2, 3, 4	All	293299
1200	2, 3, 4	All	293300
1600-2000	2, 3, 4	All	293237

**Test Selector Switch (TSS)**

30-2000	2, 3, 4	All	293301
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**Load Bus Bar, Ø A (Breaker Type)**

30-104	2, 3, 4	All	293305
225	2, 3, 4	All	293306
400	2, 3, 4	All	293307
600	2, 3	All	293308
600-1000	4	All	293309
800-1000	2, 3	All	293310
1200	2, 3, 4	All	293311
1600-2000	2, 3, 4	All	293312

**Load Bus Bar, Ø B**

30-104	3	All	293305
30-104	4	All	293313
225	3, 4	All	293314
400	3, 4	All	293315
600	3	All	293316
600-1000	4	All	293326
800-1000	3	All	293318
1200	3, 4	All	293319
1600-2000	3, 4	All	293320

<u>Part Description</u>	<u>Amps</u>	<u>Poles</u>	<u>Voltage</u>	<u>Part Number</u>
Load Bus Bar ØC				
30-104		2, 3, 4	All	293305
225		2, 3, 4	All	293323
400		2, 3, 4	All	293324
600		2, 3	All	293325
600-1000		4	All	293317
800-1000		2, 3	All	293327
1200		2, 3, 4	All	293311
1600-2000		2, 3, 4	All	293312
Load Bus Bar ØN				
104		4	All	293313
225		4	All	293331
400		4	All	293631
600-1000		4	All	293333
1200		4	All	293334
1600-2000		4	All	293335
Terminal Block, 2 Circuit White				
30-2000		2, 3, 4	All	293302
Terminal Block, Engine Start Red (T3 & T4)				
30-2000		2, 3, 4	All	293304
Mounting Rail				
30-2000		2, 3, 4	All	293303
Pan Duct				
30-2000		2, 3, 4	All	293337
Terminals, Contactor Switches				
30		2, 3	All	293357 (Line + Load)
70-104		2, 3	All	293358 (Line)
70-104		2, 3	All	293359 (Load)
Terminals, Circuit Breaker Switches				
30-104		2, 3, 4	All	293050 (Line)
30-104		2, 3, 4	All	293051 (Load)
225		2, 3, 4	All	293147 (Line + Load)
400		2, 3, 4	All	293148 (Line + Load)
600		2, 3, 4	All	293149 (Line + Load)
800-1000		2, 3, 4	All	293150 (Line + Load)
1200-2000		2, 3, 4	All	293151 (Line + Load)
Load Terminal Nut				
30-104		2, 3, 4	All	293146

### III. ACCESSORIES

#### Single Panel, Contactor and Breaker Models and Split Panel Electro-Mechanical Logic

<u>Option</u>	<u>Description</u>	<u>Part No.</u>
1a	Time Delay, Normal to Emergency (TDNE) 2.5 to 50 seconds, 50/60 HZ 120/480/600V 208V 240V	293127 293129 293130
2a	Time Delay Engine Start (TDES) 120/480/600V, 50/60 HZ 208V, 50/60 HZ 240V, 50/60 HZ	293074 293078 293082
2e	Time Delay Engine Start (TDES) All Voltages, 50/60 HZ	293557
3a	Time Delay Emergency to Normal (TDEN) 0-120 Seconds 120/480/600V, 50/60 HZ 208V, 50/60 HZ 240V, 50/60 HZ	293635 293636 293637
3c	Time Delay Emergency to Normal (TDEN) 0-30 Minutes 120/480/600V, 50/60 HZ 208V, 50/60 HZ 240V, 50/60 HZ	293593 293153 293154
4a	Time Delay Engine Cool Off (TDEC) 60 Sec. to 30 Minutes 120/480/600V, 50/60 HZ 208V, 50/60 HZ 240V, 50/60 HZ	293077 293081 293085
5a	Under Frequency for Emergency Source (UF) 120/208/240/480/600V, 60 HZ 110/220/380V, 50 HZ	293092
5b	Freq/Voltage for Emergency Source (UF) Kit-208V and 240V, 60 HZ (includes: Relay 293143, Resistor 293158, Capacitor 293225, and Mounting Spacer 293159) Kit-120/240/600V, 60 HZ (includes: Relay 293143, Capacitor 293144) Kit-110/220/380V, 50 HZ (includes: Relay 293143, Capacitor 293639)	293578 293579 293640

<u>Option</u>	<u>Description</u>	<u>Part No.</u>
5c	Over Frequency for Emergency Source (OF) Over Frequency Relay 120/208/240/480/600V, 60 HZ All voltages, 50 HZ	293095
5d	Under Voltage For Emergency Source (UV) Under Voltage Relay 120/480/600V, 60 HZ All Voltages, 50 HZ	293096
5e	Over Voltage Relay (OV)	293235
7c + 7d	Four Position Selector Switch (FPSS) (Includes Light Switch 293161) All voltages, 50/60 HZ	293559
12a + 12c	Pilot Light Kit-Green 120/208/240/480/600V, 60 HZ 110/220/380V, 50 HZ	293562
12b + 12d	Pilot Light Kit-Red 120/208/240/480/600V, 60 HZ 110/220/380V, 50 HZ	293563
14a + 14c	Relay Auxiliary Contacts (NRA) 120/480/600V, 60 HZ, 110, 220, 380, 50 HZ 208V (option 14a only), 60 HZ 240V (option 14a only), 60 HZ	293564 293570* 293571*
14b + 14d	Relay Auxiliary Contacts (ERA) 120/480/600V, 60 HZ, 110/220/380V, 50 HZ 208V 240V	293565 293572* 293573*
26f	Voltage Sensing Relay (VSR) 120/480/600V, 50/60 HZ 208V 240V	293096 293247* 293246*
30a	Cranking Limiter (CL) 120/480/600V, 50/60 HZ timer relay 208V timer relay 240V timer relay	293075 293174 293078* 293175* 293082 293176

<u>Option</u>	<u>Description</u>	<u>Part No.</u>
32a	Time Delay Neutral (TDN)	293577
	*Indicates not used after December 1979	

### Split Panel, Solid State Logic

<u>Option</u>	<u>Description</u>	<u>Part No.</u>
1a	Time Delay, Normal to Emergency (TDNE) 1-60 sec., 50/60 HZ	293250
1c	Time Delay, Normal to Emergency (TDNE) .01-10 min. 50/60 HZ	293252
2a	Time Delay, Engine Start (TDES) 2.5-50 second, 50/60 HZ	293556
2e	Time Delay, Engine Start (TDES) 2.5 second, fixed	293557
3a	Time Delay, Emergency to Normal (TDEN) 1-60 second	293250
3c	Time Delay, Emergency to Normal (TDEN) 2-30 minutes	293252
4a	Time Delay Engine Cool Off (TDEC) .01 to 60 seconds	293596
4b	1 to 10 minutes	293597
4c	0.2 to 30 minutes	293598
4d	5 minutes fixed (includes relay 293263)	293599
5a	Under Frequency Emergency Source (UF)	293256
5c	Over Frequency Emergency Source (OF)	293257
5d	Under Voltage Card (UV)	293261
5e	Over Voltage Card (OV)	293258
7c + 7d	Four Position Selector Switch	293559

<u>Option</u>	<u>Description</u>	<u>Part No.</u>
12a + 12c	Pilot Light, Green Lens (NC)	293562
12b + 12d	Pilot Light, Red Lens (EL)	293563
12j, k, l, m	Amber Lens	293606
12k + 12m	Emergency Tripped Indicator Lamp (TE)	293602
12j + 12l	Emergency Tripped Indicator Lamp (TN)	293601
14a + 14c	Relay, Auxiliary Contacts (NRA)	293564
14b + 14d	Relay, Auxiliary Contacts (ERA)	293565
26c (5c)	Over Voltage Card, 10, (OV) Over Voltage Card, 30, (OV)	293258 293603
30a	Crankling Limiter (CL)	293566
32	Neutral, Time Delay (TDNC)	293577
	Solid State Mounting Hardware (Used with options 1, 3, 4, & 5)	293568

### **Accessories Common to All**

<u>Option</u>	<u>Description</u>	<u>Part No.</u>
6a + 6b	Test Pushbutton Kit (TPB) (Consists of Contact Block, Operation & Nameplate)	293425
6c + 6d	Test Selector Switch (TSS)	293301
8a + 8c	By-Pass Pushbutton (PBEN)	293581
9c	Disconnect Link Kit (DL) (Consists of Disconnect Link, Fuse Holder, & Bracket)	293386
	Disconnect Link Kit (DL) (Consists of Plug & Socket)	293387
10a + 10b	Two Position Selector Switch (TPSS)	293560
10c + 10d	Two Position Selector Switch (TPSS)	293561

<u>Option</u>	<u>Description</u>				<u>Part No.</u>
18e	Voltmeter (VM) Selector Switch (SW1)				293370 293371
18f	Ammeter (AM) 0-100 0-300 0-400 0-600 0-1000 0-2000 Selector Switch (SW2)  Current Transformer 10/5 300/5 400/5 600/5 1000/5 2000/5				293372 293373 293374 293375 293376 293377 293378  293379 293380 293381 293382 293383 293384
18g	Frequency Meter (FM)				297998
19h	Running Time Meter				293385
21	Non-Standard Terminals (Circuit Breaker Models Only)				
	Amps	Wire Range	Number of Cables	Wire Type	
21c	225	6-350MCM	1	CU	293616
21c	400	250-500MCM	2	CU	293617
21a	600	3/0-400MCM	3	CU/AL	293610
21b	600A	500/750 MCM	2	CU/AL	293611
21c	600	1-600MCM	1	CU/AL	293618
21d	600	2/0-500MCM	2	CU	293619
21e	600	3/0-300MCM	3	CU	293620
21a	800-1000	4/0-500MCM	4	CU/AL	293612
21b	800-1000	500-750MCM	3	CU/AL	293613
21c	800-2000	3/0-500MCM	3	CU	293621
21d	800-2000	3/0-400MCM	4	CU	293622
21a	1200-2000	3/0-400MCM	3	CU/AL	293614
21b	1200-2000	500-750MCM	3	CU/AL	293615
23c + 23d	Plant Exercisor (PE) 60 Hertz, All Voltages 50 Hertz, All Voltages				293582 293583
23g	Plant Exercisor w/Selector Switch (PE) 60 Hertz, All Voltages 50 Hertz, All Voltages				293584 293585

<u>Option</u>	<u>Description</u>	<u>Part No.</u>
24	Battery Charger (BC)	
	120/480/600V, 12V	293586
	120/480/600V, 24V	293587
	208/240-12V	293098
	208/240-24V	293099
29b, c, d, e	Type of Operation (Consists of Operator, Block & Relay)	293588
31a + 31b	Audible Alarm Kit (All Voltages, 50/60 HZ)	293609
	Lens for All Lights	
	Red (option 12b + 12d)	293164
	Green (option 12a + 12c)	293163
	White (option 7c + 7d and 12c thru h)	293162
	Bulbs	
	Lights using transformers (all voltages, 50/60 HZ)	293589
	Lights not using transformers (all voltages, 50/60 HZ)	293607



