

Eng NO

11753

11753

ADD 20% TO Prices
March 1970

T U S C A R A W A S C O U N T Y A V I A T I O N, I N C.

M U N I C I P A L A I R P O R T

N E W P H I L A D E L P H I A, O H I O

Kenny Hubler - E.T.
-39 - Crane Village
Possible Bmg Rdo Shop
Dagger 257rs

Ed Hansen

Uding - Sullivan 44663
-IA-

2733
150
2583

41.94
190
43.84

FRANKLIN ENGINE PARTS & PRICE CATALOG
FOR MODELS 6A4-150-B3 AND 6A4-145-A3
ENGINES

NOTICE: ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE .

April 20, 1968

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
<u>CAMSHAFT</u>			
*10199 (17656)	Camshaft	1	\$ 81.35
17543	Gear-Camshaft (To Engine 11808 Incl.)	1	90.44
17655	Gear-Camshaft (Engine 11809 and up)	1	115.77
17707	Bushing-Camshaft	8	2.14
6x15	Key-Woodruff #6, Gear To Shaft	1	.06

*When using camshaft #10199 to replace cast iron camshaft #17656, gear #17543 must be substituted for #17655.

<u>CRANKCASE</u>			
18218	Crankcase Assembly - (Engine 11021 and up) (Without Fuel Pump)	1	1003.52
17516	Crankcase Half (Cyl. 2-4-6 Half))Not Furnished		2.44
17515	Crankcase Half (Cyl. 1-3-5 Half))Separately		
#17716	Stud-Crankshaft Brg., Inside Front Upper With Dowel	1	2.44
#17715	Stud-C'shaft Brg., Inside Front Lower & Center	5	2.03
#17714	Stud-C'shaft Brg., Upper Rear With Dowel	1	3.67
#17713	Stud-C'shaft Brg., Lower Rear	1	2.34
#17712	Stud-Crankcase Front Tie	1	3.07
#17711	Stud-C'shaft Brg., Outside Front	2	3.51
#17710	Stud-Camshaft Bearing	4	3.47
17709	Dowel-C'case, 3 In C'case, 4 In Eng. Mtg. Brkt.	7	1.68
#17661	Stud-Cylinder Hold-down 7/16	24	1.41
#17660	Stud-Cylinder Hold-down 3/8	24	1.41
12201	Nut-Sltd. 3/8-24, Inside C'shaft Brg. Stud	6	.87
14243 (19021)	Washer-Crankshaft Bearing Stud	10	.29
23x63	Nut-Elastic Stop 3/8-24, Outside C'shaft Brg. Stud	4	.24
23x62	Nut-Elastic Stop 6/16-24, Tie Bolt & Stud	7	.39
5x22	Washer-Plain 5/16, Tie Bolt & Camshaft Brg. Stud	17	.06
2x225	Screw-Hex Hd. Body 5/16-24x7 3/16, Bottom Tie Bolt	3	2.51
2x232	Screw-Hex Hd. 5/16-24x1 3/8, Bottom Tie Bolt	3	.30
3x84	Nut-Castle 5/16-24, Camshaft Bearing Stud	4	.16
28x83	Dowel-1/4x3/4, In Crankcase To Timing Case	2	1.03
18243	Dowel-Ph. Bronze, Thrust Washer to Crankcase	8	1.42
8x118 (8x114)	Pin-Cotter 1/16x5/8, Camshaft Bearing Stud	4	.06
7x31	Plug-Slotted Headless Pipe 1/8	3	.11
7x32 (7x36)	Plug-Slotted Headless Pipe 1/4 (Plug Holes In Oil Header)	3	.45
31x21	Thread-Silk	10"	.02 ft.
18219	Crankcase Assembly - (Engine 11021 and up) (With Fuel Pump)	1	1003.52
17516	Crankcase Half (Cyl. 2-4-6 Half))Not Furnished		
17515	Crankcase Half (Cyl. 1-3-5 Half))Separately		
#17716	Stud-C'shaft Brg., Inside Front Upper With Dowel	1	2.44
#17715	Stud-C'shaft Brg., Inside Front Lower & Center	5	2.03
#17714	Stud-C'shaft Br., Upper Rear With Dowel	1	3.67
#17713	Stud-Crankshaft Bearing, Lower Rear	1	3.06
#17712	Stud-Crankcase Front Tie	1	3.07
#17711	Stud-Crankshaft Bearing, Outside Front	2	3.51

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
(Crankcase Assembly - (Engine 11021 and Up Continued)			
#17710	Stud-Camshaft Bearing	4	\$ 3.47
17709	Dowel-C'case, 3 In C'Case, 4 In Eng. Mtg. Brkt.	7	1.68
#17661	Stud-Cylinder Hold-down 7/16	24	1.58
#17760	Stud-Cylinder Hold-down 3/8	24	1.58
12201	Nut-Sltd. 3/8-24, Inside C'shaft Bearing Stud	6	.87
14243 (19021)	Washer-Crankshaft Bearing Stud	10	.29
23x63	Nut-Elastic Stop 3/8-24, Outside C'shaft Brg. Stud	4	.14
23x62	Nut-Elastic Stop 5/16-24, Tie Bolt & Stud	7	.39
5x22	Washer-Plain 5/16, Tie Bolt & Camshaft Brg. Stud	17	.06
2x225	Screw-Hex Hd. 5/16-24x7 3/16) Bottom	3	2.51
2x232	Screw-Hex Hd. 5/16-24x1 3/8) Tie Bolt	3	.30
3x84	Nut-Castle 5/16-24, Camshaft Bearing Stud	4	.16
28x83	Dowel-1/4x3/4, In Crankcase To Timing Case	2	1.03
28243	Dowel-Ph. Bronze, Thrust Washer To Crankcase	8	1.42
8x118 (8x114)	Pin-Cotter 1/16x5/8, Camshaft Bearing Stud	4	.06
7x31	Plug-Slotted Headless Pipe 1/8	1	.11
7x32 (7x36)	Plug-Sltd. Headless Pipe 1/4, (Plug Holes In Oil Header)	3	.45
31x21	Thread-Silk	10"	.02 Ft.
18017 (18218)	Crankcase Assembly - (To Engine 11020 Incl.)	1	1003.52
17516	Crankcase Half (Cly. 2-4-6 Half))Not Furnished		
18015	Crankcase Half (Cyl. 1-3-5 Half))Separately		
#17716	Stud-C'shaft Brg., Inside Front Upper With Dowel	1	2.44
#17715	Stud-C'shaft Brg., Inside Front Lower & Center	5	2.03
#17714	Stud-C'shaft Brg., Upper Rear With Dowel	1	3.67
#17713	Stud-Crankshaft Bearing, Lower Rear	1	2.34
#17712	Stud-Crankcase, Front Tie	1	3.07
#17711	Stud-Crankshaft Bearing, Outside Front	2	3.51
#17710	Stud-Camshaft Bearing	4	3.47
17709	Dowel-C'case, 2 In C'case, 4 In Eng. Mtg. Brkt.	6	1.68
#17661	Stud-Cylinder Hold-down 7/16	24	1.58
#17660	Stud-Cylinder Hold-down 3/8	24	1.58
12201	Nut-Sltd. 3/8-24, Inside C'shaft Bearing Stud	6	.87
14243 (19021)	Washer-Crankshaft Bearing Stud	10	.29
23x63	Nut-Elastic Stop 3/8-24, Outside C'shaft Brg. Stud	4	.24
23x62	Nut-Elastic Stop 5/16-24, Tie Bolt & Stud	7	.39
5x22	Washer-Plain 5/16, Tie Bolt & Camshaft Brg. Stud	17	.06
2x225	Screw-Hex Hd. 5/16-24x7 3/16)Bottom	3	2.51
2x232	Screw-Hex Hd. 5/16-24x1 3/8)Tie Bolt	3	.30
3x84	Nut-Castle 5/16-24, Camshaft Bearing Stud	4	.16
28x83	Dowel-1/4x3/4, In Crankcase To Timing Case	2	1.03
28x841	Dowel-Ph. Bronze, Thrust Washer to Crankcase	8	.16
7x31	Plug-Slotted Headless Pipe 1/8 (1 Required When Fuel Pump Is Installed)	3	.11
7x32 (7x36)	Plug-Slotted Headless Pipe 1/4 (Plug Holes In Oil Header)	3	.45
8x118 (8x114)	Pin-Cotter 1/16x5/8, Camshaft Bearing Stud	4	.06
31x21	Thread-Silk	10"	.02 Ft.
17225	Plate-Oil By-Pass	1	25.91
17224	Gasket-Oil By-Pass Plate) To		
19x17	Washer-Shakeproof Lock 5/16,) Engine		
	Oil By-Pass Plate) No. 11020	4	.03
) Incl.		

Oversize Only

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
2x176	Screw-Hex Hd. 5/16-18x1 3/8,)To Engine		
	Oil By-Pass Plate)No. 11020 Incl.	4	\$.15
17717	Stud-Mtg. Brkt. (When replacement is necessary, use Screw 2x190)	8	1.16
17862	Plate-Oil By-Pass)	1	42.46
17613	Gasket-Oil By-Pass Plate) Engine	1	.26
19x14	Washer-Shakeproof Lock 1/4)No. 11021		
	Oil By-Pass Plate) and	5	.03
2x164	Screw-Hex Hd. 1/4-20x1) up By-Pass Plate to C'case)"	5	.17
3x84	Nut-Castle 5/16-24, Mtg. Brkt. Stud)Used Only on	8	.16
5x22	Washer-Plain 5/16, Mtg. Bracket)Eng. Equipped	8	.06
32x14	Wire-Steel Lacing, .041)With Mtg.Brkt.)Studs 32"		.03 Ft.
2x169	Screw-Hex Hd. 5/16-18x5/8)Crankcase Cover)To	16	.13
19x17	Washer-Shakeproof Lock 5/16)Crankcase	16	.03
17884	Bracket-Eng. Mtg. (3 Req. When Fuel Pump is Installed)	4	9.03
11923	Bracket-Engine Mounting & Fuel Pump) Bellanca	1	10.85
10359	Gasket-Fuel Pump Bracket)	1	.12
10501	Washer-Engine Mounting Bracket	8	.24
19x17	Washer-Shakeproof Lock 5/16, Eng. Mtg. Brkt.	8	.03
2x190	Screw-Hex Hd. 5/16-18x7/8, Mounting Brkt.	8	.18
24x32	Rubber-Crankcase Packing (14")	1	1.01
10371	Packing-Crankcase Bearing Stud	3	.29
10246	Bushing-Engine Mounting Rubber	8	.39
10105	Packing-Crankcase Bolt, Stud & Oil Header	5	.57
17765	Cover Assembly-Crankcase	1	18.36
17086	Cover-Crankcase) Not Furnished		
17198	Neck-Oil Filler) Separately		
10153 (18532)	Gasket-Crankcase Cover	1	1.27
18344	Seal-Oil Header)Replaces one 10105	1	1.20
18333	Washer-Oil Header Seal)after Engine #13967 #18344 Not Included in Gasket Set #18045	1	.16

CRANKSHAFT

18013	Crankshaft Assembly - (To Engine 11060 Incl.)	1	533.12
P-4106	Crankshaft - Not Furnished Separately		
#17536	Bushing-C'shaft Flange (Replace With Oversize Only)	8	2.70
17919 (18487)	Crankshaft Assembly - (Engine 11061 and up)	1	660.93
17926	Crankshaft - Not Furnished Separately		
#17536	Bushing-C'shaft Glange (Replace With Oversize Only)	8	2.70
17718	Retainer-Crankshaft Oil Seal	2	1.69
17725	Gear-Crankshaft	1	52.75
17662	Bolt-Propeller Hub	8	2.28
18014	Plate-Propeller Hub Front (To Engine 11060 Incl.)	1	3.03
17036	Seal-Crankshaft Oil	1	4.39
8x112 (8x120)	Pin-Cotter 3/32x3/4, Inside Bearing Stud	6	.08

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
CRANKSHAFT - Continued			
6x110 (19180)	Key-Woodruff #16, Gear to Shaft	2	\$ 1.69
5x23	Washer-Plain 3/8, Propeller To Shaft	8	.03
2x314	Screw-Dr. Hex Hd. 1/4-20x1/2, Retainer To Case	2	.59
17808	Washer-Crankshaft Thrust (Use In Pairs Only)	4	2.33
17577	Plate-Propeller Hub Front (Engine 11061 and up)	1	17.26
##17724	Bushing-C'shaft, Prop. End (Cyl. 2-4-6 Half)	2	6.55
##17723	Bushing-C'shaft, Prop. End (Cyl. 1-3-5 Half)	2	4.95
##17722	Bushing-C'shaft, Gear End (Cyl. 2-4-6 Half)	1	3.80
##17721	Bushing-C'shaft, Gear End (Cyl. 1-3-5 Half)	1	4.28
##17720	Bushing-C'shaft, Center (Cyl. 2-4-6 Half)	2	4.24
##17719	Bushing-C'shaft, Center (Cyl. 1-3-5 Half)	2	4.47

CYLINDER

*17999 (18431)	Cylinder Assembly - (To Engine 12508 Incl.)	6	275.78
17690	Cylinder - Not Furnished Separately		
17518	Liner-Cylinder	6	10.38
14248	Screw-Cylinder Liner Lock	24	.35
18391	Pin-Cylinder Liner Lock	12	.46
#17316 (18342)	Guide-Exhaust Valve	6	2.79
#18499	Insert-Exhaust Valve Seat	6	
	Use 19975-2 +.002		7.26
	19975-5 +.005		7.35
	19975-10 +.010		7.41
#17668 (18339)	Guide-Inlet Valve	6	2.64
#18498	Insert-Inlet Valve Seat	6	
	Use 19974-2 +.002		7.13
	19974-5 +.005		7.22
	19974-10 +.010		7.32
17475	Insert-Spark Plug Helicoil	18	2.83
10234	Plug-Spart Plug Hole	6	3.37
11846 (19347)	Gasket- Spark Plug Hole	6	.29
#17563	Stud-Exhaust Pipe Flange	12	1.90
2x191	Screw-Hex Hd. 5/16-18x1 3/4) Rocker Pin	18	.24
14872	Washer-Lock, Use With 17608) To & 17607 Rockers) Cylinder	18	.25
19x17	Washer-Lock, Use With 17758 & 18067 Rockers	18	.03

* When installing exhaust & Inlet valve rocker assemblies Nos. 17607, New No. (19523) & 17608, New No. (19524) on Engines Nos. 11001 to 11020 inclusive, relief must be drilled in cylinder head to provide clearance for sufficient travel of the stamped type valve rocker.

18431	Cylinder Assembly - (Engine 12509 and up)	6	275.78
17690	Cylinder - Not Furnished Separately		
17518	Liner-Cylinder	6	10.38
14248	Screw-Cylinder Liner Lock	24	.35
18391	Pin-Cylinder Liner Lock	12	.46
#18112	Guide-Exhaust Valve	6	
	Use 18342 +.002		2.79
	18343 +.005		3.00
#18111	Guide-Inlet Valve	6	
	Use 18339 +.002		2.64
	18340 +.005		2.83

Oversize Only
Available in Undersize

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
#18499	Insert-Exhaust Valve Seat	6	
	Use 19975-2 +.002		\$ 7.26
	19975-5 +.005		7.35
	19975-10 +.010		7.41
#18498	Insert-Inlet Valve Seat	6	
	Use 19974-2 +.002		7.13
	19974-5 +.005		7.22
	19974-10 +.010		7.32
17475	Insert-Spark Plug Helicoil	18	2.83
10234	Plug-Spark Plug Hole	6	3.37
11846 (19347)	Gasket-Spark Plug Hole Plug	6	.29
17563	Stud-Exhaust Pipe Flange	12	1.90
23			
25x12	Palnut-7/16-20) Cylinder	24	.11
23x11	Palnut-3/8-24) To	24	.05
3x94 (19484)	Nut-Hex 3/8-24) Crankcase	24	.64
3x92 (19485)	Nut-Hex 7/16-20)	24	.43
14243 (19021)	Washer-Plain 3/8, Cylinder Hold-down Stud	24	.29
17670 (19022)	Washer-Plain 7/16, Cylinder Hold-down Stud	24	.29
18048	Ring-Cylinder Seal (To Engine 11020 Incl.)	6	1.46
17729	Ring-Cylinder Seal (Engine 11021 and up)	6	1.19

CYLINDER EXCHANGE PLAN

Factory reconditioned cylinder assemblies will be furnished at a price of \$60.00, less valves or \$80.00, with valves each F.O.B., Syracuse, New York, upon receipt of reworkable cylinder assemblies. Cylinders acceptable under this exchange plan must have not more than one square inch of fin area broken, none of which must be near the exhaust port, they must not have unapproved spark plug bushings installed or spark plug holes enlarged sufficiently to prevent installation of new spark plug inserts and the cylinder hold-down flange must not be damaged. Returned cylinders should be plainly tagged that they are being shipped under the exchange plan.

VALVE MECHANISM

18084	Valve-Exhaust (Eng. 12509 & up) Stem Dia. Between Valve Hd. & Locking Groove (.4350 Stem Dia.)	6	19.16
17339 (18084)	Valve-Exhaust (To Eng. 12508 Incl.) (.3725 Stem Dia.)	6	19.16
10908	Valve-Inlet	6	7.02
10824	Spring-Valve	12	2.37
17726	Washer-Valve Spring, Upper	12	1.21
10189	Washer-Valve Spring, Lower	12	.11
10770	Washer-Valve Spring, Shim 1/64	As Req.	.11
10202	Washer-Valve Spring, Shim 1/32	As Req.	.11
10032	Key-Valve Spring Retaining	24	.13
18651 (19524)	Rocker Assembly-Exhaust Valve (Forged Type)	6	12.41
18649	Rocker-Exhaust Valve) Not Furnished		
17404	Bushing-Valve Rocker) Separately		
18650 (19523)	Rocker Assembly-Inlet Valve (Forged Type)	6	12.41
18648	Rocker-Inlet Valve) Not Furnished		
17404	Bushing-Valve Rocker) Separately		

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
17411	Support-Valve Rocker, Outer)Used With	12	\$ 3.09
17410	Support-Valve Rocker, Center)Forged Rockers	6	5.50
17409	Screw-Valve Rocker Adj. 5/16)Nos. 17758 and	12	4.95
3x214	Nut-Hex Jam 5/16-24, Adj.Screw)18067	12	1.08
2x191	Screw-Hex Hd. 5/16-18x1 3/4)	18	.24
14872	Washer-Lock (Used With 17607 &) Rocker 17608 Rockers) Pin	18	.25
19x17	Washer-Shakeproof Lock (Used) To With 17758 and 18067 Rckrs.) Cylinder- Only)	18	.03
17654	Screw-Valve Rocker Adjusting 3/8	12	4.63
3x210	Nut-Hex Jam 3/8-24, Adjusting Screw	12	.11
17628	Support-Valve Rocker, Outer)Used With Stamp-12	12	3.00
17627	Support-Valve Rocker, Center)ed Rockers Nos.	6	2.95
17654	Screw-Valve Rocker Adjusting)17607 and	12	4.63
3x210	Nut-Hex Jam 3/8-24, Adj. Screw)17608	12	.11
18012 (19302)	Pin Assembly-Valve Rocker	6	5.16
17728	Pin-Valve Rocker)Not		
27x18	Plug-Expansion 3/8, Rocker)Furnished Pin)Separately		
17727	Gasket-Valve Cover	6	.63
18561	Cover-Valve	6	5.26
12x28	Screw-Fill. Hd. 1/4-20x3/8)Value Cover	36	.11
19x14	Washer-Shakeproof Lock 1/4)To Cylinder	36	.03
23x15	Palnut-5/16-24) Rocker Pin	18	.05
5x22	Washer-Plain 5/16) To	18	.06
3x93	Nut-Hex 5/16-24) Cylinder	18	.11
17864	Packing-Valve Lifter Rod Tube	24	.41
17689	Rod Assembly-Valve Lifter	12	8.49
17688	Rod-Valve Lifter) Not		
17401	Button-Valve Lifter Rod) Furnished		
17400	Cup-Valve Lifter Rod) Separately		
16178 (18178)	Tube Assembly-Valve Lifter Rod	12	3.92
**17657	Tube-Valve Lifter Rod - Not Furnished Separately		
18072	Circlet-Valve Lifter Rod Guide	12	.40
18369 (17783)	Lifter-Valve	12	17.48
18662	Valve-Hydraulic Lifter (For 18369 Lifter)	12	1.22
15336	Ring-Hydraulic Lifter Valve Retaining (For 17783 Lifter)	12	.21

** When Valve Lifter #17659 is used, Circlet #18072 must be installed in Valve Lifter Tube.

MANIFOLD

17676	Pipe Assembly-Manifold Equalizer	2	4.98
17675	Pipe-Manifold Equalizer - Not Furnished Separately		

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
<u>MANIFOLD - Continued</u>			
17674	Adapter-Manifold Equal. Pipe (Not Furnished Separately)		
17680	Bracket-Manifold Equalizer Pipe	1	\$.85
17500	Manifold-Inlet	2	37.13
17673	Hose-Manifold Equalizer Pipe	1	1.28
18007 (19228)	Clamp-Hose	2	2.25
17672	Pipe-Distributing Zone	2	5.76
5456	Packing-Equalizer And Zone Pipe	6	.85
17454 (18213)	Zone-Distributing	1	49.73
17544	Flange-Exhaust Pipe	6	1.20
11252 (19813)	Flange-Distributing Zone Pipe	6	2.62
17671	Gasket-Inlet Manifold	6	.36
17545	Gasket-Exhaust Pipe	6	.41
18359 (2x13)	Screw-Inlet Manifold	12	.19
2x169	Screw-Hex Hd. 5/16-18x5/8, Pipes to Manifold	12	.13
2x332	Screw-Hex Dr. Hd. 1/4-20x2 1/2) Zone To	2	.49
5x21	Washer-Plain 1/4) Timing	2	.02
32x14	Wire-Lacing	9"	.03 Ft.
18520 (19487)	Nut-Exhaust Stud	12	.48
7x31	Plug-Sltd. Headless Pipe 1/8", Cylinder Primer Holes	2	.11
12x120	Screw-Rd. Hd. #10-32x1/2) Front Pipe	1	.11
19x15	Washer-Shakeproof Lock #10) To Bracket	1	.03
19x17	Washer-Shakeproof Lock 5/16, Pipes To Manifold Exhaust Flange & Manifold To Cylinder	24	.03

(If necessary Dist. Zone Assem. #18213 may be used including Dist. Zone #17454 and Carb. Stud #12254)

OIL LEVEL GAUGE-OIL COOLER-BREATHER

10728	Gauge Assembly-Oil Level	1	5.32
10727	Sleeve-Oil Level Gauge) Not Furnished		
10556	Collar-Oil Gauge) Separately		
18144	Cooler Assembly-Oil (To Engine 11660 Incl.)	1	<u>UNAVAILABLE</u>
17877	Cooler-Oil - Not Furnished Separately		
18141	Bar-Oil Cooler)	1	<u>UNAVAILABLE</u>
18142	Band-Oil Cooler) Reinforcing	2	<u>UNAVAILABLE</u>
18143	Rod-Oil Cooler)	4	<u>UNAVAILABLE</u>
3x37	Nut-Hex #8-32, Oil Cooler Reinforcing Bar	8	<u>UNAVAILABLE</u>
17856	Cooler-Oil (To Eng. 11020 Incl.)Service With Oil	1	<u>UNAVAILABLE</u>
17867 (18232)	Bracket-Oil Cooler, Odd Side)Cooler 18144 and	1	1.69
17866 (18231)	Bracket-Oil Cooler, Even Side)Use Pipes 18183	1	1.69
17694	Bumper-Oil Cooler Bracket)and 18184	2	.56
Note: 18554	Cooler Assembly-Oil - Newest	1	137.26
18183	Pipe-Oil Cooler Inlet)To Engine	1	10.62
18184	Pipe-Oil Cooler Return)11020 Incl.	1	10.62
18229	Cooler-Oil)Engine 11660	1	<u>UNAVAILABLE</u>
18232	Bracket-Oil Cooler, Even Side)and up	1	1.69

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
18231	Bracket-Oil Cooler, Odd Side) Engine	1	\$ 1.69
18230	Bracket-Oil Cooler Bumper) 11660	2	1.50
2x237	Screw-Hex Hd. 1/4-28x5/8,) and Cooler to Bracket) up	4	.12
17694	Bumper-Oil Cooler Bracket	2	.56
18554	Cooler Assembly-Oil (Substitute for #18229	1	137.26
18655 (18554)	Cooler-Oil	1	
18646 (19481)	Valve-Oil Cooler Thermostatic	1	32.67
18647	Gasket-Oil Cooler Thermostatic Valve	1	.52
17831	Tube-Crankcase Breather	1	6.14
10508	Cap-Oil Filler	1	5.79
8x17	Pin-Cotter 3/32x1/2, Rigid Tube To Starter Cover	1	.04
8x115	Pin-Cotter 3/32x1 1/4, Flex. Tube To Rigid Tube	1	.06
2x233	Screw-Hex Hd. 1/4-28x1/2) (To Engine 11659 Incl.)) Cooler	4	.08
5x21	Washer-Plain 1/4) To	4	.02
23x611	Nut-Elastic Stop 1/4-28) Bracket	4	.22
14688	Gasket-Oil Filler Cap	1	.62
18357	Bracket-Oil Cooler, Odd Side) For Service With	1	<u>UNAVAILABLE</u>
18358	Bracket-Oil Cooler, Even Side) Cast Oil Pan	1	<u>UNAVAILABLE</u>

OIL PUMP AND OIL PIPES

18011	Pump Assembly-Oil (To Engine 11020 Incl.)	1	<u>UNAVAILABLE</u>
17740	Body-Oil Pump	1	28.62
17736 (19887)	Gear-Oil Pump Drive	1	16.00
17735	Shaft-Oil Pump Stationary	1	2.70
17734	Shaft-Oil Pump Drive	1	3.17
18180	Gear-Oil Pump Shaft	1	19.43
17590 (19886)	Gear-Oil Pump Driven	1	16.00
17103	Cover Assembly-Oil Pump	1	<u>UNAVAILABLE</u>
10055	Cover-Oil Pump - Not Furnished Separately		
6x114	Key-Weedruff #212, Gears To Shaft	2	.11
14732 (18976)	Plunger-Oil Pump Relief Valve	1	8.97
10997	Spring-Oil Pump Relief Valve	1	1.87
18536	Nut-Oil Pump Relief Valve Spring	1	2.41
3x82	Nut-Castle 1/4-28, Inlet Pipe To Cover) To	2	.08
5x21	Washer-Plain 1/4, Inlet Pipe To Cover) Engine	2	.02
2x316	Screw-Hex Dr. Hd. 1/4-20x3 3/8, Pump) 11020	4	.50
	To C'Case) Incl.		
10095	Screen-Oil Inlet)	1	2.51
10091	Gasket-Oil Inlet Pipe)	1	.11
17159	Pipe-Oil Inlet)	1	18.64
17998	Pump Assembly-Oil (Engine 11021 and up)	1	90.80
17740	Body-Oil Pump	1	28.62
18329	Cover Assembly-Oil Pump	1	22.04
18275	Cover-Oil Pump) Not		
18328	Pipe-Inlet) Furnished		
15095	Stop-Oil Inlet Float) Separately		

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
17736 (19887)	Gear-Oil Pump Drive	1	16.00
17590 (19886)	Gear-Oil Pump Driven	1	16.00
18180	Gear-Oil Pump Shaft	1	19.43
17734	Shaft-Oil Pump Drive	1	3.17
17735	Shaft-Oil Pump Stationary	1	2.70
6x114	Key-Woodruff #212, Gears To Shaft	2	.11
17946	Bracket-Oil Inlet Pipe)	1	2.36
17948	Clamp-Oil Inlet Pipe)	1	<u>UNAVAILABLE</u>
14520	Float-Oil Inlet Pipe)	1	9.41
15114	Washer-Relief Valve Nut) Engine	2	.46
17932	Ball-Oil Cooler Relief Valve 9/16) No.	1	.85
17921	Cage-Cooler Relief Valve Ball) 11201	1	1.88
17913	Spring-Cooler Relief Valve) and	1	1.10
18536	Nut-Oil Pump & Cooler Relief Valve) up	2	2.41
10997	Spring-Oil Pump Relief Valve)	1	1.87
14732 (18976)	Plunger-Oil Pump Relief Valve)	1	8.97
2x331	Screw-Hex Dr. Hd. 1/4-20x2 3/4, Pump) To C'case)	4	.44
14946	Clip-Oil Inlet Float - (To Engine 13400 Incl.	1	4.10
5x21	Washer-Plain 1/4, Brkt. To C'case 2, Pump To C'case 4	6	.02
5x25	Washer-Plain #10, Clamp To Bracket	1	.03
8x116	Pin-Cotter 1/8x1, Oil Float	1	.06
12x213	Screw-Dr. Fill. Hd. 1/4-20x5/8, Bracket To Crankcase	2	.22
12x47	Screw-Dr. Fill. Hd. #10-32x1/2, Clamp To Brkt.	1	.22
23x41	Nut-Square #10-32, Clamp To Bracket	1	.11
32x14	Wire-Steel Lacing .041, Brkt. Clamp Spring Nut and Oil Pump	27"	.03 Ft.
17994	Elbow-Flared Tube 45°) Use With #17225	1	3.00
*17869	Pipe-Oil Cooler Inlet) By-Pass Plate -	1	<u>UNAVAILABLE</u>
*17868	Pipe-Oil Cooler Return) To Engine No.	1	<u>UNAVAILABLE</u>
14558	Sleeve-Coupling 1/2) 11020	1	<u>UNAVAILABLE</u>
* Use Oil Cooler Inlet Pipe No. 18183 and Return Pipe No. 18184 When Cooler No. 18144 is installed in place of No. 17856.			
14557	Nut-Coupling 1/2) Use With 17225	1	<u>UNAVAILABLE</u>
17564	Clamp-Hose) By-Pass Plate-	6	2.12
12369	Hose-Oil Cooler Pipe) To Engine No.	3	1.32
17x28	Nipple-Pipe 3/8) 11020 Incl.	1	1.79
17887	Pipe-Oil Cooler Return) Use With 17862	1	5.11
17695 (17x26)	Nipple-Pipe Thread 1/2) By-Pass Plate	1	1.97
17564	Clamp-Hose)	8	2.12
12369	Hose-Oil Cooler Pipe) Engine No.	4	1.32
17x28	Nipple-Pipe 3/8) 11021 and up	1	1.79
18092	Pipe-Oil Cooler Inlet)	1	2.33
18209 (18404, 17x26)	Pipe-Oil Cooler Inlet) Use With 18229	1	9.11
18182	Pipe-Oil Cooler Return) Oil Cooler	1	4.95

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
<u>OIL PAN</u>			
18Q00	Pan-Oil	1	\$ 26.30
18001	Bushing-Oil Drain Plug - Not Furnished Separately		
17579 (17898)	Plate-Oil Pan Flange	1	19.43
10239	Plug-Oil Drain	1	.40
#17865	Stud-Oil Pan, In Timing Case	1	1.66
10366	Gasket-Oil Pan	1	2.31
3x23	Nut-Hex 5/16-24, Oil Pan To Timing Case	3	.11
5x22	Washer-Plain 5/16, Oil Pan To Timing Case	3	.06
12x29	Screw-Fill. Hd. 5/16-18x3/4, Timing Case & C'case To Oil Pan	24	.22
19x17	Washer-Shakeproof Lock 5/16, Timing Case & C'case To Oil Pan	24	.03
23x15	Palnut-5/16, Oil Pan To Timing Gear Case	3	.05
32x14	Wire-Steel Lacing .041, Drain Plug	5"	.03 Ft.

CONNECTING RODS

17541 (19751)	Connecting Rod Assembly	6	60.84
17540	Rod-Connecting - Not Furnished Separately		
17738	Bushing-Connecting Rod Upper	6	1.38
17684 (19632)	Bolt-Connecting Rod	12	3.46
12201	Nut-Slotted 3/8-24	12	.87
17739	Bushing-Connecting Rod, Lower	12	2.83
8x112 (8x120)	Pin-Cotter 3/32x3/4, Connecting Rod Bolts	12	.08

PISTONS, PINS & RINGS

17554	Piston-7.0:1	6	17.96
@17658	Pin-Piston	6	13.58
17685	Plug-Piston Pin	12	2.03
17681 (18761)	Ring-Piston, Top Groove	6	2.25
17682 (18762)	Ring-Piston, 2nd Groove	6	2.25
17683 (18763)	Ring-Piston, 3rd Groove	6	2.49

TIMING GEAR CASE

18227 (18447)	Case Assembly-Timing Gear, Crankcase End	1	61.06
10123	Case-Timing Gear, Crankcase End - Not Furnished Separately		
#17865	Stud-Oil Pan, To Timing Case	1	2.08
#13006	Stud-Oil Pan, To Timing Case	2	1.74
18228 (18448)	Case Assembly-Timing Gear, Accessory End	1	69.20
17594	Case-Timing Gear, Acc. End - Not Furnished Separately		
#10369	Stud-Magneto	4	1.80
#5136	Stud-Generator	4	2.36
#17746	Stud-Starting Motor	2	1.52

Note: Service 18447 and 18448 in pairs to Engine No. 12947. Can be serviced separately with Engine No. 12948 and up.

Q Available in Oversize

Oversize Only

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
2x170	Screw-Hex Hd.)Hold 18227 and 18228	2	\$.13
19x113	Washer-Shakeproof Lock)Timing Gear Cases		
)Together	2	.09
18202	Bolt-Timing Gear Case Dowel	2	5.66
10085	Gasket-Timing Gear Case, Inner	1	1.06
10120	Gasket-Timing Gear Case, Outer	1	1.49
2x149	Screw-Hex Hd. 1/4-20x5/8, Timing Cases Together	10	.13
2x168	Screw-Hex Hd. 5/16-18x2 1/4, Timing Cases To		
	C'case	2	.21
2x318 (2x183)	Screw-Hex Dr. Hd. 5/16-18x7/8)Timing Cases	8	.16
5x22	Washer-Plain 5/16)To Crankcase	8	.06
19x14	Washer-Shakeproof Lock 1/4, Timing Cases		
	Together	10	.03
5x21	Washer-Plain 1/4, Dowel Bolt	2	.02
19x17	Washer-Shakeproof Lock 5/16, Timing Case to		
	C'case	2	.03
23x61	Nut-Elastic Stop 1/4-28, Dowel Bolt	2	.22
32x14	Wire-Steel Lacing .041, Timing Cases to		
	C'case	32"	.03 Ft.

CARBURETOR AND FUEL PUMP

17584	Carburetor (Marvel - #10-2971 MA3 SPA) (Stinson)	1	202.83
18004	Carburetor (Marvel - #10-2971-P MA3 SPA)	1	184.40
17962	Pump-Fuel (AC #15390720)	1	18.63
2x219	Screw-Hex Hd. 1/4-28x1 1/4)Bellanca	2	.24
11922	Rod-Fuel Pump Push, Outer)	1	2.46
10361	Rod-Fuel Pump Push, Inner)	1	3.00
10360	Gasket-Fuel Pump)	1	.46
10942	Gasket-Carburetor	1	.28
#12254	Stud-Carburetor	4	1.08
23x61	Nut-Elastic Stop 1/4-28, Carburetor To Zone	4	.22
32x14	Wire-Steel Lacing .041, Carburetor Throttle Lever6"		.03 Ft.

STARTER AND GENERATOR

10750	Motor-Starting (Delco 1109651)	1	90.94
11019	Switch-Solenoid, Starting	1	5.45
5632 (19233)	Gasket-Starting Motor	1	.65
17762 (18351)	Cover Assembly-Starters Drive Shaft	1	31.02
17761	Cover-Starters Drive Shaft - Not Furnished Separately		
5573	Tube-Crankcase Breather	1	2.52
17015	Gear & Hub Assembly-Starters	1	97.01
17014	Hub-Starters Gear) Not Furnished		
17748	Gear-Starters Ring) Separately		
10603	Gear-Generator	1	27.56
10602	Hub-Generator Gear)With 15 Amp. Generator	1	4.89
10601	Absorber-Generator)Only - To Engine 12813		
	Gear Shock)Incl. - Bellanca	8	.56

Oversize Only

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
**17996	Hub-Generator Gear)With 25 Amp. Generator	1	\$ 26.03
**17995 (19314)	Absorber-Generator)Only - All Stinson & Also Gear Shock)Ballanca, Eng. 12814 & up	1	1.60
17911	Housing-Tachometer Drive	1	23.87
10135 (17414)	Gasket-Tachometer Drive Housing	1	.30
17743	Gear-Tachometer Driven	1	4.19
17745	Sleeve-Tachometer Connector	1	13.56
17744	Connector-Tachometer Drive	1	5.51
18568 (19389)	Packing-Tachometer Drive	1	1.98
17556	Generator (Delco 1101877 - 25 Amp.))All Stinson	1	146.26
5637	Gasket-Generator)& Bellanca	1	.44
17559	Regulator-Voltage (Delco 1118263))Engs. #12814)and up	1	
18428	Generator (E.A.L. GFU 4101-15 Amp.))Bellanca	1	121.05
5637	Gasket-Generator)To Eng. No.	1	22.76
18188	Regulator-Voltage (E.A.L. VRS 4007C))12813 Incl.	1	22.76
→17741	Gasket-Starter Drive Shaft Cover	1	.27
2x150	Screw-Hex Hd. 1/4-20x3/4, Starter Cover To Timing Case	2	.13
2x166	Screw-Hex Hd. 1/4-20x1/2, Tach. Hsg. To Timing Case	2	.13
23x61	Nut-Elastic Stop 1/4-28, Generator To Timing Case	4	.22
23x63	Nut-Elastic Stop 3/8-24, Starter To Timing Case	2	.24
19x14	Washer-Shakeproof Lock, Starter Cover & Tach. Hsg. To Timing Case	4	.03

** See Service Bulletin #28 for Replacement of Generator Gear Shock Absorber and Generator Gear.

MAGNETO

11669	Gear Assembly-Magneto Drive	1	66.18
10130	Gear-Magneto Drive) Not Furnished		
17752	Hub-Magneto Drive Gear) Separately		
6x19	Key-Woodruff #61, Magneto Drive To Gear Hub	1	.16
17742	Gear-Tachometer Drive	1	5.71
18543	Gear-Magneto Driven (Absorber #19313 must be used)	2	28.91
11047	Magneto (Eisemann RFJHPE35)	2	78.40
11013	Adapter-Magneto	2	22.40
5512	Gasket-Magneto	4	.30
17751	Washer-Crankshaft Gear Nut Lock	1	1.31
17750	Nut-Crankshaft Gear	1	3.79
10601	Absorber-Magneto Gear Shock (With #11045 Gear Only)	16	.56
5x19	Washer-Plain 5/16, Magneto To Timing Case	4	.07
23x62	Nut-Elastic Stop 5/16-24, Magneto To Timing Cse.	4	.39
18560 (19313)	Absorber-Magneto Gear Shock (With #18543 Gear Only)	2	1.92

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
<u>FOLLOWING WIRES AND TERMINALS FOR EISEMANN MAGNETO</u>			
14x510	Wire Assembly-High Tension 36", #4 Top	1	\$ 2.44
14x59	Wire Assembly-High Tension 42", #6 Top	1	2.55
14x58	Wire Assembly-High Tension 29", #2 Top	1	2.32
14x57	Wire Assembly-High Tension 38", #5 Top	1	2.49
14x56	Wire Assembly-High Tension 35", #6 Bottom, #3 Top	2	2.44
14x55	Wire Assembly-High Tension 38", #5 Bottom	1	2.49
14x54	Wire Assembly-High Tension 31", #4 Bottom, #1 Top	2	2.37
14x53	Wire Assembly-High Tension 34", #3 Bottom	1	2.44
14x52	Wire Assembly-High Tension 23", #2 Bottom	1	2.32
14x51	Wire Assembly-High Tension 28", #1 Bottom	1	2.37
11073	Terminal-High Tension Wire, Magneto End	12	.81
5551	Terminal-High Tension Wire, Plug End (Straight)	8	.28
10720 (18191)	Terminal-High Tension Wire, Plug End (90°)	4	.64
5546	Plug-Spark (Champion J-10)	12	1.25
17953 (5546)	Plug-Spark (Auto-Lite A-4A) - Substitute	12	1.25
18164	Wire Assembly-Magneto Ground (Eiscmann) Less Adapter	2	7.99
18088	Magneto-Scintilla 10-51365-2 (Engine 13886 & up	2	86.55
18225	Wire Assembly-Magneto Ground (Scintilla)	2	5.67
18220	Terminal-Ground Wire)		
18436	Sleeve-Ground Wire)		
18222	Ferrule-Ground Wire, Inner) Not		
18223	Ferrule-Ground Wire, Outer) Furnished		
18224	Nut-Ground Wire) Separately		
14x3	Wire-Shielded Low Tension)		
<u>WIRES FROM EVEN SIDE SCINTILLA MAGNETO AS FOLLOWS:</u>			
14x472	Wire Assembly-High Tension 26", #1 Top, #4 Bottom	2	2.14
14x466	Wire Assembly-High Tension 20", #2 Bottom	1	1.96
14x478	Wire Assembly-High Tension 32", #3 Top	1	2.14
14x484	Wire Assembly-High Tension 38", #5 Top	1	2.18
14x480	Wire Assembly-High Tension 34", #6 Bottom	1	2.14
<u>WIRES FROM ODD SIDE SCINTILLA MAGNETO AS FOLLOWS:</u>			
14x415	Wire Assembly-High Tension 29", #1 Bottom	1	2.07
14x475	Wire Assembly-High Tension 29", #2 Top	1	2.11
14x421	Wire Assembly-High Tension 35", #3 Bottom	1	2.13
14x478	Wire Assembly-High Tension 32", #4 Top	1	2.14
14x429	Wire Assembly-High Tension 43", #5 Bottom	1	2.02
14x486	Wire Assembly-High Tension 40", #6 Top	1	2.24
25x41	Screw-#4x3/8 Parker Kalon, Type A, Terminal)	12	.22
5x121	Washer-#4 Plain, Terminal)	12	.02
18191	Terminal-H. T. Wire, Plug End 90°) For	3	.64
5551	Terminal-H. T. Wire, Plug End Straight) Scin-	9	.28
15029	Grommet-High Tension Wire) tilla	2	4.07
15030	Plate-Magneto Outlet)Magneto	2	5.23

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
4x115	Washer-Lock) Magneto Outlet) For Scin-	8	\$.01
12x42	Screw-Fill.Hd.)-Plate to Magneto)tilla Mgnto.	8	.11

Note: High Tension Wire Terminals (Plug End) Are Included In High Tension Wire Assemblies. Magneto #18088 Does Not Include Above Listed Parts.

18045	Gasket Assembly	1	40.01
<u>PISTONS, PINS & RINGS</u>			
17581 (17554)	Piston-6.5:1	6	17.96

FOR ALL OTHER PARTS REFER TO MODEL - A4-150-B3
PARTS LIST

SPARE PARTS PRICE LIST
IN NUMERICAL ORDER

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
2x149	Screw-Hex Hd. 1/4-20x5/8, Timing Cases Together	10	\$.13
2x150	Screw-Hex Hd. 1/4-20x3/4, Starter Cover to Timing Case	2	.13
2x164	Screw-Hex Hd. 1/4-20x1, By Pass Plate to C'case (Engine No. 11021 and up)	5	.17
2x166	Screw-Hex. Hd. 1/4-20x1/2, Tach. Hsg. To Timing Case	2	.13
2x168	Screw-Hex Hd. 5/16-18x2 1/4, Timing Case To C'case	2	.21
2x169	Screw-Hex Hd. 5/16-18x5/8, C'case To Cover 16, Pipes To Manifold 12	28	.13
2x170	Screw-Hex Hd., Timing Gear Case	2	.13
2x176	Screw-Hex Hd. 5/16-18x1 3/8, Oil By-Pass Plate	4	.15
2x190	Screw-Hex Hd. 5/16-18x7/8, Mounting Bracket	9	.18
2x191	Screw-Hex Hd. 5/16-18x1 3/4, Rocker Pin To Cylinder	18	.24
2x219	Screw-Hex Hd. 5/16-24x1 1/4, Fuel Pump to Brkt.	2	.24
2x225	Screw-Hex Hd. 5/16-24x7 3/16, Bottom Tie Bolt	3	2.51
2x232	Screw-Hex Hd. Body 5/16-24x1 3/8, Bottom Tie Bolt	3	.30
2x233	Screw-Hex Hd. 1/4-28x1/2, Cooler to Bracket	4	.08
2x237	Screw-Hex Hd. 1/4-28x5/8, Cooler to Bracket	4	.12
2x314	Screw-Hex Dr. Hd. 1/4-20x1/2, Retainer to C'case	2	.59
2x316	Screw-Hex Dr. Hd. 1/4-20x3 3/8, Pump To C'case (To Engine No. 11020 Incl.)	4	.50
2x318 (2x183)	Screw-Hex Dr. Hd. 5/16-18x7/8, Timing Case To C'case	8	.16
2x331	Screw-Hex Dr. Hd. 1/4-20x2 3/4, Oil Pump To C'case	4	.44
2x332	Screw-Hex Dr. Hd. 1/4-20x2 1/2, Zone To Timing Case	2	.49
3x37	Nut-#8-32, Oil Cooler Reinforcing Bar	8	<u>UNAVAILABLE</u>
3x82	Nut-Castle 1/4-28	2	.08
3x84	Nut-Castle 5/16-24	4	.16
3x92 (19485)	Nut-Hex 7/16-20	24	.43
3x93	Nut-Hex 5/16-24	21	.11
3x94 (19484)	Nut-Hex 3/8-24	24	.64
3x210	Nut-Hex Jam 3/8-24, (Used With Stamped Rocker	12	.11
3x214	Nut-Hex Jam 5/16-24 (Used With Forged Rocker	12	.08
5x19	Washer-Plain 5/16 (3/32" Thick)	4	.07
5x121	Washer-Plain #4	12	.06
5x21	Washer-Plain 1/4	14	.02
5x22	Washer-Plain 5/16 (1/16" Thick)	62	.06
5x23	Washer-Plain 3/8	8	.03
5x25	Washer-Plain #10	1	.03
6x15	Key-Woodruff #6, Camshaft Gear To Shaft	1	.06
6x19	Key-Woodruff #61, Magneto Drive Gear To Hub	1	.16
6x110 (19180)	Key-Woodruff #16, Gear To Shaft	2	1.69
6x114	Key-Woodruff #212, Oil Pump Gears To Shaft	2	.11
7x31	Plug-Sltd. Headless Pipe 1/8", Hole in C'case Prop. End & Sides 3, Clyinder Primer Holes 2	5	.11

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
7x32 (7x36)	Plug-Sltd. Headless Pipe 1/4", Oil Holes In Rear Case	3	\$.45
8x17	Pin-Cotter 3/32x1/2, Rigid Tube To Shaft Cover	1	.04
8x112 (8x120)	Pin-Cotter 3/32x3/4, Inside Brg. Studs 6, Connecting Rod Bolts 12	18	.08
8x115	Pin-Cotter 3/32x1 1/4, Flex. Tube To Rigid Tube	1	.06
8x116	Pin-Cotter 1/8x1, Oil Float (Engine 11021 & up)	1	.06
8x118 (8x114)	Pin-Cotter 1/16x5/8, Camshaft Bearing Stud	4	.06
12x28	Screw-Fill. Hd. 1/4-20x3/8, Valve Cover	36	.11
12x29	Screw-Fill. Hd. 5/16-18x3/4, Oil Pan to C'case And Timing Case	24	.22
12x47	Screw-Dr. Fill. Hd. #10-32x1/2, Clamp To Brkt.	1	.22
12x120	Screw-Rd. Hd. #10-32x1/2, Front Pipe To Brkt.	1	.11
12x213	Screw-Dr. Fill Hd. 1/4-20x5/8, Oil Inlet Bracket To Crankcase	2	.22
14x415	Wire Assembly-High Tension 29", #1 Bottom	1	2.07
14x421	Wire Assembly-High Tension 35", #3 Bottom	1	2.13
14x429	Wire Assembly-High Tension 43", #5 Bottom	1	2.02
14x466	Wire Assembly-High Tension 30", #2 Bottom	1	1.96
14x472	Wire Assembly-High Tension 26", #1 Top, #4 Bottom	2	2.14
14x475	Wire Assembly-High Tension 29", #2 Top	1	2.11
14x478	Wire Assembly-High Tension 32", #3 & #4 Top	2	2.14
14x480	Wire Assembly-High Tension 34", #6 Bottom	1	2.14
14x484	Wire Assembly-High Tension 38", #5 Top	1	2.18
14x486	Wire Assembly-High Tension 40", #6 Top	1	2.24
14x51	Wire Assembly-High Tension 28", #1 Bottom	1	2.37
14x52	Wire Assembly-High Tension 23", #2 Bottom	1	2.32
14x53	Wire Assembly-High Tension 34", #3 Bottom	1	2.44
14x54	Wire Assembly-High Tension 31", #4 Bottom, #1 Top	2	2.37
14x55	Wire Assembly-High Tension 38", #5 Bottom	1	2.49
14x56	Wire Assembly-High Tension 35", #6 Bottom, #3 Top	2	2.44
14x57	Wire Assembly-High Tension 38", #5 Top	1	2.49
14x58	Wire Assembly-High Tension 29", #2 Top	1	2.32
14x59	Wire Assembly-High Tension 42", #6 Top	1	2.55
14x510	Wire Assembly-High Tension 36", #4 Top	1	2.44
17x28	Nipple-3/8" Pipe Thread to 5/8 Hose, In By-Pass Plate Return	1	1.79
19x14	Washer-Shakeproof Lock 1/4	53	.03
19x15	Washer-Shakeproof Lock #10	1	.03
19x17	Washer-Shakeproof Lock 5/16	95	.03
19x113	Washer-Shakeproof Lock 3/8	2	.09
23x11	Palnut-3/8-24, Cylinder To Crankcase	24	.05
23x12	Palnut-7/16-20, Cylinder To Crankcase	24	.05
23x15	Palnut-5/16-24, Oil Pan Stud In Crankcase	21	.05
23x41	Nut-Square #10-32, Clamp To Bracket	1	.11
23x61	Nut-Elastic Stop 1/4-28	10	.22
23x62	Nut-Elastic Stop 5/16-24	13	.39
23x63	Nut-Elastic Stop 3/8-24	6	.24
23x611	Nut-Elastic Stop 1/4-28, Oil Cooler To Bracket	4	.22

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
24x32	Rubber-Crankcase Packing (14")	1	\$ 1.01
25x12	Screw-Parker Kalon #4	4	.11
25x41	Screw-Parker Kalon, Type A, Terminal, #4x3/8	12	.22
28x83	Dowel-1/4x3/4	2	1.03
28x841	Dowel-Ph. Bronze	8	.16
31x21	Thread-Silk	10"	.02 Ft.
32x14	Wire-Steel Lacing .041	111"	.03 Ft.
5255	Wrench-Spark Plug	1	<u>UNAVAILABLE</u>
5456	Packing-Equalizer & Zone Pipe	6	.85
5512	Gasket-Magneto	4	.30
5546	Plug-Spark (Champion J-10)	12	1.25
5551	Terminal-High Tension Wire, Plug End (Straight)	8	.28
5573	Tube-Crankcase Breather (In Starter Drive Shaft Cover)	1	2.52
5632 (19233)	Gasket-Starter	1	.65
5637	Gasket-Generator	1	.44
10032	Key-Valve Spring Washer Retaining	24	.13
10085	Gasket-Timing Gear Case, Inner	1	1.06
10091	Gasket-Oil Inlet Pipe) To Engine	1	.11
10095	Screen-Oil Inlet Pipe) 11020 Incl.	1	2.51
10105	Packing-Crankcase Bolt, Stud & Oil Header	5	.57
10120	Gasket-Timing Gear Case, Outer	1	1.49
10134	Adapter-Magneto	2	22.40
10135 (17414)	Gasket-Tachometer Drive Housing	1	.30
10153 (18532)	Gasket-Crankcase Cover	1	1.27
10189	Washer-Valve Spring Bottom	12	.11
10199 (17656)	Camshaft - (To Engine 11808 Incl.)	1	81.35
10202	Washer-Valve Spring Bottom Shim 1/32"	As Req.	.11
10234	Plug-Spark Plug Hole	6	3.37
10239	Plug-Oil Drain	1	.40
10246	Bushing-Engine Mounting Rubber	8	.39
10359	Gasket-Fuel Pump Bracket)	1	.12
10360	Gasket-Fuel Pump) Bellanca	1	.46
10361	Rod-Fuel Pump Push, Inner)	1	3.00
10366	Gasket-Oil Pan	1	2.31
10371	Packing-Crankcase Bearing Stud	3	.29
10501	Washer-Engine Mounting Bracket	8	.24
10508	Cap-Oil Filler	1	5.79
10601	Absorber-Mag. & Gen. Gear Shock, 8 Used With 15 Amp. Generator	24	.56
10602	Hub-Generator Gear (Bellanca)	1	4.89
10603	Gear-Generator	1	27.56
10720 (18191)	Terminal-High Tension Wire, Plug End (90°)	4	.64
10728	Gauge Assembly-Oil Level	1	5.32
10750	Motor-Starting (Delco 1109651)	1	90.94
10770	Washer-Valve Spring Bottom Shim 1/64"	As Req.	.11
10824	Spring-Valve	12	2.37
10908	Valve-Inlet	6	7.02
10942	Gasket-Carburetor	1	.28
10997	Spring-Oil Pump Relief Valve	1	1.87

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
11019	Switch-Starting Motor, Solenoid (Delco 1457)	1	\$ 5.45
11047	Magneto (Eisemann RFJHPE-35)	2	78.40
11073	Terminal-High Tension Wire, Magneto End	12	.81
11252	Flange-Distributing Zone Pipe	6	1.02
11259	Wrench-Socket Head, Manifold Screws	1	
11669	Gear Assembly-Magneto Drive	1	66.18
11846 (19347)	Gasket-Spark Plug Hole Plug	6	.29
11922	Rod-Fuel Pump Push, Outer) Bellanca	1	2.46
11923	Bracket-Mounting And Fuel Pump)	1	10.85
12201	Nut-Sltd. 3/8-24, Inside C'shaft Brg. Stud 6, Connecting Rod Bolts 12	18	.87
12369	Hose-Oil Cooler, Pipe	4	1.32
14243 (19021)	Washer-Plain 3/8, C'shaft Brg. Studs 10, Cylinder Hold-down Studs 24	34	.29
14248	Screw-Cylinder Liner Lock	24	.35
14520	Float-Oil Inlet (Engine 11021 and up)	1	9.41
14557	Nut-Coupling 1/2, Oil By-Pass Plate)To Eng.	1	<u>UNAVAILABLE</u>
14558	Sleeve-Coupling 1/2", In Oil By-Pass Plate)11020)Incl.	1	<u>UNAVAILABLE</u>
14688	Gasket-Oil Filler Cap	1	.62
14732 (18976)	Plunger-Oil Pump Relief Valve	1	8.97
14372	Washer-Lock, Use With 17608 and 17607 Rockers, Rocker Pin to Cylinder	18	.25
14946	Clip-Oil Inlet Float	1	4.10
15029	Grommet-High Tension Wire	2	4.07
15030	Plate-Magneto Outlet	2	5.23
15114	Washer-Relief Valve Nut	2	.46
15336	Ring-Hydraulic Lifter Valve Retaining (For No. 18369 Lifter)	12	.21
17015	Gear-Hub Assembly, Starter	1	90.01
17036	Seal-Crankshaft Oil	1	4.39
17103	Cover Assembly-Oil Pump) To	1	<u>UNAVAILABLE</u>
17159	Pipe-Oil Inlet) Engine	1	18.64
17224	Gasket-Oil By-Pass Plate) 11020	1	.25
17225	Plate-Oil By-Pass) Incl.	1	25.91
17339 (18084)	Valve-Exhaust (To Eng. 12508 Incl.).3725 Stem Dia.	6	19.16
17409	Screw-Valve Rocker Adj. 5/16 (Use With Forged Rocker)	12	4.95
17410	Support-Valve Rocker, Center	18	5.50
17411	Support-Valve Rocker, Outer	12	3.09
17454 (18213)	Zone Distributing	1	49.73
17475	Insert-Spark Plug Helicoil	12	2.83
17500	Manifold-Inlet	2	37.13
17518	Liner-Cylinder	6	10.38
17541 (19751)	Rod Assembly-Connecting	6	60.84
17543	Gear-Camshaft (To Engine 11808 Incl.)	1	90.44
17544	Flange-Exhaust Pipe	6	1.20
17545	Gasket-Exhaust Pipe	6	.41
17554	Piston-7.0:1	6	17.96
17556	Generator-25 Amp. (Delco 1101877)	1	146.26
17559	Regulator-Voltage 25 Amp. (Delco 118263)	1	23.83

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
17564	Clamp-Hose	8	\$ 2.12
17577	Plate-Propeller Hub Front (Engine 11061 & up)	1	17.26
17579 (17898)	Plate-Oil Pan Flange	1	19.43
17584	Carburetor-(Marvel #10-2971 MA 3 SPA)	1	202.83
17590 (19886)	Gear-Oil Pump Driven	1	16.00
17607 (19523)	Rocker Assembly-Valve Inlet) Stamping Eng.	6	12.41
17608 (19524)	Rocker Assembly-Valve Exhaust) 11494 & up	6	12.41
17613	Gasket-Oil By-Pass Plate (Engine 11021 and up)	1	.26
17627	Support-Valve Rocker, Center) Stamping Eng.	6	2.95
17628	Support-Valve Rocker, Outer) 11494 and up	12	3.00
17654	Screw-Valve Rocker Adj. 3/8 (Use With Stamped Rocker)	12	4.63
17655	Gear-Camshaft (Engine 11809 and up)	1	115.77
@17658	Pin-Piston	6	13.57
17662	Bolt-Propeller Hub	8	2.28
17670 (19022)	Washer-Cylinder Hold-down (7/16") Plain	24	.29
17671	Gasket-Inlet Manifold To Cylinder	6	.36
17672	Pipe-Distributing Zone	2	5.76
17673	Hose-Manifold Equalizer Pipe	1	1.28
17676	Pipe Assembly-Manifold Equalizer	2	4.98
17680	Bracket-Manifold Equalizer Pipe	1	.85
17681 (18761)	Ring-Piston, Top Groove	6	2.25
17682 (18762)	Ring-Piston, Second Groove	6	2.25
17683 (18763)	Ring-Piston, Third Groove	6	2.49
17684 (19632)	Bolt-Connecting Rod	12	3.46
17685	Plug-Piston Pin	12	2.03
17689	Rod Assembly-Valve Lifter	12	8.49
17694	Bumper-Oil Cooler Bracket	2	.56
17695 (17x26)	Nipple-Oil Cooler Return Pipe, 1/2 Pipe Thread 5/8 Hose (Engine 11021 and up)	1	1.97
17707	Bushing-Camshaft (Cyl. 1-3-5 Half)	4	2.14
17708 (17707)	Bushing-Camshaft (Cyl. 2-4-6 Half)	4	2.14
17709	Dowel-Crankcase & Engine Mounting Bracket	7	1.68
17718	Retainer-Crankshaft Oil Seal	2	1.69
##17719	Bushing-Crankshaft (Cyl. 1-3-5 Center)	2	4.47
##17720	Bushing-Crankshaft (Cyl. 2-4-6 Center)	2	4.24
##17721	Bushing-Crankshaft (Cyl. 1-3-5 Gear End)	1	4.82
##17722	Bushing-Crankshaft (Cyl. 2-4-6 Gear End)	1	3.80
##17723	Bushing-Crankshaft (Cyl. 1-3-5 Prop. End)	2	4.95
##17724	Bushing-Crankshaft (Cyl. 2-4-6 Prop. End)	2	6.55
17725	Gear-Crankshaft	1	52.75
17726	Washer-Valve Spring, Upper	12	1.21
17727	Gasket-Valve Cover	6	.63
17729	Ring-Cylinder Seal (Engine 11021 and up)	6	1.19
17734	Shaft-Oil Pump Drive	1	3.17
17735	Shaft-Oil Pump Stationary	1	2.70
17736 (19887)	Gear-Oil Pump Drive	1	16.00
17738	Bushing-Connecting Rod, Upper	6	1.38
17739	Bushing-Connecting Rod, Lower	12	2.83
17740	Body-Oil Pump	1	28.62
17741	Gasket-Starter Shaft Cover	1	.27
17742	Gear-Tachometer Drive	1	5.71
17743	Gear-Tachometer Driven	1	4.19
17744	Connector-Tachometer Drive	1	5.51
17745	Sleeve-Tachometer Connector	1	13.56

@ Available in Oversize
 ## Available in Undersize

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
17750	Nut-Crankshaft Gear	1	\$ 3.79
17751	Washer-Crankshaft Gear Nut Lock	1	1.31
17762 (18351)	Cover Assembly-Starter Drive Shaft	1	31.02
17765	Cover Assembly-Crankcase	1	18.36
17808	Washer-Crankshaft Thrust (Use In Pairs Only)	4	2.33
17831	Tube-Crankcase Flexible, Aluminum 50"	1	6.14
17862	Plate-Oil By-Pass (Engine 11021 and up)	1	42.46
17864	Packing-Valve Lifter Rod Tube	24	.41
17866	Bracket-Oil Cooler, Even Side	1	2.54
17867 (18232)	Bracket-Oil Cooler, Odd Side	1	1.69
17868	Pipe-Oil Cooler Return) To Engine		<u>1UNAVAILABLE</u>
17869	Pipe-Oil Cooler Inlet) 11020 Incl.		<u>1UNAVAILABLE</u>
17884	Bracket-Eng. Mtg. (3 Req. When Fuel Pump Installed)	4	9.03
17887	Pipe-Oil Cooler Return (Engine 11021 and up)	1	5.11
17911	Housing-Tachometer Drive	1	23.87
17913	Spring-Oil Cooler Relief Valve (Eng. 11021 & up)	1	1.10
17919 (18487)	Crankshaft Assembly (Eng. 11061 and up)	1	660.93
17921	Cage-Oil Cooler Relief Valve Ball (Eng. 11021 and up)	1	1.88
17932	Ball-Oil Cooler Relief Valve (Eng. 11021 & up)	1	.85
17948	Clamp-Oil Inlet Pipe		<u>1UNAVAILABLE</u>
17949	Bracket-Oil Inlet Pipe	1	2.36
17953 (5546)	Plug-Spark (E.A.L. A-4A) Substitute	12	1.25
17962	Fuel Pump - AC SP-1539072	1	18.63
17994	Elbow-Flared Tube 45° 3/8 Pipe Thread (To Engine 11020 Incl.)	1	3.00
**17995	Absorber-Generator Gear	1	1.60
**17996	Hub-Generator Gear	1	26.03
17998	Oil Pump Assembly (Engine 11021 and up)	1	90.80
17999 (18431)	Cylinder Assembly (Less Valves & Springs)	6	275.78
18000	Pan-Oil	1	26.30
18004	Carburetor-Marvel #10-2971-P MA-3-SPA (Bellanca)	1	184.40
18007 (19228)	Clamp-Hose, Manifold Equalizer Pipe	2	2.25
18011	Oil Pump Assembly (To Engine 11020 Incl.)		<u>1UNAVAILABLE</u>
18012	Pin Assembly-Valve Rocker	6	7.77
18013	Crankshaft Assembly (To Engine 11060 Incl.)	1	533.12
18014	Plate-Propeller Hub Front (To Eng. 11060 Incl.)	1	3.03
18017 (18212)	Crankcase Assembly (To Eng. 11020 Incl.)	1	1003.52
18045	Gasket Assembly	1	40.01
18048	Ring-Cylinder Seal (To Engine 11020 Incl.)	6	1.46
18072	Circlet-Valve Lifter Rod Guide	12	.40
18084	Valve-Exhaust (Engine 12509 and up)	6	19.16
18088	Magneto-Scintilla 10-51365-2 (Eng. 13886 & up)	2	86.55
18092	Pipe-Oil Cooler Inlet	1	2.33
18141	Bar-Oil Cooler Reinforcing		<u>1UNAVAILABLE</u>
18142	Band-Oil Cooler Reinforcing		<u>2UNAVAILABLE</u>
18143	Rod-Oil Cooler Reinforcing		<u>4UNAVAILABLE</u>
18144	Cooler Assembly (To Engine 11660 Incl.)		<u>1UNAVAILABLE</u>
18164	Wire Assembly-Magneto Ground (Eisemann)	2	7.99
18178	Tube Assembly-Valve Lifter Rod	1	3.92
18180	Gear-Oil Pump	1	19.43
18182	Pipe-Oil Cooler Return (Use With 18229 Oil Cooler)	1	4.95

** See Service Bulletin No. 28 for Replacement of Generator Gear Shock Absorber and Generator Gear.

<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY.</u>	<u>PRICE</u>
18183	Pipe-Oil Cooler Inlet) To Engine	1	\$ 10.62
18184	Pipe-Oil Cooler Return) 11020 Incl.	1	10.62
18188	Regulator-(E.A.L. VRS-4014A - 15 Amp.) Bellanca (To Engine 12813 Incl.)	1	22.76
18191	Terminal-H. T. Wire, Plug End 90°	3	.64
18202	Bolt-Timing Gear Case Dowel	2	5.66
18209 (18404) (17x16)	Pipe-Oil Cooler Inlet	1	9.11
18218	Crankcase Assembly (Eng. 11021 & up) Without Fuel Pump	1	1003.52
18219	Crankcase Assembly (Eng. 11021 & up) With Fuel Pump	1	1003.52
18227 (18447)	Case Assembly-Timing Gear, Crankcase End	1	61.06
18228 (18448)	Case Assembly-Timing Gear, Accessory End	1	69.20
18229	Cooler-Oil (Engine 11660 and up)	1	<u>UNAVAILABLE</u>
18230	Bracket-Oil Cooler Bumper) Engine	2	1.50
18231	Bracket-Oil Cooler, Odd Side) 11660	1	1.69
18232	Bracket-Oil Cooler, Even Side) and up	1	1.69
18243	Dowel-Ph. Bronze, Thrust Washer To Crankcase	8	1.42
18329	Cover Assembly-Oil Pump (Eng. 11021 and up)	1	22.04
18333	Washer-Oil Header Seal (Replaces one 10105 after Engine 13967)	1	.16
18344	Seal-Oil Header (Replaces one 10105 after Engine 13967)	1	1.20
18357	Bracket-Oil Cooler, Even Side) For Service With	1	<u>UNAVAILABLE</u>
18358	Bracket-Oil Cooler, Odd Side) Cast Oil Pan	1	<u>UNAVAILABLE</u>
18359 (2x13)	Screw-Inlet Manifold	12	.19
18369 (17783)	Lifter-Valve	12	17.48
18391	Pin-Cylinder Liner Lock	12	.46
18428	Generator-(E.A.L. GFU-4101N - 15 Amp.) Bellanca (To Engine 12813 Incl.)	1	121.05
18431	Cylinder Assembly (Engine 12509 and up)	6	275.78
18447	Case Assembly-Timing Gear, Crankcase End	1	61.06
18448	Case Assembly-Timing Gear, Accessory End	1	69.20
18498 (19974)	Insert-Inlet Valve Seat	6	6.37
18499 (19975)	Insert-Exhaust Valve Seat	6	6.47
18520 (19487)	Nut-Exhaust Stud	12	.48
18536	Nut-Oil Pump Relief Valve Spring	2	2.41
18543	Gear-Magneto Driven	2	28.91
18560 (19313)	Absorber-Magneto Gear Shock (With #18543 Gear Only)	2	1.92
18561	Cover-Valve	6	5.26
18568 (19389)	Packing-Tachometer Drive	1	1.98
18646 (18554)	Valve-Oil Cooler Thermostatic	1	137.26
18647	Gasket-Oil Cooler Thermostatic Valve	1	.52
18650 (19523)	Rocker Assembly-Inlet Valve (Forged Type))To	6	12.41
18651 (19524)	Rocker Assembly-Exhaust Valve " ")Eng.)11493 Incl.	6	12.41
18655 (18554)	Cooler-Oil	1	137.26
18662	Valve-Hydraulic Lifter (For 17783 Lifter)	12	1.22
18554	Cooler Assembly-Oil (Substitute For No. 18229)	1	137.26

SPARE PARTS PRICE LIST
OVERSIZE & UNDERSIZE

<u>STANDARD</u> <u>PART NO.</u>	<u>PRICE</u>	<u>O/S - U/S</u> <u>PART NO.</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
5136	\$ 1.30		Stud-Generator	
		5136+.003	Stud-Generator	\$ 1.47
		5136+.006	Stud-Generator	1.93
		5136+.009	Stud-Generator	2.36
10369	1.18		Stud-Magneto	
		10369+.003	Stud-Magneto	1.80
		10369+.006	Stud-Magneto	2.00
		10369+.009	Stud-Magneto	2.39
12254	1.08		Stud-Carburetor	
		12254+.003	Stud-Carburetor	1.08
		12254+.006	Stud-Carburetor	1.33
		12254+.009	Stud Carburetor	1.61
18342	2.79		Guide-Exhaust Valve	
		18037+.001	(Guide-Exhaust Valve)To Eng.	<u>UNAVAILABLE</u>
		18038+.002	(Guide-Exhaust Valve)No. 12508	2.55
		18039+.005	(Guide-Exhaust Valve)Incl.	2.41
17536	2.70		Bushing-Crankshaft Flange	
		17941+.001	Bushing-Crankshaft Flange	2.13
		17942+.002	Bushing-Crankshaft Flange	2.65
		17943+.003	Bushing-Crankshaft Flange	3.20
		17944+.004	Bushing-Crankshaft Flange	3.81
17563	1.59		Stud-Exhaust Pipe Flange	
		17563+.003	Stud-Exhaust Pipe Flange	1.90
		17563+.006	Stud-Exhaust Pipe Flange	2.05
		17563+.009	Stud-Exhaust Pipe Flange	2.42
17658	13.57		Pin-Piston	
17660	1.41		Stud-Cylinder Hold-down 3/8	
		17660+.003	Stud-Cylinder Hold-down 3/8	1.58
		17660+.006	Stud-Cylinder Hold-down 3/8	1.83
		17660+.009	Stud-Cylinder Hold-down 3/8	2.25
17661	1.41		Stud-Cylinder Hold-down 7/16	
		17661+.003	Stud-Cylinder Hold-down 7/16	1.58
		17661+.006	Stud-Cylinder Hold-down 7/16	1.83
		17661+.009	Stud-Cylinder Hold-down 7/16	2.25
17710	3.47		Stud-Camshaft Bearing	
		17710+.003	Stud-Camshaft Bearing	3.47
		17710+.006	Stud-Camshaft Bearing	3.56
		17710+.009	Stud-Camshaft Bearing	3.72
17711	3.51		Stud-C'shaft Brg., Outside Front	
		17711+.003	Stud-C'shaft Brg.	3.51
		17711+.006	Stud-C'shaft Brg.	3.71
		17711+.009	Stud-C'shaft Brg.	3.88

<u>STANDARD PART NO.</u>	<u>PRICE</u>	<u>O/S - U/S PART NO.</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
17712	\$ 3.07		Stud-C'case, Front Tie	
		17712+.003	Stud-C'case, Front Tie	\$ 3.07
		17712+.006	Stud-C'case, Front Tie	2.34
		17712+.009	Stud-C'case, Front Tie	2.95
17713	2.34		Stud-C'shaft Brg., Lower Rear	
		17713+.003	Stud-C'shaft Brg., Lower Rear	2.34
		17713+.006	Stud-C'shaft Brg., Lower Rear	3.06
		17713+.009	Stud-C'shaft Brg., Lower Rear	3.66
17714	3.67		Stud-C'shaft Brg., With Dowel Upper Rear	
		17714+.003	Stud-C'shaft Brg.	3.67
		17714+.006	Stud-C'shaft Brg.	3.91
		17714+.009	Stud-C'shaft Brg.	4.13
17715	2.03		Stud-C'shaft Brg., Inside Front, Lower Center	
		17715+.003	Stud-C'shaft Brg.	2.03
		17715+.006	Stud-C'shaft Brg.	2.54
		17715+.009	Stud-C'shaft Brg.	3.06
17716	2.44		Stud-Crankshaft Bearing	
		17716+.003	Stud-Crankshaft Bearing	2.44
		17716+.006	Stud-Crankshaft Bearing	3.06
		17716+.009	Stud-Crankshaft Bearing	3.67
17717	1.16		Stud-Mounting Bracket	
		17717+.003	Stud-Mounting Bracket	1.16
		17717+.006	Stud-Mounting Bracket	1.44
		17717+.009	Stud-Mounting Bracket	1.75
17719	4.47		Bushing-C'shaft, Center (Cyl. 1-3-5)	
		18026-.010	Bushing-C'shaft, " "	5.85
		18027-.020	Bushing-C'shaft, " "	7.28
17720	4.24		Bushing-C'shaft, Center (Cyl. 2-4-6)	
		18028-.010	Bushing-C'shaft, " "	7.31
		18029-.020	Bushing-C'shaft, " "	7.74
17721	4.82		Bushing-C'shaft, Gear End (Cyl. 1-3-5)	
		18030-.010	Bushing-C'shaft, " " "	6.71
		18031-.020	Bushing-C'shaft, " " "	6.78
17722	3.80		Bushing-C'shaft, Gear End (Cyl. 2-4-6)	
		18032-.010	Bushing-C'shaft, " " "	6.72
		18033-.020	Bushing-C'shaft, " " "	6.78
17723	4.95		Bushing-C'shaft, Prop. End Nose (Cyl. 1-3-5)	
		18022-.010	Bushing-C'shaft, " " " "	5.21
		18023-.020	Bushing-C'shaft, " " " "	5.48
17724	6.55		Bushing-C'shaft, Prop. End Nose (Cyl. 2-4-6)	
		18024-.010	Bushing-C'shaft, " " " "	6.63
		18025-.020	Bushing-C'shaft, " " " "	5.50
17739	2.83		Bushing-Connecting Rod, Lower	
		18020-.010	Bushing-Connecting Rod, Lower	2.81

<u>STANDARD PART NO.</u>	<u>PRICE</u>	<u>C/S - U/S PART NO.</u>	<u>DESCRIPTION</u>	<u>PRICE</u>
17739		18021-.020	Bushing-Connecting Rod, Lower	\$ 4.70
17746	\$ 1.14		Stud-Starter Motor	
		17746+.003	Stud-Starter Motor	1.52
		17746+.006	Stud-Starter Motor	1.98
		17746+.009	Stud-Starter Motor	2.43
17865	1.28		Stud-Oil Pan In Timing Case 1 5/16	
		17865+.003	Stud-Oil Pan In Timing Case "	1.66
		17865+.006	Stud-Oil Pan In Timing Case "	2.08
		17865+.009	Stud-Oil Pan In Timing Case "	2.54
18006	1.50		Stud-Oil Pan In Timing Case	
		18006+.003	Stud-Oil Pan In Timing Case	1.74
		18006+.006	Stud-Oil Pan In Timing Case	2.22
		18006+.009	Stud-Oil Pan In Timing Case	2.37
18338			Guide-Inlet Valve	
		18338+.001	Guide-Inlet Valve)Engine	<u>UNAVAILABLE</u>
		18339+.002	Guide-Inlet Valve) No.	2.64
		18340+.005	Guide-Inlet Valve)12509	2.83
18341			Guide-Exhaust Valve) and	
		18342+.002	Guide-Exhaust Valve) up	2.79
		18343+.005	Guide-Exhaust Valve)	3.00
19974	6.37		Insert-Valve Seat (Inlet)	
		19974-Z+.002	Insert-Valve Seat	7.13
		19974-V+.005	Insert-Valve Seat	7.22
		19974-X+.010	" " "	7.32
19975			Insert-Valve Seat (Exhaust)	
		19975-Z+.002	" " " "	7.26
		19975-V+.005	" " " "	7.35
		19975-X+.010	" " " "	7.41

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