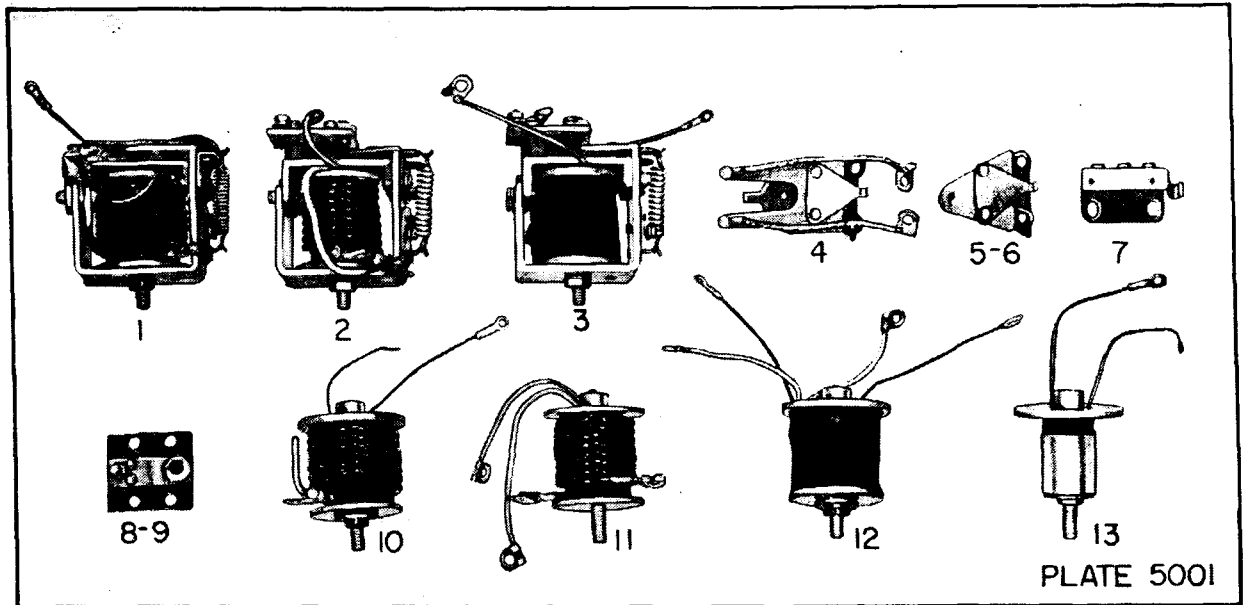
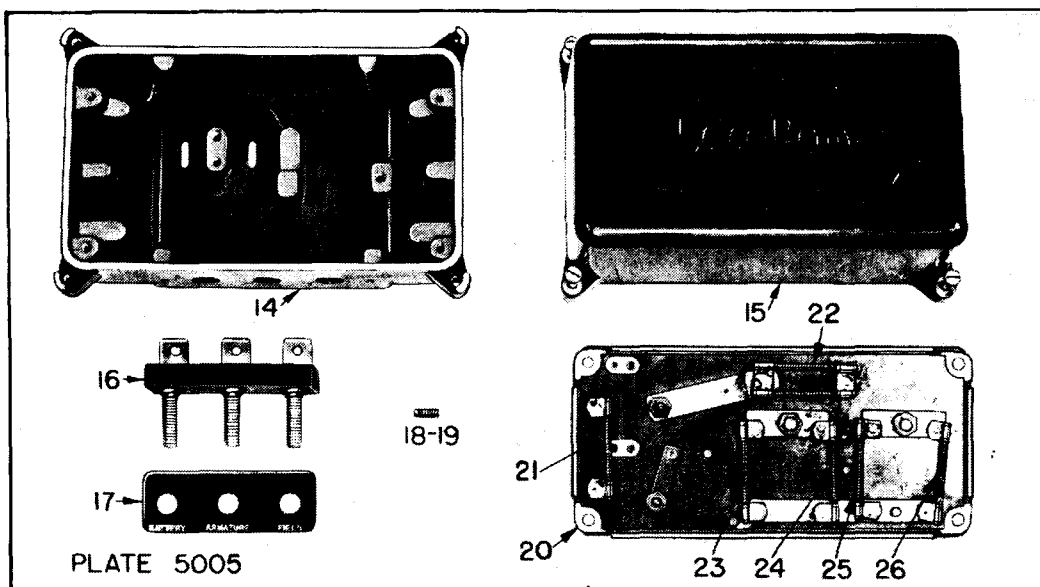




Illustrations are of Typical Parts only. For Parts not illustrated or in columns see Minor Parts Section.

Model No.	Relay — Cutout	Current Regulator Element	Voltage Regulator Element	Armature — Relay	Armature — Current Element	Armature — Voltage Element	Contact Bracket — Cutout Relay	Contact Bracket — Current Element	Contact Bracket — Voltage Element	Winding Assembly — Cutout Relay	Winding Assembly — Current Element	Winding Assembly — Voltage Element	Shunt Winding — Cutout Relay
	1	2	3	4	5	6	7	8	9	10	11	12	13
1118422	1951575	1954128	1954129	1951589	1932602	1932599	1916013	1924829	1924779	1951640	1951573	1928981	1951592
1118502	1904337	1904346	1904349	1905026	1904933	1903940	1839044	1842784	1842784	1904338	1919698	1904332	1904339
1118505	1906339	1906341	1906345	"	1913467	1916985	"	1924779	1924779	1906340	1905904	"	"
1118506	1905899	"	1906350	"	"	"	"	"	"	1905900	"	1904334	1919241
1118507	1907798	1907800	"	"	"	"	"	"	"	1907799	1919698	"	"
1118508	"	1919697	1919818	"	1904933	1903940	"	1842784	1842784	"	"	"	"
1118511	1905899	1907854	"	"	"	"	"	"	"	1905900	1907907	"	"
1118525	1907798	1907800	1906350	"	1913467	1916985	"	1924779	1924779	1907799	1919698	"	"
1118534	1905899	1911425	"	"	"	"	"	"	"	1905900	1907907	"	"
1118536	1919704	1919697	1919705	"	1904933	1903940	"	1842784	1842784	1904338	1919698	1919696	1918182
1118537	1905899	1906341	1906350	"	1913467	1916985	"	1924779	1924779	1905900	1905904	1904384	1919241
1118541	1921014	"	1921013	"	"	"	"	"	"	1906340	"	1919696	1918182
1118547	1916355	1916358	1906350	"	1913467	"	"	"	"	1907799	1916359	1904384	1919241
1118561	1938922	1943339	1938926	1927714	1932602	1932599	1920332	1924829	1924829	1920888	1938925	1938927	1920890
1118572	1951575	1951572	1951571	1927049	1931435	1927719	"	1924779	1924779	1940942	1940948	1928981	1924910
1118695	1938922	1938924	1938926	1927714	1932602	1932599	1916013	1924829	1924829	1920888	1938925	1938927	1920890



Illustrations are of Typical Parts only. For Parts not illustrated or in columns see Minor Parts Section.

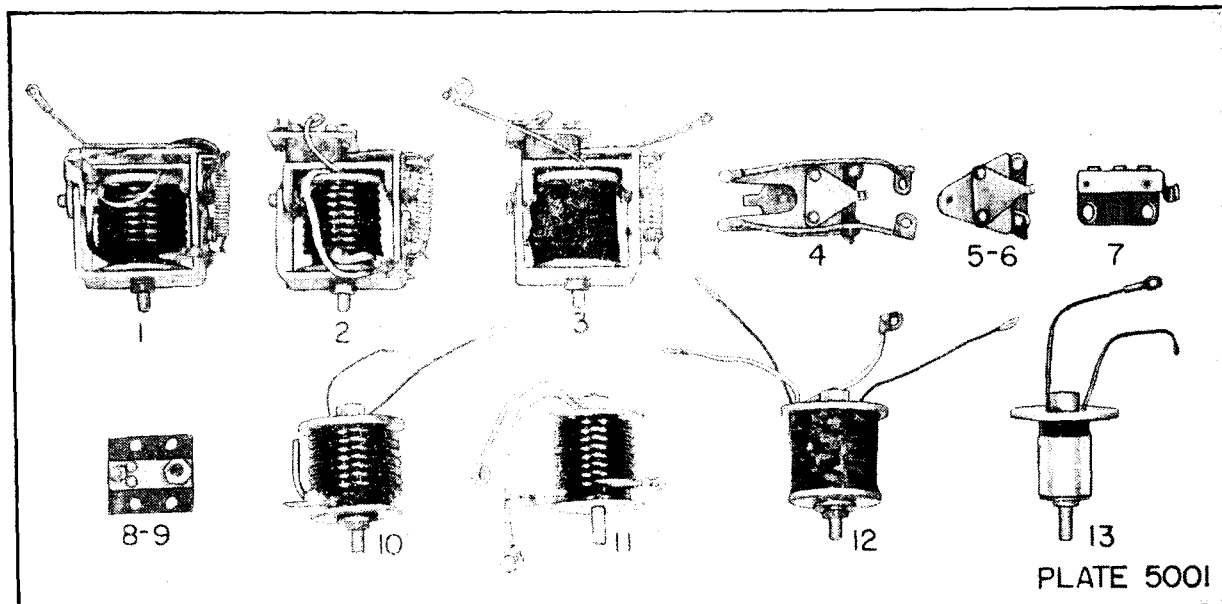
Model No.	Base	Cover	Terminal Pkg.	Panel — Terminal Insulator	Contact Screw — Current	Contact Screw — Voltage	Panel Only — Mounting	Resistor	Resistor (Two Req'd.)	Resistor	Resistor	Resistor	Resistor
	14	15	16	17	18	19	20	21	22	23	24	25	26
1118422	1903907	1904001	*	1903913	1916600	1924780	1916067	1885300	1910178	1910182	1910181	1910181	1910182
1118502	"	"	*1903908	"	1861998	1861998	"	1911515	1911516	1910178	1910178	1910175	1910175
1118505	"	"	"	"	1858692	1858692	"	"	"	"	"	"	"
1118506	"	"	"	"	"	"	"	1910183	1910173	1910176	1910176	1910180	1910180
1118507	"	"	"	"	"	"	"	"	"	1910175	1910175	1910178	1910178
1118508	"	"	"	"	1861998	1861998	"	"	"	"	"	"	"
1118511	"	"	"	"	"	"	"	"	"	1910176	1910176	1910180	1910180
1118525	"	"	"	"	1858692	1858692	"	"	"	1910175	1910175	1910178	1910178
1118534	"	"	"	"	"	"	"	"	"	1910176	1910176	1910180	1910180
1118536	"	"	*	"	1861998	1861998	"	1911515	1911516	1910178	1910178	1910175	1910175
1118537	"	"	*	"	1858692	1858692	"	1910183	1910173	1910176	1910176	1910180	1910180
1118541	"	"	*	"	"	"	"	1911515	1911516	1910178	1910178	1910175	1910175
1118547	"	"	*	"	"	"	"	1910183	1910173	1910175	1910175	1910180	1910180
1118561	"	"	*1903908	"	1916600	1916600	"	"	"	1910176	1910176	"	"
1118572	"	"	*	"	1924780	1924780	"	1885300	1910178	1910182	1910181	1910181	1910182
1118695	"	"	*	"	1916600	1916600	"	1910183	1910173	1910176	1910176	1910180	1910180

*For parts see Minor Parts Section.

MINOR PARTS SECTION

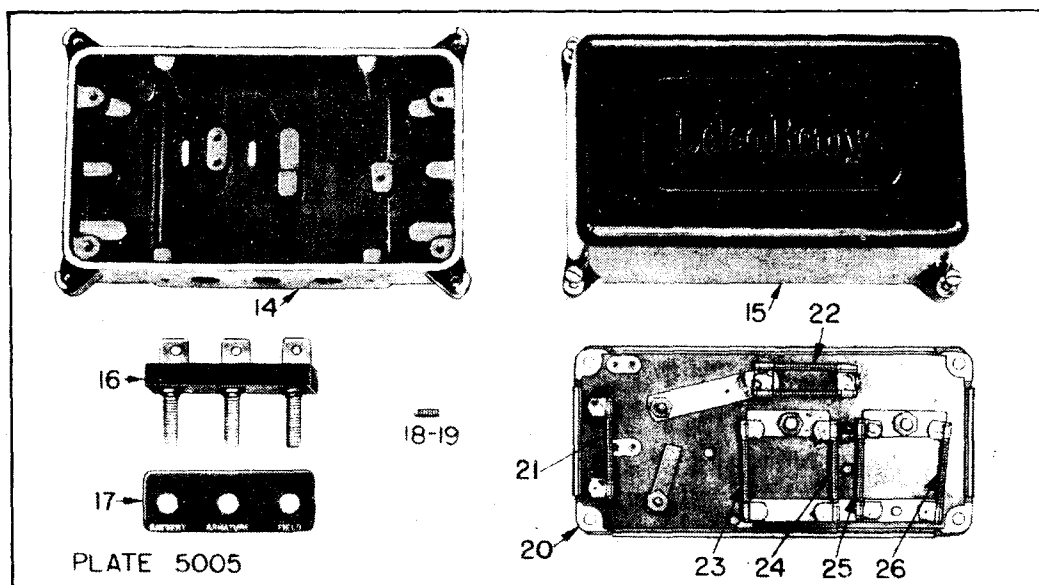
Name	Part No.	Used on Models
LOCK WASHERS		
Lock Washer—Armature Adjustment Locking Screw.....	453844	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7
Lock Washer—Armature Attaching Screw—Relay.....	453844	1118502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
Lock Washer—Armature Attaching Screw—Regulator.....	453844	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
Lock Washer—Condenser Attaching Screw.....	1962276	1118502-5-6
Lock Washer—Contact Bracket Screw—Cutout Relay.....	453844	1118502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
Lock Washer—Contact Bracket Screw—Regulator.....	453844	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
Lock Washer—Contact Screw Lock Nut—Regulator.....	138537	1118502-5-6-7-8-11-25; 34-6-7; 41-7
Lock Washer—Contact Bracket Support Screw—Regulator.....	453844	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61-72; 695
Lock Washer—Contact Terminal Screw—Regulator.....	453844	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 72; 695
Lock Washer—Contact Terminal Screw—Regulator—Shakeproof.....	138530	1118502-5-6-7-8-11-25; 34-6-7; 41-7
Lock Washer—Cover Attaching Screw.....	1962276	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
Lock Washer—Ground Screw.....	1962276	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
Lock Washer—Lead Attaching—Between Regulator & Relay....	1962276	1118422; 561; 72; 695
Lock Washer—Lead Attaching—To Relay.....	453435	1118422; 561; 72; 695
Lock Washer—Lead Attaching Nut—To Regulator Contact Terminal.....	453844	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7
Lock Washer—Lead Attaching Screw—To Mounting Panel.....	1962276	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
Lock Washer—Lead Attaching Screw—To Regulator Contact.....	453844	1118422; 561; 72; 695
Lock Washer—Lead Screw—To Terminal Block.....	1962276	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72
Lock Washer—Lead Screw—To Cutout Relay.....	1962276	1118502-5-6-7-8-11-25; 34-6-7; 41-7
Lock Washer—Mounting Bracket to Base Screw.....	121801	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
Lock Washer—Mounting Panel Attaching Screw.....	1962276	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
Lock Washer—Relay Mounting Nut.....	138537	1118502-5-6-7-8-11-25; 34-6-7; 41-7
Lock Washer—Regulator Element Mounting Nut.....	138537	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
Lock Washer—Resistor Clamp Attaching.....	453844	1118422; 572
Lock Washer—Shock Mtg. Attach. Nut.....	453704	1118422
Lock Washer—Terminal Nut.....	9421424	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
NUTS		
Nut—Contact Screw Lock.....	1916080	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
Nut—Contact Terminal Screw.....	30986	1118502-5-6-7-8-11-25; 34-6-7; 41-7
Nut—Lead Attaching—To Regulator Contact Terminal.....	30986	1118502-5-6-7-8-11-25; 34-6-7; 41-7
Nut—Relay Mounting.....	29991	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
Nut—Regulator Element Mounting.....	29991	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
Nut—Shock Mounting Attaching.....	453786	1118422
Nut—Terminal Stud.....	120368	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
SCREWS		
Screw—Armature Adjusting—Regulator.....	1926972	1118422
Screw—Armature Adjustment Locking.....	1916015	1118502-5-6-7-8-11-25; 34-6-7; 41-7
Screw—Armature Attaching—Relay.....	1916016	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
Screw—Armature Attaching—Regulator.....	1916016	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
Screw—Condenser Attaching.....	453319	1118502-5-6
Screw—Contact Assem. Attach.—Regulator.....	453304	1118422
Screw—Contact Bracket Attaching—Cutout Relay.....	22820	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72
Screw—Contact Bracket Attaching—Regulator.....	1916016	1118502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
Screw—Contact Bracket Support Attaching.....	1916016	1118422; 502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 72; 695
Screw—Contact Bracket Support Attaching.....	22820	1118695
Screw—Contact Terminal—Regulator Element.....	22820	1118502-5-6-7-8-11-25; 34-6-7; 41-7; 61; 695
Screw—Cover Attaching.....	1904003	1118502-5-6-7-25; 34-6-7; 41-7

Parts not listed in this Catalog will not be sold separately.



Illustrations are of Typical Parts only. For Parts not illustrated or in columns see Minor Parts Section.

Model No.	Relay — Cutout	Current Regulator Element	Voltage Regulator Element	Armature — Relay	Armature — Current Element	Armature — Voltage Element	Contact Bracket — Cutout Relay	Contact Bracket — Current Element	Contact Bracket — Voltage Element	Winding Assembly — Cutout Relay	Winding Assembly — Current Element	Winding Assembly — Voltage Element	Shunt Winding — Cutout Relay
	1	2	3	4	5	6	7	8	9	10	11	12	13
1118600	1907798	1916897	1916896	1905026	1904933	1903940	18206	1842784	1842784	1907799	1916898	1904384	1905901
1118601	"	"	"	"	"	"	"	"	"	"	"	"	"
1118602	1919704	"	1917277	"	"	"	"	"	"	1904338	"	1919696	1919703
1118609	1920328	1920719	1916896	"	"	"	1920332	"	"	1920329	1920720	1904384	1920330
1118611	1920940	1907800	1920939	"	1918114	1916985	"	1924779	1924779	1920966	1919698	1919696	1920968
1118658	1927732	1927733	1927730	1927714	1927720	1927719	"	1924779	1924779	1927722	1927713	1927731	1920330



Illustrations are of Typical Parts only. For Parts not illustrated or in columns see Minor Parts Section.

Model No.	Base	Cover	Terminal Assem.	Panel — Terminal Insulator	Contact Screw — Current	Contact Screw — Voltage	Panel Only — Mounting	Resistor	Resistor (Two Req'd.)	Resistor	Resistor	Resistor	Resistor
	14	15	16	17	18	19	20	21	22	23	24	25	26
1118600	1903907	1904001	1903910	1903913	1861998	1861998	1951570	1910183	1910173	1910177	1910177		1910177
1118601	"	"	"	"	"	"	"	"	"	"	"		"
1118602	1904032	"	"	"	"	"	"	1911515	1911516	1910174	1885296		1910174
1118609	1913907	"	"	"	"	"	"	1910183	1910173	1912745	1910174	1885300	1885300
1118611	"	"	"	"	1858692	1858692	"	1911515	1911516	1910178	1910178	1910175	1910175
1118658	1927734	"	"	"	1924780	1924780	1927724	1910183	1910173	†1910175	1910175	1910180	1910180

†One additional 1910175 Resistor (not illustrated) in series with "Low" Terminal Lead.

Revised to Nov. 1, 1968

SERVICE PARTS CATALOG

MINOR PARTS SECTION

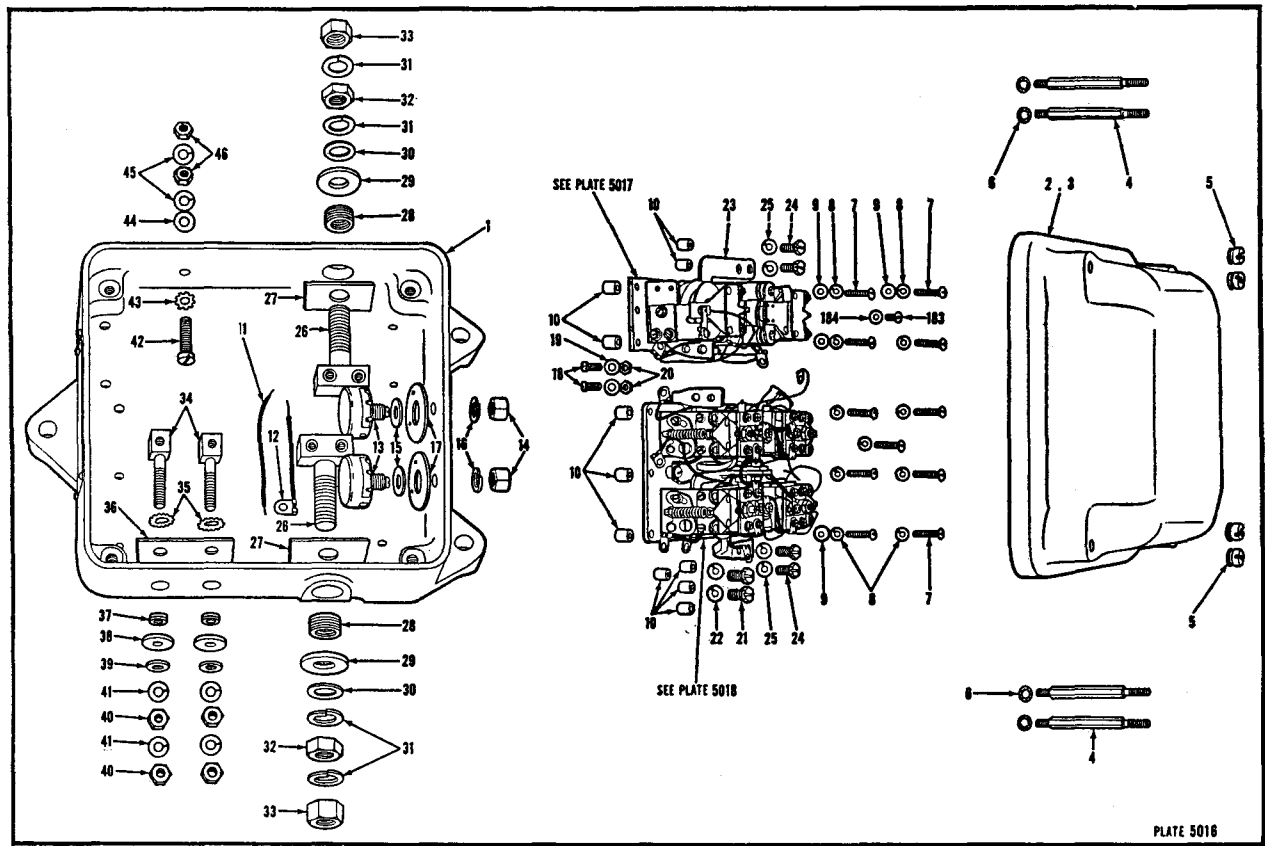
NOTE: Most screws, bolts, nuts, lock washers, woodruff keys, and cotter pins are Standard Hardware items and are not available from Delco-Remy. Refer to Standard Hardware sheets in catalog miscellaneous section for dimensions and description.

Name	Part No.	Used on Models
LOCK WASHERS		
Lock Washer—Armature Adjustment Locking Screw.....	453844	1118600-1-2-9-11
Lock Washer—Armature Attaching Screw—Relay.....	453844	1118600-1-2-9-11; 58
Lock Washer—Armature Attaching Screw—Regulator.....	453844	1118600-1-2-9-11; 58
Lock Washer—Contact Bracket Screw—Cutout Relay.....	453844	1118600-1-2-9-11; 58
Lock Washer—Contact Bracket Screw—Regulator.....	453844	1118600-1-2-9-11; 58
Lock Washer—Contact Screw Lock Nut—Regulator.....	138537	1118600-1-2-9-11
Lock Washer—Contact Bracket Support Screw—Regulator.....	453844	1118600-1-2-9-11; 58
Lock Washer—Contact Terminal Screw—Regulator.....	453844	1118600-1-2-9-11; 58
Lock Washer—Contact Terminal Screw—Regulator— Shakeproof.....	138530	1118600-1-2-9-11
Lock Washer—Cover Attaching Screw.....	1962276	1118600-1-2-9-11; 58
Lock Washer—Ground Screw.....	1962276	1118600-1-2-9-11; 58
Lock Washer—Lead Attaching Nut—To Regulator Contact Terminal.....	453844	1118600-1-2-9-11
Lock Washer—Lead Attaching Screw—To Mounting Panel.....	1962276	1118600-1-2-9-11; 58
Lock Washer—Lead Attaching Screw—To Clip on Mtg. Panel.....	453844	1118658
Lock Washer—Lead Screw—To Terminal Block.....	1962276	1118600-1-2-9-11; 58
Lock Washer—Lead Screw—To Cutout Relay.....	1962276	1118600-1-2-9-11; 58
Lock Washer—Mounting Bracket to Base Screw.....	121801	1118600-1-2-9-11; 58
Lock Washer—Mounting Panel Attaching Screw.....	1914123	1118600-1-2-9-11; 58
Lock Washer—Relay Mounting Nut.....	138537	1118600-1-2-9-11; 58
Lock Washer—Regulator Element Mounting Nut.....	138537	1118600-1-2-9-11
Lock Washer—Terminal Nut.....	453844	1118600-1-2-9-11; 58
Lock Washer—Terminal Nut ("Low" & "Med.").....	453844	1118658
NUTS		
Nut—Contact Screw Lock.....	1839110	1118600-1-2-9-11; 58
Nut—Contact Terminal Screw.....	30986	1118600-1-2-9-11
Nut—Lead Attaching—To Regulator Contact Terminal.....	30986	1118600-1-2-9-11
Nut—Relay Mounting.....	29991	1118600-1-2-9-11; 58
Nut—Regulator Element Mounting.....	29991	1118600-1-2-9-11; 58
Nut—Terminal ("Low" & "Med.").....	453433	1118658
Nut—Terminal Stud.....	120368	1118600-1-2-9-11; 58
SCREWS		
Screw—Armature Adjusting.....	1926972	1118658
Screw—Armature Adjustment Locking.....	1916015	1118600-1-2-9-11
Screw—Armature Attaching—Relay.....	1916016	1118600-1-2-9-11; 58
Screw—Armature Attaching—Regulator.....	1916016	1118600-1-2-9-11; 58
Screw—Contact Bracket Attaching—Cutout Relay.....	22820	1118600-1-2-9-11; 58
Screw—Contact Bracket Attaching—Regulator (8-36x $\frac{3}{8}$).....	1916016	1118600-1-2-9-11; 58
Screw—Contact Bracket Attaching—Regulator (8-36x $\frac{1}{4}$).....	22820	1118658
Screw—Contact Bracket Support Attaching.....	1916016	1118600-1-2-9-11; 58
Screw—Contact Terminal—Regulator Element.....	22820	1118600-1-2-9-11
Screw—Contact Terminal—Regulator Element.....	132745	1118658
Screw—Cover Attaching.....	1904003	1118600-1-2-9-11; 58
Screw—Ground.....	1949653	1118600-1-2-9-11; 58
Screw—Lead Attaching—To Clip on Mtg. Panel.....	453304	1118658
Screw—Lead Attaching—To Mounting Panel (10-32x $\frac{1}{4}$).....	453319	1118600-1-2-9-11; 58
Screw—Lead Attaching—To Mounting Panel (10-32x $\frac{3}{8}$).....	453464	1118609-11
Screw—Lead Attaching—To Mounting Panel (10-32x $\frac{3}{8}$).....	132900	1118609; 58
Screw—Lead to Cutout Relay.....	453319	1118600-1-2-9-11; 58
Screw—Lead to Terminal Block.....	453463	1118600-1-2-9-11; 58
Screw—Mounting Bracket to Base.....	453468	1118600-1-2-9-11; 58
Screw—Mounting Panel Attaching.....	453464	1118600-1-2-9-11; 58
Screw—Terminal ("Low," "High" or "Med.").....	1949653	1118658
WASHERS (Plain)		
Washer—Armature Adjustment Locking Screw.....	810794	1118600-1-2-9-11
Washer—Armature Attaching Screw.....	810794	1118600-1-2-9-11; 58
Washer—Contact Bracket Attaching Screw—Cutout Relay.....	810794	1118600-1-2-9-11; 58
Washer—Contact Bracket Attaching Screw—Regulator.....	810794	1118600-1-2-9-11; 58
Washer—Cutout Relay Mounting Nut.....	1857729	1118600-1-2-9-11; 58
Washer—Ground Screw.....	1913784	1118600-1-2-9-11; 58
Washer—Lead Attaching Screw—To Mounting Panel.....	1856056	1118609-11; 58
Washer—Mounting Panel Screw.....	1913784	1118600-1-2-9-11; 58
Washer—Terminal Stud.....	810492	1118600-1-2-9-11; 58

Parts not listed in this Catalog will not be sold separately.

MINOR PARTS SECTION

Name	Part No.	Used on Models
MISCELLANEOUS		
BRACKET—Cutout Relay Armature Stop.....	18198	1118600-1-2-9-11; 58
BRACKET—Regulator Mounting.....	1904351	1118600-1-2-9-11; 58
CLAMP—Resistor (on Regulator Element).....	1904865	1118658
CLIP—Resistor Terminal (on Regulator Element).....	200242	1118658
CONNECTOR—("Low" & "Med.") Terminal.....	1927710	1118658
CONNECTOR—Under Current Element Mounting Nut.....	1916575	1118600-1-2-9
CONNECTOR—Under Current Element Mtg. Nut (1 $\frac{1}{4}$ long).....	1903931	1118611
CONNECTOR—Under Voltage Element Mtg. Nut (1 $\frac{1}{4}$ long).....	1903931	1118600-1-2-9-11
CONNECTOR—Under Voltage Element Mtg. Nut (1 $\frac{3}{4}$ long).....	1925507	1118611; 58
GASKET—Cover.....	1904032	1118600-1-2-9-11; 58
GASKET—Terminal Assembly.....	1911229	1118600-1-2-9-11; 58
INSULATOR—Cutout Relay Winding ($\frac{1}{8}$ I.D.).....	37330	1118600-1-2-9-11
INSULATOR—Cutout Relay Winding ($\frac{3}{8}$ I.D.).....	1922332	1118600-1-2-9-11; 58
INSULATOR—("Low" & "Med.") Terminal.....	1922377	1118658
INSULATOR—Regulator Contact Support.....	1905927	1118600-1-2-9-11; 58
INSULATOR—Regulator Winding ($\frac{1}{8}$ I.D.).....	37330	1118600-1-2-9-11
INSULATOR—Regulator Winding ($\frac{3}{8}$ I.D.).....	1922332	1118600-1-2-9-11
INSULATOR—Regulator Winding ($\frac{1}{4}$ I.D.).....	1925907	1118600-1-2-9-11
INSULATOR—Under Relay Armature Stop Bracket.....	1905927	1118600-1-2-9-11; 58
INSULATOR—Terminal Assembly.....	1911230	1118600-1-2-9-11; 58
LEAD—To Armature Terminal.....	1907790	1118600-1-2-9-11; 58
LEAD—To Battery Terminal.....	1907793	1118600-1-2-9-11; 58
LEAD—To Field Terminal.....	1903914	1118600-1-2-9-11; 58
LEAD—(No. 18 Wire 1 $\frac{1}{8}$ long)—Volt. Reg. to Panel Rivet.....	1904000	1118600-1-2-9-11; 58
LEAD—Current Element to Mounting Panel.....	1919515	1118658
LEAD—Voltage Element to Current Element.....	1941966	1118658
PANEL—Insul. ("Low" & "Med.") Terminal.....	1927709	1118658
PLATE—Armature Spring Adjusting.....	1927717	1118658
RESISTOR—on Current Element.....	1905070	1118658
RESISTOR—on Voltage Element.....	1905070	1118658
RESISTOR—"Low" to "Med." Terminal.....	1927708	1118658
SEAL CUP.....	1904033	1118600-1-2-9-11; 58
SPRING—Armature—Cutout Relay.....	1916049	1118600-1-2-9-11; 58
SPRING—Armature—Current Element.....	1916091	1118600-1-2-9-11; 58
SPRING—Armature—Voltage Element.....	1916091	1118600-1-2-9-11; 58
STUD (& Lead)—"Low" Terminal.....	1927705	1118658
STUD (& Lead)—"Med." Terminal.....	1927707	1118658
SUPPORT—Contact Bracket—Current Element.....	1843160	1118600-1-2-9-11; 58
SUPPORT—Contact Bracket—Voltage Element.....	1843160	1118600-1-2-9-11; 58
WINDING—Shunt—Current Element.....	1916899	1118600-1-2-9
WINDING—Shunt—Current Element.....	1903944	1118611



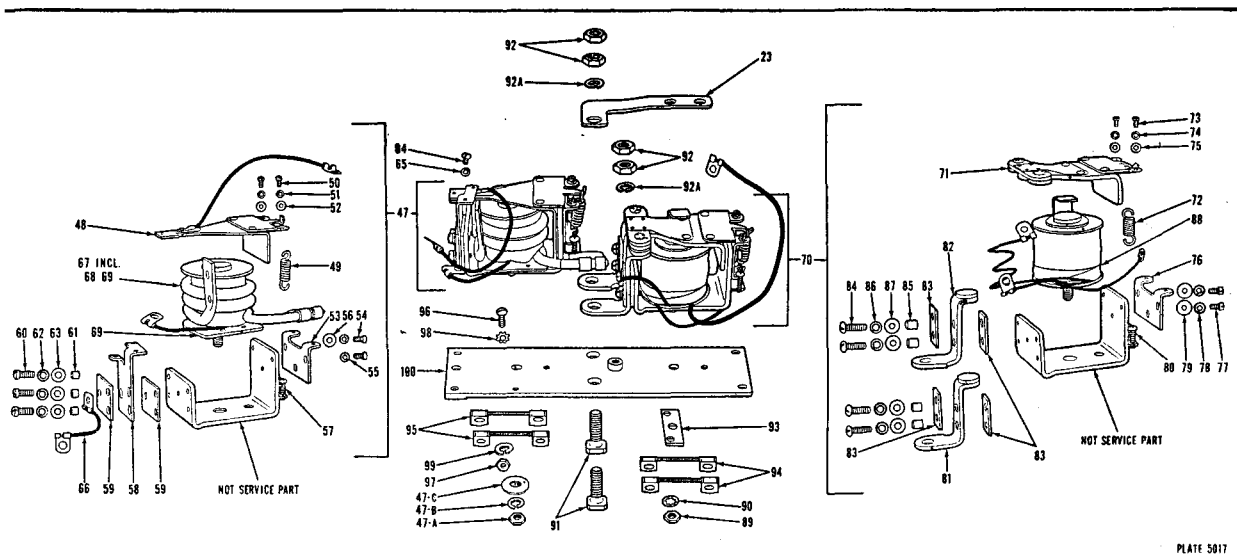
Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

Illus. No.	Name	Part No.	Used on Models
1	Base-----	1911013	1118531-2; 42
1	Base-----	1913489	1118544-5
2	Cover-----	1911014	1118531-2; 42-4-5
3	Gasket—Cover-----	1880804	1118531-2; 42-4-5
4	Stud—Cover Attaching-----	1880805	1118531-2; 42-4-5
5	Nut—Cover Attaching Stud-----	1880810	1118531-2; 42-4-5
6	Lock Washer—Cover Attaching Stud Nut-----	138484	1118531-2; 42-4-5
7	Screw—Mounting Plate Attaching-----	132923	1118531-2; 42-4-5
8	Lock Washer—Mounting Plate Attaching Screw-----	1962276	1118531-2; 42-4-5
9	Washer—Plain—Mounting Plate Attaching Screw-----	1902988	1118531-2; 42-4-5
10	Sleeve—Space—Mounting Plate Attaching Screw-----	1926452	1118531-2; 42-4-5
11	Lead (“Equalizer” to “Voltage” Variable Resistance)-----	1911012	1118531-2; 42-4-5
12	Lead (“Voltage” Variable Resistance to Mounting Plate Mounting Screw)-----	1911011	1118531-2; 42-4-5
13	Resistance Units—Variable-----	1910735	1118531-2; 42-4-5
14	Nut—Variable Resistance Mounting-----	1910707	1118531-2; 42-4-5
15	Washer—Space—Variable Resistance Mounting (Inside)-----	1937980	1118531-2; 42-4-5
16	Lock Washer—Variable Resistance Mounting-----	9421425	1118531-2; 42-4-5
17	Gasket—Variable Resistance Mounting (Inside)-----	1911216	1118531-2; 42-4-5
18	Screw—Series Winding Connecting-----	132908	1118531-2; 42-4-5
19	Lock Washer—Series Winding Connecting Screw-----	1962276	1118531-2; 42-4-5
20	Nut—Series Winding Connecting Screw-----	9421425	1118531-2; 42-4-5
21	Screw—Lead Attaching to “F-1” & “F-2” Terminals)-----	173397	1118531-2; 42-4-5
22	Lock Washer—Lead Attaching (to “F-1” & “F-2” Terminals)-----	9421423	1118531-2; 42-4-5
23	Strap—Connector (Circuit Breaker Relay to “AMMETER” Terminal)-----	1910734	1118531-2; 42-4-5
24	Screw—Attaching (Connector Strap to “AMMETER” Terminal and Series Winding to “ARMATURE” Terminal)-----	173397	1118531-2; 42-4-5
25	Lock Washer—Attaching Screw (Connector Strap to “AMMETER” Terminal and Series Winding to “ARMATURE” Terminal)-----	9421423	1118531-2; 42-4-5
26	Stud—“AMMETER” and “ARMATURE” Terminal-----	1880806	1118531-2; 42-4-5
27	Plate—Insulating—“AMMETER” and “ARMATURE” Terminal Stud-----	1880800	1118531-2; 42-4-5

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Illus. No.	Name	Part No.	Used on Models
28	Washer—Insulating—"AMMETER" and "ARMATURE" Terminal Stud ($\frac{3}{4}$ " O.D.)-----	1880802	1118531-2; 42-4-5
29	Washer—Insulating—"AMMETER" and "ARMATURE" Terminal Stud ($1\frac{1}{8}$ " O.D.)-----	1880801	1118531-2; 42-4-5
30	Washer—Plain—"AMMETER" and "ARMATURE" Terminal Stud-----	1914589	1118531-2; 42-4-5
31	Lock Washer—"AMMETER" and "ARMATURE" Terminal Stud-----	9421427	1118531-2; 42-4-5
32	Nut—"AMMETER" and "ARMATURE" Terminal Stud ($\frac{5}{16}$ thk.)-----	1880718	1118531-2; 42-4-5
33	Nut—"AMMETER" and "ARMATURE" Terminal Stud ($\frac{7}{16}$ thk.)-----	114548	1118531-2; 42-4-5
34	Stud—"F-1" and "F-2" Terminal-----	1880808	1118531-2; 42-4-5
35	Lock Washer—Shakeproof—"F-1" and "F-2" Terminal Stud (Inside)-----	1872430	1118531-2; 42-4-5
36	Plate—Insulating—"F-1" and "F-2" Terminal Stud (Inside)-----	1910730	1118531-2; 42-4-5
37	Washer—Insulating—"F-1" and "F-2" Terminal Stud ($\frac{1}{16}$ O.D.)-----	1880809	1118531-2; 42-4-5
38	Washer—Insulating—"F-1" and "F-2" Terminal Stud ($\frac{3}{4}$ O.D.)-----	1902746	1118531-2; 42-4-5
39	Washer—Plain—"F-1" and "F-2" Terminal Stud-----	1918028	1118531-2; 42-4-5
40	Nut—"F-1" and "F-2" Terminal Stud-----	120375	1118531-2; 42-4-5
41	Lock Washer—"F-1" and "F-2" Terminal Stud-----	9421423	1118531-2; 42-4-5
42	Screw—Ground Terminal-----	177933	1118531-2; 42-4-5
43	Lock Washer—Shakeproof—Ground Terminal Screw (Inside)-----	138484	1118531-2; 42-4-5
44	Washer—Plain—Ground Terminal Screw-----	1918028	1118531-2; 42-4-5
45	Lock Washer—Ground Terminal Screw-----	453790	1118531-2; 42-4-5
46	Nut—Ground Terminal Screw-----	120375	1118531-2; 42-4-5
183	Screw—Lead Attaching to Mounting Plate-----	132900	1118531-2; 42-4-5
184	Lock Washer—Lead Attaching to Mounting Plate Screw-----	1962276	1118531-2; 42-4-5
	Parts not illustrated		
	Seal—Cover-----	5014690	1118531-2; 42-4-5



Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

Illus. No.	Name	Part No.	Used on Models
23	Strap—Connector (Circuit Breaker Relay to "AMMETER" Terminal)-----	1910734	1118531-2; 42-4-5
47	RELAY—ACTUATING-----	1910986	1118531-2; 42
47	RELAY—Actuating-----	1913456	1118544-5
7-A	Nut—Actuating Relay Assembly Attaching-----	29991	1118531-2; 42-4-5
17-B	Lock Washer—Shakeproof—Actuating Relay Assembly Attaching-----	9421423	1118531-2; 42-4-5

Parts not listed in this Catalog will not be sold separately.

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Illus. No.	Name	Part No.	Used on Models
47-C	Washer—Plain—Actuating Relay Assembly		
	Attaching (Shakeproof)-----	1857729	1118531-2; 42-4-5
48	Armature—Actuating Relay-----	1903508	1118531-2; 42
48	Armature—Actuating Relay-----	Δ	1118544-5
49	Spring—Actuating Relay Armature-----	1911081	1118531-2; 42
49	Spring—Actuating Relay Armature-----	1911120	1118544-5
50	Screw—Actuating Relay Armature-----	453884	1118531-2; 42-4-5
51	Lock Washer—Actuating Relay Armature-----	456413	1118531-2; 42-4-5
52	Washer—Plain—Actuating Relay Armature-----	1918848	1118531-2; 42-4-5
53	Bracket—Actuating Relay Armature Support-----	1910684	1118531-2; 42-4-5
54	Screw—Actuating Relay Armature Support Bracket		
	Attaching-----	131880	1118531-2; 42-4-5
55	Lock Washer—Actuating Relay Armature Support		
	Bracket Attaching Screw-----	456413	1118531-2; 42-4-5
56	Washer—Plain—Actuating Relay Armature Support		
	Bracket Attaching Screw-----	1900821	1118531-2; 42-4-5
57	Screw—Actuating Relay Armature Spring Adjusting	154987	1118531-2; 42-4-5
58	Contact Support Bracket-----	1900479	1118531-2; 42
58	Contact Support Bracket-----	Δ	1118544-5
59	Plate—Insulating—Actuating Relay Contact Support		
	Bracket-----	1900481	1118531-2; 42-4-5
60	Screw—Actuating Relay Contact Support Bracket		
	Attaching-----	131966	1118531-2; 42-4-5
61	Bushing—Insulating—Actuating Relay Contact		
	Support Bracket Attaching Screw-----	1900482	1118531-2; 42-4-5
62	Lock Washer—Actuating Relay Contact Support		
	Bracket Attaching Screw-----	453844	1118531-2; 42-4-5
63	Washer—Plain—Actuating Relay Contact Support		
	Bracket Attaching Screw-----	815540	1118531-2; 42-4-5
64	Screw—Lead Att. on Actuating Relay (6-32x $\frac{3}{8}$)----	132684	1118531-2; 42-4-5
64	Screw—Lead Att. on Actuating Relay (8-32x $\frac{1}{4}$)----	122159	1118544-5
65	Lock Washer—Lead Attaching on Act. Relay (#6)-----	456413	1118531-2; 42-4-5
65	Lock Washer—Lead Attaching To Act. Relay (#8)-----	453844	1118544-5
66	Lead (Actuating Relay Contact to Series Junction)----	1912269	1118531
67	Winding Assembly—Actuating Relay-----	1910987	1118531-2; 42-4-5
68	Winding—Shunt—Actuating Relay-----	1910988	1118531-2; 42-4-5
69	Insulator—Act. Relay Winding (31/64 Dia. Hole)-----	1910699	1118531-2; 42-4-5
69	Insulator—Act. Relay Winding (11/16 Dia. Hole)-----	1923731	1118531-2; 42-4-5
*70	RELAY—CIRCUIT BREAKER-----	1910984	1118531-2
*70	RELAY—CIRCUIT BREAKER-----	1912343	1118532; 42
70	RELAY—CIRCUIT BREAKER-----	1913453	1118544-5
71	Armature—Circuit Breaker Relay-----	1900449	1118531-2; 42-4-5
72	Spring—Circuit Breaker Relay Armature-----	1911120	1118531-2; 42
72	Spring—Circuit Breaker Relay Armature-----	1921646	1118544-5
73	Screw—Circuit Breaker Relay Armature Attaching-----	453884	1118531-2; 42-4-5
74	Lock Washer—Circuit Breaker Relay Armature		
	Attaching-----	456413	1118531-2; 42-4-5
75	Washer—Plain—Circuit Breaker Relay Armature		
	Attaching-----	1918848	1118531-2; 42-4-5
76	Bracket—Circuit Breaker Relay Armature Support-----	1910684	1118531-2; 42-4-5
77	Screw—Circuit Breaker Relay Armature Support		
	Bracket-----	131880	1118531-2; 42-4-5
78	Lock Washer—Circuit Breaker Relay Armature		
	Support Bracket-----	456413	1118531-2; 42-4-5
79	Washer—Plain—Circuit Breaker Relay Armature		
	Support Bracket-----	1900821	1118531-2; 42-4-5
80	Screw—Circuit Breaker Relay Armature Spring		
	Adjusting-----	154987	1118531-2; 42-4-5
*81	Contact and Support—R.H.—Circuit Breaker Relay-----	1908890	1118531-2
*81	Contact and Support—R.H.—Circuit Breaker Relay-----	1912313	1118532; 42-4-5
*82	Contact and Support—L.H.—Circuit Breaker Relay-----	1908889	1118531-2
*82	Contact and Support—L.H.—Circuit Breaker Relay-----	1912316	1118532; 42-4-5
83	Plate—Insulating—Contact and Support—Circuit		
	Breaker Relay-----	1900463	1118531-2; 42-4-5
84	Screw—Contact and Support—Circuit Breaker Relay		
	Attaching-----	1900465	1118531-2; 42-4-5
85	Bushing—Insulating—Contact and Support Circuit		
	Breaker Relay Attaching Screw-----	1900464	1118531-2; 42-4-5
86	Lock Washer—Contact and Support Attaching		
	Screw—Circuit Breaker Relay-----	456413	1118531-2; 42-4-5
87	Washer—Plain—Contact and Support Attaching		
	Screw—Circuit Breaker Relay-----	815540	1118531-2; 42-4-5
88	Winding Assembly—Circuit Breaker Relay-----	1910985	1118531-2; 42
88	Winding Assembly—Circuit Breaker Relay-----	1913454	1118544-5
89	Nut—Circuit Breaker Relay Attaching-----	29991	1118531-2; 42-4-5
90	Lock Washer—Circuit Breaker Relay Attaching Nut	9421423	1118544-5

*Early production only for 1118532, later production uses 1118542 parts.

*Late production parts for 1118532.

ΔUse Package 1926947

Parts not listed in this Catalog will not be sold separately.

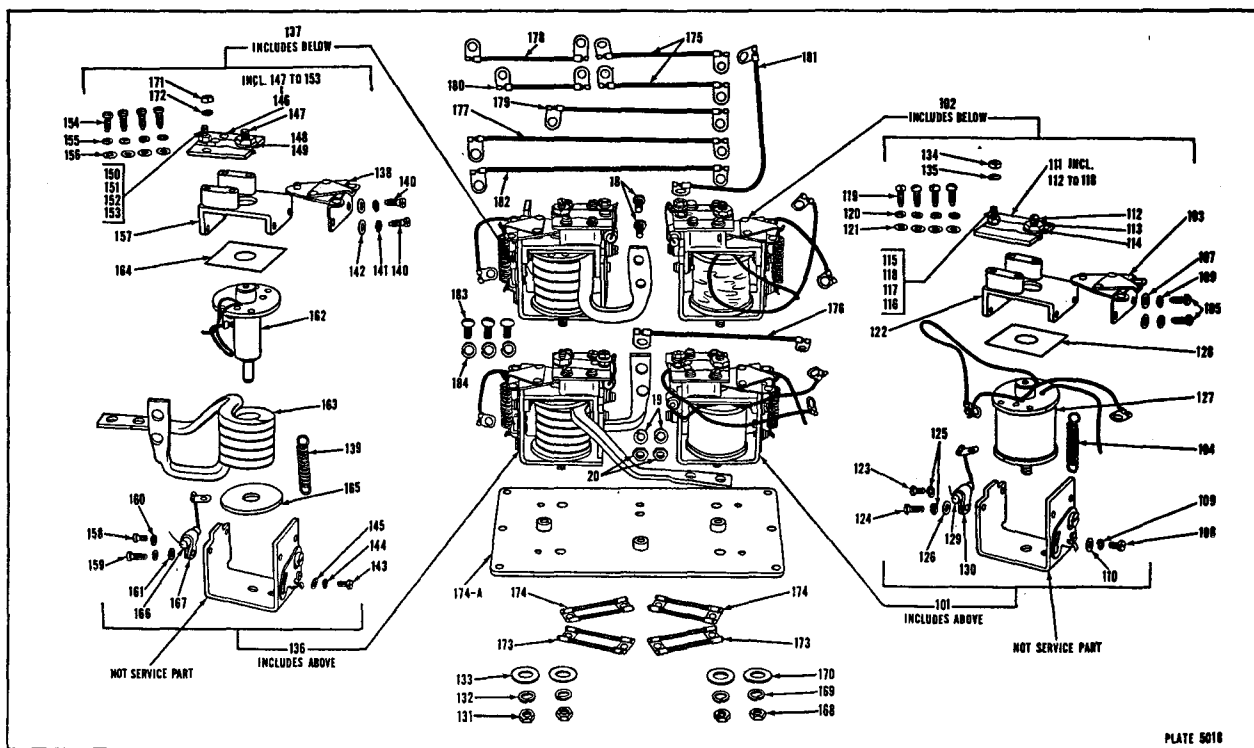
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Illus. No.	Name	Part No.	Used on Models
90	Lock Washer—Circuit Breaker Relay Attaching Nut	138537	1118531-2; 42
*91	Stud—Circuit Breaker Relay Contact and Support	1900467	1118531-2
*91	Bracket—Terminal	435655	1118532; 42-4-5
*92	Screw—Terminal—Circuit Relay Contact	1900468	1118531-2
*92	Nut—Circuit Breaker Relay Contact and Support	9421424	1118531-2; 42-4-5
92-A	Bracket Terminal	1903931	1118531-2
93	Lock Washer—Circuit Breaker Relay Contact Bracket	1910183	1118531-2; 42
93	Stud or Screw	1910173	1118531-2; 42-4-5
94	Strap—Connector (under Circuit Breaker Relay Mounting Nut)	132760	1118531-2; 42-4-5
95	Resistance Unit (20 ohm) Circuit Breaker Relay	120622	1118531-2; 42-4-5
96	Resistance Unit (40 ohm) Actuating Relay	121752	1118531-2; 42-4-5
97	Screw—Lead Attaching (to Actuating Relay Resistance)	453844	1118531-2; 42-4-5
98	Nut—Lead Attaching (to Actuating Relay Resistance)	1910729	1118531-2
99	Lock Washer—Lead Attaching (to Resistance)	1912344	1118532; 42
*100	Plate—Mounting	1913463	1118544-5
*100	Plate—Mounting—Relay	1913462	1118544-5
100	Plate—Mounting—Relay (Parts not illustrated)	1913487	1118544-5
	Bracket—Armature Stop Actuating Relay	131954	1118544-5
	Resistance Unit (200 ohm) on Actuating Relay	453844	1118544-5
	Screw—Actuating Relay Armature Stop Attaching	1900483	1118532
	Lock Washer—Actuating Relay Armature Stop Screw	1911449	1118532; 42
	Lead (Actuating Relay to Circuit Breaker Relay Contact Stud)	1912270	1118531-2; 42
	Lead (Actuating Relay to Resistor-under Circuit Breaker)	453647	1118532; 42-4-5
	Lead (Actuating Relay to Circuit Breaker Relay Contact)	1913464	1118544-5
	Screw—Lead Attaching—To Relay Frame	815540	1118544-5
	Lead—Circuit Breaker Relay Contact to Actuating Relay Stop	1918028	1118544-5
	Washer—Plain—Actuating Relay Armature Stop Screw		
	Washer—Plain—C. B. Relay Attaching Nut		

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*Late production parts for 1118532.



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Illus. No.	Name	Part No.	Used on Models
	Lock Washer—Lead Attaching Screw—To Relay Frame	453844	1118532; 42-4-5
	Washer—Plain—Lead Attaching Screw—To Relay Resistor	815540	1118532; 42
18	Screw—Series Winding Connecting	132908	1118531-2; 42-4-5
19	Lock Washer—Series Winding Connecting Screw	1962276	1118531-2; 42-4-5
20	Nut—Series Winding Connecting Screw	453433	1118531-2; 42-4-5
101	VOLTAGE ELEMENT—"F-1" (Outer)	1910731	1118531-2; 42
101	VOLTAGE ELEMENT—"F-1" (Outer)	1913486	1118544-5
102	VOLTAGE ELEMENT—"F-2" (Inner)	1911001	1118531-2; 42
102	VOLTAGE ELEMENT—"F-2" (Inner)	1913483	1118544-5
103	Armature—Voltage Element	1916985	1118531-2; 42-4-5
104	Spring—Voltage Element Armature	1908652	1118531-2; 42-4-5
105	Screw—Voltage Element Armature Attaching	20987	1118531-2; 42-4-5
109	Lock Washer—Voltage Element Armature Attaching Screw	453844	1118531-2; 42-4-5
107	Washer—Plain—Voltage Element Armature Attaching	810794	1118531-2; 42-4-5
108	Screw—Voltage Element Armature Adjusting Lock	20173	1118531-2; 42
108	Screw—Voltage Element Armature Adjusting Lock	452992	1118544-5
109	Lock Washer—Voltage Element Armature Adjusting Lock Screw	453844	1118531-2; 42-4-5
110	Washer—Plain—Voltage Element Armature Adjusting Lock Screw	810794	1118531-2; 42-4-5
111	Bracket Assembly—Contact—Voltage Element	1924779	1118531-2; 42-4-5
112	Contact Screw—Contact Bracket—Voltage Element	1858692	1118531-2; 42-4-5
113	Nut—Lock—Contact Screw—Voltage Element	1916080	1118531-2; 42-4-5
114	Lock Washer—Shakeproof—Contact Screw Lock Nut—Voltage Element	120423	1118531-2; 42-4-5
115	Screw—Terminal—Contact Bracket—Voltage Element	22820	1118531-2; 42-4-5
116	Lock Washer—Shakeproof—Contact Bracket—Terminal Screw—Voltage Element	138530	1118531-2; 42-4-5
117	Lock Washer—Contact Bracket—Terminal Screw Nut—Voltage Element	453844	1118531-2; 42-4-5
118	Nut—Contact Bracket—Terminal Screw—Voltage Element	30986	1118531-2; 42-4-5
119	Screw—Voltage Element Contact Bracket Attaching	1916016	1118531-2; 42-4-5
120	Lock Washer—Voltage Element Contact Bracket Attaching Screw	453844	1118531-2; 42-4-5
121	Washer—Plain—Voltage Element Contact Bracket Attaching	810794	1118531-2; 42-4-5
122	Support—Voltage Element Contact Bracket	1843160	1118531-2; 42-4-5
123	Screw—Voltage Element Contact Bracket Support Attaching	1916015	1118531-2; 42-4-5
124	Screw—Voltage Element Contact Bracket Support and Resistor Attaching	22820	1118531-2; 42-4-5
125	Lock Washer—Voltage Element Contact Bracket Support and Resistor Attaching	453844	1118531-2; 42-4-5
126	Washer—Plain—Voltage Element Contact Bracket Support and Resistor Attaching	815540	1118531-2; 42-4-5
127	Winding—Voltage Element	1911002	1118531-2; 42
127	Winding—Voltage Element	1913484	1118544-5
128	Insulator (under Contact Bracket Support)	1905927	1118531-2; 42-4-5
129	Resistance Unit—Voltage Element	1905070	1118531-2; 42-4-5
130	Clamp—Resistance Mounting	1904865	1118531-2; 42-4-5
168	Nut—Voltage Element Mounting	29991	1118531-2; 42-4-5
169	Lock Washer—Voltage Element Mounting Nut	9421423	1118531-2; 42-4-5
170	Washer—Plain—Voltage Element Mounting Nut	810557	1118531-2; 42-4-5
134	Nut—Voltage Element Contact Bracket Terminal Lead Attaching	30986	1118531-2; 42-4-5
135	Lock Washer—Voltage Element Contact Bracket Terminal Lead Attaching	453844	1118531-2; 42-4-5
136	CURRENT ELEMENT—"F-1" (Outer)	1910995	1118531-2; 42-4-5
137	CURRENT ELEMENT—"F-2" (Inner)	1910999	1118531-2; 42
137	CURRENT ELEMENT—"F-2" (Inner)	1913466	1118544-5
138	Armature—Current Element	1918114	1118531-2; 42-4-5
139	Spring—Current Element Armature	1910998	1118531-2; 42-4-5
140	Screw—Current Element Armature Attaching	20987	1118531-2; 42-4-5
141	Lock Washer—Current Element Armature Attaching Screw	453844	1118531-2; 42-4-5
142	Washer—Plain—Current Element Armature Attaching	810794	1118531-2; 42-4-5
143	Screw—Current Element Armature Adjusting Lock	1916015	1118531-2; 42
143	Screw—Current Element Armature Adjusting Lock	452992	1118544-5
144	Lock Washer—Current Element Armature Adjusting Lock Screw	453844	1118531-2; 42-4-5
145	Washer—Current Element Adjusting Lock Screw	810794	1118531-2; 42-4-5
146	Bracket Assembly—Current Element Contact	1924779	1118531-2; 42-4-5

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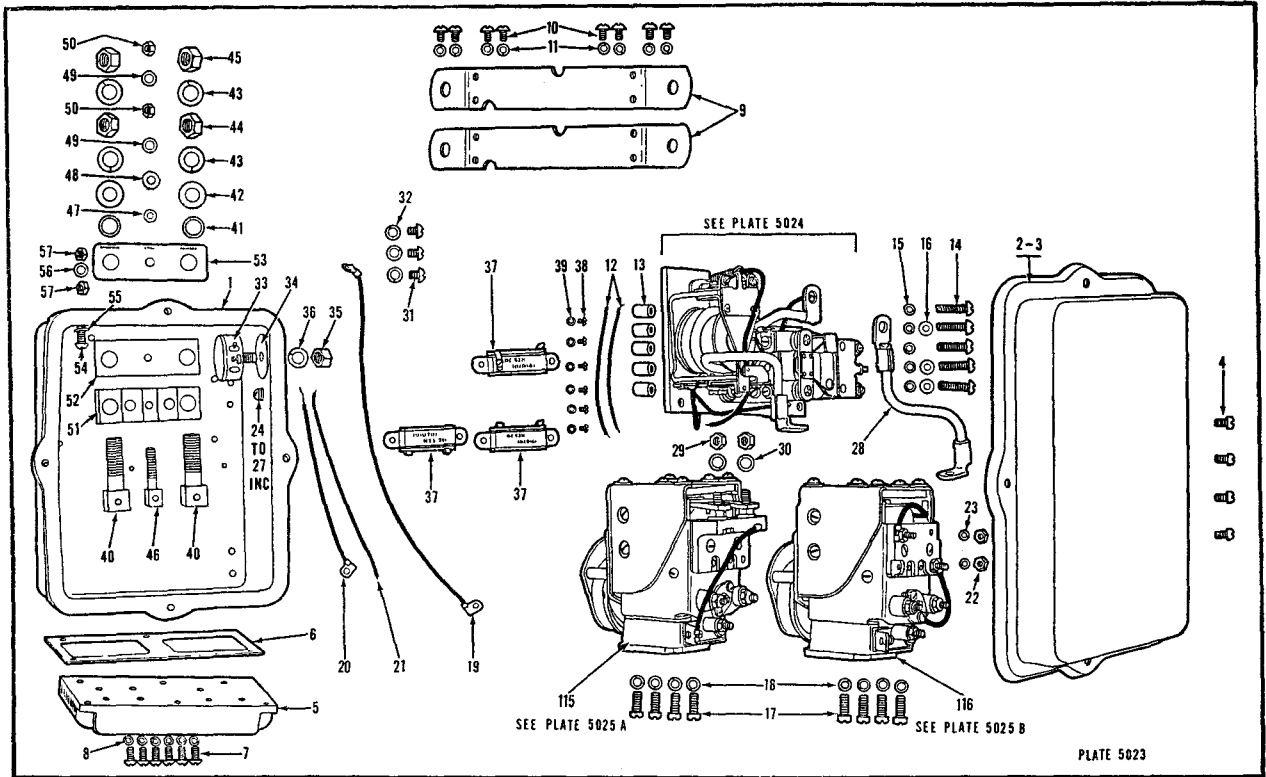
Illus. No.	Name	Part No.	Used on Models
147	Contact Screw—Current Element Contact Bracket	1858692	1118531-2; 42-4-5
148	Nut—Lock—Current Element Contact Bracket Screw	1916080	1118531-2; 42-4-5
149	Lock Washer—Shakeproof—Current Element Contact Bracket Screw	138537	1118531-2; 42-4-5
150	Screw—Terminal—Current Element Contact Bracket	22820	1118531-2; 42-4-5
151	Lock Washer—Shakeproof—Current Element Contact Bracket Terminal Screw	138530	1118531-2; 42-4-5
152	Lock Washer—Current Element Contact Terminal Screw	453844	1118531-2; 42-4-5
153	Nut—Current Element Contact Terminal Screw	30986	1118531-2; 42-4-5
154	Screw—Contact Bracket Attaching	1916016	1118531-2; 42-4-5
155	Lock Washer—Contact Bracket Attaching	453844	1118531-2; 42-4-5
156	Washer—Plain—Contact Bracket Attaching	810794	1118531-2; 42-4-5
157	Support—Current Element Contact Bracket	1843160	1118531-2; 42-4-5
158	Screw—Current Element Contact Bracket Support Attaching	1916015	1118531-2; 42-4-5
139	Screw—Current Element Contact Bracket and Resistor Attaching	453844	1118531-2; 42-4-5
160	Lock Washer—Current Element Contact Bracket and Resistor Attaching	453844	1118531-2; 42-4-5
161	Washer—Plain—Current Element Contact Bracket and Resistor Attaching	810794	1118531-2; 42-4-5
162	Winding—Shunt—Current Element (F-1 & 2)	1910996	1118531-2; 42
162	Winding—Shunt—Current Element "F-1"	1910996	1118544-5
162	Winding—Shunt—Current Element "F-2"	1913478	1118544-5
163	Winding—Series. Not available. Use Complete Element		
164	Insulator (under Contact Bracket Support)	1905927	1118531-2; 42-4-5
165	Insulator—Current Element Winding (7/16-I.D.)	37330	1118531-2; 42-4-5
165	Insulator—Current Element Winding (41/64-I.D.)	1925907	1118531-2; 42-4-5
166	Resistance Unit—Current Element	1905070	1118531-2; 42-4-5
167	Clamp—Resistance Attaching—Current Element	1904865	1118531-2; 42-4-5
131	Nut—Current Element Assembly Attaching	29991	1118531-2; 42-4-5
132	Lock Washer—Current Element Assembly Attaching	9421423	1118531-2; 42-4-5
133	Washer—Plain—Current Element Assembly Attaching	1918028	1118531-2; 42-4-5
171	Nut—Current Element Contact Bracket Terminal Lead Attaching	30986	1118531-2; 42-4-5
172	Lock Washer—Current Element Contact Bracket Terminal Lead Attaching	453844	1118531-2; 42-4-5
173	Resistance Unit (200 ohm)	1910178	1118531-2; 42-4-5
174	Resistance Unit (200 ohm)	1910178	1118531-2; 42-4-5
174-A	Plate—Mounting (Current and Voltage Elements)	1911010	1118531-2; 42-4-5
175	Lead (Current Element Control Bracket Terminal to Voltage Element Contact Bracket Attaching Screw)	1912270	1118531-2; 42-4-5
176	Lead (Voltage Element—"F-1" [Outer] Contact Bracket Terminal to Mounting Plate between Voltage Elements)	1911007	1118531-2; 42-4-5
177	Lead (Mounting Plate between Voltage Elements to "F-1" Terminal)	1911006	1118531-2; 42-4-5
178	Lead (Mounting Plate between Voltage Element "F-1" and Current Element "F-2" to Armature Terminal)	1910733	1118531-2; 42
179	Lead (Mounting Plate between Voltage Element "F-1" and Current Element "F-2" to Current Element "F-1" Contact Bracket Attaching Screw)	1911006	1118531-2; 42-4-5
180	Lead (Current Element "F-2" to Current Element "F-1" Contact Bracket Attaching Screw)	1911008	1118531-2; 42-4-5
181	Lead (Voltage Element "F-2" Contact Bracket Terminal to Mounting Plate between Current Elements)	1911009	1118531-2; 42-4-5
182	Lead (Mounting Plate between Current Elements to "F-2" Terminal)	1911007	1118531-2; 42-4-5
183	Screw—Lead Attaching to Mounting Plate	132900	1118531-2; 42-4-5
184	Lock Washer—Lead Attaching to Mounting Plate Screw	1962276	1118531-2; 42-4-5
	(Parts not illustrated)		
	Circuit Breaker (OVERLOAD)	1918104	1118544-5
	Lead—Overload Circuit Breaker to Ground	1913479	1118544-5
	Lead—C. & V. Panel to Actuating Relay	1913482	1118544-5
	Resistance Unit (20 ohm) Under C. & V. Panel	1910183	1118544-5
	Screw—Resistance Attaching	9417096	1118544-5
	Lock Washer—Shakeproof—Resistance Attaching Screw	121752	1118544-5
	Lock Washer—Resistance Attaching Screw	453844	1118544-5
	Nut—Resistance Attaching Screw	120622	1118544-5

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REGULATOR—Group 10
Model 1118407-8-9-14-16
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Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

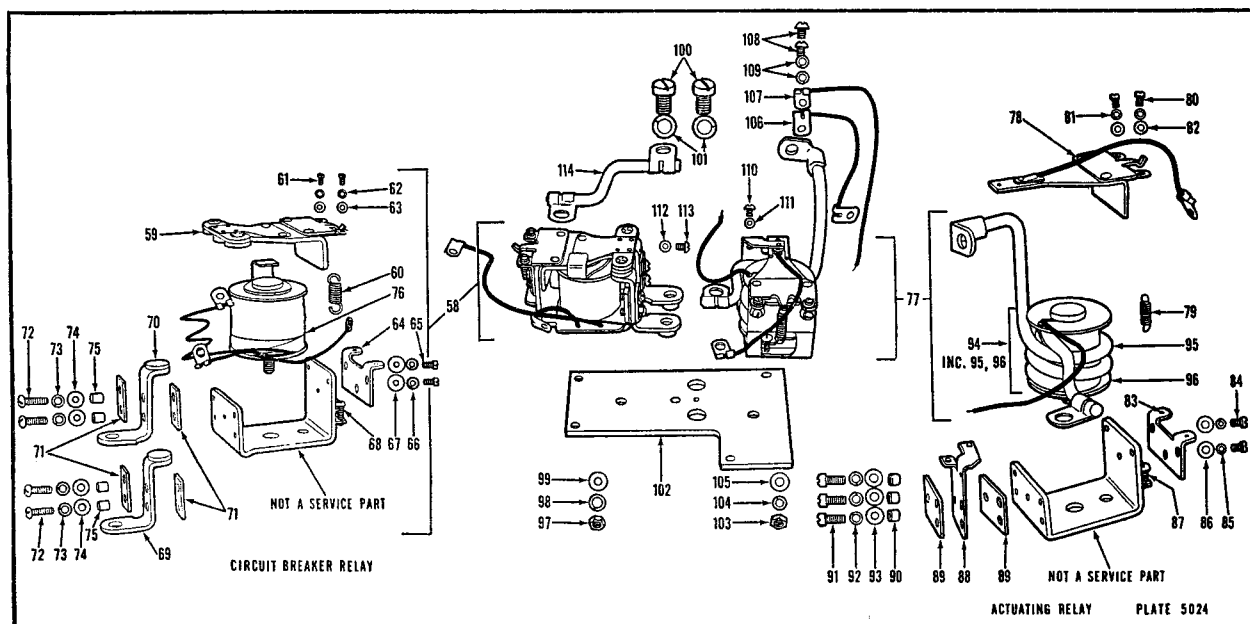
Illus. No.	Name	Part No.	Used on Models
1	Base.....	1912263	1118409
1	Base.....	1913511	1118407-8-16
1	Base.....	1922850	1118414
2	Cover.....	1910713	1118407-8-9-14-16
3	Gasket—Cover (Rubber).....	1910715	1118407-8-9-14-16
4	Screw—Cover Attaching.....	1904370	1118407-8-9-14-16
5	Radiator.....	1910714	1118407-8-9-14-16
6	Gasket—Radiator.....	1910716	1118407-8-9-14-16
7	Screw—Radiator Attaching.....	132908	1118407-8-9-14-16
8	Lock Washer—Radiator Attaching Screw.....	131183	1118407-8-9-14-16
9	Bracket—Mounting.....	1910712	1118407-8-9-14-16
10	Screw—Mounting Bracket Attaching.....	121540	1118407-8-9-14-16
11	Lock Washer—Mounting Bracket Attaching Screw.....	131183	1118407-8-9-14-16
12	Lead—Fixed Resistor Connector.....	1911012	1118407-8-9-14-16
13	Collar—Space—Relay Mounting Plate.....	1919051	1118407-8-9-14-16
14	Screw—Relay Mounting Plate Attaching.....	132923	1118407-8-9-14-16
15	Lock Washer—Relay Mounting Plate Attaching Screw.....	131183	1118407-8-9-14-16
16	Washer—Plain—Relay Mounting Plate Attaching Screw.....	834231	1118407-8-9-14-16
17	Screw—Current & Voltage Element Attaching.....	132193	1118407-8-9-14-16
18	Lock Washer—Current & Voltage Element Attaching Screw.....	131184	1118407-8-9-14-16
19	Lead—Voltage Element to "F" Terminal.....	1910720	1118407-8-9-14-16
20	Lead—Voltage Element to Variable Resistor.....	1910721	1118407-8-9-14-16
21	Lead—Fixed Resistor to Variable Resistor.....	1910719	1118407-8-9-16
22	Nut—Lead Attaching—To Voltage Element.....	120622	1118407-8-9-14-16
23	Lock Washer—Lead Attaching Nut—To Voltage Element.....	121841	1118407-8-9-14-16
24	Clamp—Lead Support.....	1904865	1118407-8-14-16
24	Clamp—Lead Support.....	1912264	1118409
25	Screw—Clamp Attaching.....	121832	1118407-8-9-14-16
26	Lock Washer—Clamp Attaching Screw.....	121841	1118407-8-9-14-16
27	Washer—Plain—Clamp Attaching Screw.....	810794	1118407-8-9-14-16
29	Nut—Connector Attaching—To Current Element.....	142247	1118407-8-9-16
30	Lock Washer—Connector Attaching Nut—To Current Element.....	120380	1118407-8-9
31	Screw—Connector & Lead Attaching—To Terminal Stud.....	131375	1118407-8-9-14-16
32	Lock Washer—Connector & Lead Attaching Screw—To Terminal Stud.....	120380	1118407-8-9-14-16

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Illus. No.	Name	Part No.	Used on Models
33	Resistor—Variable	1910706	1118407-8-9-14-16
33	Resistor—Variable	1912259	1118409
34	Gasket—Variable Resistor	1910708	1118407-8-9-14-16
35	Nut—Variable Resistor Mounting	1910707	1118407-8-9-14-16
36	Lock Washer—Variable Resistor Mounting Nut	120381	1118407-8-9-14-16
37	Resistor (20 ohm)	1910701	1118407-8-14-16
37	Resistor (125 ohm)	1912262	1118409
37	Resistor (4 ohm)	1914400	1118409
38	Screw—Resistor Attaching	132684	1118407-8-9-14-16
39	Lock Washer—Resistor Attaching Screw	131181	1118407-8-9-14-16
40	Stud—Armature & Battery Terminal	1910703	1118407-8-9-14-16
41	Washer—Ins. Bushing—"A" & "B" Terminal Stud	1911158	1118407-8-9-14-16
42	Washer—Plain—Terminal Stud ($\frac{3}{4}$ -I.D.)	30205	1118407-8-9-14-16
43	Lock Washer—Terminal Stud ($\frac{1}{2}$)	1902494	1118407-8-9-14-16
44	Nut—Terminal Stud ($\frac{1}{4}$ -20x $\frac{1}{8}$)	422967	1118407-8-9-14-16
45	Nut—Terminal Stud ($\frac{1}{4}$ -20x $\frac{1}{8}$)	114548	1118407-8-9-14-16
46	Stud—Terminal ($\frac{1}{4}$ -20)	1880808	1118407-8-9-14-16
47	Washer—Plain—Terminal Stud (For $\frac{1}{4}$ Stud)	1880809	1118407-8-9-14-16
48	Washer—Ins.—Terminal Stud (For $\frac{1}{4}$ Stud)	834560	1118407-8-9-14-16
49	Lock Washer—Terminal Stud ($\frac{1}{4}$)	120380	1118407-8-9-14-16
50	Nut—Terminal Stud ($\frac{1}{4}$ -20)	134551	1118407-8-9-14-16
51	Terminal Block (Inside)	1910705	1118407-8-9-14-16
52	Gasket—Terminal Block (Inside)	1910704	1118407-8-9-14-16
53	Panel—Terminal Ins. (Outside)	1910702	1118407-8-9-16
53	Panel—Terminal Ins. (Outside)	1922857	1118414
54	Screw—Ground	133043	1118407-8-14-16
55	Lock Washer—Ground Screw—Shakeproof (Inside)	121753	1118407-8-14-16
56	Lock Washer—Ground Screw (Outside)	120380	1118407-8-14-16
57	Nut—Ground Screw	134551	1118407-8-14-16
Parts not illustrated.			
	LOCKWASHER—"Aux" Terminal	453296	1118414
	LOCKWASHER—Lead Attaching Screw to Relay Mtg. Plate	131183	1118409
	LOCKWASHER—Lead Attaching Screw to Field Relay	121841	1118414
	LOCKWASHER—Reverse Current Relay Attaching	120380	1118407-8-9-16
	LOCKWASHER—Reverse Current Relay Lead Att. Screw	1904376	1118407-8-9-16
	LOCKWASHER—Field Relay Attaching Screw	120217	1118414
	LOCKWASHER—(Shakeproof)—"SW" Terminal Stud	174916	1118414
	NUT—"Aux." Terminal	453284	1118414
	NUT—Reverse Current Relay Attaching	134551	1118407-8-16
	WASHER—Ins. "Aux." Terminal	1929235	1118414
	WASHER—Plain "Aux." Terminal	32898	1118414
	WASHER—Plain—Reverse Current Relay Attaching	810557	1118407-8-9-16
	WASHER—Plain—Field Relay Attaching Screw	1905516	1118414
	SCREW—Lead Attaching to Relay Mounting Plate	121540	1118409
	SCREW—Lead Attaching to 30-32V Terminal	133043	1118409
	SCREW—Lead Attaching to Field Relay	1864099	1118414
	SCREW—Reverse Current Relay Lead Attaching	1864099	1118407-8-9-16
	SCREW—Reverse Current Relay Attaching	133043	1118407-8-9-16
	SCREW—Field Relay Attaching	121540	1118414
	CONDENSER—(18-.23 MFD)	1923872	1118414
	BRACKET—Condenser	1922845	1118414
	INSULATOR—"Aux." Terminal	1922377	1118414
	INSULATOR—(Inside) 30-32V Terminal	1912266	1118409
	INSULATOR—(Outside) 30-32V Terminal	1912268	1118409
	INSULATOR—"SW" Terminal Stud (Inside)	1922844	1118414
	INSULATOR—Relay Rectifier Stud (Inside)	1912266	1118414
	INSULATOR—Relay Rectifier Stud (Outside)	1923035	1118414
	LEAD—(2 $\frac{3}{8}$ long)—30V Terminal to Overload Relay	1914392	1118409
	LEAD—(6 $\frac{1}{2}$ long)—30 & 32V Terminal to Resistor	1914399	1118409
	LEAD—(8" long)—32V Terminal to Relay Mtg. Plate	1914398	1118409
	LEAD—(9 $\frac{3}{4}$ long)—30V Terminal to Resistor	1912261	1118409
	LEAD—(12 $\frac{1}{2}$ long)—30V Terminal to Voltage Unit	1912260	1118409
	LEAD—C.B. Relay Contact to Act. Relay Contact	1912270	1118408-9
	LEAD—Reverse Current Relay to Circuit Breaker	1911009	1118407-8-9
	LEAD—Circuit Breaker to Rectifier Terminal	1922849	1118414
	LEAD—Field Relay to Battery Terminal	1923037	1118414
	LEAD—Field Relay to "SW" Terminal	1923036	1118414
	LEAD—Rectifier Terminal to Field Relay	1924467	1118414
	LEAD—Variable Resistor to Fixed Resistor	1910719	1118414
	LEAD—Voltage Regulator Contact to Field Relay	1922841	1118414
	PLUG (Screw)—Variable Resistor	1925919	1118416
	RELAY—Field	1923027	1118414
	RELAY—Reverse Current Overload	1913504	1118407-8
	RELAY—Reverse Current Overload	1914383	1118409
	RELAY—Reverse Current Overload	1925611	1118416
	TERMINAL (& Lead)—"Aux."	1919074	1118414

Parts not listed in this Catalog will not be sold separately.



Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

Illus. No.	Name	Part No.	Used on Models
58	RELAY ASSEMBLY—CIRCUIT BREAKER	1910694	1118407
58	RELAY ASSEMBLY—CIRCUIT BREAKER	1913496	1118408-16
58	RELAY ASSEMBLY—CIRCUIT BREAKER	1912246	1118409
58	RELAY ASSEMBLY—CIRCUIT BREAKER	1922848	1118414
59	Armature—Circuit Breaker Relay	1900449	1118408-14-16
59	Armature—Circuit Breaker Relay	1914393	1118409
59	Armature—Circuit Breaker Relay	1914269	1118407
60	Spring—Circuit Breaker Relay Armature	1911120	1118407
60	Spring—Circuit Breaker Relay Armature	1914961	1118408-9-14-16
61	Screw—Circuit Breaker Relay Armature Attaching	453884	1118407-8-9-14-16
62	Lock Washer—Circuit Breaker Relay Armature Attaching Screw	131044	1118407-8-9-14-16
63	Washer—Plain—Circuit Breaker Relay Armature Attaching Screw	1918848	1118407-8-9-14-16
64	Bracket—Circuit Breaker Relay Armature Support	1910684	1118407-8-9-14-16
65	Screw—Circuit Breaker Relay Armature Bracket Attach.	131880	1118407-8-9-14-16
66	Lock Washer—Circuit Breaker Relay Armature Bracket Attaching Screw	131044	1118407-8-9-14-16
67	Washer—Plain—Circuit Breaker Relay Armature Bracket Attaching Screw	1900821	1118407-8-9-14-16
68	Screw—Circuit Breaker Armature Spring Adjusting	1922408	1118407-8-9-14-16
69	Contact & Support—R.H.—Circuit Breaker Relay	1912313	1118407-8-14-16
69	Contact & Support—R.H.—Circuit Breaker Relay	1931971	1118409
70	Contact & Support—L.H.—Circuit Breaker Relay	1912316	1118407-8-14-16
70	Contact & Support—L.H.—Circuit Breaker Relay	1931973	1118409
71	Insulator—Circuit Breaker Relay Contact Support	1900463	1118407-8-9-14-16
72	Screw—Circuit Breaker Relay Contact Attaching	443894	1118407-8-9-14-16
73	Lock Washer—Circuit Breaker Relay Contact Attaching Screw	121841	1118407-8-9-14-16
74	Washer—Plain—Circuit Breaker Relay Contact Attaching Screw	807716	1118407-8-9-14-16
75	Bushing—Ins.—Circuit Breaker Relay Contact Attaching Screw	1900464	1118407-8-9-14-16
76	Winding—Circuit Breaker Relay	1910697	1118407
76	Winding—Circuit Breaker Relay	1913497	1118408-16
76	Winding—Circuit Breaker Relay	1912247	1118409
77	RELAY ASSEMBLY—ACTUATING	1910683	1118407
77	RELAY ASSEMBLY—ACTUATING	1913499	1118408-16
77	RELAY ASSEMBLY—ACTUATING	1912249	1118409
78	Armature—Actuating Relay	1903508	1118407
78	Armature—Actuating Relay	*	1118408-9-16
79	Spring—Actuating Relay Armature	1911120	1118407-8-9-16

* Use Package No. 1926947.

Parts not listed in this Catalog will not be sold separately.

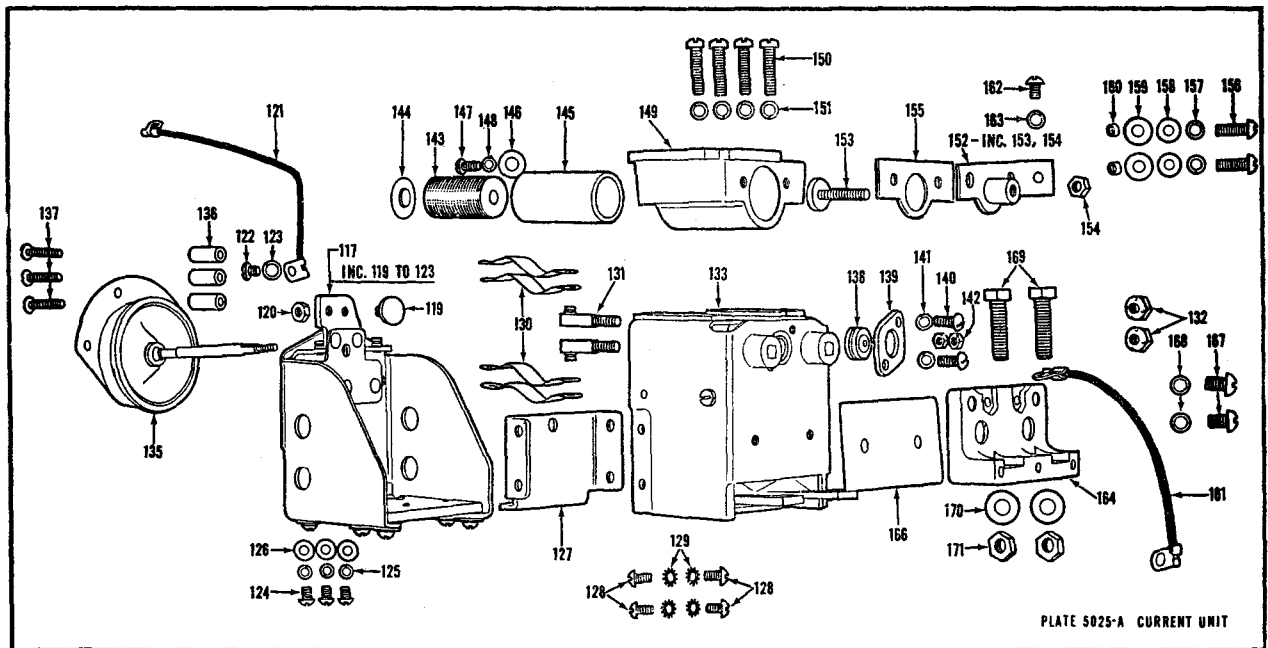
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Illus. No.	Name	Part No.	Used on Models
80	Screw—Actuating Relay Armature Attaching-----	453884	1118407-8-9-16
81	Lock Washer—Actuating Relay Armature Attaching Screw-----	131044	1118407-8-9-16
82	Washer—Plain—Actuating Relay Armature Attaching Screw-----	1918848	1118407-8-9-16
83	Bracket—Actuating Relay Armature Support-----	1910684	1118407-8-9-16
84	Screw—Actuating Relay Armature Support Bracket Attaching-----	131880	1118407-8-9-16
85	Lock Washer—Actuating Relay Armature Support Bracket Screw-----	131044	1118407-8-9-16
86	Washer—Plain—Actuating Relay Armature Support Bracket Screw-----	1900821	1118407-8-9-16
87	Screw—Actuating Relay Armature Spring Adjusting-----	1922408	1118407-8-9-16
88	Contact & Support Bracket—Actuating Relay-----	1900479	1118407
88	Contact & Support Bracket—Actuating Relay-----	*	1118408-9-16
89	Insulator—Actuating Relay Contact Bracket-----	1900481	1118407-8-9-16
90	Bushing—Ins.—Actuating Relay Contact Bracket Attaching Screw-----	1900482	1118407-8-9-16
91	Screw—Actuating Relay Contact Bracket Attaching-----	131966	1118407-8-9-16
92	Lock Washer—Actuating Relay Contact Bracket Attaching Screw-----	121841	1118407-8-9-16
93	Washer—Plain—Actuating Relay Contact Bracket Attaching Screw-----	807716	1118407-8-9-16
94	Winding Assembly—Actuating Relay-----	1910689	1118407-8-16
94	Winding Assembly—Actuating Relay-----	1912250	1118409
95	Shunt Winding—Actuating Relay-----	1910690	1118407-8-16
95	Shunt winding—Actuating Relay-----	1912251	1118409
96	Insulator—Winding (½-I.D.)-----	1918874	1118407-8-9-16
96	Insulator—Winding (⅜-I.D.)-----	1923697	1118407-8-9-16
97	Nut—Circuit Breaker Relay Attaching-----	29991	1118407-8-9-14-16
98	Lock Washer—Circuit Breaker Relay Attaching Nut (Shakeproof)-----	138537	1118407-8-9-16
98	Washer—Plain—Circuit Braker Relay—Attaching Nut-----	810557	1118414
99	Lock Washer—Circuit Breaker Relay Attaching Nut-----	121637	1118407-8-9-14-16
100	Screw—Circuit Breaker Relay Contact Terminal-----	434655	1118407-8-9-14-16
101	Lock Washer—Circuit Breaker Relay Contact Terminal Stud-----	120638	1118407-8-9-14-16
102	Plate—Relay Mounting-----	1910681	1118407-8-16
102	Plate—Relay Mounting-----	1914390	1118409
102	Plate—Relay Mounting-----	1922840	1118414
103	Nut—Actuating Relay Attaching-----	29991	1118407-8-9-16
104	Lock Washer—Actuating Relay Attaching (Shakeproof)-----	138537	1118407-8-9-16
105	Lock Washer—Actuating Relay Attaching-----	121637	1118407-8-9-16
106	Lead—Actuating Relay Frame to R.H. Contact Support of Circuit Breaker-----	1912270	1118407-16
107	Lead—Actuating Relay to Fixed Resistor-----	1910718	1118407-8-9-16
107	Lead—C. B. Relay to Fixed Resistor-----	1913498	1118414
108	Screw—Lead Attaching to Fixed Resistor-----	122159	1118407-8-14-16
109	Lock Washer—Lead Attaching to Fixed Resistor-----	121841	1118407-8-14-16
110	Screw—Lead Attaching—Top of Actuating Relay Contact Bracket (6-32x ³ / ₁₆)-----	132684	1118407-8-9-16
110	Screw—Lead Attaching Actuating Relay Contact Bracket (8-32x ¹ / ₄)-----	122159	1118408-9
111	Lock Washer—Lead Attaching—Top of Actuating Relay Contact Bracket (#6)-----	131044	1118407-8-9-16
111	Lock Washer—Lead Attaching Screw, Actuating Relay Contact Bracket (#8)-----	121841	1118408-9
112	Lock Washer—Lead Attaching to Circuit Breaker Relay-----	121841	1118407-8-9-16
113	Screw—Lead Attaching to Circuit Breaker Relay-----	122159	1118407-8-9-16
114	Connector—Bar to Battery Terminal-----	1910711	1118407-8-14-16
Parts not illustrated.			
	Resistor (200 ohm) on Actuating Relay-----	1913487	1118408-16
	Resistor (1500 ohm) Actuating Relay-----	1914394	1118409
	Bracket—Armature Stop Actuating Relay-----	1913462	1118408-9-16
	Screw—Armature Stop Attaching Relay-----	131954	1118408-9-16
	Lock Washer—Armature Stop Attaching Screw-----	121841	1118408-9-16
	Washer—Plain—Armature Stop Attaching Screw-----	807716	1118408-9-16

* Use Package No. 1926947.

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Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

Illus. No.	Name	Part No.	Used on Models
115	CURRENT ELEMENT	1910670	1118407-8
115	CURRENT ELEMENT	1912238	1118409
115	CURRENT ELEMENT	1925891	1118416
117	Armature Assembly (Current Element)	1910675	1118407-8-9-16
119	Contact Screw (Lower) External Threads	1910660	1118407-8-9
119	Contact (Lower) Internal Threads	1919795	1118407-8-9-16
120	Nut—Contact Screw for 1910660	120614	1118407-8-9
—	Screw—Contact Attaching	131958	1118407-8-9-16
—	Lock Washer—Contact Attaching Screw	131182	1118407-8-9-16
121	Lead—To Terminal Block	1916844	1118407-8-9-16
122	Screw—Lead Attaching—To Armature	132892	1118407-8-9-16
123	Lock Washer—Lead Attaching Screw—To Armature	1880781	1118407-8-9-16
124	Screw—Armature Attaching	122159	1118407-8-9-16
125	Lock Washer—Armature Attaching Screw	121841	1118407-8-9-16
126	Washer—Plain—Armature Attaching Screw	807716	1118407-8-9-16
127	Support—Armature	*1910658	1118407-8-9
128	Screw—Armature Support Attaching	121749	1118407-8-9-16
129	Lock Washer—Armature Support Attaching Screw	121752	1118407-8-9-16
130	Spring—Armature	1911121	1118407-8-9-16
131	Stud—Armature Spring Adjusting	1910613	1118407-8-9-16
132	Nut—Armature Spring Adjusting Stud	9411893	1118407-8-9-16
133	Winding & Bracket Assembly (Current Element)	*1910672	1118407-8
133	Winding & Bracket Assembly (Current Element)	*1912239	1118409
135	Dash Pot Assembly	1916758	1118407-8
135	Dash Pot Assembly	1910635	1118409
136	Collar—Space—Dash Pot	1922048	1118407-8-9
137	Screw—Dash Pot Attaching	226796	1118407-8-9
138	Bearing—Dash Pot Stud	1922995	1118407-8-9
139	Cover—Bearing	1910647	1118407-8-9
140	Screw—Bearing Cover Attaching	132756	1118407-8-9
141	Lock Washer—Bearing Cover Attaching Screw	131182	1118407-8-9
142	Nut—Dash Pot Stud	134524	1118407-8-9
143	Package—Carbon Stack	1920326	1118407-8
143	Package—Carbon Stack	1926678	1118409
143	Package—Carbon Stack	1928081	1110416
144	Contact—Washer—Bottom of Carbon Stack	1885526	1118407-8-9-16
971	Tube—Carbon Stack	1889389	1118407-8-9-16
146	Washer—Carbon Stack Tube Retainer	1910656	1118407-8-9-16
147	Screw—Carbon Stack Tube Retainer	121832	1118407-8-9-16
148	Lock Washer—Carbon Stack Tube Retainer	121841	1118407-8-9-16
149	Housing—Carbon Stack	1910612	1118407-8-9-16
150	Screw—Carbon Stack Housing Attaching	132128	1118407-8-9-16
151	Lock Washer—Carbon Stack Housing Attaching Screw	131183	1118407-8-9-16
152	Support Assembly Contact—Carbon Stack	1910616	1118407-8-9-16

* For service use 1921848 & 1921849.

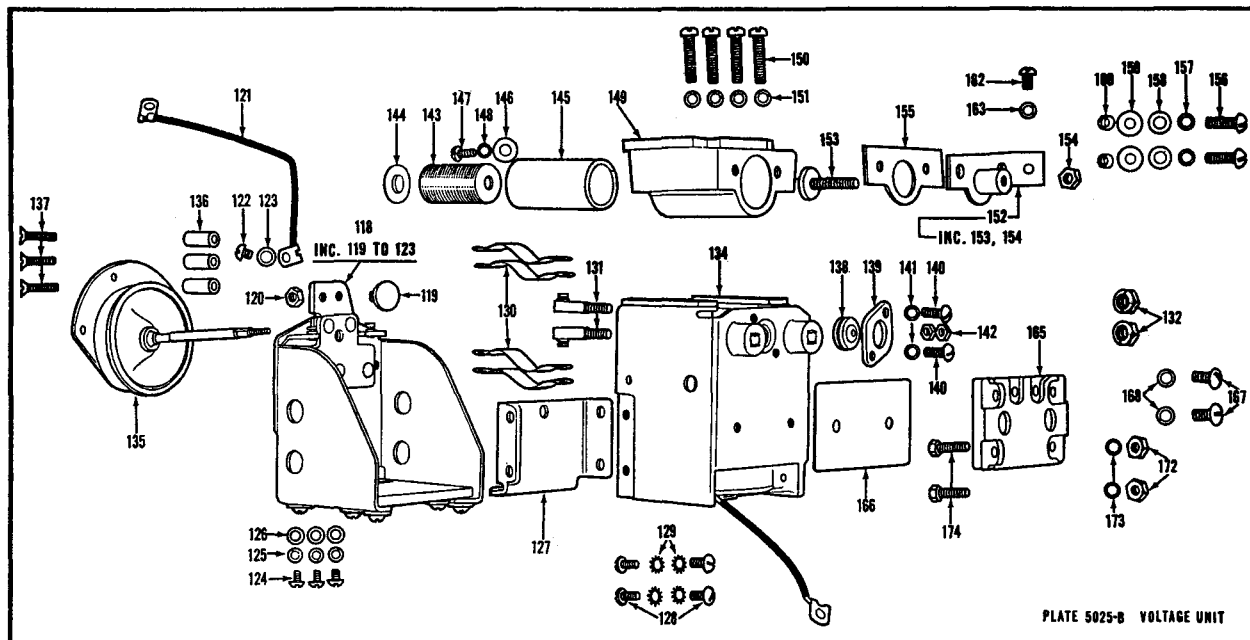
Parts not listed in this Catalog will not be sold separately.

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Illus. No.	Name	Part No.	Used on Models
153	Contact Screw—To Carbon Stack—Upper -----	1910619	1118407-8-9
153	Contact Screw—To Carbon Stack—Upper -----	1918479	1118416
154	Nut—Contact Screw—Upper -----	1926524	1118407-8-9-16
155	Insulator—Contact Support -----	1910652	1118407-8-9-16
156	Screw—Contact Support Attaching -----	132760	1118407-8-9-16
157	Lock Washer—Contact Support Attaching Screw -----	121841	1118407-8-9-16
158	Washer—Plain—Contact Support Attaching Screw -----	807716	1118407-8-9-16
159	Washer—Ins.—Contact Support Attaching Screw -----	813493	1118407-8-9-16
160	Bushing—Ins.—Contact Support Attaching Screw -----	1918825	1118407-8-9-16
161	Lead—Contact Support to Terminal Block -----	1910671	1118407-8-9-16
162	Screw—Lead Attaching—To Contact Support -----	122159	1118407-8-9-16
163	Lock Washer—Lead Attaching Screw—To Contact Support -----	121841	1118407-8-9-16
164	Terminal Block—Current Element -----	1910677	1118407-8-9-16
166	Insulator—Terminal Block -----	1910651	1118407-8-9-16
167	Screw—Terminal Block Attaching -----	132900	1118407-8-9-16
168	Lock Washer—Terminal Block Attaching Screw -----	131183	1118407-8-9-16
169	Terminal Bolt—Current Element -----	454336	1118407-8-9-16
170	Washer—Plain—Terminal Bolt -----	810557	1118407-8-9-16
171	Nut—Terminal Bolt -----	142247	1118407-8-9-16
—	Lead—Shunt—Current Regulator -----	1925889	1118416
—	Plate—Bearing -----	1921918	1118407-8-9
—	Screw—Ball Attaching -----	1921926	1118407-8-9
—	Lock Washer—Ball Attaching Screw -----	131181	1118407-8-9
—	Bracket—Bearing Support -----	1921919	1118407-8-9
—	Screw—Support Bracket Attaching -----	132688	1118407-8-9
—	Lock Washer—Support Bracket Attaching Screw -----	131181	1118407-8-9
—	Ball—(Bearing) -----	1921781	1118407-8-9
—	Yoke—(Bearing) -----	1921917	1118407-8-9
—	Screw—Yoke Attaching -----	132688	1118407-8-9
—	Lock Washer—Yoke Attaching Screw -----	131181	1118407-8-9

* When replacing winding and bracket which is recessed for Heim bearing and you get one of the new design with 2 slots, it is also necessary to use a new design dash pot, plus yoke (& bearing) Package No. 1923582. When replacing winding and bracket which has 2 slots and you get one recessed for Heim bearing, bearing package No. 1922995 and 1923102 adaptor must also be used.



Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

Illus. No.	Name	Part No.	Used on Models
116	VOLTAGE ELEMENT -----	1910610	1118407-8
116	VOLTAGE ELEMENT -----	1912242	1118409
116	VOLTAGE ELEMENT -----	1922851	1118414-16
118	Armature Assembly (Voltage Element) -----	1910659	1118407-8-9-14-16
119	Contact Screw (Lower) External Threads -----	1910660	1118407-8-9

Parts not listed in this Catalog will not be sold separately.

Illus. No.	Name	Part No.	Used on Models
119	Contact (Lower) Internal Threads -----	1919795	1118407-8-9-14-16
120	Nut—Contact Screw for 1910660 -----	120614	1118407-8-9
—	Screw—Contact Attaching -----	131958	1118407-8-9-14-16
—	Lock Washer—Contact Attaching Screw -----	131182	1118407-8-9-14-16
121	Lead—To Terminal Block -----	1916844	1118407-8-9-14-16
122	Screw—Lead Attaching—To Armature -----	132892	1118407-8-9-14-16
123	Lock Washer—Lead Attaching Screw—To Armature -----	1880781	1118407-8-9-14-16
124	Screw—Armature Attaching -----	122159	1118407-8-9-14-16
125	Lock Washer—Armature Attaching Screw -----	121841	1118407-8-9-14-16
126	Washer—Plain—Armature Attaching -----	807716	1118407-8-9-14-16
127	Support—Armature -----	*1910658	1118407-8-9
128	Screw—Armature Support Attaching -----	121749	1118407-8-9-14-16
129	Lock Washer—Armature Support Attaching Screw -----	121752	1118407-8-9-14-16
130	Spring—Armature -----	1911121	1118407-8-9-14-16
131	Stud—Armature Spring Adjusting -----	1910613	1118407-8-9-14-16
132	Nut—Armature Spring Adjusting Stud -----	1884130	1118407-8-9-14-16
134	Winding & Bracket Assembly (Voltage Element) -----	*1910620	1118407-8-14-16
134	Winding & Bracket Assembly (Voltage Element) -----	*1912243	1118409
135	Dash Pot Assembly -----	1916758	1118407-8
135	Dash Pot Assembly -----	1910635	1118409
136	Collar—Space—Dash Pot -----	1910654	1118407-8-9
137	Screw—Dash Pot Attaching -----	226796	1118407-8-9
138	Bearing—Dash Pot Stud -----	1922995	1118407-8-9
139	Cover—Bearing -----	1910647	1118407-8-9
140	Screw—Bearing Cover Attaching -----	132756	1118407-8-9
141	Lock Washer—Bearing Cover Attaching Screw -----	131182	1118407-8-9
142	Nut—Dash Pot Stud -----	134524	1118407-8-9
143	Package—Carbon Stack -----	1920326	1118407-8-14
143	Package—Carbon Stack -----	1926678	1118409
143	Package—Carbon Stack -----	1928081	1118416
144	Contact Washer—Bottom of Carbon Stack -----	1885526	1118407-8-9-14-16
145	Tube—Carbon Stack -----	1889389	1118407-8-9-14-16
146	Washer—Carbon Stack Tube Retainer -----	1910656	1118407-8-9-14-16
147	Screw—Carbon Stack Tube Retainer -----	121832	1118407-8-9-14-16
148	Lock Washer—Carbon Stack Tube Retainer -----	121841	1118407-8-9-14-16
149	Housing—Carbon Stack -----	1910612	1118407-8-9-14-16
150	Screw—Carbon Stack Housing Attaching -----	132128	1118407-8-9-14-16
151	Lock Washer—Carbon Stack Housing Attaching Screw -----	131183	1118407-8-9-14-16
152	Support Assembly—Contact—Carbon Stack -----	1910616	1118407-8-9-14-16
153	Contact Screw—Upper -----	1910619	1118407-8-9
153	Contact Screw—Upper -----	1918479	1118414-16
154	Nut—Contact Screw -----	1926524	1118407-8-9-14-16
155	Insulator—Contact Support -----	1910652	1118407-8-9-14-16
156	Screw—Contact Support Attaching -----	132760	1118407-8-9-14-16
157	Lock Washer—Contact Support Attaching -----	121841	1118407-8-9-14-16
158	Washer—Plain—Contact Support Attaching -----	807716	1118407-8-9-14-16
159	Washer—Ins.—Contact Support Attaching -----	813493	1118407-8-9-14-16
160	Bushing—Ins.—Contact Support Attaching -----	1918825	1118407-8-9-14-16
162	Screw—Lead Attaching—To Voltage Contact Bracket -----	122159	1118407-8-9-14-16
163	Lock Washer—Lead Attaching Screw—To Voltage Contact Bracket -----	121841	1118407-8-9-14-16
163	Terminal Block—Voltage Element -----	1910650	1118407-8-9-14-16
166	Insulator—Terminal Block -----	1910651	1118407-8-9-14-16
167	Screw—Terminal Block Attaching -----	132900	1118407-8-9-14-16
168	Lock Washer—Terminal Block Attaching Screw -----	131183	1118407-8-9-14-16
172	Nut—Terminal Screw -----	120622	1118407-8-9-14-16
173	Lock Washer—Terminal Screw -----	121841	1118407-8-9-14-16
174	Screw—Terminal (Voltage Element) -----	1910648	1118407-8-9-14-16
—	Plate—Bearing -----	1921918	1118407-8-9
—	Screw—Ball Attaching -----	1921926	1118407-8-9
—	Lock Washer—Ball Attaching Screw -----	131181	1118407-8-9
—	Bracket—Bearing Support -----	1921919	1118407-8-9
—	Screw—Support Bracket Attaching -----	132688	1118407-8-9
—	Lock Washer—Support Bracket Attaching Screw -----	131181	1118407-8-9
—	Ball—(Bearing) -----	1921781	1118407-8-9
—	Yoke—(Bearing) -----	1921917	1118407-8-9
—	Screw—Yoke Attaching -----	132688	1118407-8-9
—	Lock Washer—Yoke Attaching Screw -----	131181	1118407-8-9
—	Resistor—On Voltage Element -----	1925890	1118416
—	Clamp—Resistor -----	1904865	1118416
—	Washer—Plain—Voltage Element Terminal -----	807716	1118416

* When replacing winding and bracket which is recessed for Heim bearing and you get one of the new design with 2 slots, it is also necessary to use a new design dash pot, plus yoke (& bearing) Package No. 1923582. When replacing winding and bracket which has 2 slots and you get one recessed for Heim bearing, bearing package No. 1922995 and 1923102 adaptor must also be used.

* For service use 1921848 & 1921849.

Parts not listed in this Catalog will not be sold separately.

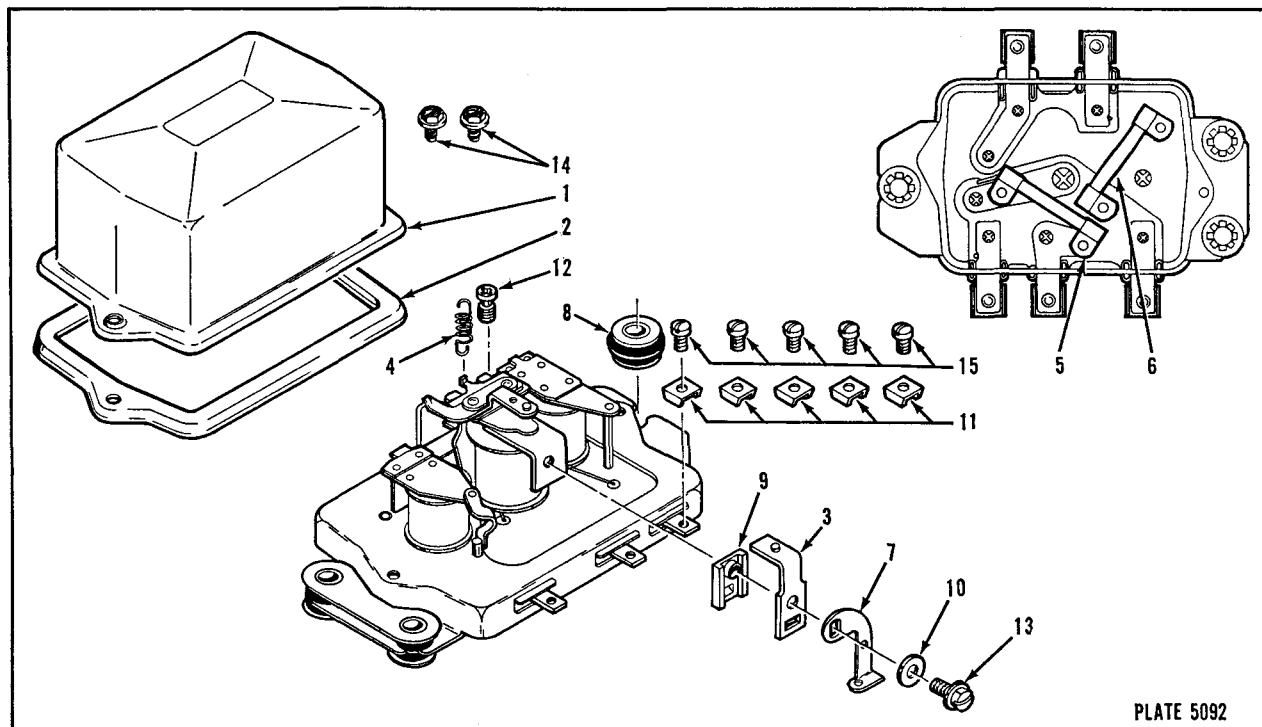


PLATE 5092

Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

Model No.	Cover	Gasket Cover	Support Contact	Spring	Resistor	Resistor	Connector	Grommet	Insulator	Washer Insulating	Clamp
	1	2	3	4	5	6	7	8	9	10	11
1119500.....	1957421	1931887	1957109	1959948	1941431	1959949	1957108	1879663	1939659	1957462	1878503
1119502.....	"	"	"	"	"	"	"	"	"	"	"
1119505.....	"	"	1939658	"	"	"	"	"	"	"	"
1119506.....	1958151			1958137	"	1960347					
1119507.....	"			"	"	"					
1119508.....	1957421	1931887	1957109	1939620	"	1941431	1957108	1879663	1939659	1957462	1878503
1119511.....	1958151			1958137	"	1960347					
1119512.....	"			"	"	"					
• 1119513.....	"			"	"	"					
1119514.....	"			"	"	"					
1119515.....	"			"	"	"					
▲ 1119516.....				"	"	"					
□ 1119517.....				"	"	"					
1119518.....				"	1956235	"					
1119519.....				"	1957821	"					

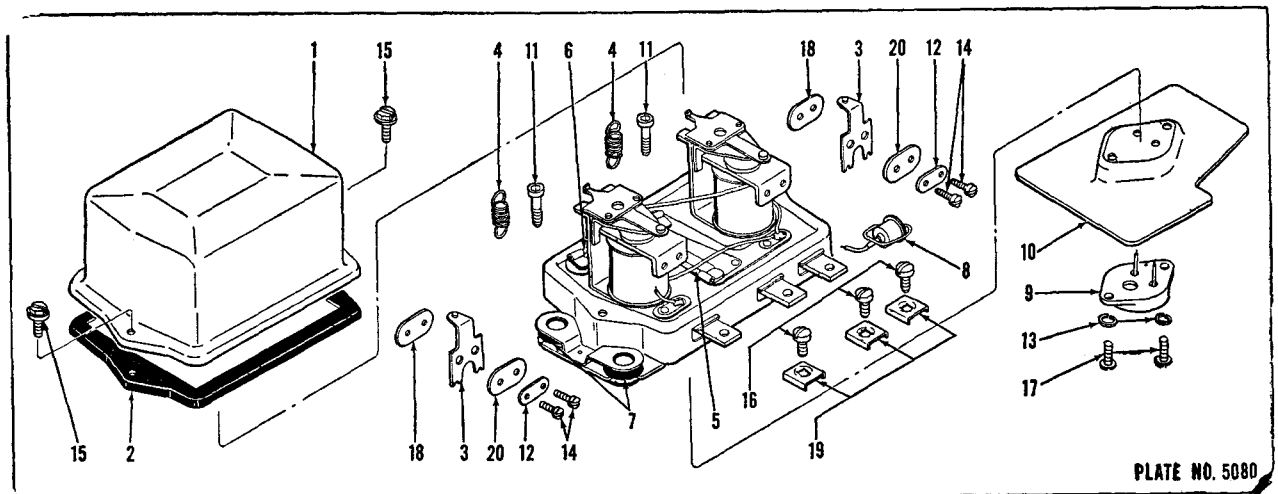
*1119513 is 1119507 Regulator with Shock Bracket Package.

▲1119516 is 1119515 with Shock Bracket Package.

□1119517 is 1119511 Regulator with Shock Bracket Package.

MINOR PARTS SECTION

Illus. No.	Name	Part No.	Used on Models
—	LOCK WASHERS		
—	Lockwasher—Terminal Screw -----	9421423	1119513-16
	SCREWS		
12	Screw—Adjusting -----	1944590	1119500-2-5-8
12	Screw—Adjusting -----	1958148	1119506-7; 11-12-13-14-15-16-18
13	Screw—Contact Support Attaching -----	1943854	1119500-2-5-8
14	Screw—Cover Attaching -----	1943386	All
15	Screw—Terminal -----	454669	1119515-16
15	Screw—Terminal -----	1914800	1119500-2-5-8
	MISCELLANEOUS		
—	Shock Bracket Package -----	1962629	1119513-16-17
—	Rectifier -----	1966808	1119519



Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

Model No.	Cover	Gasket Cover	Contact & Support	Spring	Resistor	Resistor	Grommet	Rectifier	Transistor	Plate	Screw Adj.
	1	2	3	4	5	6	7	8	9	10	11
*9000552.....	1944745	1931887	1933239	1923517	□	□	1933273	⊙1946850	1957736	1944749	1944590
*9000554.....	1948839	"	"	"	□	□	1879663	⊙ "	"	"	"
*9000558.....	1944745	"	1933242	1949142	□	□	"	⊙ "	"	1949870	"
*9000560.....	"	"	†	1923517	□	□	"	⊙ "	"	"	"
9000561.....	1927980	1953902	1933239	"	□			⊙ "	"	1952049	"
9000562.....	1944745	1931887	1951033	1939620	□	□	"	⊙ "	"	1944749	"
*9000566.....	1957739	"	1933239	1923517	□	□	"	⊙ "	"	1958012	"
9000567.....	"	"	"	"	□	□	"	⊙ "	1959997	"	"
9000568.....	1944745	"	"	"	□	□	"	⊙ "	"	"	"
9000574.....	"	"	1951033	1939620	□	□	"	⊙ "	1957736	1949870	"
9000580.....	"	"	1933239	1923517	□	□	"	⊙ "	"	1960571	"
9000581.....	1948839	"	"	"	□	□	"	⊙ "	"	"	"
9000582.....	1944745	"	1944223	"	□	□	"	⊙ "	"	1960570	"
9000583.....	"	"	†	"	□	□	"	⊙ "	"	"	"
9000584.....	"	"	1951033	1939620	□	□	"	⊙ "	"	1960571	"
9000585.....	1957739	"	1933239	1923517	□	□	"	⊙ "	"	1960565	"
9000586.....	"	"	"	"	□	□	"	⊙ "	1959997	"	"
9000587.....	"	"	1951033	1939620	□	□	"	⊙ "	1957736	1960570	"
9000595.....	"	1964030	1933239	1923517	□	□	"	⊙ "	1959997	1958012	"
9000598.....		1953902	"	"	□			"	1950882		"

† Part No. 1933239 for Relay; Part No. 1944223 for Regulator.

• 2 required.

* Units which have been modified for radio suppression have the following service parts not illustrated:

1958200 Choke Coil
1940361 Nut—Choke Coil Mounting
453844 Lock Washer—Choke Coil Nut
1917580 Condenser

RESISTOR CHART

Part No.	Value in Ohms
1911515	5
1911516	10
1952589	30
1955677	55
1910175	100

Part No.	Value in Ohms
1910178	200
1910179	300 (Wire Wound)
1953365	300 (Insulator Type)
1958886	1000

MINOR PARTS SECTION

NOTE: Most screws, bolts, nuts, lockwashers, woodruff keys, and cotter pins are Standard Hardware items and are not available from Delco-Remy. Refer to Standard Hardware sheets in catalog miscellaneous section for dimensions and description.

Illus. No.	Name	Part No.	Used on Models
LOCKWASHERS			
—	Lockwasher—Coil—Choke Attaching -----	453844	9000574; 80-1-2-3-5-7
12	Lockwasher—Contact Support Attach. Screw -----	1878505	9000552-4-8; 60-1-6-7-8; 80-1-2-3-5-6; 95-8
13	Lockwasher—Transistor Attaching Screw -----	456413	9000552-4-8; 60-1-2-6-7-8; 74; 80-1-2-3-4-5-6-7; 95
NUTS			
—	Nut—Sealing—Coil—Choke Attaching -----	1940361	9000574; 70-1-2-3-5-7
—	Nut—Sealing—Transistor Attaching, Screw -----	1961736	9000595
—	Nut—Transistor Attaching Screw -----	134530	9000558; 60-6-7-8; 74; 82-3-5-6-7; 95
SCREWS			
—	Screw—Adjusting—Relay Armature -----	1912159	9000561; 98
14	Screw—Contact Support Attaching -----	1878516	9000552-4-8; 60-1-6-7-8; 80-1-2-3-5-6; 95-8
14	Screw—Contact Support Attaching -----	1943854	9000562; 74; 84-7
15	Screw—Cover -----	1927982	9000561; 98
15	Screw—Cover Attaching -----	1943386	9000552-4-8; 60-2-6-7-8; 74; 80-1-2-3-4-5-6-7; 95
16	Screw—Terminal (#8-32) -----	453418	9000554; 61; 81; 98
16	Screw—Terminal (#10-32) -----	1914800	9000552-4-8; 60-1-2-6-7-8; 74; 80-1-2-3-4-5-6-7; 98
17	Screw—Transistor Attaching -----	9420682	9000588; 60-6-7-8; 74; 82-3-5-6-7-8; 95
17	Screw—Transistor Attaching -----	145191	9000552-4; 61-2; 80-1-4
17	Screw—Transistor Attaching -----	9413245	9000595
WASHERS			
—	Washer—Bushing—Transistor Attaching Screw ---	1904600	9000558; 60
18	Washer—Insul.—Contact Support Attaching Screw.	1878507	9000552-4-8; 60-1-6-7-8; 80-1-2-3-5-6; 95-8
18	Washer—Insul.—Contact Support Attach. Screw ---	1922996	9000562; 74; 84
—	Washer—Ins. Cover Screw -----	1935031	9000561; 98
—	Washer—Plain—Transistor attaching Screw -----	1951188	9000558; 74; 80-1-2-3-4-5-6-7; 95
—	Washer—Transistor Attaching Screw -----	1956958	9000566-7-8; 74; 82-3-5-6-7
—	Washer—Plain—Transistor Attaching -----	1918848	9000560-6-7-8; 83-5-6
MISCELLANEOUS			
—	BUSHING—Ins. Reg. Contact Attach. Screw -----	1922599	9000561; 98
—	BUSHING—Insul.—Transistor Attaching Screw ---	1941972	9000558; 60; 74; 83-7; 95
—	BUSHING—Insul.—Transistor Attaching Screw ---	1951507	9000560; 83
19	CLAMP—Terminal (#8 hole) -----	1868137	9000554; 61; 81; 98
19	CLAMP—Terminal (#10 hole) -----	1878503	9000552-4-8; 60-6-7-8; 74; 80-1-2-3-5-6-7; 98
—	COIL—Choke -----	1958200	9000552-4-8; 60-2-6; 74; 80-1-2-3-5-7
—	CONNECTOR—Field Terminal -----	1944972	9000558; 60; 83
—	GASKET—Transistor Attaching -----	1958970	9000552-4-8; 60-1-2-6-7-8; 74; 80-1-2-3-4-5-6-7
—	GASKET—Transistor Attaching -----	1961735	9000595
20	INSULATOR—Contact Support -----	1922599	9000552-4-8; 60-1-2-6-7-8 80-1-2-3-4-5-6-7; 95
20	INSULATOR—Contact Support -----	1939659	9000562; 74; 84-7
—	INSULATOR—Mica—Transistor -----	1962390	9000558; 60-6-7-8; 74; 82-3-5-6-7; 95
—	LEAD—Collector Nut to Insul. Base Washer -----	1949478	9000566
—	LEAD—Rectifier to Transistor -----	1958758	9000586; 95
—	LEAD—Transistor to Battery Terminal -----	1951508	9000560; 83
—	LEAD—Transistor & Volt. Reg. -----	1949478	9000558; 60; 83-5
—	LEAD—Transistor to Voltage Regulator -----	1959632	9000574
—	LEAD—Transistor to Contact Support -----	1937998	9000566
—	RESISTOR—Back Bias (Coil #22 Resistance Wire)	1952578	9000562; 74; 84-7
—	RESISTOR—Back Bias (Coil #19 Resistance Wire)	1957233	9000566-7-8; 85-6; 95
—	SLEEVE—Cover Screw -----	1927979	9000561; 98

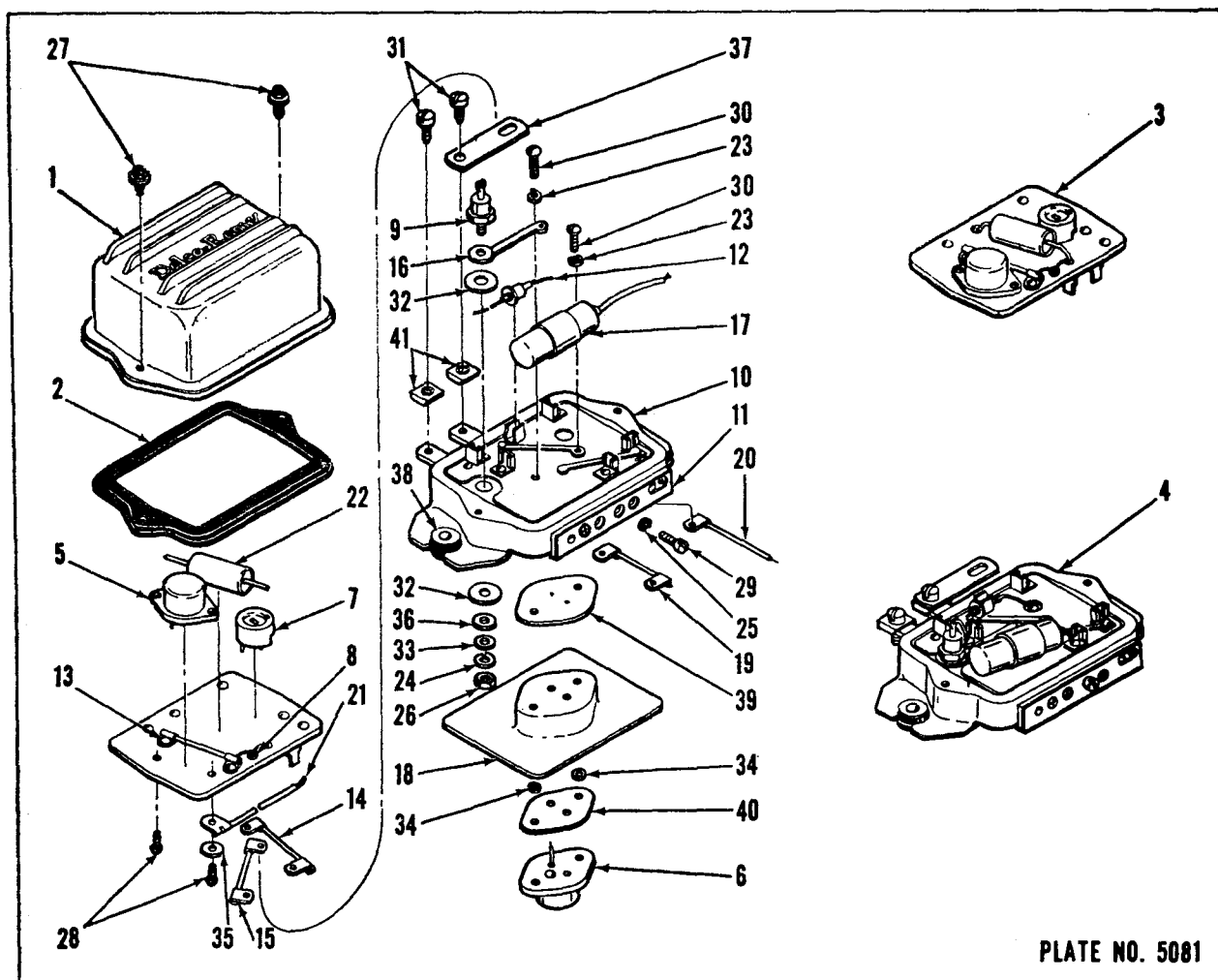


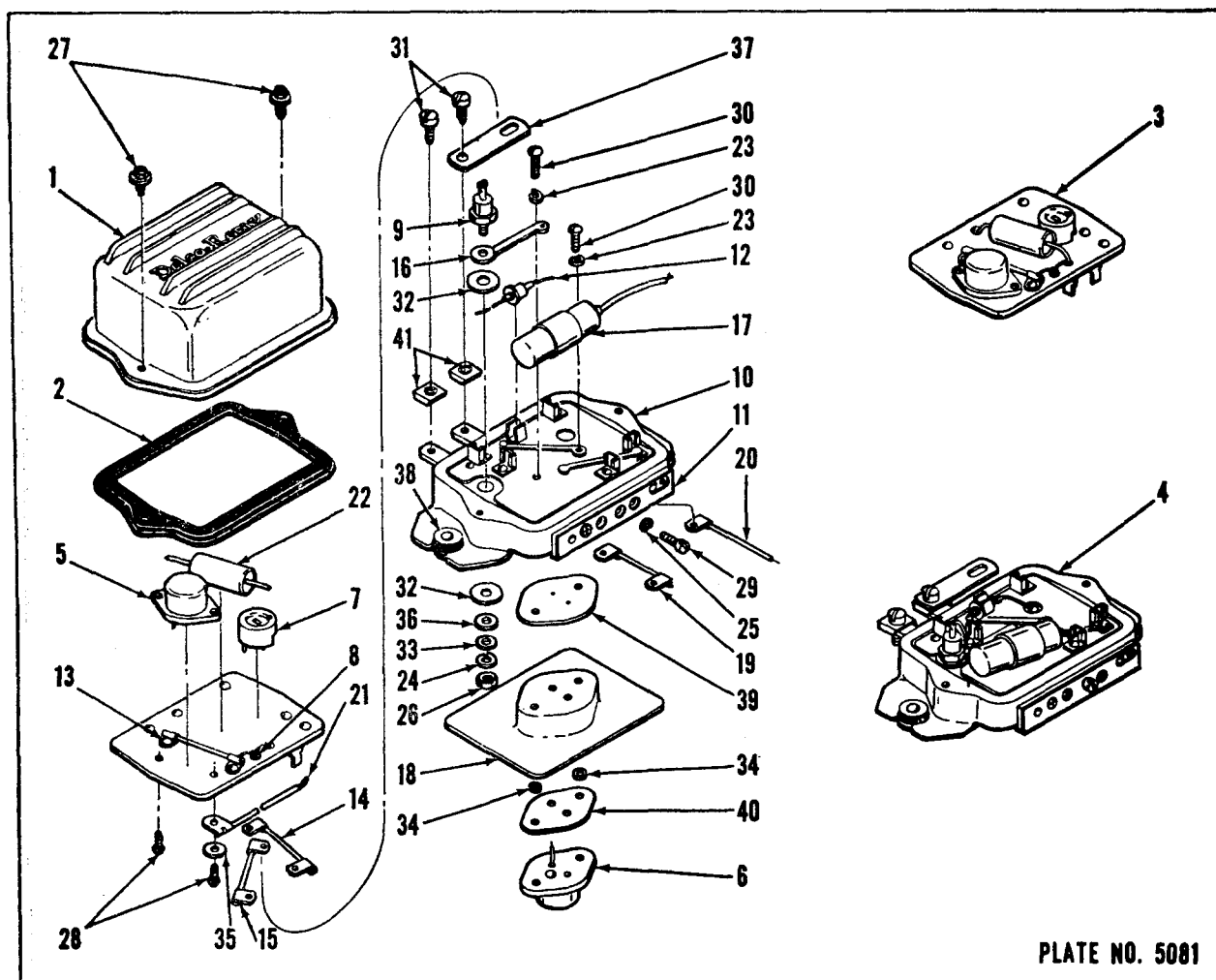
PLATE NO. 5081

Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

Model No.	Cover	Gasket — Cover	Panel — Assem.	Base — Assem.	Transistor — Driver	Transistor — Power	Poten- tiometer	Diode — Zener	Diode — Silicon	Base — Sub- Assem.	Resist- ance — Assem.
	1	2	3	4	5	6	7	8	9	10	11
9000553.....	1946501	1931887	1946502	1946513	1941464	1957736	1961562	1956197	1942831	1946526	x1948368
9000555.....	"	"	1948968	1948964	"	"	1962364	"	"	1948965	x1950280
9000556.....	"	"	1948956	1948958	"	"	"	"	"	1948961	x1950281
9000557.....	"	"	1949305	1949304	"	"	"	"	"	1949303	x1950282
9000575.....	1931866	"	1959271	1960562	"	1957736	1961562	"	"	1960563	x1959885
9000576.....	"	"	1959235	1960561	"	"	1962364	"	"	1960560	x1959886
9000577.....	"	"	1959283	1960579	"	"	"	"	"	1960580	x1959884
9000578.....	"	"	1959277	1960596	"	"	"	"	"	1960597	x1959883
9000579.....	"	"	1959271	1960602	"	"	1961562	"	"	1960603	x1959885

xPackage for Servicing Step Voltage Resistance.

Delco-Remy SERVICE PARTS CATALOG



Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

Model No.	Diode — Silicon	*Resistor	*Resistor	*Resistor	Connector	Capaci- tor	Plate	*Resistor	Lead	Lead	Capaci- tor
	12	13	14	15	16	17	18	19	20	21	22
9000553.....	†1946850	1885296	1910174	1885297	1946520	1946624	1946525	x1885300	1961800	1946512	1946454
9000555.....	†"	"	"	1910177	"	"	"	x1910179	"	"	"
9000556.....	†1948959	"	"	1910178	"	"	"	x1948960	"	"	"
9000557.....	†"	"	"	1949301	"	"	"	x	"	"	"
9000575.....	†1946850	1956235	"	1885297	"	"	1960565		"	"	"
9000576.....	"	1956237	"	1910177	"	"	"		"	"	"
9000577.....	1948959	1956238	"	1910178	"	"	"		"	"	"
9000578.....	"	"	"	1949301	"	"	"		"	"	"
9000579.....	1944746	1956235	"	1885297	"	"	"		"	"	"

† Two required.

* Later units used two resistors in parallel for illus. #19. For these order as follows:

*** RESISTOR CHART**

Part No.	Value In Ohms	Part No.	Value In Ohms
1885297	15	1910180	375
1885300	80	1910182	500
1910174	65	1956235	50
1910177	150	1956237	200
1910178	200	1956238	250
1910179	300		
1946505	30		
1948960	350		
1949301	225		
1910175	100		

For Model No.	Order	Resistor No. (2 Req'd)
9000553		1910175
9000555		1910180
9000556-7		1910182

Parts not listed in this Catalog will not be sold separately.

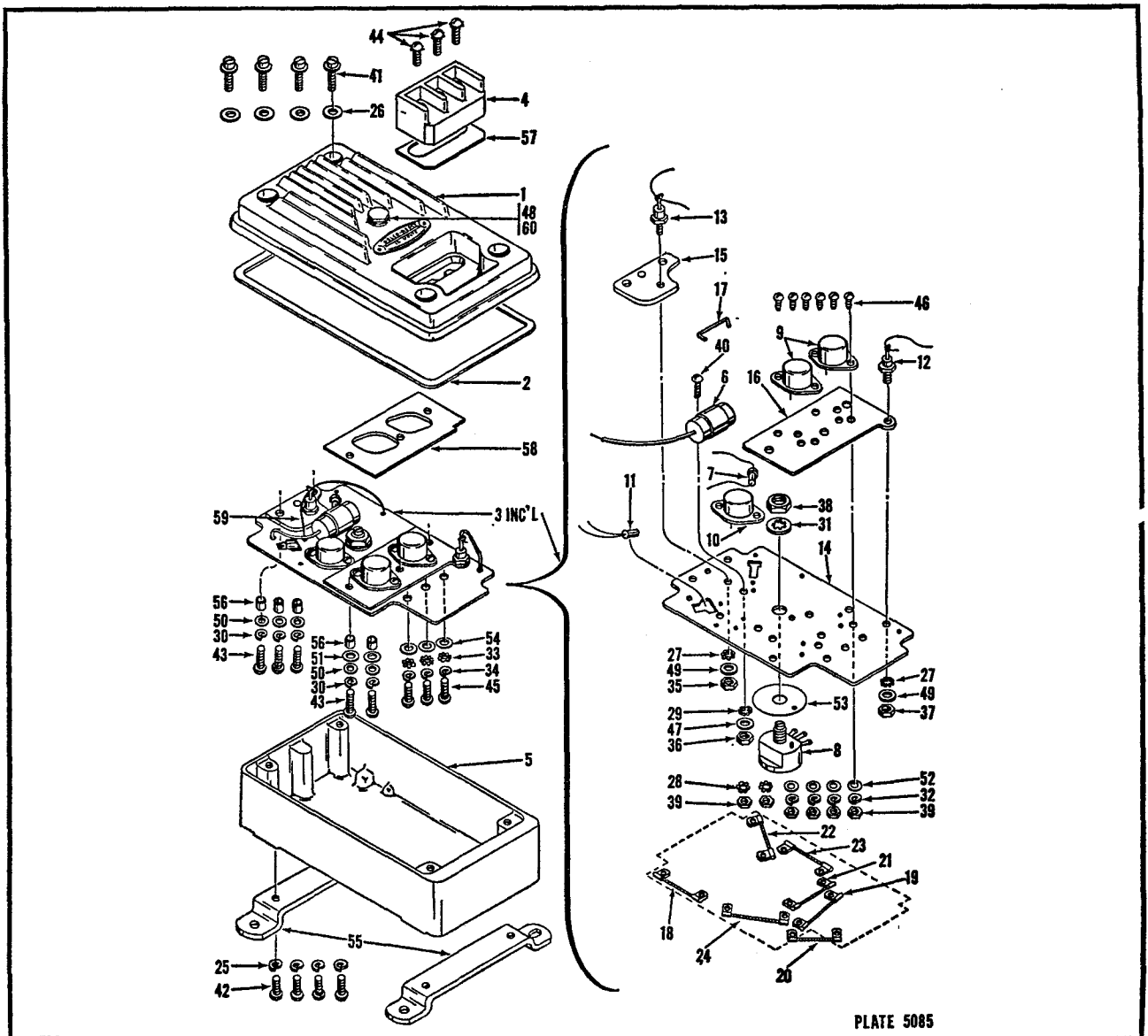
MINOR PARTS SECTION

NOTE: Most screws, bolts, nuts, lockwashers, woodruff keys, and cotter pins are Standard Hardware items and are not available from Delco-Remy. Refer to Standard Hardware sheets in catalog miscellaneous section for dimensions and description.

Illus. No.	Name	Part No.	Used on Models
LOCK WASHERS			
—	Lock Washer—Cover Attaching Screw -----	453844	9000553-5-6-7
*23	Lock Washer—Power Transistor Attach. Screw #8 -	453844	9000553-5-6-7
23	Lockwasher—Power Transistor Attaching Screw --	456413	900075-6-7-8-9
24	Lock Washer—Silicon Diode Attach. Nut -----	453435	9000553-5-6-7
NUTS			
—	Nut—Power Transistor Attaching -----	134530	9000575-6-7-8-9
26	Nut—Silicon—Diode Attaching -----	453433	9000553-5-6-7
26	Nut—Silicon—Diode Attaching -----	1959241	9000575-6-7-8-9
SCREWS			
27	Screw—Cover Attaching (8/16 Hex) -----	1943386	9000575-6-7-8-9
27	Screw—Cover Attaching ($\frac{3}{16}$ round) -----	9413296	9000553-5-6-7; 75-6-7-8-9
28	Screw—Driver Transistor Attaching -----	9413296	9000553-5-6-7; 75-6-7-8-9
—	Screw—Ground -----	1943386	All
29	Screw—Step Voltage -----	453418	9000553-5-6-7; 75-6-7-8-9
30	Screw—Power Transistor Attaching -----	9420682	9000575-6-7-8-9
*30	Screw—Power Transistor Attaching #8-32 -----	9413319	9000553-5-6-7
31	Screw—Terminal -----	1914800	9000553-5-6-7; 75-6-7-8-9
WASHERS			
32	Washer—Insul. Silicon Diode ($\frac{1}{4}$ O.D.) -----	1946521	9000553-5-6-7; 75-6-7-8-9
33	Washer—Insul. Silicon Diode ($\frac{1}{4}$ O.D.) -----	23915	9000553-5-6-7
33	Washer—Insul. Silicon Diode ($\frac{1}{4}$ O.D.) -----	1959242	9000575-6-7-8-9
*34	Washer—Insul.—Power Transistor ($\frac{3}{16}$ D.) -----	1904600	9000553-5-6-7
34	Washer—Insul.—Power Transistor ($\frac{3}{16}$ O.D.) -----	1956958	9000575-6-7-8-9
35	Washer—Plain—Driver Transistor Attaching Screw	815540	9000553-5-6-7; 75-6-7-8-9
—	Washer—Plain—Power Transistor Attaching -----	1918848	9000575-6-7-8-9
36	Washer—Plain—Silicon Diode Attaching Nut -----	807234	9000553-5-6-7; 75-6-7-8-9
—	Washer—Plain—Step Voltage Screw -----	807218	All
MISCELLANEOUS			
37	CONNECTOR—Gen. F-2 to Ground -----	1944972	9000553-5-6-7
—	CLIP—Ground Screw -----	1855978	All
—	CUP—Cover Screw Seal -----	1904033	9000575-6-7-8-9
—	CUP—Cover Screw Seal -----	1916096	9000553-5-6-7
—	GASKET—Power Transistor (Rubber) -----	1958970	9000575-6-7-8-9
38	GROMMET—Mounting -----	1879663	9000553-5-6-7; 75-6-7-8-9
*39	INSULATOR—Power Transistor ($\frac{1}{8}$ thick) -----	1946523	9000553-5-6-7
40	INSULATOR—Mica—Power Transistor -----	7274776	9000553-5-6-7; 75-6-7-8-9
41	LOCK CLIP—Terminal -----	1878503	9000553-5-6-7; 75-6-7-8-9
—	RESISTOR—Feed Back -----	1946533	9000553-5-6-7

* Later units used #6-32 Machine Screw and mating parts (for attaching Power Transistor). For these units order as follows:

Illus. No.	Name	Part No.
30	Screw #6-32	436666
—	Nut #6-32	134530
23	Lock Washer #6	456413
34	Washer	1956958
—	Plain Washer	824654



Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

Model No.	Cover	Gasket — Cover	Panel — Assem.	Block — Term.	Base	Capaci- tor — Feed Back	Capaci- tor — Filter	Potenti- ometer	Tran- sistor — Power	Tran- sistor — Driver	Diode — Zener	Diode — Field Dis- charge
	1	2	3	4	5	6	7	8	9	10	11	12
9000551.....	1941485	1941482	1941463	1949471	1963305	1941391	1962674	1941477	1966079	†1961479	1956197	1942831
9000559.....	"	"	1951144	1951143	"	"	"	"	"	"	"	"
9000573.....	1959131	"	1959135	1959132	"	"	"	"	"	"	"	"
9000597.....	1941485	"	1963309	1949471	"	"	"	1963311	1962323	"	"	"

† Bias Resistor (Illus. #18) must be 30 ohm. Part No. 1885296 when Driver Transistor 1961479 is used.

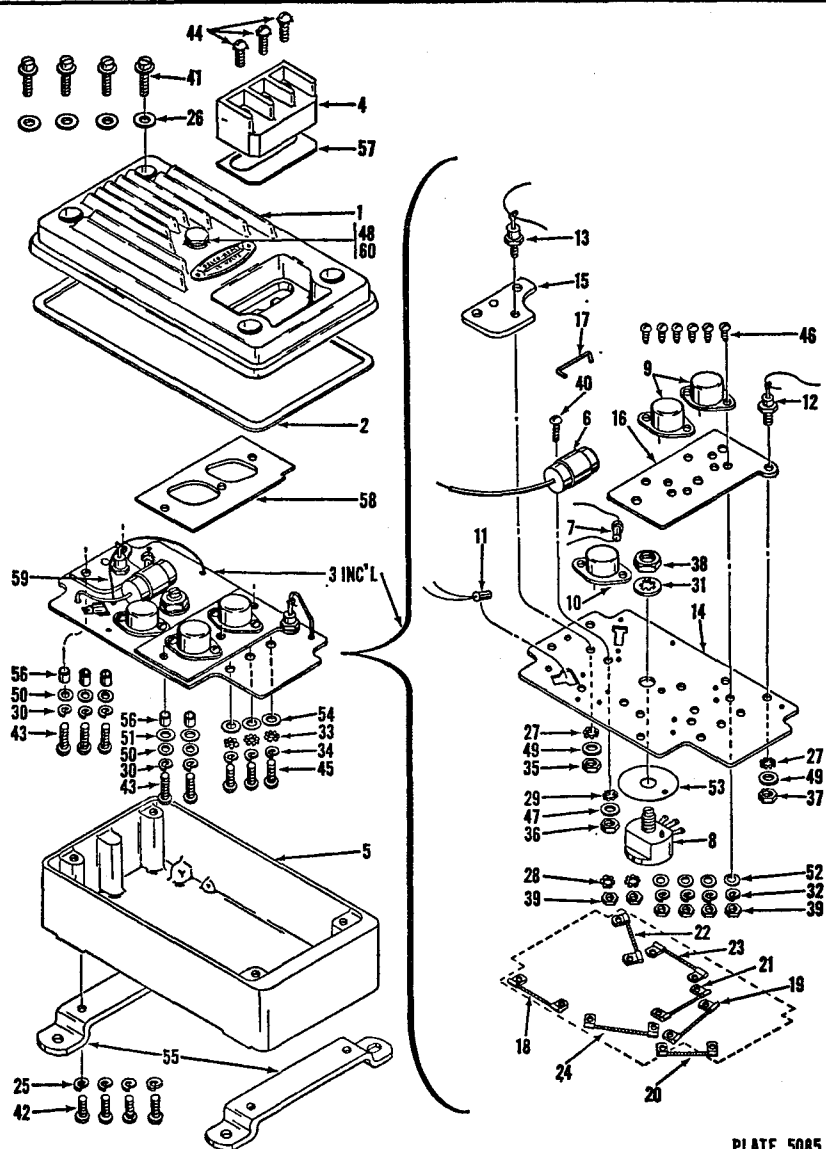


PLATE 5085

Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

Model No.	Diode — Back Bias	Circuit — Printed	Plate — Diode	Plate — Trans- istor	Resistor Feed Back	Resistor	Resistor	Resistor	Resistor	Resistor	Resistor	Resistor
	13	14	15	16	17	18	19	20	21	22	23	24
9000551.....	1942831	1941468	1942830	1941467	1941471	*1885296	1911515	1912745	1910179	1910174	1967027	1911515
9000559.....	"	1951147	1951148	"	"	"	"	"	"	"	"	"
9000573.....	"	1959136	1942830	"	"	"	"	"	"	"	"	"
9000597.....	"	1941468	"	"	"	1910175	1911516	1956236	"	"	1910177	1911516

* Must use 1885296 (30 ohm) with 1961479 Driver Transistor. If Transistor in unit is 1941464 and not being replaced, use 1910179 Resistor (300 ohm).

MINOR PARTS SECTION

NOTE: Most screws, bolts, nuts, lockwashers, woodruff keys, and cotter pins are Standard Hardware items and are not available from Delco-Remy. Refer to Standard Hardware sheets in catalog miscellaneous section for dimensions and description.

Illus. No.	Name	Part No.	Used on Models
LOCK WASHERS			
25	Lock Washer—Bracket Attaching Screw -----	453435	9000551-9; 97
—	Lock Washer—Condenser Attach. to Bracket -----	456413	9000573
—	Lock Washer—Connector Attaching Screw -----	9421421	9000573
26	Lock Washer—Cover Attaching Screw -----	1941483	9000551; 97
26	Lock Washer—Cover Attaching Screw -----	138479	9000559
27	Lock Washer—Diode Attaching Nut -----	138479	9000551-9; 73; 97
27	Lock Washer—Diode Attaching Nut -----	453474	9000559
28	Lock Washer—Driver Transistor Attaching Screw -----	455714	9000551-9; 73; 97
29	Lock Washer—Capacitor Attaching Screw -----	138479	9000551-9; 73; 97
29	Lock Washer—Capacitor Attaching Screw -----	453474	9000559
—	Lock Washer—Housing—Relay Attaching -----	453844	9000573
30	Lock Washer—Panel Attaching Screw -----	453844	9000551-9; 73; 97
—	Lock Washer—Panel Attach. Screw (External Tooth) -----	9416033	9000559
31	Lock Washer—Potentiometer Attaching Nut -----	138545	9000551-9; 73; 97
32	Lock Washer—Power Transistor Attaching Screw -----	456413	9000551-9; 73; 97
—	Lock Washer—Relay Attach. to Base (#8) -----	453844	9000573
—	Lock Washer—Relay Attach. to Base (1/4) -----	9421423	9000573
—	Lock Washer—Relay Lead Attach. -----	138530	9000573
33	Lock Washer—Terminal Block Attaching Screw (External Tooth) -----	138479	9000551-9; 73; 97
34	Lock Washer—Terminal Block Attaching Screw (Spring Type) -----	453435	9000551-9; 73; 97
NUTS			
35	Nut—Back Bias Diode Attaching -----	453281	9000551-9; 73; 97
36	Nut—Capacitor Attaching Screw -----	453284	9000551-9; 73; 97
37	Nut—Field Discharge Diode Attaching -----	453433	9000551-9; 73; 97
38	Nut—Potentiometer Attaching -----	1949161	9000551-9; 73; 97
—	Nut—Relay Attach. to Base (1/4-20) -----	120375	9000573
—	Nut—Relay Attach. to Base (8-32) -----	120622	9000573
39	Nut—Transistor Attaching Screw -----	455483	9000551-9; 73; 97
SCREWS			
40	Screw—Capacitor Attaching -----	453468	9000551-9; 73; 97
—	Screw—Condenser—Attach. to Bracket -----	454458	9000573
—	Screw—Condenser Bracket to Cover -----	453461	9000573
—	Screw—Connector Attaching -----	132631	9000573
41	Screw—Cover Attaching -----	1941484	9000551-9; 73; 97
—	Screw—Housing—Relay—Attaching -----	453804	9000573
42	Screw—Mtg. Bracket Attaching -----	453464	9000551-9; 97
43	Screw—Panel Attaching -----	454155	9000551-9; 73; 97
43	Screw—Circuit Ground to Cover -----	454155	9000559
44	Screw—(& Lock Washer)—Terminal (#10-32x3/8) -----	274937	9000551-9; 73; 97
44	Screw—(& Lock Washer)—Terminal (1/4-20x3/8) -----	9411511	9000559
—	Screw—Relay Attach. to Base (1/4-20- ¹¹ / ₁₆) -----	455576	9000573
—	Screw—Relay Attach. to Base (³ / ₁₆ x ¹ / ₁₆) -----	454408	9000573
—	Screw—Relay Lead Attaching -----	453461	9000573
45	Screw—Terminal Block Attaching -----	453464	9000551-9; 73; 97
46	Screw—Transistor Attaching -----	9420682	9000551-9; 73; 97
WASHERS			
47	Washer—Plain—Capacitor Attaching Screw -----	813767	9000551-9; 73; 97
48	Washer—Plain—Cover—Plug -----	1949162	9000551-9; 73; 97
49	Washer—Plain—Diode Attaching Nut -----	813767	9000551-9; 73; 97
50	Washer—Plain—Panel Attaching Screw -----	810794	9000551-9; 73; 97
—	Washer—Condenser Bracket to Cover -----	1922996	9000573
—	Washer—Cover Screw (Inside) -----	1906812	9000573
51	Washer—Insul.—Panel Attaching Screw -----	1933324	9000551-9; 73; 97
52	Washer—Plain—Transistor Attaching -----	1918848	9000551-9; 73; 97
53	Washer—Insul.—Potentiometer -----	1941475	9000551-9; 73; 97
54	Washer—Plain—Terminal Block Attaching Screw -----	1914741	9000551-9; 73; 97
—	Washer (Nylon)—Cover Screw -----	1941483	9000559; 73
—	Washer—Relay Attach. to Base (8-32) -----	1922996	9000573
—	Washer—Relay Attach. to Base (1/4) -----	1959119	9000573
MISCELLANEOUS			
—	BRACKET—Condenser -----	1959117	9000573
55	BRACKET—Mounting -----	1941822	9000551-9
56	BUSHING—Insul.—Panel Attaching Screw -----	1864279	9000551-9; 73; 97

Parts not listed in this Catalog will not be sold separately.

MINOR PARTS SECTION

Illus. No.	Name	Part No.	Used on Models
	MISCELLANEOUS—(Continued)		
—	CLIP—Soldering	1951502	9000559
—	CONDENSER—Field	1959120	9000573; 97
—	CONDENSER—Switch	1959121	9000573
—	CONNECTOR—Field	1959130	9000573
—	CONNECTOR—Switch	1959129	9000573
—	DIODE (Silicon)—Under Panel	1946850	9000559
—	GASKET—Cover Screw	1906812	9000559
—	GASKET—Field Connector	1959127	9000573
—	GASKET—Relay to Condenser Housing	1959133	9000573
—	GASKET—Switch Connector	1959128	9000573
57	GASKET—Terminal Block	1942826	9000551-9; 73; 97
58	INSULATOR—Transistor	1941466	9000551-9; 73; 97
—	INSULATOR (2 hole)—Panel Screw	1942829	9000551-9; 73; 97
59	LEAD—In Panel	1941472	9000597
59	LEAD—In Panel	1966080	9000551-9; 73
—	LEAD—Jumper (To Illus. 20 Resistor)	1951198	9000559
—	LEAD—Relay to Condenser	1918962	9000573
—	LEAD—Relay to Regulator	1959118	9000573
60	PLUG—Adjustment Cover	1925919	9000551-9; 73; 97
—	RECTIFIER	1944746	9000573
—	RELAY Assem.	1959122	9000573
—	RESISTOR (100 ohm ½ watt)	1953364	9000559
—	RESISTOR (150 ohm 2 watt)	1951919	9000559
—	SPRING—Field Shut Off Transistor	1951503	9000559
—	TRANSISTOR—Field Shut Off	1951146	9000559

Revised to July 1, 1968

Delco Remy

SERVICE PARTS CATALOG

REGULATOR—Group 16
Models 9000590-1-2-3
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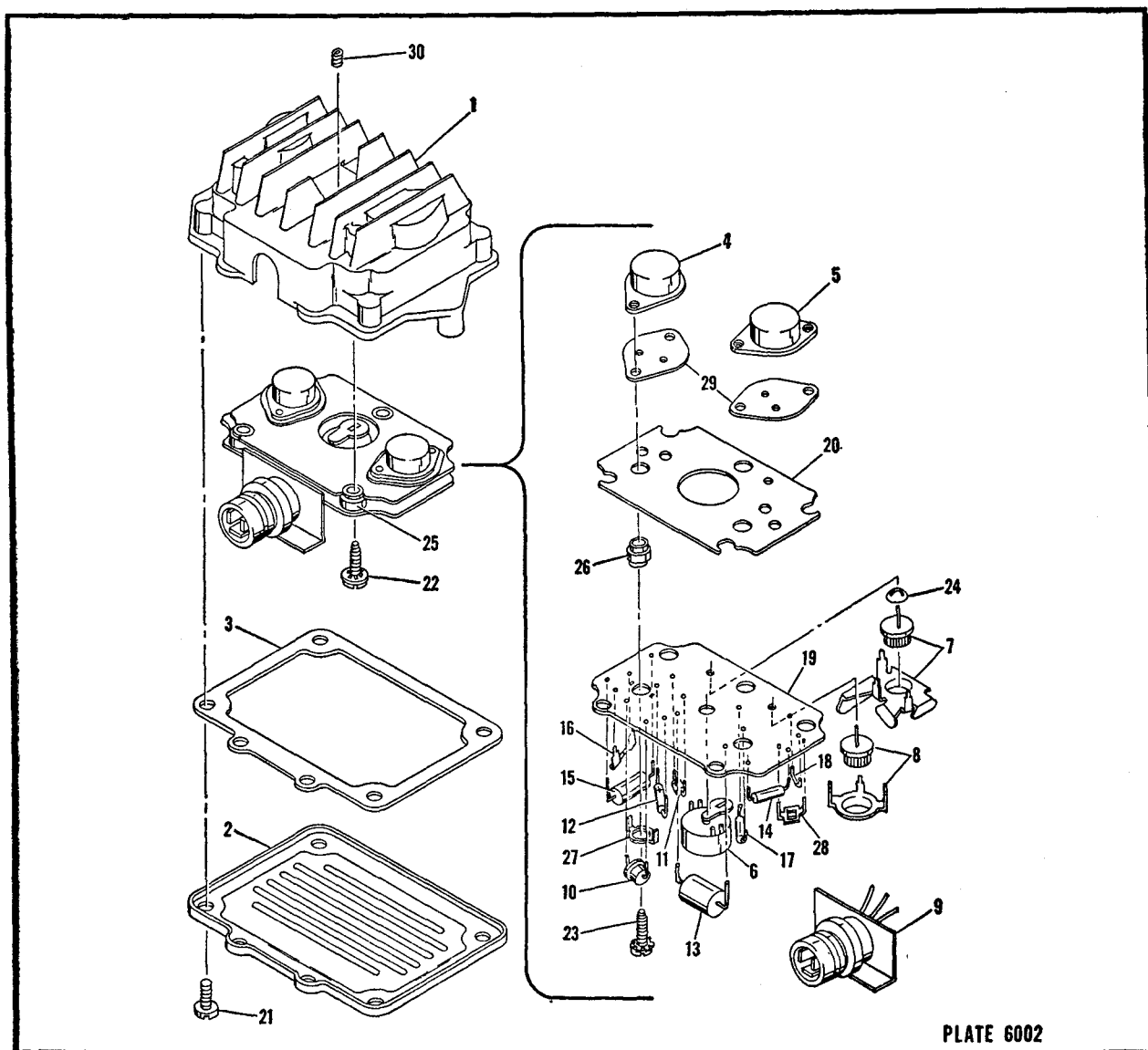


PLATE 6002

Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

Model No.	Housing	Plate — Base Cover	Gasket	Transistor — Driver	Transistor — Power	Potenti- ometer	Diode & Heat Sink — Back Bias	Diode & Heat Sink — Field Discharge	Connector	Diode — Silicon
	1	2	3	4	5	6	7	8	9	10
9000590.....	1961571	1961574	1962035	1961479	1961480	1961562	1962585	1961952	2982445	#1946850
9000591.....	"	"	"	"	1962323	1962364	"	"	2983229	"
9000592.....	"	"	"	"	"	"	"	"	2983250	"
9000593.....	"	"	"	"	"	"	"	"	2983249	"

*Later production use 1967813.

Delco Remy SERVICE PARTS CATALOG

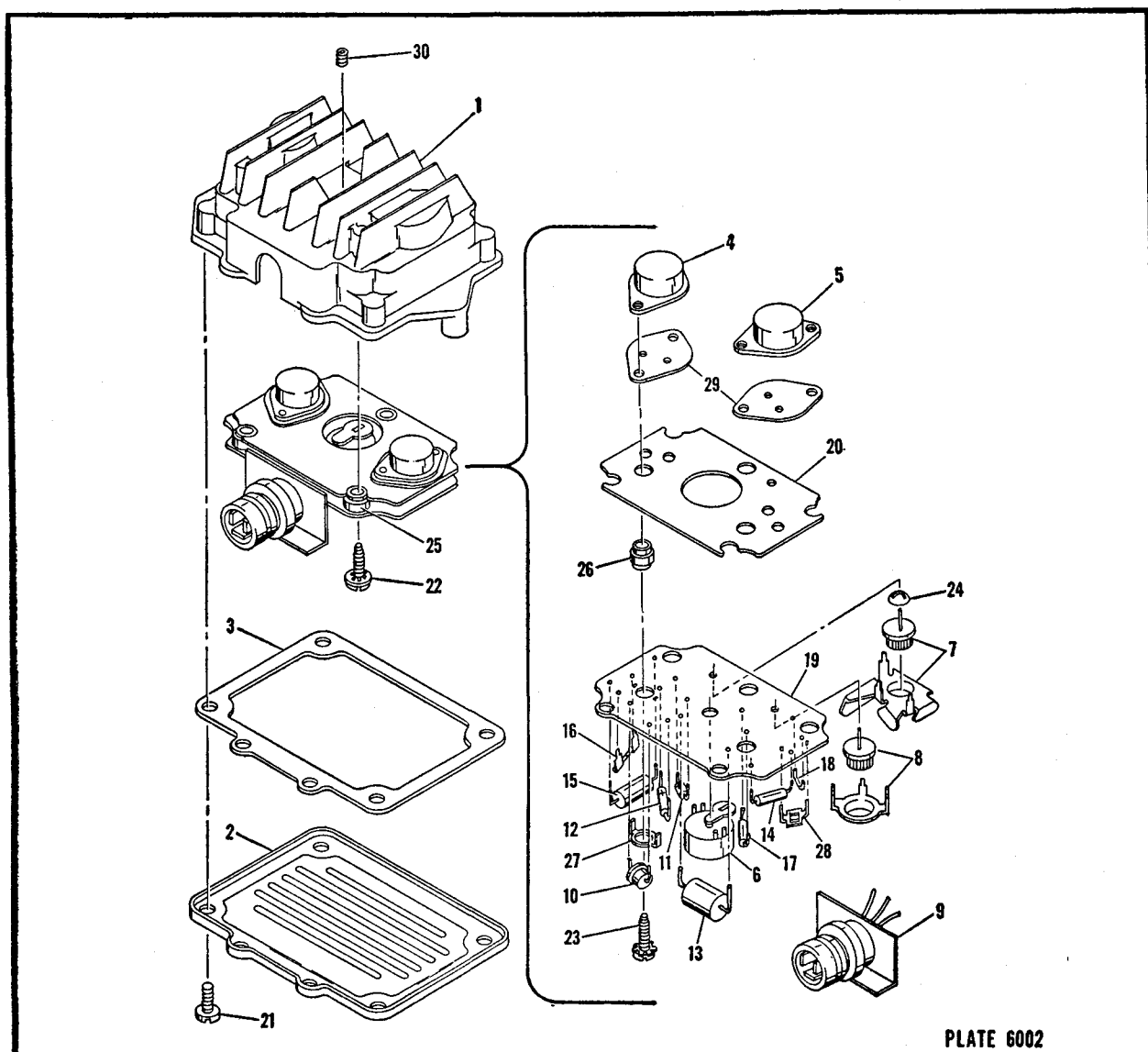


PLATE 6002

Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

Model No.	Diode — Zener	Capacitor	Capacitor	Resistor	Resistor	Resistor	Resistor	Lead	Circuit — Printed	Plate — Heat Dissipating
	11	12	13	14	15	16	17	18	19	20
9000590.....	1956197	1961559	1961560	1961553	1961554	1961556	1963143	1961561	1961560	1961568
9000591.....	"	1962674	"	1962362	1962363	"	"	"	"	"
9000592.....	"	"	"	1962398	1962399	"	"	"	"	"
9000593.....	"	"	"	1962402	1962403	"	"	"	"	"

RESISTOR CHART

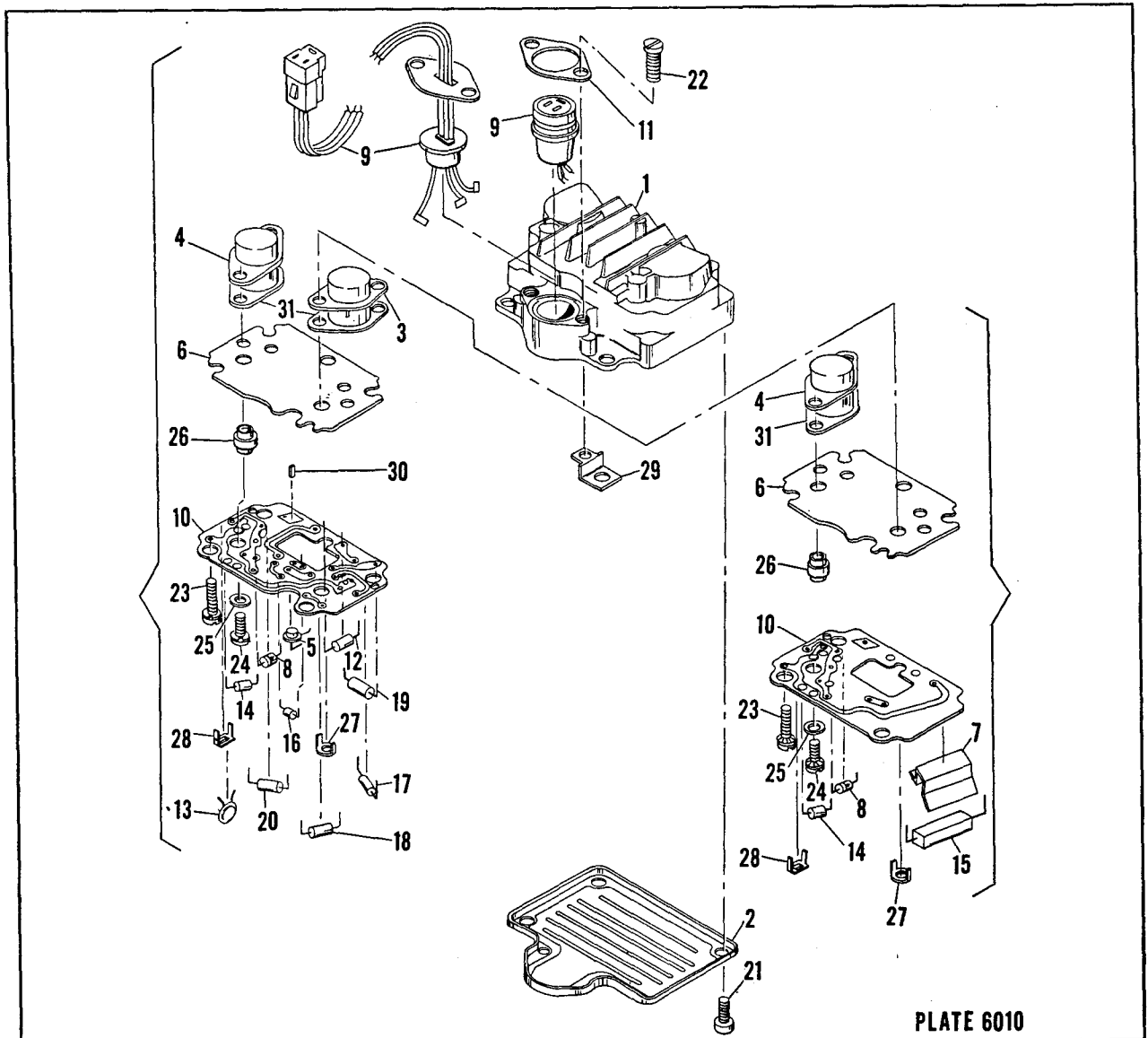
PART No.	VALUE IN OHMS	PART No.	VALUE IN OHMS
1961553.....	22	1962398.....	200
1961554.....	50	1962399.....	300
1961556.....	30	1962402.....	220
1962362.....	165	1962403.....	325
1962363.....	135	1963143.....	62

Parts not listed in this Catalog will not be sold separately.

MINOR PARTS SECTION

NOTE: Most screws, bolts, nuts, lockwashers, woodruff keys, and cotter pins are Standard Hardware items and are not available from Delco-Remy. Refer to Standard Hardware sheets in catalog miscellaneous section for dimensions and description.

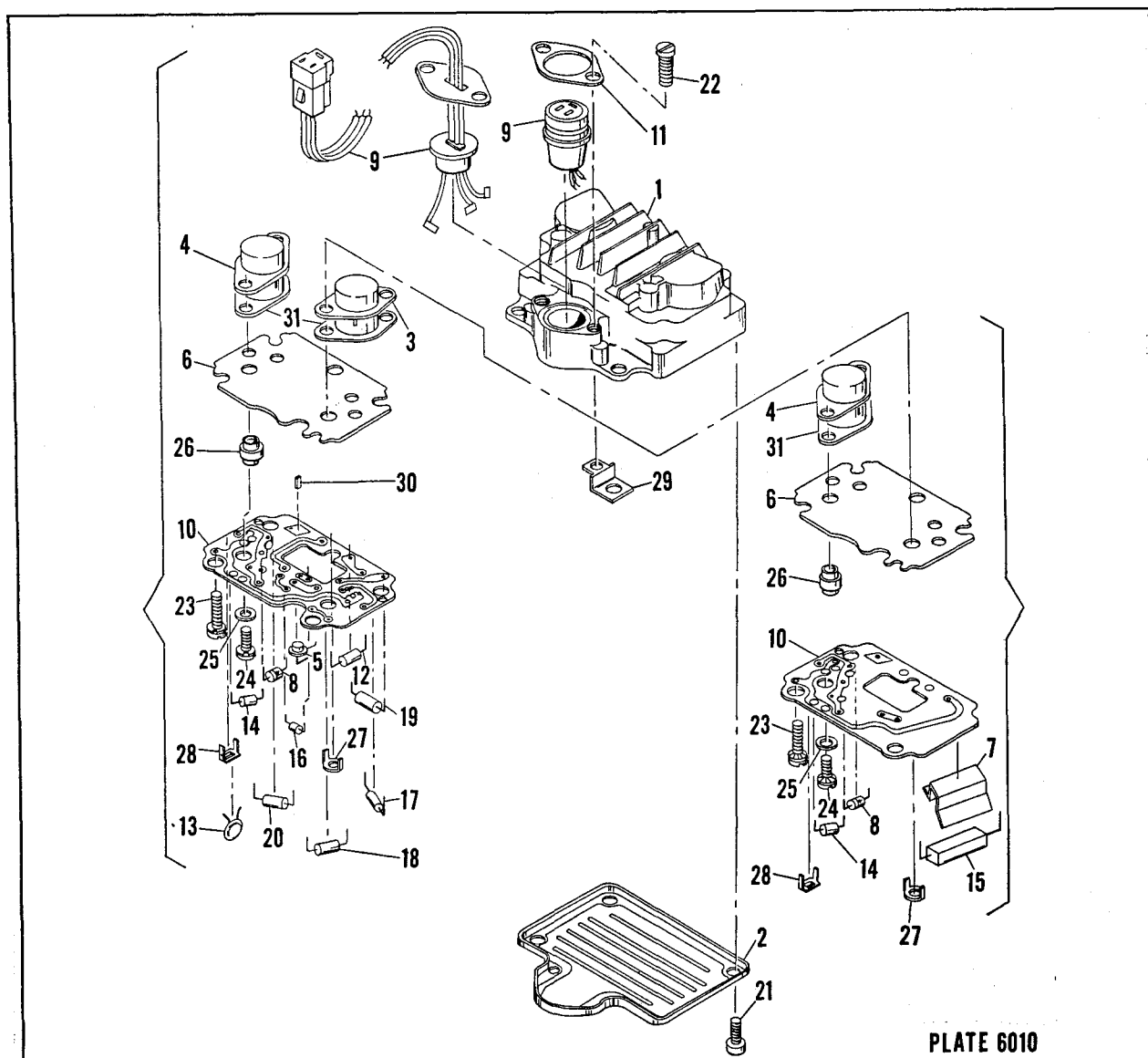
Illus. No.	Name	Part No.	Used On
	SCREWS		
21	Screw—Base Cover Plate Attaching -----	454408	All
22	Screw—Panel Attaching -----	1961565	All
23	Screw—Transistor Attaching -----	1962389	All
	WASHERS		
24	Washer—Under Heat Sink -----	1962565	All
	MISCELLANEOUS		
25	BUSHING—Panel Attaching Screw -----	1961552	All
26	BUSHING—Transistor Attaching Screw -----	1961552	All
27	CLIP—Round -----	1962385	All
28	CLIP—Oblong -----	1960635	All
29	INSULATOR—Transistor -----	1962715	All
—	LEVER—Potentiometer Adjusting -----	1961569	All
30	PIPE PLUG -----	1961573	All



Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

Model No.	Housing	Plate — Base Cover	Transistor — Drive	Transistor — Output	Transistor — Trigger	Heat Sink	Heat Sink	Diode — Zener	Harness	Circuit — Printed
	1	2	3	4	5	6	7	8	9	10
1115002.....	*	1960625	1960584	1960632	1960643	*		1960642	2982411	1966816
1115003.....	*	"	"	"	"	*		"	2985115	"
1115005.....	*	"	"	"	"	*		"	2986672	1963865
1115006.....	*	"		"		*	1964660	"	"	1963886
1115007.....	*	"	1960584	"	"	*		"	1965251	1963865
1115008.....	*	"	"	"	"	*		"	1965260	"
1115343.....	*	"	"	"	"	*		"	800127	"

* Not serviced.



Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

Model No.	Clamp — Connector	Capaci- tor	Capaci- tor	Resistor	Resistor	Resistor	Resistor	Resistor	Resistor	Resistor
	11	12	13	14	15	16	17	18	19	20
1115002.....		1960483	1962104	1960640		1960638	1960639	1960641		
1115003.....		"	"	"		"	"	"		
1115005.....	1963877	"	"	"		"	"	"	1963873	1965254
1115006.....	"				1963887					
1115007.....		1960483	1962104	"		1960638	1960639	1960641	1963873	1965254
1115008.....		"	"	"		"	"	"	"	"
1115343.....	1963877	"	"	"		"	"	"	"	"

RESISTOR CHART

PART No.	VALUE IN OHMS	PART No.	VALUE IN OHMS
1960638	680	1963873	15
1960639	1,800	1963887	7½
1960640	10	1965254	150
1960641	15,000		

Parts not listed in this Catalog will not be sold separately.

MINOR PARTS SECTION

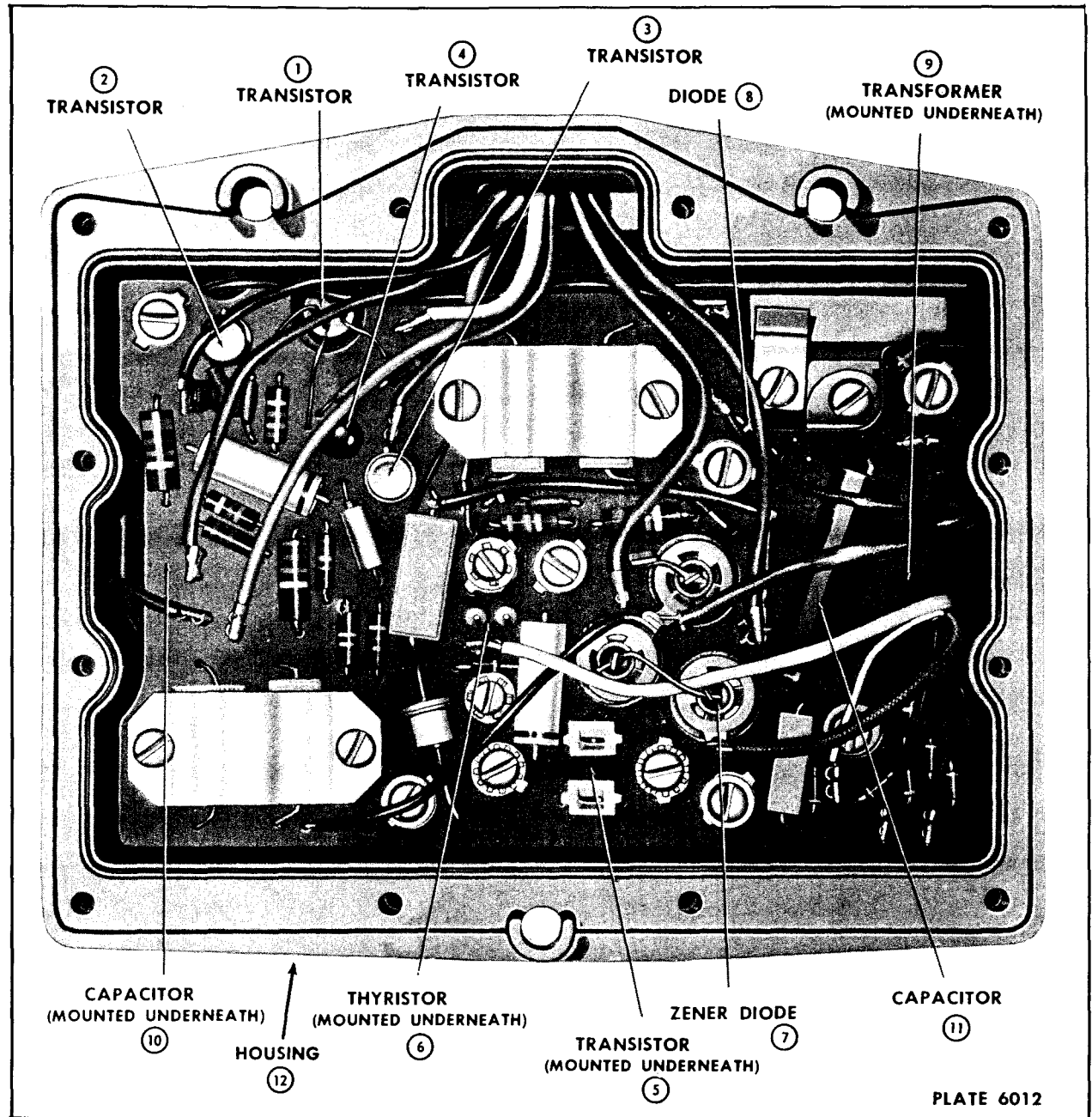
NOTE: Most screws, bolts, nuts, lockwashers, woodruff keys, and cotter pins are Standard Hardware items and are not available from Delco-Remy. Refer to Standard Hardware sheets in catalog miscellaneous section for dimensions and description.

Illus. No.	Name	Part No.	Used On
	SCREWS		
21	Screw—Base Plate Attaching -----	□ 454408	1115002-3-5-6-7-8; 343
22	Screw—Cable Attaching -----	□ 454408	1115002-3-5-6-7-8; 343
23	Screw (& Lockwasher)—Panel Attaching -----	1961565	1115002-3-5-6-7-8; 343
24	Screw (& Lockwasher)—Transistor Attaching -----	1961570	1115002-3-5-6-7-8; 343
	WASHER		
25	Washer—Plain—Transistor Attaching Screw -----	815540	1115005-6-7-8; 343
	MISCELLANEOUS		
26	BUSHING—Panel Spacer -----	1961552	1115002-3-5-6-7-8; 343
27	CLIP (Round)—Circuit Board -----	1962385	1115005-6-7-8; 343
28	CLIP (Oblong)—Circuit Board -----	1960635	1115002-3-5-6-7-8; 343
29	CLIP—Ground -----	*	1115007-8
30	FASTENER -----	1961851	1115005-7-8; 343
—	GASKET—Plate—Base Cover -----	1970226	1115002-3-5-6-7-8; 343
31	INSULATOR (Mica)—Transistor -----	1962715	1115002-3-5-6-7-8; 343
—	INSULATOR .031 Thick—Transistor -----	1961567	1115002-3
—	PAD—Transistor -----	1962607	1115002-3

* Not serviced.

□ Not sold by Delco-Remy—See Standard Hardware Section for Description.

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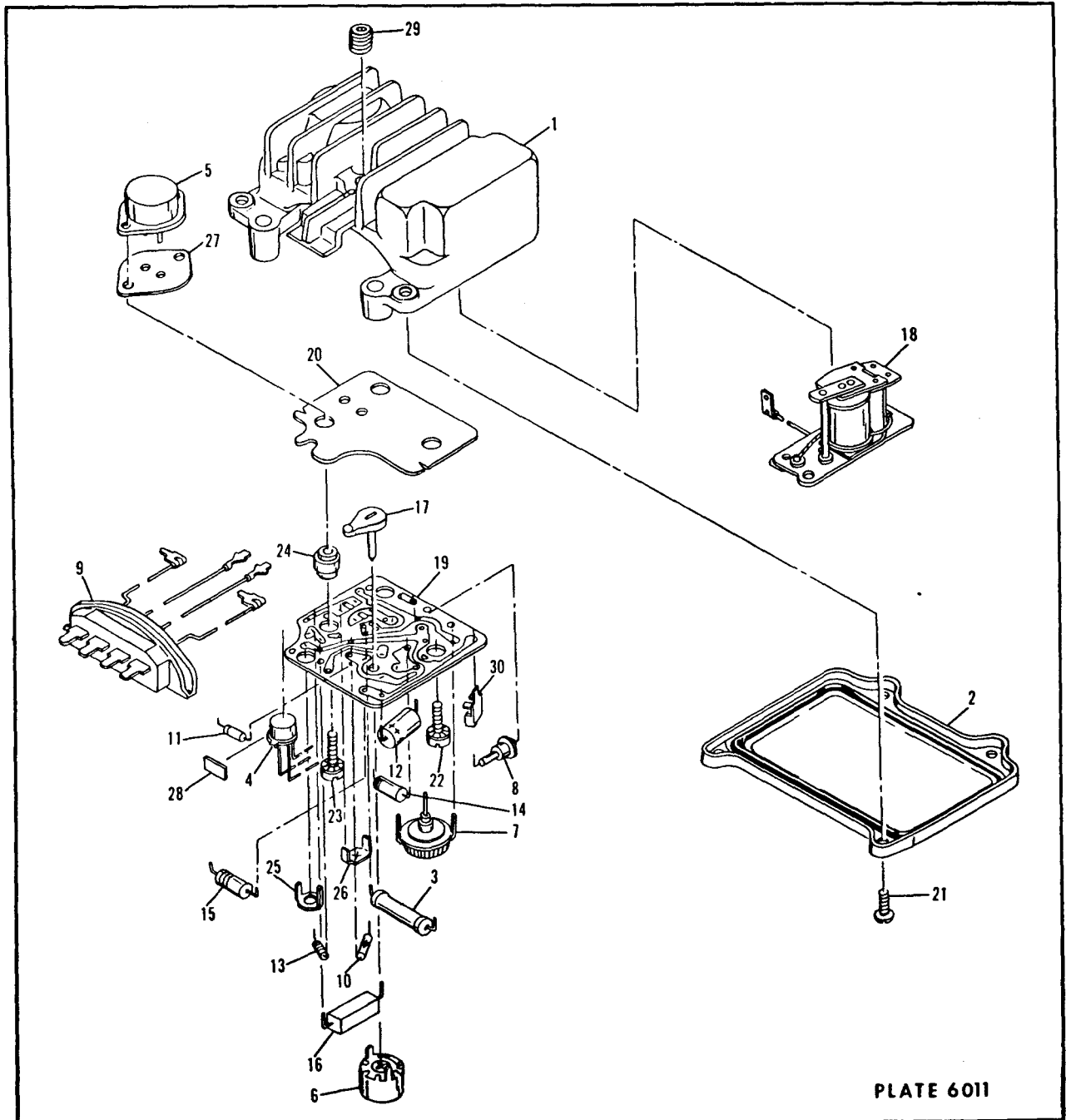


Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

Model No.	Transistor — Trigger	Transistor — S.C.R. Driver	Transistor — Converter Driver	Transistor — Driver	+ Transistor — Converter	+ Thyristor	Diode — Zener	Diode — Bridge	+ Transformer	+ Capacitor	Capacitor	Housing
	1	2	3	4	5	6	7	8	9	10	11	12
1115010.....	1960643	1967801	1967799	1967802	1967784	1967787	1967792	*	1968172	1967826	1967811	1967827
1115015.....	"	"	"	"	"	"	"	"	"	"	"	"
1115016.....	"	"	"	"	"	"	"	"	"	"	"	"
1115018.....	"	"	"	"	"	"	"	"	"	"	"	"
1115019.....	"	"	"	"	"	"	"	"	"	"	"	"
1115020.....	"	"	"	"	"	"	"	*	"	"	"	"

* Not illustrated—Mounted Underneath.

† For Bridge Diode across Thyristor (Anode to Cathode) order 1969497. Other 5 Bridge Diodes use Part No. 1967813.



Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

Model	Housing	Plate — Base Cover	Ther- mistor	Tran- sistor — Driver	Tran- sistor — Power	Potenti- ometer	Diode & Heat Sink — Back Bias	Diode — Field Discharge	Connec- tor	Diode — Transient Suppres- sion
	1	2	3	4	5	6	7	8	9	10
1116386.....	*	1965300	1964971	1965016	1961480	1961562	1961952	1946850	1964975	
1116368-B.....	*	"	"	1969281	"	"	"	1967813	"	
1116370.....	*	1965434	"	1965016	"	"	"	1946850	1965136	
1116370-B.....	*	"	"	1969281	"	"	"	1967813	"	
1116373.....	*	1965300	"	1965016	"	"		1946850	1964975	
1116373-B.....	*	"	"	1969281	"	"	"	1967813	"	
1116374.....	*	"	"	1965016	"	"	1961952	1946850	"	1967813

* Part not serviced

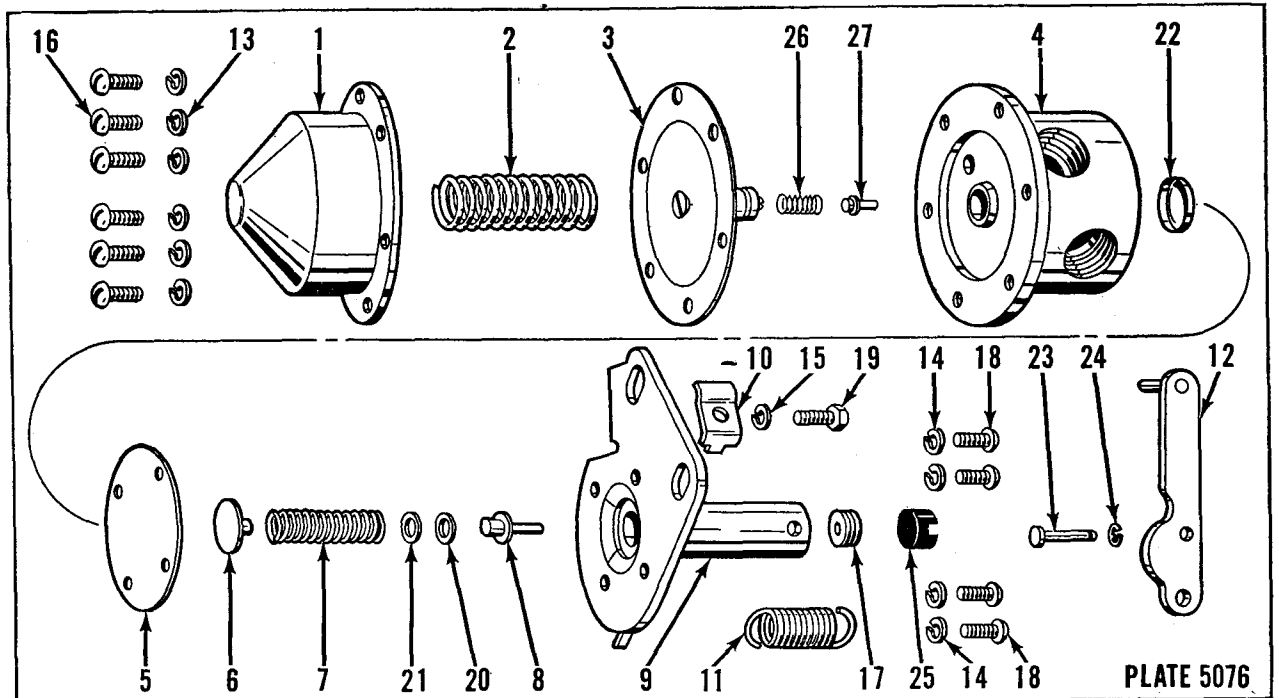
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NOTE: Most screws, bolts, nuts, lockwashers, woodruff keys, and cotter pins are Standard Hardware items and are not available from Delco-Remy. Refer to Standard Hardware sheets in catalog miscellaneous section for dimensions and description.

Name	Part No.	Used on Models
SCREWS		
Screw—Terminal -----	1864099	All except 1999696-7
NUTS		
Nut—Mounting Bracket -----	1923405	1999692-5-6-7; 9000345-6; 443-4
Nut—Mounting Bracket -----	1965608	1999935-9; 9000011; 236-9; 500-13-14-17; 35-6
MISCELLANEOUS		
BRACKET—Mounting -----	1956798	1999696-7
BRACKET—Mounting (Right Angle) -----	1953332	1999692-5; 9000345-6; 443-4
BRACKET—Mounting (Right Angle) -----	1967209	9000236; 500
BRACKET—Mounting (Right Angle) -----	1958667	1999935-9; 9000011; 513-14-17; 35-6
BRACKET—Mounting ($\frac{1}{2}$ " Offset) -----	1953331	1999692-5; 9000443-4
BRACKET—Mounting ($\frac{1}{2}$ " Offset) -----	1958666	9000011; 236-9; 513-14-17; 35-6
BRACKET—Mounting (120 degree) -----	1968605	9000011; 236-9
BRACKET—Mounting (Offset) -----	1967210	9000236; 500
BRACKET—Mounting (Offset) -----	1970564	1999935
BLADE—Terminal -----	1932626	9000345-6
CLIP—Terminal -----	1855978	All except 1999696-7
SLEEVE -----	1871761	9000345-6
TERMINAL (Female) -----	1965728	9000236-9; 443-4; 513-14-17
TERMINAL (Female) -----	2965142	1999939
TERMINAL (Female) -----	2965728	9000500
WASHER—Bracket Spacing -----	1945626	1999696-7



Illustrations are of Typical Parts only. For parts not illustrated or in columns see Minor Parts Section.

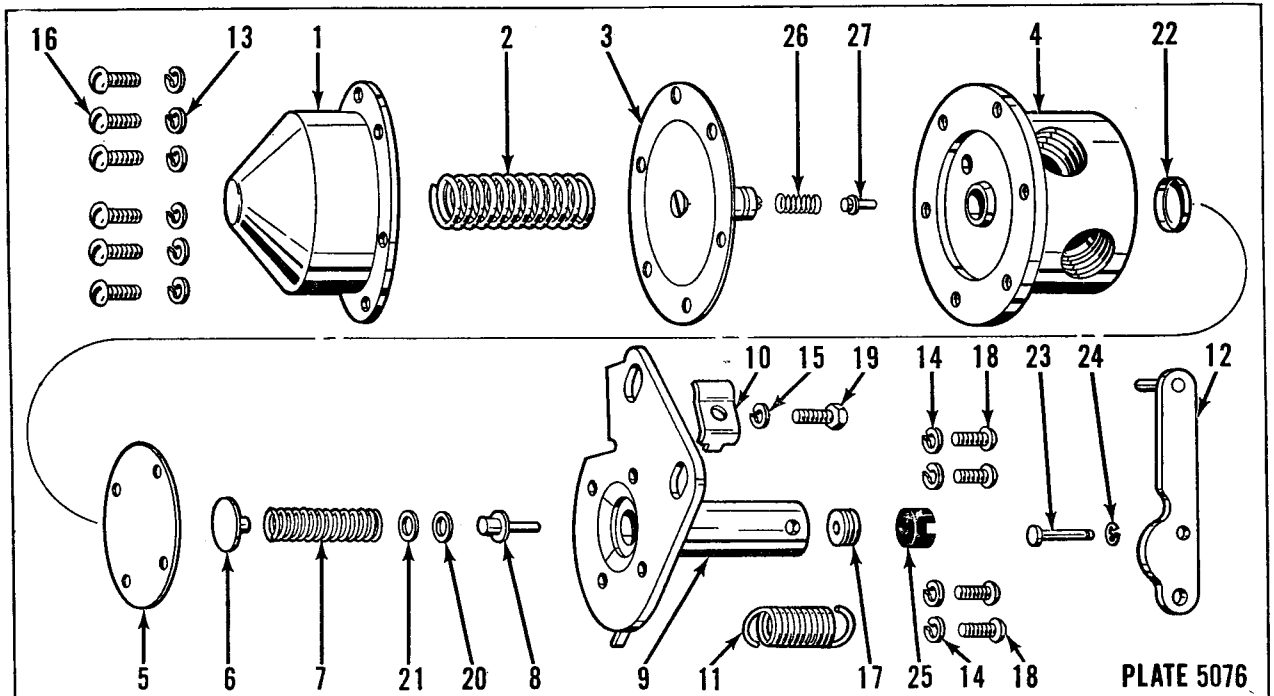
Model	Cover — End	Spring — Main Valve	Main Valve — Assem.	Body — Valve	Dia- phragm — Pilot Valve	Plate — Back- Up	Spring — Adjus- ting	Plunger — Adj. Spring	Bracket — Mtg.	Clamp — Cable	Spring — Counter Balance	Lever
	1	2	3	4	5	6	7	8	9	10	11	12
1998807.....	1932801	1932812	*		1932808	1932807	1935275	1932806	1934371	1933447	1933875	1935193
1998807-B.....	"	"	†		"	"	"	"	"	"	"	"
1998809.....	"	"	*		"	"	1932813	"	1935287	"	"	1932794
1998809-B.....	"	"	†		"	"	"	"	"	"	"	"
1998810.....	"	"	*		"	"	"	"	1937655	1937662	"	1937652
1998810-B.....	"	"	†		"	"	"	"	"	"	"	"
1998811.....	"	"	*		"	"	"	"	1937679	"	1939314	1935193
1998811-B.....	"	"	†		"	"	"	"	"	"	"	"
1998818.....	"	"	*		"	"	"	"	1938062	"	1933875	1937652
1998818-B.....	"	"	†		"	"	"	"	"	"	"	"
1998819.....	"	"	*		"	"	"	"	1938172	"	"	1932794
1998819-B.....	"	"	†		"	"	"	"	"	"	"	"
1998830.....	"	"	*		"	"	"	"	1941396	"	1939314	1941398
1998830-B.....	"	"	†		"	"	"	"	"	"	"	"
1998831.....	"	"	*		"	"	"	"	1940982	"	1933875	1937652
1998831-B.....	"	"	†		"	"	"	"	"	"	"	"
1998832.....	"	"	*		"	"	"	"	1941148	"	"	"
1998832-B.....	"	"	†		"	"	"	"	"	"	"	"
1998833.....	"	"	*		"	"	"	"	1940346	"	1939314	1935193
1998833-B.....	"	"	†		"	"	"	"	"	"	"	"
1998834.....	"	"	*		"	"	"	"	1940666	"	1933875	1932794
1998834-B.....	"	"	†		"	"	"	"	"	"	"	"
1998835.....	"	"	*		"	"	"	"	1940628	"	"	"
1998835-B.....	"	"	†		"	"	"	"	"	"	"	"
1998848-B.....	"	"	†		"	"	"	"	1943055	"	"	1943062
1998849-B.....	"	"	†		"	"	"	"	1943065	"	"	"
1998850.....	"	"	†		"	"	"	"	1944555	"	1939314	1935193
1998852.....	"	"	†		"	"	"	"	1944276	"	1933875	1932794
1998856.....	"	"	†		"	"	"	"	1944620	"	1939314	1950675
1998859.....	"	"	†		"	"	"	"	1944642	"	1939314	1944641
1998860.....	"	"	†		"	"	"	"	1944644	1950455	"	1944640
1998862.....	"	"	†		"	"	"	"	1944877	1937662	1933875	1944879

*1942484 Valve Repair Package also contains Items 5, 20, 21, 22, 26, 27.

†1942494 Valve Repair Package also contains Items 5, 20, 21, 22, 26, 27.

MINOR PARTS SECTION

Illus. No.	Name	Part No.	Used on Models
	LOCK WASHERS		
13	Lock Washer—Cover Screw -----	131096	All
—	Lock Washer—Cam Attaching Screw -----	120217	1998807; 10-11-18; 31-2-3; 50-9; 60
14	Lock Washer—Mtg. Bracket Screw -----	131096	All
15	Lock Washer—Cable Clamp Screw -----	120217	All
	NUTS		
—	Nut—Lock—Cam Attaching -----	9413359	1998807-11; 33; 50-9; 60
	SCREWS		
16	Screw—Cover Attaching -----	132903	All
—	Screw—Cam Attaching -----	132100	1998810-18; 31-2
17	Screw—Headless Adjusting -----	1932803	All
18	Screw—Mtg. Bracket Attaching -----	132903	All
19	Screw—Cable Clamp Attaching -----	127650	All except 1998860
19	Screw—Cable Clamp Attaching -----	1950456	1998860
—	Screw—Cam Attaching -----	178451	1998807-11; 33; 50
—	Screw—Cam Attaching -----	132105	1998859; 60
	WASHERS		
20	Washer—Shim ($\frac{1}{4}$ thick) -----	1939164	All
21	Washer—Shim ($\frac{3}{8}$ thick) -----	1936424	All
—	Washer—Plain—Cam Screw -----	807295	1998807; 10-11-18; 31-2-3; 50-9; 60
	MISCELLANEOUS		
22	CUP—Diaphragm Retaining -----	1940342	All
23	PIN—Lever Attaching -----	1932816	All
24	RETAINER—Lever Pin -----	1939307	All
25	SPACER—Lever -----	1933573	All
26	SPRING—Pilot Valve -----	1932810	All
27	VALVE—Pilot -----	1932809	All
—	BRACKET—Cable Clamp -----	1934365	1998807-9
—	BRACKET—Hose Clamp -----	1940668	1998834
—	CAM—Lever -----	1937654	1998810-18; 31-2
—	CAM—Lever -----	1937682	1998807; 11; 33; 50-9; 60
—	CAP—Tank Valve -----	1934433	1998810-18; 31-2
—	CORE—Valve -----	1138041	1998810-18; 31-2



Illustrations are of Typical Parts only. For Parts not illustrated or in columns see Minor Parts Section.

Model	Cover — End	Spring — Main Valve	Main Valve — Assem.	Body — Valve	Dia- phragm — Pilot Valve	Plate — Back- Up	Spring — Adjust- ing	Plunger — Adj. Spring	Bracket — Mtg.	Clamp — Cable	Spring — Counter Balance	Lever
	1	2	3	4	5	6	7	8	9	10	11	12
1998869.....	1932801	1932812	†		1932808	1932807	1932813	1932806	1948711	1950455	1939314	1944641
1998871.....	"	"	†		"	"	"	"	1949121	1937662	1933875	1941398
1998876.....	"	"	†		"	"	"	"	1951088		1939314	1950675
1998877.....	"	"	†		"	"	"	"	1951199	1950455	"	1944641
1998878.....	"	"	†		"	"	1952153		1952154			
1998879.....	"	"	†		"	"	1932813	1932806	1952164	1937662	1939314	1944641
1998880.....	"	"	†		"	"	"	"	1952168	"	"	"
1998883.....	"	"	†		"	"	"	"	1952348	"	1933875	1944879
1998885.....	"	"	†		"	"	"	"	1952576	"	1939314	1935193
1998886.....	"	"	†		"	"	"	"	1953053	"	"	"
1998887.....	"	"	†		"	"	"	"	1953181	1950455	1933875	1953183
1998888.....	"	"	†		"	"	"	"	1954110		1939314	1950675

†1942494 Valve Repair Package also contains Items 5, 20, 21, 22, 26, 27.

MINOR PARTS SECTION

Illus. No.	Name	Part No.	Used on Models
LOCK WASHERS			
13	Lock Washer—Cover Screw -----	131096	All
—	Lock Washer—Cam Attaching Screw -----	9413359	All except 1998869; 78; 83
14	Lock Washer—Mtg. Bracket Screw -----	131096	All
15	Lock Washer—Cable Clamp Screw -----	120217	All except 1998876-8
SCREWS			
16	Screw—Cover Attaching -----	132903	All
—	Screw—Cam Attaching Screw -----	132105	1998869; 77-9; 80
—	Screw—Cam Attach. -----	178451	1998885-6
17	Screw—Headless Adjusting -----	1932803	All except 1998878
17	Screw—Headless Adjusting -----	1952157	1998878
18	Screw—Mtg. Bracket Attaching -----	132903	All
19	Screw—Cable Clamp Attaching -----	127650	1998871-9; 80-3-5-6
19	Screw—Cable Clamp Attaching -----	1950456	1998869; 77; 87
WASHERS			
20	Washer—Shim ($\frac{1}{8}$ thick) -----	1939164	All except 1998878
21	Washer—Shim ($\frac{3}{32}$ thick) -----	1936424	All except 1998878
MISCELLANEOUS			
—	CAM—Lever -----	1937682	All except 1998869; 78; 83
—	CAP—Pressure Valve -----	9409760	1998877-8-9; 80
22	CUP—Diaphragm -----	1940342	1998876; 86
22	CUP—Diaphragm Retaining -----	1945610	All except 1998869; 71; 86
—	"O" RING -----	1942216	1998876
—	"O" RING—Pressure Valve -----	8526645	1998877-8-9; 80
23	PIN—Lever Attaching -----	1932816	All except 1998878
24	RETAINER—Lever Pin -----	1939307	All except 1998878
25	SPACER—Lever -----	1933573	All except 1998878
26	SPRING—Pilot Valve -----	1945242	All except 1998869-71; 88
26	SPRING—Pilot Valve -----	1932810	1998876; 88
—	VACUUM ASSEMBLY -----	1952158	1998878
—	VALVE—Pressure -----	1945232	1998877-8-9; 80
27	VALVE—Pilot -----	1932809	All

POWER SUPPLY — Model 1952626

Description	Part No.	Description	Part No.
Base	1952677	Nut—Lead Attach. to Rectifier Screw	453433
Base Assem. (complete)	1952676	Nut—Rectifier Bracket Screw	134551
Bracket—Base Mounting	1910712	Nut—Terminal Block Attach. Screw	453433
Bracket—Rectifier	1947999	Nut—Terminal Block Bracket Screw	453433
Bracket—Terminal Block Mtg.	1952663	Nut—Terminal Stud	134551
Lead Assem.—#8 wire 3" length	1952671	Nut—Transformer Attach. Screw	453433
Lead Assem.—#8 wire 4½" length	1952668	Plate—Insulating—Terminal Block	1952673
Lead Assem.—#8 wire 6" length	1952661	Rectifier	1947987
Lead Assem.—#8 wire 10" length	1952670	Screw—Base Mtg. Bracket Attaching	132900
Lead Assem.—#8 wire 15" length	1952669	Screw—Lead to Rectifier Attaching	178451
Lead Assem.—#14 wire 2½" length	1952662	Screw—Lead to Terminal Stud Attaching	132900
Lead Assem.—#14 wire 4½" length	1952664	Screw—Rectifier Bracket Attaching	120628
Lead Assem.—#14 wire 10" length	1952667	Screw—Terminal Block Attaching	453340
Lead Assem.—#14 wire 13" length	1952665	Screw—Terminal Block Bracket Attaching	453468
Lead Assem.—#14 wire 15" length	1952666	Screw Transformer Attaching	453468
Lever—Panel Switch	1902694	Stud—Terminal Block	1952672
Lockwasher—Base Mtg. Bracket Screw	453435	Switch—Panel	1997883
Lockwasher—Lead Attach. to Rectifier Screw	453435	Terminal Block Assem. (complete)	1952674
Lockwasher—Lead Attach. to Terminal Stud	453435	Transformer	1937395
Lockwasher—Rectifier Bracket Screw	138484	Washer—Plain—Terminal Block Screw	834231
Lockwasher—Terminal Block Attach. Screw	453435	Washer—Plain—Terminal Stud	1905125
Lockwasher—Terminal Block Bracket Screw	453435		
Lockwasher—Terminal Stud	9421423		
Lockwasher—Transformer Attach. Screw	138479		

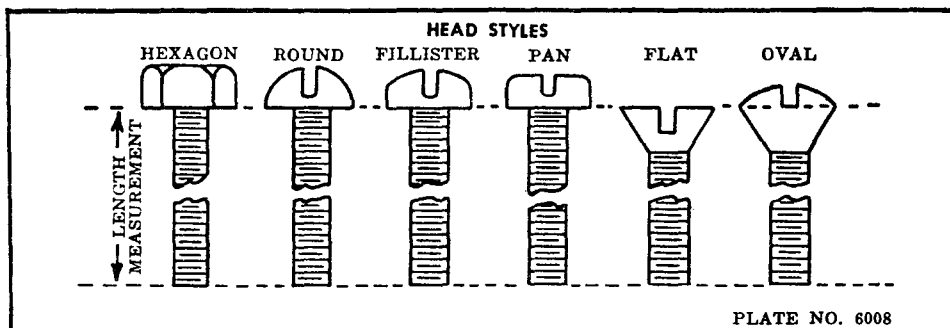
SILICON RECTIFIER—Model 1944377

Description	Part No.	Description	Part No.
Bolt—A.C. Terminal	123435	Plate—Diode Heat Sink	1944488
Bolt—Terminal (¼-20 x ¾)	453343	Plate—Positive Terminal	1944486
Bolt—Terminal (¼-20 x 1½)	1915145	Spacer—Diode Heat Plate	1944484
Bolt—Thru	1944483	Spacer—Positive Terminal	1869112
Bracket—Mounting	1944480	Spacer—Thru Bolt	1944485
Diode—Rectifier	1963290	Washer—Aluminum—Diode Spacer	1944514
Cable Assem.	2971912	Washer—Ins. (.268 I.D. x .62 O.D. x .062)	1935077
Connector—Diode	1944487	Washer—Ins. (.268 I.D. x .368 O.D. X .047)	1931669
Nut—A.C. Terminal	120367	Washer—Plain—A.C. Terminal	1905125
Nut—Diode	1945056	Washer—Plain (¼ I.D. x ½ O.D. x ⅛)	1857729
Nut—Terminal (¼-20)	120375	Washer—Plain (½ I.D. x ⅝ O.D. x ⅜)	1905125
Nut—Thru Bolt	120375	Washer—Plain—Thru Bolt	1857729

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SERVICE PARTS CATALOG

*SCREWS AND BOLTS



Part No.	Dia. or Std. No.	Thds. Per Inch	Length	Head Type	Part No.	Dia. or Std. No.	Thds. Per Inch	Length	Head Type	Part No.	Dia. or Std. No.	Thds. Per Inch	Length	Head Type
100004	1/4	28	1 1/2	Hex	122126	3/8	16	7/8	Hex	132839	10	24	1/2	Pan
100030	3/8	24	2	"	122138	3/8	16	1 1/2	"	132908	10	32	1/2	Rd.
100135	3/8	16	1 1/4	"	122150	3/8	16	1 3/8	"	132911	10	32	5/8	Pan
100755	8	32	1	Rd.	122168	3/8	16	1 1/4	"	132915	10	32	3/4	Fill.
100815	8	32	3/8	Flat	122181	3/8	16	2	"	132919	10	32	7/8	Rd.
106329	3/8	16	5/8	Hex	122194	3/8	16	2 1/2	"	132923	10	32	1	"
107710	8	32	3/8	Rd.	122260	1/8	14	1 3/8	"	132926	10	32	1 1/4	"
107713	8	32	3/4	"	122401	1/2	13	7/8	"	132930	10	32	1 1/2	Fill.
107715	8	32	1	"	123316	1/4	28	1 1/2	"	132979	12	24	5/8	Rd.
107728	10	32	1	"	123391	3/8	24	1 3/8	"	133495	8	32	5/8	Flat
109443	3/8	16	4	Hex	123461	1/4	28	1	"	134239	8	32	1	Oval
113989	1/4	20	5/8	Flat	123467	1/4	28	1 1/8	"	134357	10	32	1 1/4	"
114991	1/4	20	2	Fill.	123737	1/4	28	1 1/4	"	134616	8	32	5/8	Rd.
115380	10	32	5/8	"	123743	1/4	28	1 1/4	"	141540	6	32	1 3/8	"
115393	10	32	1	"	123749	1/4	28	1 1/2	"	141541	6	32	1 3/8	"
115397	8	32	3/8	Flat	123785	1/8	24	1 1/2	"	141543	10	32	5/8	Pan
115419	8	32	1 1/8	Fill.	123792	1/8	24	1 3/8	"	145587	1/8	18	1/2	Hex
115434	8	32	3/8	Rd.	124058	1/4	28	2 1/4	"	154964	6	32	1 3/8	Rd.
115899	10	32	7/8	"	124133	1/8	20	2	"	157125	10	32	5/8	Flat
115903	6	32	1 1/2	"	129028	6	32	5/8	Pan	159920	10	24	1/2	Pan
116286	10	32	1 1/8	"	131820	4	40	1 3/8	Rd.	171225	8	32	1/2	Flat
117181	1/4	20	3/4	Hex	131909	6	32	1 1/2	Pan	171734	10	32	5/8	Pan
120222	10	24	5/8	Rd.	131963	8	32	3/8	Fill.	173260	8	32	1 3/8	Fill.
120228	1/8	18	5/8	Hex	131964	8	32	3/8	"	173397	1/4	20	5/8	Hex
120229	1/8	18	7/8	Hex	131966	8	32	1 3/8	"	174634	1/4	20	1 1/2	"
120233	3/8	16	1	"	131979	8	32	3/4	Rd.	175170	1/4	20	2	"
120288	1/8	18	5/8	"	132119	10	32	5/8	Fill.	177933	1/4	20	1 1/8	Pan
120585	1/4	20	5/8	Flat	132123	10	32	5/8	"	178482	8	32	3/8	"
120612	10	32	5/8	"	132124	10	32	3/4	"	179100	1/4	28	4	Hex
120678	3/8	24	2	Hex	132127	10	32	3/4	"	180020	1/4	20	3/4	"
120706	1/4	20	1 1/2	"	132128	10	32	7/8	"	181379	3/8	24	2	Hex
120741	1/8	24	3/4	"	132133	10	32	1	"	181566	1/4	28	3/4	"
120757	10	32	3/4	Flat	132143	10	32	1 1/2	"	181567	1/4	28	7/8	"
120854	1/4	20	5/8	Hex	132147	10	32	1 1/2	"	186566	10	32	1 1/8	Fill.
120918	3/8	16	1 1/2	"	132255	1/4	20	1 1/2	"	187104	10	32	1 1/8	"
121328	1/4	20	2	Fill.	132258	1/4	20	1 1/2	"	193982	1/4	20	1 1/2	Hex
121661	1/8	24	1	Hex	132259	1/4	20	5/8	"	213875	1/4	28	1 1/2	"
121832	8	32	3/8	Rd.	132264	1/4	20	3/4	"	213983	1/4	28	2 1/4	"
121839	6	32	1 3/8	"	132286	1/4	20	2	Rd.	214001	1/4	20	1 1/2	"
121867	1/4	20	1 3/8	Hex	132622	4	40	1 3/8	"	214387	3/8	16	1	"
121887	1/4	20	3/4	"	132684	6	32	1 3/8	"	214390	3/8	16	1 3/8	"
121900	1/4	20	1 1/8	"	132688	6	32	1 1/4	"	273484	1/4	20	1 1/8	Pan
121933	1/4	20	1 1/8	"	132695	6	32	1 3/8	"	273519	10	32	5/8	Pan
121954	1/4	20	2	"	132696	6	32	3/8	Pan	273485	1/4	20	1 1/8	"
121986	1/8	18	1 3/8	"	132705	6	32	1 1/2	Rd.	273531	10	32	5/8	"
122007	1/8	18	3/4	"	132756	8	32	1 3/8	"	273656	1/4	20	1 3/8	Hex
122015	1/8	18	7/8	"	132760	8	32	1 1/2	Pan	273687	6	32	1 3/8	Fill.
122077	1/8	18	2 1/2	"	132764	8	32	5/8	Rd.	273869	1/4	20	5	Hex
122104	3/8	16	5/8	"	132768	8	32	3/4	"	274260	8	32	5/8	Pan
122119	3/8	16	3/4	"	132776	8	32	1	"	274316	1/8	24	3/4	Hex

- * 1. Should be machine or cap screw quality.
- 2. Some type of protective treatment preferred; such as cadmium or zinc plating.
- 3. Flat heads may be used to replace oval heads; and, as a general rule, round, fillister and pan heads are interchangeable.

SCREWS AND BOLTS

Part No.	Dia. or Std. No.	Thds. Per Inch	Length	Head Type	Part No.	Dia. or Std. No.	Thds. Per Inch	Length	Head Type	Part No.	Dia. or Std. No.	Thds. Per Inch	Length	Head Type
274453	10	32	5/8	Rd.	454336	1/4	28	1 1/8	Hex	1915277	6	32	1/4	Rd.
274875	8	32	5/8	Pan	454337	12	24	1 1/2	Fill.	1915806	10	32	1 1/8	"
274936	10	32	1 1/4	Rd.	454408	8	32	1 1/8	Rd.	1915844	10	32	5/8	Flat
274944	8	32	5/8	"	454504	6	32	1/4	Pan	1916276	1/4	20	5/8	Hex
274946	10	32	1 1/8	Fill.	454533	6	32	3/8	"	1916327	6	32	1/4	Rd.
423336	1/4	20	5/8	Hex	454574	1/4	20	5/8	Hex	1916623	6	32	3/8	Fill.
423337	1/4	20	3/4	"	454583	8	32	3/4	Rd.	1916761	10	32	5/8	"
424154	10	32	1 1/4	Rd.	454786	8	32	1 1/8	Fill.	1916932	4	40	1 1/8	Rd.
435429	10	32	1 1/8	"	455290	12	24	5/8	Rd.	1918229	10	32	5/8	Fill.
435884	6	32	1/4	Fill.	455349	8	32	1	Fill.	1918329	10	32	3/4	"
436534	8	32	1/2	Pan	455430	1 1/8	18	5/8	Hex	1918330	1/4	20	3/4	Hex
436666	6	32	5/8	"	455435	1/4	28	4 1/2	"	1918748	1/4	28	1 1/2	"
436751	10	32	5/8	"	455576	1/4	20	1 1/8	Rd.	1918809	10	32	7/8	Fill.
437326	1/4	20	1 1/8	Rd.	455587	4	40	1/4	"	1918909	6	32	1 1/8	Rd.
443894	8	32	1 1/8	"	455590	8	32	3/4	Oval	1919428	1/4	28	5/8	Hex
446649	10	32	3/4	Flat	455713	10	32	1/2	Rd.	1919476	6	32	5/8	Rd.
451323	6	32	1/4	Rd.	455880	8	32	3/8	Pan	1919494	8	32	1/2	Fill.
451608	6	32	1 1/8	"	455881	8	32	5/8	"	1919559	1/4	28	1 3/4	Hex
451626	8	32	5/8	"	455917	1/4	20	5/8	Hex	1919982	1/4	28	1 1/4	"
451633	6	32	3/8	Fill.	455957	8	32	3/8	Pan	1920787	8	32	3/8	Pan
453292	6	32	1/4	Rd.	802771	1/4	20	1 1/8	Hex	1921670	1/4	20	3/4	Hex
453293	8	32	1/2	Pan	803912	8	32	3/4	Oval	1921926	6	32	1 1/8	Rd.
453302	8	32	1/2	Fill.	820102	8	32	1/2	Pan	1924734	1 1/8	24	1 1/2	Hex
453310	10	32	1 1/8	"	824394	8	32	1	Oval	1924735	1 1/8	24	1 1/2	"
453321	10	32	5/8	Pan	1838393	1 1/8	18	1 1/2	Hex	1924743	1/4	28	7/8	"
453322	6	32	1/4	Rd.	1842026	10	32	1/2	Rd.	1924764	6	32	1/4	Pan
453328	8	32	3/8	"	1856697	10	32	1 1/2	Fill.	1926648	8	32	5/8	"
453331	6	32	1/2	"	1862803	6	32	1 1/8	Rd.	1928358	8	32	5/8	Rd.
453333	10	32	1 1/8	"	1867877	1/4	28	1	Hex	1930058	10	32	5/8	Fill.
453334	10	32	1/2	"	1868982	8	32	1	Rd.	1931999	8	32	1/2	Pan
453337	10	32	3/4	Flat	1871604	1/4	28	1 1/4	Hex	1932089	10	32	3/4	Fill.
453338	6	32	5/8	Fill.	1872612	1/4	20	1 1/8	"	1933271	8	32	3/8	Rd.
453339	10	32	5/8	"	1872936	10	32	5/8	Fill.	1933535	1/4	28	1/2	Hex
453340	10	32	3/4	"	1873124	1/4	28	1 3/4	Hex	1939754	10	32	1/2	Rd.
453343	1/4	20	3/4	Hex	1874496	1/4	28	1 1/4	"	1945900	10	32	5/8	"
453349	1/4	20	1/2	Hex	1878516	4	40	1 1/8	Fill.	1949137	6	32	1/4	Pan
453350	1/4	28	1 1/4	"	1879662	2	56	1/4	Rd.	1949846	8	32	1/2	"
453353	6	32	1 1/8	Rd.	1881127	1/4	28	1 3/4	Hex	1950277	8	32	1/2	Rd.
453357	8	32	1 1/8	"	1882016	8	32	1/2	Fill.	1955423	1/4	20	1 1/4	Hex
453358	8	32	1 1/8	"	1886496	8	32	1 1/8	Rd.	1959084	6	32	1/2	Pan
453364	4	40	1 1/8	"	1886713	8	32	3/8	"	1962389	8	24	3/4	"
453365	4	40	1 1/8	"	1900127	8	32	3/8	Pan	1964163	8	32	3/8	Rd.
453369	1/4	20	1 1/8	Pan	1900348	1/4	28	7/8	Hex	1964570	1/4	20	1/2	Flat
453371	1/4	28	3/4	Hex	1904494	6	32	1 1/2	Rd.	1967747	8	32	5/8	Pan
453460	6	32	1/4	Rd.	1904539	10	32	1 1/4	"	9413245	6	32	7/8	Fill.
453461	8	32	3/8	"	1904818	6	32	1/4	"	9413249	10	32	1 1/2	Fill.
453464	10	32	1/2	"	1905047	1/4	20	5/8	Flat	9413260	1/4	20	3/4	"
453470	1/4	20	5/8	Fill.	1905202	6	32	3/8	Rd.	9413296	8	32	1/2	Rd.
453471	1/4	20	5/8	"	1905268	10	32	3/4	Fill.	9413474	10	32	1	Hex
453479	10	32	1 1/4	Rd.	1905877	1/4	20	1 1/8	Hex	9414397	1/4	20	1/2	Flat
453480	4	40	3/8	Fill.	1907069	10	32	3/4	Fill.	9414417	1 1/8	18	2 1/2	Hex
453660	1/4	20	2	"	1907783	8	32	1	Pan	9415507	8	32	1/2	Rd.
453684	6	32	1 1/8	Rd.	1908698	10	32	5/8	Fill.	9415795	1/4	20	1 1/8	Hex
453687	1/4	20	5/8	Flat	1912728	10	32	5/8	"	9416009	8	32	1 1/8	Fill.
453696	8	32	3/8	Rd.	1913110	1/4	20	5/8	"	9416183	10	32	5/8	Pan
453698	6	32	3/8	Fill.	1913113	10	32	1 1/4	Rd.	9417096	8	32	1/2	"
453804	8	32	3/8	"	1913128	1/4	28	1 1/4	Hex	9418397	10	32	7/8	Flat
453847	8	32	1 1/8	"	1913356	8	32	3/8	Fill.	9418565	8	32	3/8	Pan
453905	1/4	28	1 1/4	Hex	1914163	6	32	1/4	Rd.	9418834	8	32	1 1/8	Rd.
453978	6	32	3/8	Rd.	1914190	6	32	3/8	"	9419291	6	32	1 1/8	"
453979	10	32	7/8	"	1914567	8	32	3/8	Fill.	9419410	8	32	5/8	Flat
453986	6	32	1 1/8	"	1914569	8	32	1/2	"	9419725	8	32	1 1/8	Hex
453992	10	32	1 1/8	Fill.	1914581	8	32	3/8	Rd.	9422834	1 1/8	24	3 3/4	"
454003	8	32	1 1/8	"	1914642	10	32	5/8	Fill.	9423213*	8	32	1 1/4	Rd.
454006	10	32	1 1/8	"	1914808	4	40	1 1/8	"	9423451	6	32	1 1/8	Rd.
454058	8	32	1	Rd.	1914817	6	32	1/4	Rd.	9427801	6	32	1 1/8	Pan
454154	6	32	1/2	"	1914859	6	32	1/2	Rd.	9427825	12	24	1 1/4	Pan
454155	8	32	5/8	"	1914869	1/4	28	1	Hex	9427860	1/4	20	5	Hex
454158	8	32	5/8	"	1914929	8	32	3/8	Rd.	9427862	3/8	24	2	Hex
454308	10	32	1	Fill.	1914971	1/4	20	2	Fill.	9427863	1/4	20	3/4	Rd.
454311	10	32	7/8	Fill.	1915145	1/4	20	1 1/8	Hex	9427865	1/4	20	1 5/8	Hex
454329	6	32	1 1/8	Rd.	1915177	8	32	1 1/8	Rd.	9427866	1/4	20	2	Hex

* Brass.

Parts not listed in this catalog will not be sold separately.

Revised to March 1, 1968

Delco-Remy

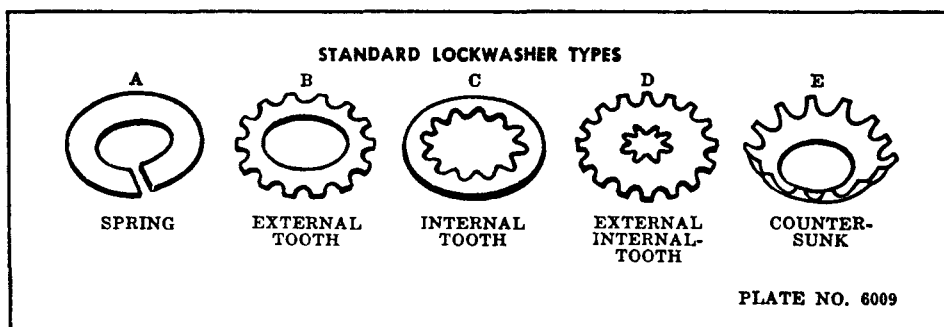
SERVICE PARTS CATALOG

 STANDARD HARDWARE FASTENERS
 (File in Miscellaneous Section) NUTS
 Page 3

* N U T S

Part No.	L.D. or Std. No.	Thds. Per Inch	Style	Material	Part No.	L.D. or Std. No.	Thds. Per Inch	Style	Material	Part No.	L.D. or Std. No.	Thds. Per Inch	Style	Material
23037	$\frac{1}{8}$	24	Hex	Steel	422967	$\frac{1}{2}$	20	Hex	Steel	1904995	$\frac{1}{2}$	13	Hex	Steel
28471	$\frac{3}{8}$	24	"	"	426099	$\frac{3}{4}$	16	"	Steel	1904997	$\frac{1}{2}$	13	"	"
29991	$\frac{1}{4}$	28	"	"	426325	10	32	"	Brass	1905118	$\frac{1}{4}$	28	"	"
35813	$\frac{1}{8}$	18	"	Brass	427254	6	32	"	Steel	1905794	10	32	"	"
103105	$\frac{1}{8}$	32	Square	Steel	429071	$\frac{1}{8}$	18	"	Brass	1905839	$\frac{1}{2}$	20	"	"
103127	$\frac{1}{4}$	20	Wing	"	432229	8	32	"	Steel	1907270	6	32	"	"
109723	8	32	Hex	"	432230	10	32	"	"	1908565	$\frac{1}{8}$	24	"	"
112432	10	32	"	Brass	432233	$\frac{1}{4}$	28	"	"	1910707	$\frac{3}{8}$	32	"	"
113106	12	24	"	"	445100	6	32	"	"	1912978	$\frac{3}{8}$	24	"	Brass
113739	$\frac{1}{4}$	20	"	Steel	451031	$\frac{3}{4}$	16	"	"	1913036	$\frac{1}{4}$	20	"	Steel
114378	$\frac{1}{4}$	20	"	"	451721	$\frac{3}{8}$	24	"	"	1913039	$\frac{1}{4}$	28	"	"
114494	$\frac{3}{8}$	24	"	"	453284	10	32	"	"	1913045	10	32	"	"
114545	$\frac{1}{4}$	28	"	Brass	453285	$\frac{1}{2}$	13	"	"	1913199	8	32	"	"
114546	$\frac{1}{8}$	24	"	"	453287	$\frac{1}{2}$	13	"	"	1913767	$\frac{3}{8}$	16	"	Brass
114547	$\frac{3}{8}$	24	"	"	453314	$\frac{1}{4}$	28	"	"	1913954	$\frac{3}{8}$	16	"	Steel
114548	$\frac{1}{2}$	20	"	"	453318	$\frac{3}{8}$	16	"	"	1913956	$\frac{3}{8}$	16	"	"
114653	8	32	"	Steel	453326	$\frac{1}{4}$	28	"	"	1914124	10	32	"	"
115614	10	32	Square	"	453345	$\frac{1}{8}$	24	"	"	1914366	10	32	"	Brass
115721	$\frac{3}{8}$	18	Hex	"	453346	$\frac{3}{8}$	24	"	"	1914534	8	32	"	Steel
115764	$\frac{1}{8}$	18	"	"	453348	6	32	"	"	1914654	$\frac{1}{4}$	28	"	"
116004	$\frac{1}{4}$	20	"	"	453361	$\frac{1}{4}$	20	"	"	1914972	$\frac{1}{4}$	20	"	"
120238	$\frac{1}{2}$	13	"	"	453363	$\frac{1}{4}$	20	"	"	1915146	$\frac{1}{4}$	20	"	"
120361	10	24	"	"	453433	10	32	"	"	1915339	$\frac{1}{4}$	20	"	"
120367	$\frac{1}{4}$	28	"	"	453434	8	32	"	"	1915508	$\frac{1}{2}$	13	"	Brass
120368	$\frac{1}{8}$	24	"	"	453782	$\frac{1}{2}$	13	"	Brass	1915509	$\frac{1}{2}$	13	"	"
120369	$\frac{3}{8}$	24	"	"	453784	$\frac{1}{2}$	13	"	"	1916056	$\frac{1}{4}$	28	"	Steel
120371	$\frac{1}{2}$	20	"	"	453786	$\frac{1}{4}$	20	"	Steel	1917525	$\frac{5}{8}$	18	"	"
120375	$\frac{1}{4}$	20	"	"	453787	$\frac{3}{8}$	16	"	Brass	1918224	$\frac{1}{8}$	18	"	"
120376	$\frac{1}{8}$	18	"	"	453848	$\frac{1}{4}$	20	"	Steel	1918650	$\frac{1}{8}$	24	"	"
120378	$\frac{1}{2}$	13	"	"	453930	$\frac{1}{8}$	24	"	"	1918906	8	32	"	"
120611	10	32	Square	"	453984	$\frac{3}{8}$	16	"	Brass	1919043	$\frac{1}{2}$	20	"	Brass
120614	10	32	Hex	"	453993	$\frac{1}{4}$	28	"	"	1919044	$\frac{1}{2}$	20	"	"
120622	8	32	"	"	453994	$\frac{1}{8}$	24	"	"	1919050	6	32	"	Steel
121743	12	24	"	"	453996	8	32	"	Steel	1919433	$\frac{3}{8}$	16	"	Brass
124645	$\frac{3}{4}$	16	"	"	454330	$\frac{1}{2}$	20	"	Brass	1919447	$\frac{1}{8}$	18	"	"
124818	$\frac{1}{4}$	20	"	"	454331	$\frac{1}{2}$	20	"	"	1919453	$\frac{3}{8}$	24	"	Steel
124824	$\frac{1}{8}$	18	"	"	455483	6	32	"	Steel	1919555	10	32	"	"
124829	$\frac{3}{8}$	16	"	"	802818	$\frac{1}{4}$	20	"	"	1919992	$\frac{5}{8}$	18	"	"
124920	$\frac{1}{8}$	24	"	"	805258	$\frac{3}{8}$	16	"	"	1920150	$\frac{1}{8}$	24	"	Brass
124925	$\frac{3}{8}$	24	"	"	812479	$\frac{3}{8}$	24	"	"	1920151	$\frac{1}{4}$	28	"	"
126177	$\frac{1}{4}$	20	Wing	"	817132	8	32	"	"	1920678	10	32	"	Steel
131258	$\frac{3}{4}$	16	Hex	"	817300	10	32	"	"	1921572	$\frac{5}{8}$	18	"	"
131395	$\frac{1}{2}$	20	Square	Steel	817363	8	32	"	"	1921809	10	32	"	"
134524	4	40	Hex	"	1835299	$\frac{3}{8}$	16	"	"	1923540	10	32	"	"
134530	6	32	"	"	1837397	10	32	"	"	1924828	10	32	"	"
134536	8	32	Square	"	1838562	$\frac{1}{4}$	20	"	"	1926524	10	32	"	"
134547	12	24	"	"	1842708	10	32	"	"	1926640	$\frac{1}{8}$	18	"	"
134551	$\frac{1}{2}$	20	Hex	"	1843521	12	24	"	"	1941097	$\frac{1}{8}$	18	"	"
134556	$\frac{1}{8}$	18	"	"	1865181	$\frac{1}{4}$	20	Square	"	1949160	10	32	"	"
134559	$\frac{1}{8}$	18	"	"	1866017	8	32	Hex	"	1949671	$\frac{3}{8}$	16	"	"
134560	$\frac{1}{8}$	18	"	Brass	1867926	$\frac{5}{8}$	18	"	"	1951409	8	32	"	"
134566	$\frac{3}{8}$	16	"	Steel	1868077	$\frac{5}{8}$	18	"	"	1957876	$\frac{7}{8}$	14	"	"
134569	$\frac{3}{8}$	16	"	"	1873333	$\frac{1}{2}$	13	"	"	1960369	$\frac{1}{4}$	20	"	"
134570	$\frac{3}{8}$	16	"	Brass	1873334	$\frac{1}{2}$	13	"	"	1967959	$\frac{3}{8}$	16	"	Brass
140630	2	56	"	"	1874909	$\frac{1}{2}$	20	"	"	9413359	10	42	"	Steel
140634	$\frac{3}{8}$	16	"	"	1880718	$\frac{1}{2}$	20	"	Brass	9413509	$\frac{1}{2}$	13	"	"
142212	10	32	"	"	1880810	$\frac{1}{4}$	20	"	Steel	9414418	$\frac{1}{2}$	13	"	"
142247	$\frac{1}{4}$	28	"	Steel	1880814	$\frac{1}{2}$	20	"	Brass	9415141	$\frac{1}{4}$	20	"	"
143179	8	32	"	"	1884129	8	32	"	Steel	9416184	$\frac{1}{4}$	28	"	"
193232	$\frac{1}{4}$	20	"	"	1900468	$\frac{1}{8}$	24	"	Brass	9417301	12	24	"	"
271506	$\frac{1}{8}$	20	"	"	1902493	$\frac{1}{4}$	20	"	Steel	9417380	$\frac{7}{8}$	14	"	"
273643	$\frac{1}{8}$	24	"	"	1903473	10	32	"	"	9418915	12	24	Square	"
274546	$\frac{3}{8}$	16	"	"	1903515	$\frac{1}{4}$	20	"	"					
274737	10	24	"	"	1904419	$\frac{3}{8}$	16	"	"					

- * 1. Nuts should be machine screw nut quality.
- 2. Some type of protective treatment preferred for steel nuts; such as cadmium or zinc plating.
- 3. In general hexagon-style nuts may be used to replace square or wing styles.



*LOCK WASHERS

Part No.	I.D. or Std. No.	Type	Part No.	I.D. or Std. No.	Type	Part No.	I.D. or Std. No.	Type	Part No.	I.D. or Std. No.	Type
17087	12	a	138557	5/8	c	453790	3/8	b	1913361	1/2	c
† 26153	10	a	138597	10	b	453791	8	c	1913696	3/4	c
† 31656	1/4	a	138599	10	e	453792	10	c	1913944	1/4	b
106497	10	a	138604	1/4	b	453795	10	d	1913946	10	b
106498	12	a	138607	1/4	e	453813	1/2	c	1914107	8	a
112723	1 1/8	a	141706	3/4	c	453844	8	a	† 1914144	1/4	a
114602	8	b	174916	1/4	d	453983	1/4	d	1914304	8	a
115543	6	c	178156	2	a	454007	6	a	1914550	5/8	c
115544	8	c	178349	6	d	455714	6	c	1914578	6	a
115545	10	c	178378	10	d	455715	1/4	b	1914648	1/2	a
120214	1 1/8	a	273538	10	b	455846	8	a	1914816	6	a
120381	3/8	a	273565	4	d	455847	10	a	1914973	1/4	a
120382	3/8	a	273588	1 1/8	a	455849	10	a	1915009	10	a
120423	1/4	c	273591	5/8	a	456134	1 1/8	c	1915081	8	a
120638	1 1/8	a	273710	8	a	456319	10	c	1915265	3/4	a
121621	1 1/8	a	273733	1/4	a	456413	6	a	1915334	8	a
121637	1/4	a	274545	10	c	456955	8	a	1915405	10	c
121752	8	b	274709	1/4	a	808449	1 1/8	a	1915805	1/4	a
121753	1/4	b	453288	10	a	820516	1 1/8	a	1916055	1/4	c
121801	10	c	453289	6	a	† 1854058	1 1/8	a	1916070	8	c
131043	4	a	453290	3/8	a	† 1855978	1/4	a	1916930	8	b
131044	6	a	453294	1/4	a	1862346	1/4	a	1917014	10	c
131093	4	a	453295	4	a	† 1868137	1/4	a	1918620	10	a
131095	8	a	453296	10	a	1869533	1/4	a	1928490	1/4	a
131096	10	a	453297	3/8	a	1872430	1/4	d	1928492	8	a
131098	1/4	a	453298	1/2	a	1873008	1/4	a	1928506	1/4	a
131099	3/8	a	453299	8	a	1873844	8	a	1946143	8	a
131183	10	a	453301	1 1/8	a	1874495	1/4	a	1957875	7/8	a
135629	1/2	b	453303	1/4	a	† 1874777	1/4	a	9416003	8	c
138479	10	b	453306	8	a	1877510	10	a	9416005	8	c
138484	1/4	b	453329	6	a	† 1878503	1 1/8	a	9416033	8	b
138485	1 1/8	b	453330	1/4	e	1878505	5	a	9421421	4	a
138489	3/8	b	453435	10	a	1885558	10	a	9421423	1/4	a
138526	6	c	453467	1 1/8	a	1888439	3/4	a	9421424	1 1/8	a
138530	8	c	453472	6	b	1900310	1/4	a	9421425	3/8	a
138535	10	c	453473	8	b	1901834	8	c	9421426	1 1/8	a
138537	1/4	c	453474	10	b	1902494	1/2	a	9421427	1/2	a
138538	1 1/8	c	453475	1/4	b	1904376	8	a	9421428	5/8	a
138542	3/8	c	453704	1/4	c	1904377	6	a	9421429	2	a
138545	3/8	c	453709	5/8	c	1904615	8	a	9422354	10	a
138549	1/2	c	453789	10	a	1904988	1/4	a	9427864	1/2	b

* 1. Some type of protective treatment preferred; such as cadmium or zinc plating.

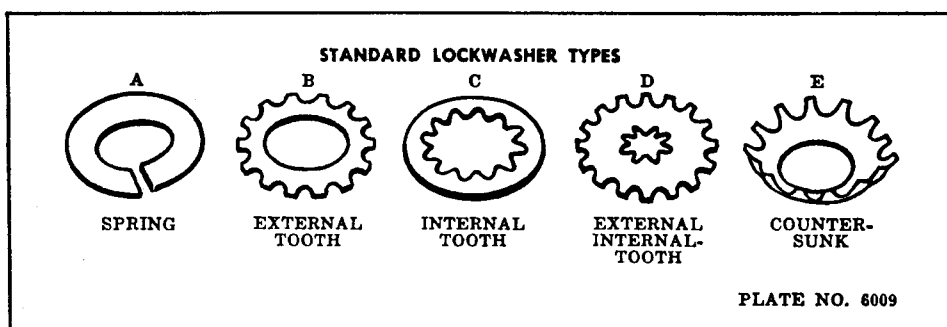
2. As a general rule, lockwasher types are interchangeable.

† Lock Clip—Use standard lock washer to service.

* N U T S

Part No.	I.D. or Std. No.	Thds. Per Inch	Style	Material	Part No.	I.D. or Std. No.	Thds. Per Inch	Style	Material	Part No.	I.D. or Std. No.	Thds. Per Inch	Style	Material
23037	$\frac{1}{8}$	24	Hex	Steel	422967	$\frac{1}{2}$	20	Hex	Steel	1904995	$\frac{1}{2}$	13	Hex	Steel
28471	$\frac{3}{8}$	24	"	"	426099	$\frac{3}{4}$	16	"	Steel	1904997	$\frac{1}{2}$	13	"	"
29991	$\frac{1}{4}$	28	"	"	426325	10	32	"	Brass	1905118	$\frac{1}{4}$	28	"	"
35813	$\frac{1}{8}$	18	"	Brass	427254	6	32	"	Steel	1905794	10	32	"	"
103105	8	32	Square	Steel	429071	$\frac{1}{8}$	18	"	Brass	1905839	$\frac{1}{2}$	20	"	"
103127	$\frac{1}{4}$	20	Wing	"	432229	8	32	"	Steel	1907270	6	32	"	"
109723	8	32	Hex	"	432230	10	32	"	"	1908565	$\frac{5}{16}$	24	"	"
112432	10	32	"	Brass	432233	$\frac{1}{4}$	28	"	"	1910707	$\frac{3}{8}$	32	"	"
113106	12	24	"	"	445100	6	32	"	"	1912978	$\frac{3}{8}$	24	"	Brass
113739	$\frac{1}{4}$	20	"	Steel	451031	$\frac{3}{4}$	16	"	"	1913036	$\frac{1}{4}$	20	"	Steel
114378	$\frac{1}{4}$	20	"	"	451721	$\frac{3}{8}$	24	"	"	1913039	$\frac{1}{4}$	28	"	"
114494	$\frac{3}{8}$	24	"	"	453284	10	32	"	"	1913045	10	32	"	"
114545	$\frac{1}{4}$	28	"	Brass	453285	$\frac{1}{2}$	13	"	"	1913199	8	32	"	"
114546	$\frac{1}{8}$	24	"	"	453287	$\frac{1}{2}$	13	"	"	1913767	$\frac{3}{8}$	16	"	Brass
114547	$\frac{3}{8}$	24	"	"	453314	$\frac{1}{4}$	28	"	"	1913954	$\frac{3}{8}$	16	"	Steel
114548	$\frac{1}{2}$	20	"	"	453318	$\frac{3}{8}$	16	"	"	1913956	$\frac{3}{8}$	16	"	"
114653	8	32	"	Steel	453326	$\frac{1}{4}$	28	"	"	1914124	10	32	"	"
115614	10	32	Square	"	453345	$\frac{1}{8}$	24	"	"	1914366	10	32	"	Brass
115721	$\frac{5}{8}$	18	Hex	"	453346	$\frac{3}{8}$	24	"	"	1914534	8	32	"	Steel
115764	$\frac{1}{8}$	18	"	"	453348	6	32	"	"	1914654	$\frac{1}{4}$	28	"	"
116004	$\frac{1}{4}$	20	"	"	453361	$\frac{1}{4}$	20	"	"	1914972	$\frac{1}{4}$	20	"	"
120238	$\frac{1}{2}$	13	"	"	453363	$\frac{1}{4}$	20	"	"	1915146	$\frac{1}{4}$	20	"	"
120361	10	24	"	"	453433	10	32	"	"	1915339	$\frac{1}{4}$	20	"	"
120367	$\frac{1}{4}$	28	"	"	453434	8	32	"	"	1915508	$\frac{1}{2}$	13	"	Brass
120368	24	24	"	"	453782	$\frac{1}{2}$	13	"	Brass	1915509	$\frac{1}{2}$	13	"	"
120369	$\frac{3}{8}$	24	"	"	453784	$\frac{1}{2}$	13	"	"	1916056	$\frac{1}{4}$	28	"	Steel
120371	$\frac{1}{2}$	20	"	"	453786	$\frac{1}{4}$	20	"	Steel	1917525	$\frac{3}{8}$	18	"	"
120375	$\frac{1}{4}$	20	"	"	453787	$\frac{3}{8}$	16	"	Brass	1918224	$\frac{5}{16}$	18	"	"
120376	$\frac{1}{8}$	18	"	"	453848	$\frac{1}{4}$	20	"	Steel	1918650	$\frac{1}{8}$	24	"	"
120378	$\frac{1}{2}$	13	"	"	453930	$\frac{1}{8}$	24	"	"	1918906	8	32	"	"
120611	10	32	Square	"	453984	$\frac{3}{8}$	16	"	Brass	1919043	$\frac{1}{2}$	20	"	Brass
120614	10	32	Hex	"	453993	$\frac{1}{4}$	28	"	"	1919044	$\frac{1}{2}$	20	"	"
120622	8	32	"	"	453994	$\frac{1}{8}$	24	"	"	1919050	6	32	"	Steel
121743	12	24	"	"	453996	8	32	"	Steel	1919433	$\frac{3}{8}$	16	"	Brass
124645	$\frac{3}{4}$	16	"	"	454330	$\frac{1}{2}$	20	"	Brass	1919447	$\frac{5}{16}$	18	"	"
124818	$\frac{1}{4}$	20	"	"	454331	$\frac{1}{2}$	20	"	"	1919453	$\frac{3}{8}$	24	"	Steel
124824	$\frac{1}{8}$	18	"	"	455483	6	32	"	Steel	1919555	10	32	"	"
124829	$\frac{3}{8}$	16	"	"	802818	$\frac{1}{4}$	20	"	"	1919992	$\frac{5}{8}$	18	"	"
124920	$\frac{1}{8}$	24	"	"	805258	$\frac{3}{8}$	16	"	"	1920150	$\frac{1}{16}$	24	"	Brass
124925	$\frac{3}{8}$	24	"	"	812479	$\frac{3}{8}$	24	"	"	1920151	$\frac{1}{4}$	28	"	"
126177	$\frac{1}{4}$	20	Wing	"	817132	8	32	"	"	1920678	10	32	"	Steel
131258	$\frac{3}{4}$	16	Hex	"	817300	10	32	"	"	1921572	$\frac{5}{8}$	18	"	"
131395	$\frac{1}{2}$	20	Square	Steel	817363	8	32	"	"	1921809	10	32	"	"
134524	4	40	Hex	"	1835299	$\frac{3}{8}$	16	"	"	1923540	10	32	"	"
134530	6	32	"	"	1837397	10	32	"	"	1924828	10	32	"	"
134536	8	32	Square	"	1838562	$\frac{1}{4}$	20	"	"	1926524	10	32	"	"
134547	12	24	"	"	1842708	10	32	"	"	1926640	$\frac{1}{8}$	18	"	"
134551	$\frac{1}{2}$	20	Hex	"	1843521	12	24	"	"	1941097	$\frac{1}{16}$	18	"	"
134556	$\frac{1}{8}$	18	"	"	1865181	$\frac{1}{4}$	20	Square	"	1949160	10	32	"	"
134559	$\frac{1}{8}$	18	"	"	1866017	8	32	Hex	"	1949671	$\frac{3}{8}$	16	"	"
134560	$\frac{1}{8}$	18	"	Brass	1867926	$\frac{5}{8}$	18	"	"	1951409	8	32	"	"
134566	$\frac{3}{8}$	16	"	Steel	1868077	$\frac{5}{8}$	18	"	"	1957876	$\frac{7}{8}$	14	"	"
134569	$\frac{3}{8}$	16	"	"	1873333	$\frac{1}{2}$	13	"	"	1960369	$\frac{1}{4}$	20	"	"
134570	$\frac{3}{8}$	16	"	Brass	1873334	$\frac{1}{2}$	13	"	"	1967959	$\frac{3}{8}$	16	"	Brass
140630	2	56	"	"	1874909	$\frac{1}{2}$	20	"	"	9413359	10	42	"	Steel
140634	$\frac{3}{8}$	16	"	"	1880718	$\frac{1}{2}$	20	"	Brass	9413509	$\frac{1}{2}$	13	"	"
142212	10	32	"	"	1880810	$\frac{1}{4}$	20	"	Steel	9414418	$\frac{1}{2}$	13	"	"
142247	$\frac{1}{4}$	28	"	Steel	1880814	$\frac{1}{2}$	20	"	Brass	9415141	$\frac{1}{4}$	20	"	"
143179	8	32	"	"	1884129	8	32	"	Steel	9416184	$\frac{1}{4}$	28	"	"
193232	$\frac{1}{4}$	20	"	"	1900468	$\frac{5}{16}$	24	"	Brass	9417301	12	24	"	"
271506	$\frac{1}{8}$	20	"	"	1902493	$\frac{1}{4}$	20	"	Steel	9417380	$\frac{7}{8}$	14	"	"
273643	$\frac{1}{8}$	24	"	"	1903473	10	32	"	"	9418915	12	24	Square	"
274546	$\frac{3}{8}$	16	"	"	1903515	$\frac{1}{4}$	20	"	"					
274737	10	24	"	"	1904419	$\frac{3}{8}$	16	"	"					

- * 1. Nuts should be machine screw nut quality.
 2. Some type of protective treatment preferred for steel nuts; such as cadmium or zinc plating.
 3. In general hexagon-style nuts may be used to replace square or wing styles.



*LOCK WASHERS

Part No.	I.D. or Std. No.	Type	Part No.	I.D. or Std. No.	Type	Part No.	I.D. or Std. No.	Type	Part No.	I.D. or Std. No.	Type
17087	12	a	138557	5/8	c	453790	3/8	b	1913361	1/2	c
† 26153	10	a	138597	10	b	453791	8	c	1913696	3/4	c
† 31656	1/4	a	138599	10	e	453792	10	c	1913944	1/4	b
106497	10	a	138604	1/4	b	453795	10	d	1913946	10	b
106498	12	a	138607	1/4	e	453813	1/2	c	1914107	8	a
112723	1/8	a	141706	3/4	c	453844	8	a	† 1914144	1/4	a
114602	8	b	174916	1/4	d	453983	1/4	d	1914304	8	a
115543	6	c	178156	2	a	454007	6	a	1914550	5/8	c
115544	8	c	178349	6	d	455714	6	c	1914578	6	a
115545	10	c	178378	10	d	455715	1/4	b	1914648	1/2	a
120214	1/8	a	273538	10	b	455846	8	a	1914816	6	a
120381	3/8	a	273565	4	d	455847	10	a	1914973	1/4	a
120382	3/8	a	273588	1/8	a	455849	10	a	1915009	10	a
120423	1/4	c	273591	5/8	a	456134	1/8	c	1915081	8	a
120638	1/8	a	273710	8	a	456319	10	c	1915265	3/4	a
121621	1/8	a	273733	1/4	a	456413	6	a	1915334	8	a
121637	1/4	a	274545	10	c	456955	8	a	1915405	10	c
121752	8	b	274709	1/4	a	808449	1/8	a	1915805	1/4	a
121753	1/4	b	453288	10	a	820516	1/8	a	1916055	1/4	c
121801	10	c	453289	6	a	† 1854058	1/8	a	1916070	8	c
131043	4	a	453290	3/8	a	† 1855978	1/4	a	1916930	8	b
131044	6	a	453294	1/4	a	1862346	1/4	a	1917014	10	c
131093	4	a	453295	4	a	† 1868137	1/4	a	1918620	10	a
131095	8	a	453296	10	a	1869533	1/4	a	1928490	1/4	a
131096	10	a	453297	3/8	a	1872430	1/4	d	1928492	8	a
131098	1/4	a	453298	1/2	a	1873008	1/4	a	1928506	1/4	a
131099	3/8	a	453299	8	a	1873844	8	a	1946143	8	a
131183	10	a	453301	1/8	a	1874495	1/4	a	1957875	1/8	a
135629	1/2	b	453303	1/4	a	† 1874777	1/4	a	9416003	8	c
138479	10	b	453306	8	a	1877510	10	a	9416005	8	c
138484	1/4	b	453329	6	a	† 1878503	1/8	a	9416033	8	b
138485	1/8	b	453330	1/4	e	1878505	5	a	9421421	4	a
138489	3/8	b	453435	10	a	1885558	10	a	9421423	1/4	a
138526	6	c	453467	1/8	a	1888439	3/4	a	9421424	1/8	a
138530	8	c	453472	6	b	1900310	1/4	a	9421425	3/8	a
138535	10	c	453473	8	b	1901834	8	c	9421426	1/8	a
138537	1/4	c	453474	10	b	1902494	1/2	a	9421427	1/2	a
138538	1/8	c	453475	1/4	b	1904376	8	a	9421428	5/8	a
138542	3/8	c	453704	1/4	c	1904377	6	a	9421429	2	a
138545	3/8	c	453709	3/8	c	1904615	8	a	9422354	10	a
138549	1/2	c	453789	10	a	1904988	1/4	a	9427864	1/2	b

- * 1. Some type of protective treatment preferred; such as cadmium or zinc plating.
 2. As a general rule, lockwasher types are interchangeable.
 † Lock Clip—Use standard lock washer to service.

Revised to March 15, 1965

SERVICE PARTS CATALOG

*WOODRUFF KEYS

Part No.	Std. No.	Thick-ness	Length	Part No.	Std. No.	Thick-ness	Length	Part No.	Std. No.	Thick-ness	Length
34329	60	$\frac{5}{32}$	$\frac{5}{8}$	113782	150	$\frac{1}{4}$	1	124548	80	$\frac{5}{32}$	$\frac{3}{4}$
103904	20	$\frac{5}{32}$	$\frac{1}{2}$	120502	110	$\frac{3}{16}$	$\frac{7}{8}$	431787	61	$\frac{3}{16}$	$\frac{5}{8}$
103905	50	$\frac{1}{8}$	$\frac{5}{8}$	124541	10	$\frac{1}{16}$	$\frac{1}{2}$	453325	60	$\frac{5}{32}$	$\frac{5}{8}$
103906	80	$\frac{5}{32}$	$\frac{3}{4}$	124542	20	$\frac{3}{32}$	$\frac{1}{2}$	454440	90	$\frac{3}{16}$	$\frac{3}{4}$
103907	110	$\frac{1}{16}$	$\frac{7}{8}$	124543	30	$\frac{1}{8}$	$\frac{1}{2}$	454442	110	$\frac{3}{16}$	$\frac{7}{8}$
106749	30	$\frac{1}{8}$	$\frac{1}{2}$	124544	40	$\frac{3}{32}$	$\frac{5}{8}$	1838095	40	$\frac{3}{32}$	$\frac{5}{8}$
106750	60	$\frac{5}{32}$	$\frac{5}{8}$	124545	50	$\frac{1}{8}$	$\frac{5}{8}$	1913948	60	$\frac{5}{32}$	$\frac{5}{8}$
106751	9	$\frac{3}{16}$	$\frac{3}{4}$	124546	60	$\frac{5}{32}$	$\frac{5}{8}$	9411661	90	$\frac{3}{16}$	$\frac{3}{4}$

*COTTER PINS

Part No.	Dia.	Length	Part No.	Dia.	Length	Part No.	Dia.	Length
103361	$\frac{1}{16}$	$\frac{1}{16}$	145368	$\frac{3}{32}$	$\frac{1}{2}$	1838599	$\frac{3}{32}$	$\frac{1}{2}$
107761	$\frac{1}{16}$	$\frac{3}{8}$	453311	$\frac{1}{8}$	$2\frac{1}{2}$	1872652	$\frac{3}{32}$	$1\frac{1}{2}$
112526	$\frac{1}{16}$	$\frac{1}{8}$	453323	$\frac{1}{8}$	$\frac{1}{2}$	1900192	$\frac{1}{8}$	$2\frac{1}{2}$
112726	$\frac{1}{16}$	$\frac{1}{2}$	453702	$\frac{1}{8}$	$1\frac{1}{2}$	1913131	$\frac{3}{32}$	$1\frac{1}{2}$
119981	$\frac{1}{16}$	$\frac{3}{8}$	453900	$\frac{1}{16}$	$\frac{3}{8}$	1914237	$\frac{1}{16}$	$\frac{7}{8}$
137130	$\frac{1}{16}$	$\frac{1}{8}$	453991	$\frac{3}{32}$	$1\frac{1}{8}$	1915611	$\frac{1}{16}$	$\frac{3}{8}$
137133	$\frac{1}{16}$	$\frac{1}{8}$	454393	$\frac{1}{16}$	$\frac{1}{8}$	1916221	$\frac{1}{8}$	$1\frac{1}{2}$
137204	$\frac{1}{8}$	$1\frac{1}{2}$	817666	$\frac{1}{16}$	$\frac{1}{16}$			

* Some type of protective treatment is preferred for cotter pins and keys; such as, cadmium or zinc plating.