

SECTION V

PARTS LISTS

The Parts Lists, Figure 5-1 through 5-3, and the engine mounting parts list (not illustrated) indicate the parts used in the Firebird Model Snowmobile. Many of the parts used in the Firebird are also used in the Executive Model. Pages 5-21 through 5-22 list only those parts peculiar to the Executive Model.

The parts list for the Model 300 will be supplied later.

Page 5-2 shows a serial number code for determining, from the machine's identification tag, the exact configuration of the snowmobile and the supplied parts.

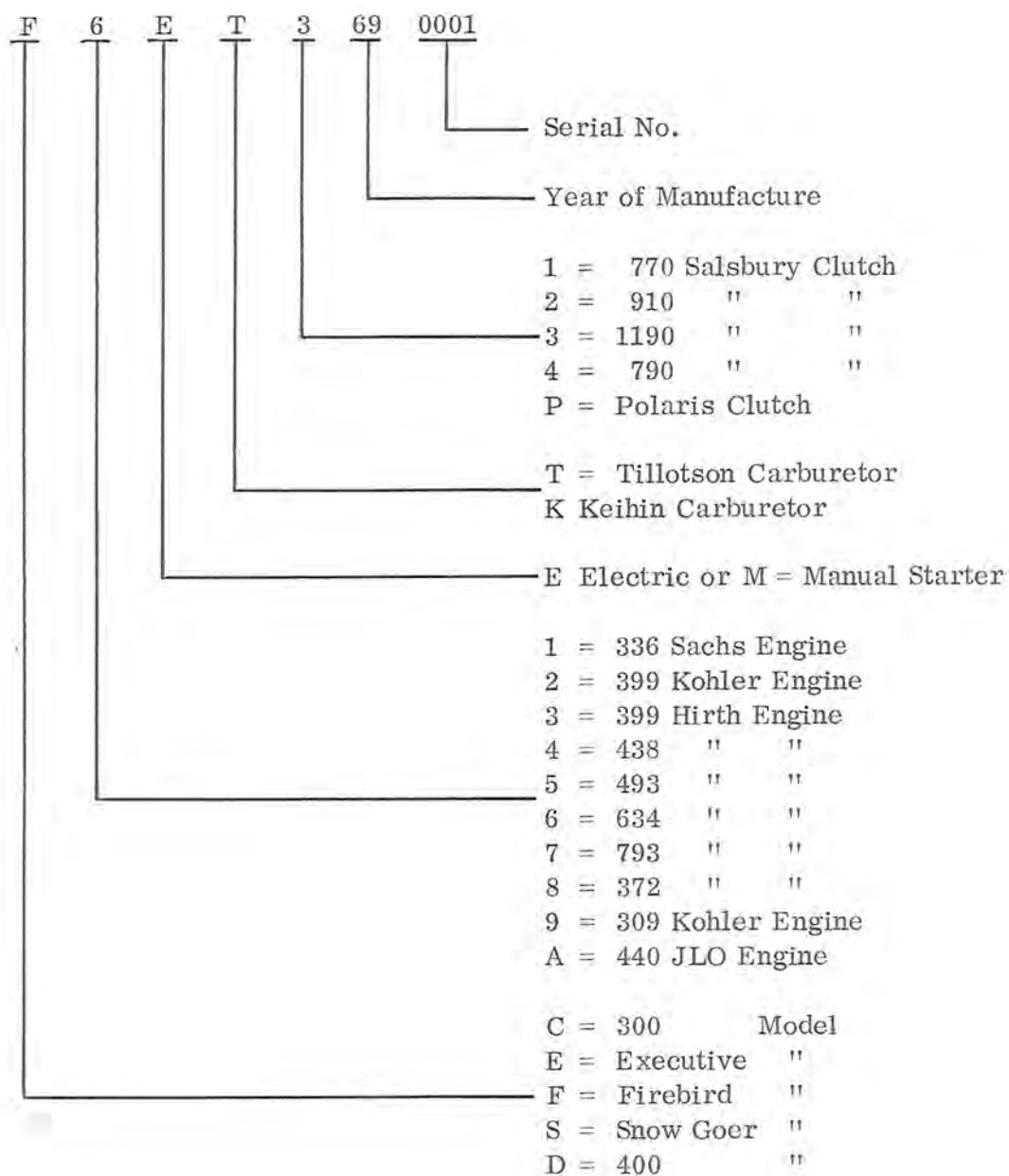
The first column of the parts list indicates the item number of the parts location drawing. The second column is the Chaparral Industries part number, and the third is the description of the part.

Please order spare parts and replacements using both the part number and the full description.

The fourth column, Dealer Inventory, shows the items which Chaparral Industries recommends the dealer carry in inventory to facilitate repair work. The retail list price of such items is shown in the fifth column. Where the quantity "0" is shown in column four, the part may be ordered, but is not considered necessary to maintain a spare stock. Where "LP" is shown, the part, usually common hardware, may be best obtained by local purchase, rather than from Chaparral Industries.

The sixth column, Flat Rate Time, is the amount of time, in tenths of an hour, that removal and replacement of the part should require. This figure is the only time which Chaparral Industries will accept as a labor charge under warranty claims (See Section One). Do not compound Flat Rate Time. Each time shown represents complete removal and replacement time, and includes removal of mounting hardware or other parts which must be removed for access.

As a convenience to the Dealer, parts lists for the Keihin Seiki Carburetor and the Hirth Engines are included in this section. Chaparral Industries can supply only those parts shown in the inventory list for the Hirth engines, and only the repair kit and gasket set for the carburetor.



SERIAL NUMBER CODE

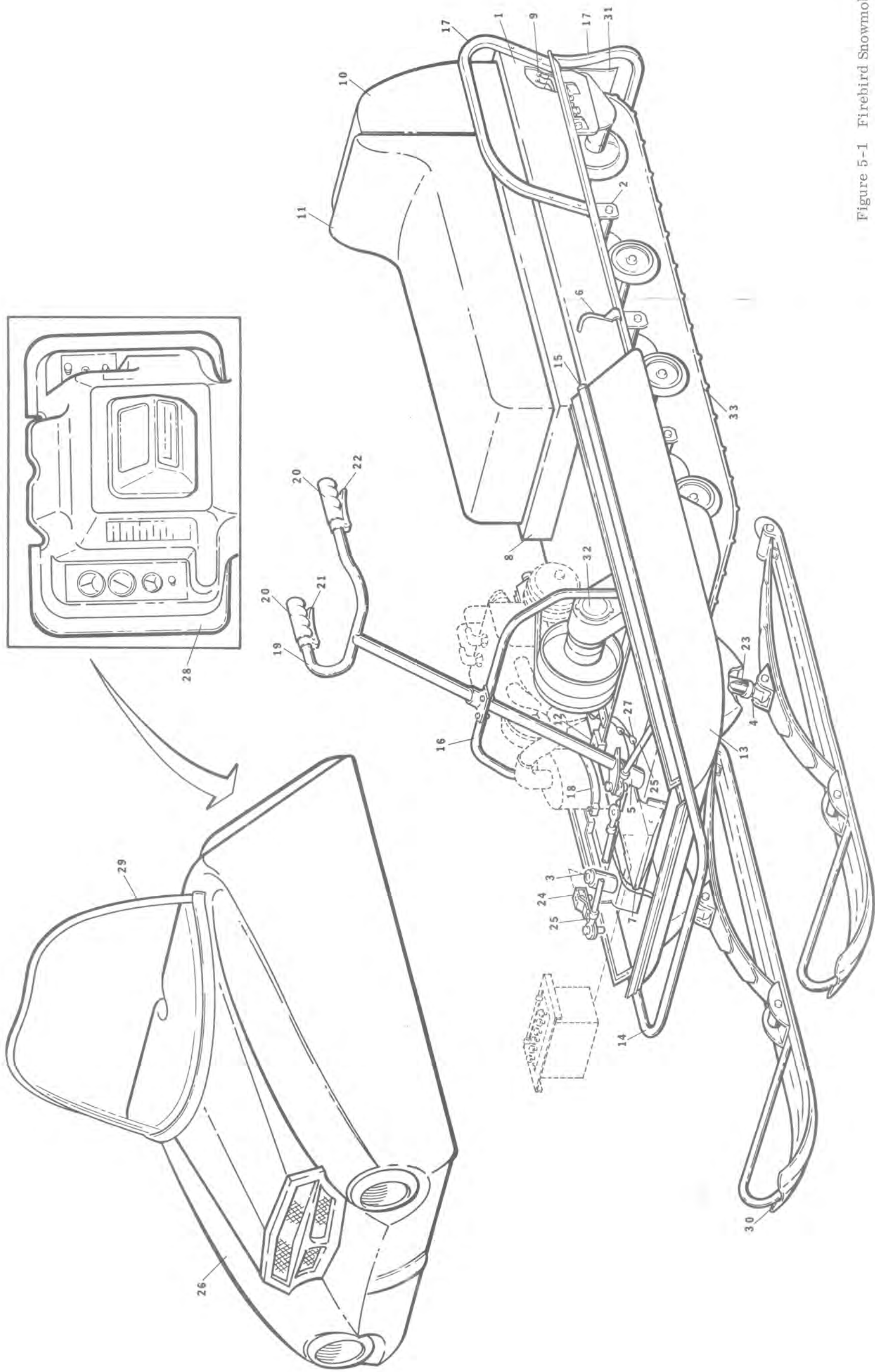


Figure 5-1 Firebird Snowmobile

FIGURE 5-1 SNOWMOBILE

Item No.	Part No.	Description	Dealer Inventory	List Price Each	Flat Rate Time (1/10 hour)
1	10001	Body Assembly	0	88.75	
2	10006	. Hanger, Bogie (6)	0	2.50	0.1
	10009	. Spindle Tube Assy	0		
3	10637	. . Upper Spindle Bushing (2)	0	.65	0.1
4	10638	. . Spindle Bushing (2)	0	.65	0.1
5	10016	. . Bushing, Tiller	0	.50	0.1
6	10019	. L. H. Stirrup Weldment	0	4.60	0.1
	10028	. R. H. Stirrup Weldment	0	4.60	0.1
		(ATTACHING PARTS)			
	10025	. Pop Rivet 3/16 - 3/8 (4)	LP	.05	
	10026	. Lock Nut, 3/8-16 (2)	LP	.05	
	10027	. Flat Washer, 3/8 (2)	LP	.01	
		- - * - -			
7	10015	. Battery Bracket	0	4.00	0.3
		(ATTACHING PARTS)			
	10040	. Rivets, 3/16 x 3/4 (6)	LP		
	10044	. Rivets, 5/8 x 3/16 (2)	LP	.10	
		- - * - -			
8	10052	. Seat Box	0	18.00	0.5
		(ATTACHING PARTS)			
	10057	. Hinge, Seat	0	2.40	
	10058	. Pop Rivets, 3/16 x 7/16 (4)	LP	.05	
	10059	. Snap-Tab, Male (2)	LP	.30	
	10060	. Rivet Snap Tab 1/8 x 7/16 (2)	LP	.05	
		- - * - -			
	10128	. . Rivets, Seat Box	24	.04	
	10130	. . Rivets, Seat Box	4	.05	
9	10063	. Tail Light Assy (2)	0	1.75	
	10064	. . Lens, Tail Light	3	.45	
	10065	. . Base, Tail Light	0		
	10066	. . Bulb, Tail Light	LP	.25	
	10067	. . Wire, Tail Light	0		
	10068	. Wire, Harness	0	1.00	0.1
	10072	. Pop Rivet 3/16 x 5/16	LP	.10	
	10073	. Gasket, Tail Light	0	.40	
	10074	. Clip, Gas Line	0	.20	
	10075	. Pop Rivet, Gas Line	LP		
10	10076	. Gas Tank Assy	0	33.00	
	10077	. . Tank, Gas	0	22.75	0.6
	10078	. . Cap and Gauge	1	4.75	

Item No.	Part No.	Description	Dealer Inventory	List Price Each	Flat Rate Time (1/10 hour)
10	10079	. . Line, Long Gas	1	1.45	
	10080	. . Line, Tank Gas	1	.30	
	10081	. . Filter, Fuel	1	.60	
	10082	. . Decal, Tank, L. H.	0		
	10083	. . Decal Tank, R. H.	0		
	10085	. . Tank Fitting	0	.60	0.1
	10095	. . Cushion, Tank	0	.50	
	10087	. . Washer, Flat	LP	.03	
	10088	. . Washer, Neoprene	LP	.03	
	10089	. . Nut, Lock 1/2 in.	LP	.12	
	10090	. Hold Down, Tank	0	2.40	
	10091	. Pop Rivets, 3/16 - 5/16	LP	.05	
	10093	. Protector, Gas Tank Short	LP	.40	
	10094	. Protector, Gas Tank, Long	LP	.20	
	10099	. Grommet, 1/2 in.	LP	.20	
	10100	. Grommet, 3/16	LP	.15	
11	10103	. Seat Assembly (ATTACHING PARTS)	0	45.00	0.2
	10106	. Screws, Hinge (4)	0	.03	
	10114	. Lock Washers, 3/16 in. (4)	LP	.01	
		- - * - -			
	10107	. . Seat, Vinyl	0	16.00	
12	10096	. Bracket, License Plate	0	1.00	
	10132	. Motor Mount Assembly (2) (ATTACHING PARTS)	0	8.35	0.4
	10142	. Bolt, Motor Mount (4)	LP	.15	
	10143	. Washer, Motor Mount (8)	LP	.05	
	10144	. Nut, Lock 5/8 in. (4)	LP	.15	
13		- - * - -			
	10148	. Pan Assembly (ATTACHING PARTS)	0	23.50	
	10145	. Pop Rivet, 3/16 (2)	LP	.08	
	10149	. . Pan	0	18.30	0.4
	10150	. . Hinge, Hood	0	3.80	
	10151	. . Pop Rivet (9)	LP	.05	
	10152-1	. . Back-up, Hinge	0	1.00	
	10153	. . Pan Trim, Vinyl	0	.25	
	10169	. Moulding, Pan L. H.	0	2.40	
	10170	. Moulding, Pan R. H.	0	2.40	
14	10174	. Latch, Hood (2)	0	.60	
	10171	. Bumper, Front	0	12.50	

Item No.	Part No.	Description	Dealer Inventory	List Price Each	Flat Rate Time (1/10 hour)
14		(ATTACHING PARTS)			
	10172	. Bolts, Bumper (6)	LP	.05	
	10184	. Washer, Bumper (4)	LP	.02	
	10185	. Locknut, Bumper (6)	LP	.08	
		- - * - -			
15	10179	. Bumper Plug (2)	4	.25	
16	10175	. Tiller Support Weldment	0	6.50	0.2
		(ATTACHING PARTS)			
	10182	. Bolts, Tiller Support (2)	0	.06	
	10183	. Locknuts, Tiller Support (2)	0	.06	
	10181	. Bolts, Tiller Support (6)	0	.03	
	10186	. Locknuts, Tiller Support (6)	0	.02	
		- - * - -			
17	10187	. Rear Bumper Assy	0	23.10	
	10188	. . Bumper Weldment	0	15.70	0.3
	10200	. . Kickstand Weldment	0	4.75	0.2
	10206	. . Clevis Pin (2)	LP	.70	
	10207	. . Cotter Pin (2)	LP	.02	
	10208	. . Flat Washer (2)	LP	.01	
	10209	. . Bumper, Rubber		.02	
	10210	. . Spring, Kickstand (2)	2	.20	
	10211	. . Hitch Weldment	0	1.60	
	10217	. . Clevis Pin	LP	.40	
	10218	. . Cotter Pin	LP	.02	
	10219	. . Bolts, Rear Bumper (4)	LP	.05	
	10220	. . Lock Nut, 1/4 (10)	LP	.05	
	10221	. . Bolts, Rear Bumper (6)	LP	.05	
	10222	. . Bolts, 5/16 (4)	LP	.08	
	10223	. . Lock Nut, 5/16 (4)	LP	.06	
18	10582	. Muffler Mounting Bracket	0		0.1
19	10590	. Tiller Bar Weldment	0	7.00	0.4
	10597	. . Grease Fitting	LP	.30	
20	10607	. Handle Grips (2)	0	.30	
21	10608	. Throttle Control Assy (Specify Carburetor Manufacturer)	0	4.40	
	10609	. . Lever	0	2.60	
	10610	. . Cable	0	1.80	
	10624	. . Lever Spacer Washers	3	.05	
22	10617	. Brake Control Assy	0	4.70	
	10618	. . Lever	0	2.70	
	10619	. . Cable	0	1.80	
	10621	. . Spring	0	.20	

Item No.	Part No.	Description	Dealer Inventory	List Price Each	Flat Rate Time (1/10 hour)
22	10627	. Cable Clip	0	.15	
	10628	. Bolt, Steering Column Pivot, 3/8 - 16 x 3/4	LP	.10	
	10629	. Lock Nut, 5/16 (2)	LP	.10	
	10630	. Bolt, Pivot Bracket (2)	LP	.10	
23	10639	+ Spindle Assy (2)	1	8.10	0.2
	10642	. Wave Washer, Spindle (2)	LP	.35	
24	10643	. Steering Arm (2)	0	3.00	
	10644	. Bolt, 3/8 x 1-3/4 (2)	LP	.15	
	10645	. Lock Nut, 3/8 in. (2)	LP	.15	
	10646	. Washer, Thrust (2)	LP	.10	
	10647	. Washer, Spindle (2)	LP	.50	
25	10649	. Tie Rod Assy (2)	0	6.00	
	10650	. . Tie Rod	1	1.50	0.2
	10651	. . Rod End, R. H.	1	2.20	0.1
	10652	. . Rod End, L. H.	1	2.20	0.1
	10653	. . Jam Nut, R. H.	LP	.05	
	10654	. . Jam Nut, L. H.	LP	.05	
	10660	. Bolts, Tie Rod (2)	0	.10	
	10661	. Lock Nut, 3/8 (4)	LP	.05	
	10662	. Bolt, Pivot	LP	.10	
26	10669	. Hood Assy	0	60.00	
	10670	. . Hood	0	42.00	0.5
	10671	. . Grill Screen	1	1.40	
	10672	. . Grill	0	13.00	
	10673	. . Screws, Grill (4)	LP	.04	
	10674	. . Decal, L.H.	1	1.00	
	10675	. . Decal, R.H.	1	1.00	
	10676	. . Headlight (2)	2	2.25	
	10677	. . Rim, Headlight (2)	0	2.00	
	10678	. . Gasket, Light (2)	0	1.00	
	10679	. . Screws, Light (4)	0	.05	
	10680	. . Trim, Vinyl	0	1.75	
	10681	. . Hold-Down Strap Assy (2)	0	.85	
	10684	. . Bolts, 1/4-20 (2)	LP	.05	
	10685	. . Flat Washer (2)	LP	.01	
	10686	. . Lock Nut, 1/4-20 (2)	LP	.04	
	10152-2	. Backup, Hinge	0	.80	
	10688	. Bolts, 10-32 x 3/4 (9)	LP	.04	
	10689	. Lock Nuts, #10-32	LP	.04	
	10690	. Wire Clip	0	.15	
27	10691	. Wire Harness, Electric	0	8.00	0.3
	10691-1	. Wire Harness Manual	0	6.00	0.2

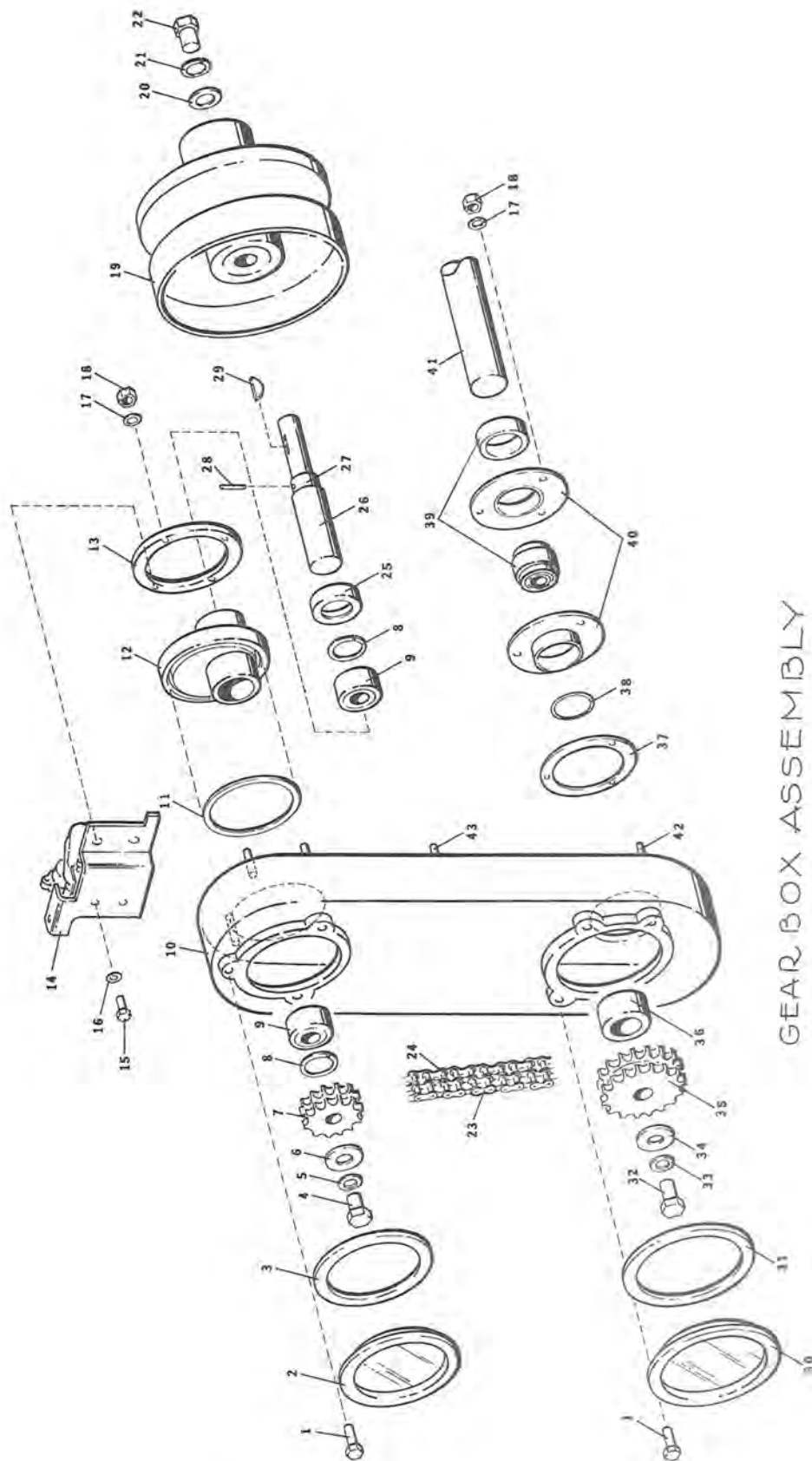
Item No.	Part No.	Description	Dealer Inventory	List Price Each	Flat Rate Time (1/10 hour)
27	10706	. Foot Pad, L. H.	0	3.50	
	10707	. Foot Pad, R. H.	0	3.50	
	10709	. Starter Solenoid	0		0.2
	10710	. Pop Rivets, Colenoid (2)	LP	.02	
	10711	. Rectifier	0		0.1
	10712	. Bolt, 10-32 x 1/2 (2)	LP	.04	
	10715	. Ground Wire	0	.02	
	10716	. Lock Nut (2)	LP	.04	
	10717	. Fuse, Rectifier	LP	.45	
	10721	. Dash Assembly	0		0.7
28	10722	. . Dash	0	12.50	
	10724	. . Latch Receptacle	0	.50	
	10725-3	. . Plate, Latch	0	.25	
	10726	. . Rivet, Pop (2)	LP	.02	
	10727	. . Access Door Assy	0	9.00	
	10728	. . . Door, Carburetor	0	6.90	
	10729	. . . Hinge, Door	0	1.50	
	10730	. . . Pop Rivet, 3/16 (4)	0	.03	
	10731	. . . Door Louver Assy	0	2.20	
	10767	. . . Lock Nut #8-32 (2)	LP	.03	
	10719	. . . Washer, #8 (2)	LP	.01	
	10734	. . . Decal, Door	0	.70	
	10735	. . . Fastener	0	.75	
	10736	. . . Retainer	0	.75	
	10739	. . . Trim, Vinyl	0	.10	
	10738	. . . Pop Rivet (4)	LP	.05	
	10742	. . . Switch, Ignition	0	3.10	
	10743	. . . Nut, Switch Ignition	0	.05	
	10744	. . . Decal, Dash L. H.	0	1.10	
	10745	. . . Decal, Dash R. H.	0	.80	
	10746	. . . Choke Assy	0	1.25	
	10747-7	. . . Lock Nut	LP	.02	
	10747-8	. . . Primer Bulb Assy	0	7.50	
	10755	. Bolt, Dash (4)	LP	.03	
	10756	. Lock Nut, 1/4-20	LP	.04	
	10757	. Rubber Washer	LP	.04	
	10758	. Rubber Spacer	0	.06	
	10764	. Short Louvre Assy	0	.70	
	10771	. Long Louvre Assy	0	.80	
	10778	. Trim, Vinyl	0	.25	
	10789	. Serial Tag	0		
	10790	. Pop Rivets (2)	LP		
29	10794	. Windshield Assy	0		

Item No.	Parts No.	Description	Dealer Inventory	List Price Each	Flat Rate Time (1/10 hour)
29		(ATTACHING PARTS)			
	10795	. . Windshield	0	9.65	
	10796	. . Trim, Chrome	1	.70	
	10797	. . Trim, Base	0	2.00	
	10701	. Bolts, Windshield (5)	LP	.03	
	10702	. Washer, Flat (5)	LP	.01	
		- - * - -			
30	10800	. Ski Assy (2)	0	21.50	
	10801	. . Ski Weldment	1	9.00	0.2
	10802	. . Ski	0		
	10803	. . Hanger, Rear Spring	0		
	10804	. . Hanger, Front Spring	0		
	10805	. . Tie, Ski	0		
	10809	. . Hanger, Ski	0	.80	
	10810	. . Spring, Main	0	4.00	0.2
	10811	. . Spring, Center	0	3.00	0.2
	10812	. . Spring, Top	0	2.50	0.1
	10813	. . Bolt, Rear Snackle	0	.15	
	10814	. . Lock Nut, 3/8 - 24	0	.05	
	10815	. . Bushing Rear	0	.25	
	10816	. . Clevis Pin, Front	0	.50	
	10817	. . Cotter Pin	0	.02	
	10818	. . Wear Plate	0	.80	
	10819	. . Skag Weldment	3	1.20	
	10826	. . Lock Nut, 5/16	0	.05	
	10829	. . Bolt, Spindle Hanger (2)	0	.10	
	10830	. . Lock Nut (2)	0	.08	
	10827	. Bolt, Spindle (2)	0	.20	
	10828	. Lock Nut (2)	0	.10	
31	10840	. Flap Assembly	0	1.30	
	10841	. . Rear Flap	0	.70	
	10842	. . Back-Up Strip	0	.30	
	10843	. . Bolts, 1/4 - 28 x 3/4 (4)	LP	.04	
	10844	. . Lock Nuts 1/4 - 28 (4)	LP	.04	
	10861-1	. Battery Cable to Solenoid	0	1.00	0.1
	10861-2	. Battery Cable to Starter	0	1.40	0.1
	10861-3	. Battery Cable to Battery	0	1.20	0.1
	10862	. Washers (2)	LP	.02	
	10863	. Bolts (2)	LP	.04	
	10864	. Lock Nuts (2)	LP	.04	
	10865	. Battery Box Holddown	0	1.25	0.1
	10867	. Starter	0		

Item No.	Page No.	Description	Dealer Inventory	List Price Each	Flat Rate Time (1/10 hour)
31	10868	. J. Bolts (2)	2	.65	
	10869	. Wing Nuts (2)	LP	.10	
	10871	. Battery	0	24.95	
	10542-1	. Drive Belt 770 Clutch	0	11.95	
	10542-2	. Drive Belt 910 Clutch	3	11.95	
	10542-3	. Drive Belt 1190 Clutch	0	13.95	
	10082-1	. Tank Decals, L. H., 336 Engine		1.00	
	10082-2	. Tank Decals, L. H., 336 Engine - 399	1	1.00	
	10082-3	. Tank Decals, L. H., 336 Engine - 438	1	1.00	
	10082-4	. Tank Decals, L. H., 336 Engine - 493	1	1.00	
	10082-5	. Tank Decals, L. H., 336 Engine - 634	1	1.00	
	10083-1	. Tank Decals, R. H., 336 Engine			
	10083-2	. Tank Decals, R. H., 336 Engine - 399	1	1.00	
	10083-3	. Tank Decals, R. H., 336 Engine - 438	1	1.00	
	10083-4	. Tank Decals, R. H., 336 Engine - 493	1	1.00	
	10083-5	. Tank Decals, R. H., 336 Engine - 634	1	1.00	
32	10230	. Gearbox Assembly (See Figure 5-2)			
33	10317	. Track Assembly (See Figure 5-3)			

FIGURE 5-2 GEARBOX

Item No.	Part No.	Description	Dealer Inventory	List Price Each	Flat Rate Time (1/10 hour)
	10230	GEAR BOX ASSY (ATTACHING PARTS)	0	91.40	
	10296	Lock Nut, 3/8-16 Gearbox	LP	.10	
	10297	Spacer, Gearbox	0	.15	
		- - * - -			
1	10254	. Bolt, 1/4 in. (8)	LP		
2	10236	. Cover, Top	0	1.25	0.1
3	10248	. Gasket, Top Cover	2	.85	
4	10255	. Bolt, 5/16 in.	LP	.25	
5	10260	. Washer, 5/16 in.	LP	.25	
6	10263	. Washer, Input Shaft 5/16 in.	LP	1.00	
7	10890	. Sprocket, Drive 15 tooth	0	2.95	0.2
	10891	. Sprocket Drive, 17 tooth	0	2.95	0.2
8	10252	. Snap Ring (2)	LP	.25	
9	10241	. Cup and Cone Bearing, 1 in. Taper	0	2.95	0.3
10	10231	. Gearbox, Case	0	16.40	1.0
11	10247	. Gasket, Bearing Housing	0		
12	10232	. Housing Bearing	0	7.60	0.2
13	10237	. Clamp Ring	0	2.00	0.2
14	10267	. Brake Bracket	0	.80	0.1
	10270	. . Caliper Assy	0	7.50	
	10271	. . Bolts, 5/16 UNC x 1/2 (2)	LP	.04	
	10272	. . Lockwasher 5/16 (2)	LP	.01	
	10282	. . Brake Pads (2)	0	.75	
15	10271	. Bolt, 5/16 in. (2)	0	.40	
16	10272	. Washer, Lock (2)	LP	.25	
17	10260	. Washer, 5/16 in. (7)	LP	.25	
18	10258	. Nut, 5/16 in. (7)	LP	.25	
19	10301-1	. Clutch, 770	0	31.50	0.2
	10201-2	. Clutch, 910	0	34.00	0.2
20	10304	. Washer, Special	0	.20	
21	10305	. Washer, Lock, 5/16 in.	LP	.01	
22	10306	. Bolt, 5/16 in.	LP	.06	
23	10239	. Chain	1	8.20	0.4
24	10240	. Link, Repair	1	.75	0.2
25	10246	. Seal, Input Shaft	0	1.00	0.2
26	10233	. Shaft, Input	0	7.50	0.3
27	10243	. Sleeve, Input Shaft	0	1.00	0.2
28	10253	. Roll Pin	0	.25	



GEAR BOX ASSEMBLY

Figure 5-2 Gearbox Assembly

Item No.	Part No.	Description	Dealer Inventory	List Price Each	Flat Rate Time (1/10 hour)
29	10303	. Key, 1/4 sq. x 2-3/4	LP	.06	
30	10235	. Cover, Bottom	0	1.25	0.1
31	10249	+ Gasket, Bottom	2	.85	
32	10256	+ Bolt, 3/8 in.	LP	.25	
33	10261	+ Washer	LP	.25	
34	10262	+ Washer, Output	LP	.25	
35	10238	. Sprocket, Driven	0	10.50	0.2
36	10244	. Spacer, Output Shaft	0	1.00	
37	10250	. Gasket, Flangette	0	.50	
38	10251	. "O" Ring, Flangette	0	.35	
39	10245	. Flangette	0	.50	
40	10242	. 1 in. Ball Bearing	0	3.35	0.4
41	10234	+ Shaft, Output	0	13.80	

FIGURE 5-3 TRACK ASSEMBLY

Item No.	Part No.	Description	Dealer Inventory	List Price Each	Flat Rate Time (1/10 hour)
1	10318	Track, 15-1/2 in.	0	155.00	1.0
	10319	Front Axle Assy	0		
2	10234	. Axle, Front	0	12.00	0.6
3	10321	. Sprocket, Drive (2)	1	9.00	0.3
4	10322	. Bearing	1	2.75	
5	10323	. Collar, Lock	0	.60	
6	10324	. Roll Pin (2)	LP	.60	
7	10328	Flangette (2)	0	.55	
8	10329	Bolts, 5/16 (3)	LP	.05	
9	10330	Lock Nut, 5/16 (3)	LP	.10	
10	10331	Flat Washer (2)	LP	.05	
11	10332	Flat Washer	LP	.02	
12	10337	Front Bogie Assy	0	19.00	0.2
	10338	. Axle, Main	0	2.00	0.1
	10339	. L. H. Bogie, Bracket Weldment	0	6.00	0.2
	10347	. R. H. Bogie, Bracket Weldment	0	6.00	0.2
	10355	. Center Bogie Bracket	0	3.00	0.3
	10363	. Spring, L. H. Bogie	1	1.00	0.1
	10364	. Spring, R. H. Bogie	1	1.00	0.1
	10365	. Axle, Front Bogie	1	1.65	0.2
	10366	. Axle, Rear Bogie	1	1.25	0.2
	10367	. Wheel, Bogie (5)	3	2.60	0.1
13	10426	Bolts, Bogie, 3/8 in. (2)	LP	.10	
14	10427	Lockwasher (2)	LP	.02	
15	10382	Center and Rear Bogie Assembly (2)	0	18.65	
	10383	. Axle, Main (2)	1	1.65	0.2
	10339	. L. H. Bogie Brkt Weldment (2)	0		0.2
	10347	. R. H. Bogie Brkt Weldment (2)	0		0.2
	10394	. Center Bogie Brkt Weldment (2)	0	2.80	0.3
	10363	. Spring, L. H. Bogie (2)	0		0.1
	10364	. Spring, R. H. Bogie (2)	0		0.1
	10365	. Axle, Front Bogie (2)	0		0.2
	10366	. Axle, Rear Bogie (2)	0		0.2
	10367	. Wheel, Bogie (10)	0		0.1
	10371	. Lock Nut 5/8 in. (8)	2	.25	
	10426	Bolts, Bogie Assy (6)	0		
	10427	Lock Washer (6)	0		
16	10433	Rear Idler Assy	0	18.50	
	10434	. Axle Rear Idler	0	3.50	0.4

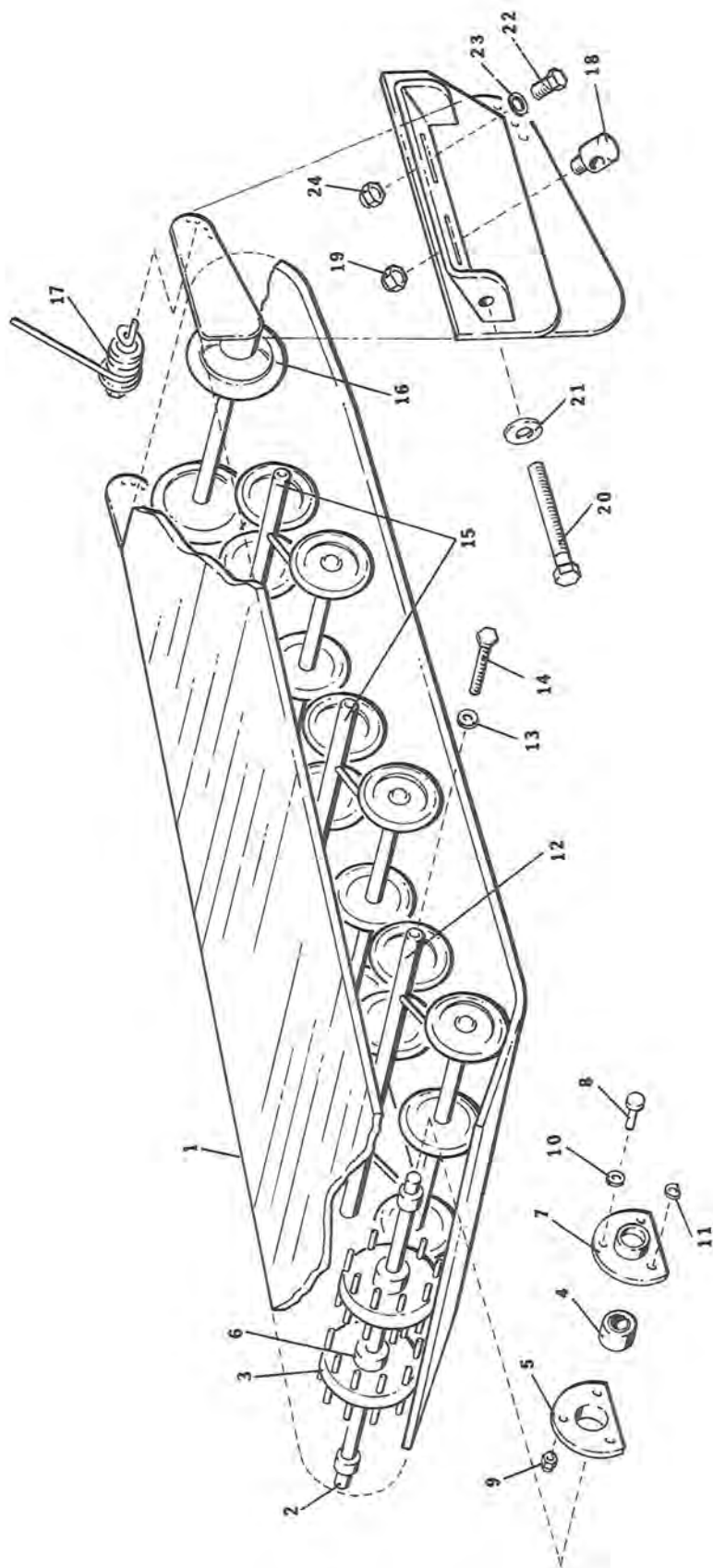


Figure 5-3 Track Assembly

Item No.	Part No.	Description	Dealer Inventory	List Price Each	Flat Rate Time (1/10 hour)
16	10435	. Idler Wheel, Rear (2)	1	3.75	0.3
	10322	. Bearing (2)	0	2.75	0.1
	10327	. Spacer, Rear Idler (2)	0	.25	
	10323	. Lock Collar, Bearing (2)	0		
	10439	. Roll Pin (2)	LP	.60	
17	10440	L. H. Track Hanger Assy	1	10.90	
	10441	. Axle Hanger Weldment L. H.	0	4.80	0.3
	10449	. L. H. Track Tightener Bracket Weldment	0	4.80	0.2
	10456	. Spring, L. H. Track Tightener	1	.65	0.1
	10457	. Bolt, 5/16 - 18	LP	.05	
	10458	. Washer, 5/16	LP	.05	
	10459	. Washer, Lock	LP	.01	
	10460	. Washer, 5/16	LP	.04	
18	10476	R. H. Track Hanger Assy	1	10.90	
	10477	. Axle Hanger Weldment, R. H.	0	4.80	0.3
	10479	. R. H. Track Tightener Bracket Weldment	0	4.80	0.2
	10486	. Spring, R. H. Track Tightener	1	.65	0.1
	10457	. Bolt, 5/16 - 18	LP	.05	
	10458	. Washer, 5/16	LP	.05	
	10459	. Washer, Lock	LP	.01	
	10460	. Washer, 5/16	LP	.04	
19	10465	Adjusting Stud (2)	1	.70	
20	10466	Lock Nut (2)	LP	.05	
21	10467	Track Tightener Bolt (2)	2	.40	
22	10469	Washer (2)	LP	.02	
23	10468	Bolt (2)	LP	.05	
24	10469	Washer (2)	LP	.02	
25	10470	Lock Nut (2)	LP	.05	

TABLE 5-1 ENGINE ASSEMBLY

The engines used in the Firebird Snowmobile are as follows:

<u>Item</u>	<u>Part No.</u>
336 Sachs	10511-1
399 Kohler	10511-2
399 Hirth	10511-3
438 Hirth	10511-4
493 Hirth	10511-5
634 Hirth	10511-6

The engine mounting parts vary with each engine used. This table lists the engine mounting parts for all engines. The column headed "Used With" indicates, by dash number, the engine with which the part must be used.

<u>Part No.</u>	<u>Description</u>	<u>Used With</u>	<u>List Price Each</u>
10513-1	Motor Mount Bar (2)	-3, -4, -5, -6 (1 only with -6)	2.75
10514-1	Spacers, Motor (4)	-6	.25
10514-2	Spacers, Motor (4)	-3, -4, -5	.25
10515	Bolts, Motor (4)	-3, -4, -5, -6	.15
10516	Lockwasher (4)	-3, -4, -5, -6	.02
10520	Motor Mount Bar	-6	2.90
10521	Impulse Line	-3, -4, -5, -6	.15
10523-1	Carburetor, Tillotson	-3, -4, -5, -6	33.10
10523-2	Carburetor, Keihen	-3, -4, -5, -6	33.10
Note			
Make of carburetor furnished is determined by supply.			
10532	Blade, Male, Wire (5)	-3, -4, -5, -6	.02
10533	Insulators (5)	-3, -4, -5, -6	.02
10537	Exhaust Manifold Weldment	-2, -3, -4, -5, -6	3.00
10543-1	Drive Clutch, 770	-1	45.00
10543-2	Drive Clutch, 910	-2, -3, -4, -5, -6	48.00
10548	Cable Bracket Assembly	-3, -4, -5, -6	.30
10554	Wire Clamps (2)	-3, -4, -5, -6	.10
10564	Muffler Weldment	-2, -3, -4, -5, -6	15.50
10571	Flex Tubing	-2, -3, -4, -5, -6	
10572	Clamp, Exhaust Pipe Assembly (2)	-2, -3, -4, -5, -6	
10580	Muffler Clamp Band	-2, -3, -4, -5, -6	

Part No.	Description	Used With	List Price Each
10747	Primer Kit	All	4.75
10544	Bolt, Drive Clutch	-2, -3, -4, -5, -6	.55
10546	Lockwasher, Drive Clutch	-2, -3, -4, -5, -6	.02
10514-3	Spacer, Motor (8)	-2	.25
10514-4	Washer, Spacer Motor (8)	-2	
10534	Bolts, Motor (4)	-6	
10275	Bolts, Motor (4)	-2	
10535-1	Washer, Star (4)	-2	
10545	Bolt, Drive Clutch	-1	.50
10551	Choke and Throttle Bracket	-2	.55
10091	Rivet (4)	-2	.05
10712	Screw, 10-32 (2)	-2	.04
10716	Lock Nut (2)	-2	.04

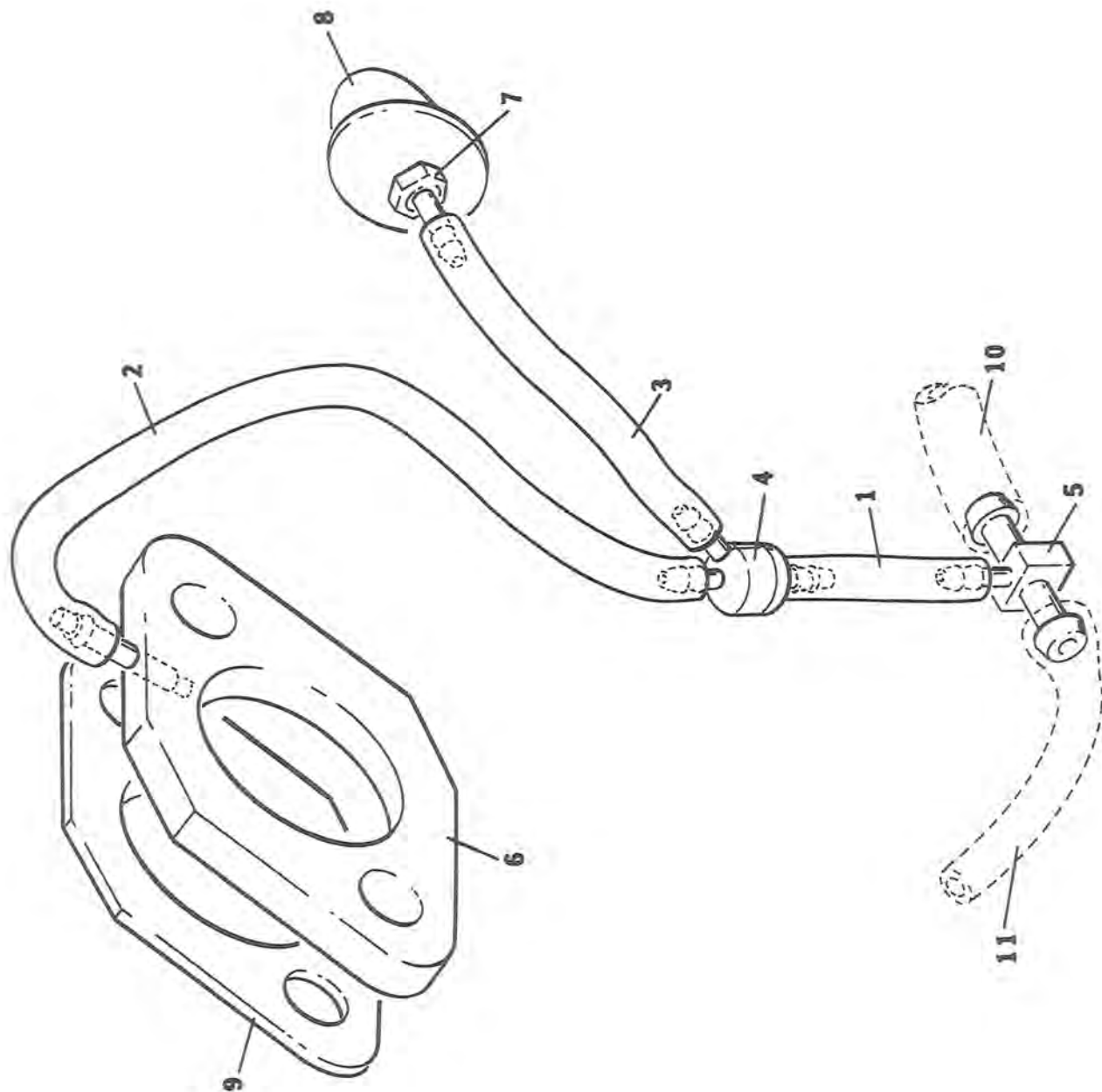


Figure 5-4 Primer Kit

EXECUTIVE MODEL SNOWMOBILE

Item No.	Part Number	Description	Dealer Inventory	List Price	Flat Rate Time
5-1, 1	11001	Body Assembly	0	97.00	
5-1, 8	11052	Seat Box	0	23.00	0.5
	11090	Hold Down, Tank	0	2.60	
5-1, 12	11132	Motor Mount Assembly (2)	0	8.75	0.4
5-1, 13	11148	Pan Assembly	0	26.10	
	11149	Pan	0	20.10	1.0
	11150	Hinge, Hood	0	4.00	
	11152-1	Back-up, Hinge	0	1.20	
	11171	Bumper, Front	0	13.00	
5-1, 16	11175	Tiller Support Weldment	0	7.10	0.2
	11188	Bumper Weldment	0	16.00	0.3
	11200	Kickstand Weldment	0	5.40	0.2
5-3, 1	11318	Track, 20-1/2	0	205.00	1.0
	11319	Front Axle Assembly	0	13.40	0.6
5-3, 12	11337	Front Bogie Assembly	0	21.00	0.2
	11338	Axle, Main Steel	0	2.20	0.1
	11339	L. H. Bogie, Bracket Weldment	0	6.10	0.2
	11347	R. H. Bogie, Bracket Weldment	0	6.10	0.2
	11355	Center Bogie Bracket, Weldment, Frt	0	3.10	0.3
	11365	Axle, Front Bogie	1	1.95	0.1
	11366	Axle, Rear Bogie	1	1.55	0.2
	11383	Axle, Main (2)	1	1.80	
	11394	Center Bogie Bracket, Weldment (2)	0	3.00	
	11434	Axle, Rear Idler	0	3.90	
	11571	Flex Tubing	0	1.80	
5-1, 25	11650	Tie Rod (2)	0	1.75	
5-1, 26	11669	Hood Assembly	0	70.00	
	11670	Hood	0	48.00	0.5
	11671	Grill Screen	1	1.60	
	11672	Grill	0	15.00	
	11680	Trim, Vinyl Hood	0	2.00	
	11152-2	Back-up, Hinge	0	.90	
	11722	Dash	0	14.20	0.7
	11744	Decal, Dash L. H.	0	1.15	
	11745	Decal, Dash R. H.	0	.85	
5-1, 29	11795	Windshield	1	10.70	
	11796	Trim, Chrome Vinyl Windshield	1	.90	
	11797	Trim, Base	0	2.20	
5-1, 31	11841	Rear Flap	0	.85	

Item No.	Description	Dealer Inventory	List Price	Flat Rate Time
11842	Back-up Strip, Rear Flap	0	.40	
11082-2	399 Tank Decals, L. H.	1	1.00	
11082-3	438 Tank Decals, L. H.	1	1.00	
11082-4	493 Tank Decals, L. H.	1	1.00	
11082-5	634 Tank Decals, L. H.	1	1.00	
11083-2	399 Tank Decals, R. H.	1	1.00	
11083-3	438 Tank Decals, R. H.	1	1.00	
11083-4	493 Tank Decals, R. H.	1	1.00	
11083-5	634 Tank Decals, R. H.	1	1.00	

KEIHIN SEIKI CARBURETOR

PARTS LIST

<u>REF. NO.</u>	<u>PART NAME</u>	<u>PART NUMBER</u>
31	Screw	0102-017-11
58	Screw	0128-008-12
51	Screw	0129-022-11
42	Sealing Nut	0206-003-11
4	Washer	0301-017-50
40	Washer	0301-021-50
27	Washer	0301-024-50
38	Washer	0301-026-50
44	Washer	0301-033-11
53	Washer	0301-035-11
45	Washer	0301-035-11
45	Washer	0301-041-11
1	Washer	0301-104-70
1	Clip	0402-004-19
49	Cotter Pin	0601-001-11
56	Choke Friction Ball	0703-002-10
3	Oring	0901-003-60
23	Oring	0901-006-60
5	Oring	0901-046-60
24	Oring	0901-065-60
1	Choke Shutter Ass'y	1000-406-04
1	Choke Shutter Ass'y	1000-407-01
1	Choke Shutter Ass'y	1000-409-01
1	Choke Shutter Ass'y	1000-411-01
1	Choke Shutter Ass'y	1000-413-01
1	Choke Shutter Ass'y	1000-420-01
1	Throttle Shutter	1020-226-20
1	Throttle Shutter	1020-227-20
10	Adjustment Screw	1034-051-20
33	Idle Speed Screw	1034-053-20
33	Idle Speed Screw	1034-054-20
47	Choke Shutter	1040-088-20
47	Choke Shutter	1040-089-20
13	Inlet Control Lever	1054-017-20
11	Inlet Control Lever Pin	1055-001-20
34	Inlet Valve Ass'y	1060-029-21

<u>REF. NO.</u>	<u>PART NAME</u>	<u>PART NUMBER</u>
34	Inlet Valve 1st Over Size	1060-029-31
34	Inlet Valve 2nd Over Size	1060-029-41
39	Banjo Bolt	1070-007-21
41	Banjo Fitting	1072-011-20
26	Fuel Joint	1076-005-21
22	High Speed Mix Screw	1078-023-21
21	Idle Mix Screw	1078-025-20
9	Pump Body Ass'y	1085-002-21
7	Pump Body	1085-003-21
17	Pump Cover	1086-018-20
19	Plate	1090-004-20
21	Link Lever	1100-007-20
48	Choke Shaft Ass'y	1111-243-21
59	Choke Shaft Ass'y	1111-246-21
60	Choke Shaft Ass'y	1111-247-21
46	Choke Lever Ass'y	1113-080-21
46	Choke Lever Ass'y	1113-081-21
55	Collar	1118-094-20
15	Diaphragm Ass'y	1201-032-21
43	Pump Diaphragm	1201-033-20
18	Gasket	1202-020-20
2	Gasket	1202-021-20
2	Gasket	1202-022-20
6	Gasket	1202-024-20
37	Gasket	1202-025
14	Lever Pin Set Plate	1233-002-20
8	Fuel Pump Check Valve	1242-013-20
57	Choke Friction Springs	1290-059-20
12	Inlet Tension Spring	1300-035-20
16	Diaphragm	1300-036-20
28	Spring	1300-054-20
20	Spring	1300-055-20
1	Throttle Return Spring	1305-026-20
1	Throttle Return Spring	1305-028-21
50	Rod	1458-028-20
52	Rod	1458-029-20
29	Screw	4110-006-11
30	Screw	4110-013-11
35	Screw	4110-017-11
36	Screw	4118-003-11
1	Screw	4128-001-12

<u>REF. NO.</u>	<u>PART NAME</u>	<u>PART NUMBER</u>
58	Screw	4128-001-12
32	Screw	4129-019-11
1	Body Ass'y	5002-401-20
1	Body	5002-401-21
1	Body	5002-402-20
1	Body Ass'y	5002-402-21
1	Throttle Shaft & Lever	5025-213-21
1	Throttle Shaft & Lever	5025-214-21
48	Choke Shaft Ass'y	5111-217-21
60	Choke Shaft Ass'y	5111-230-21
59	Choke Shaft Ass'y	5111-231-21
25	Plug Screw	5153-003-20
61	Throttle Cable Bracket F.T.	
62	Throttle Cable Bracket C.T.	
63	Throttle Cable Bracket Screw	
64	Fuel Level Checking Parts	
65	Gasket Set for Series 406	
65	Gasket Set for Series 407	
66	Repair Kit for Series 406	
66	Repair Kit for Series 407	

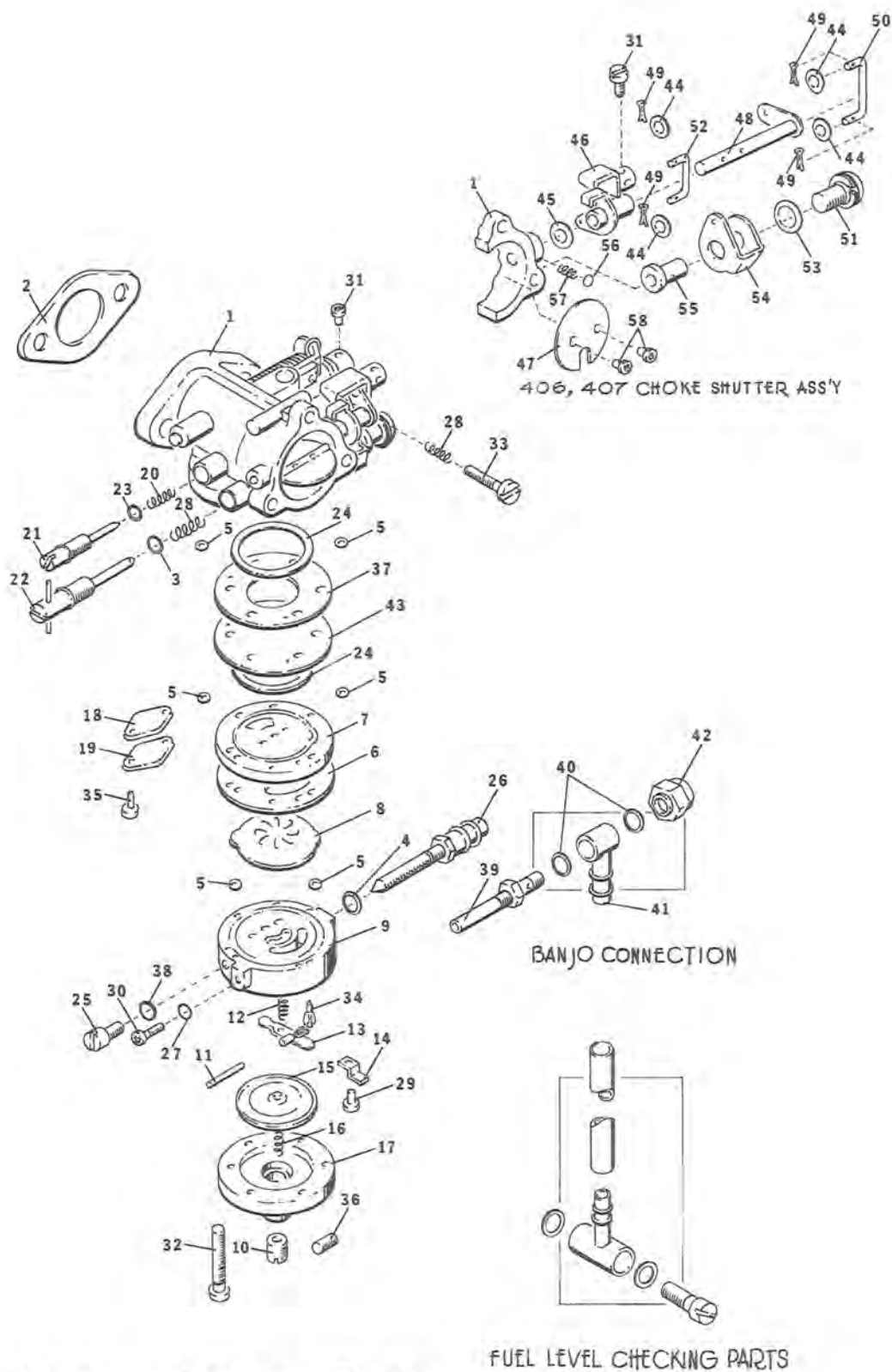


Figure 5-5 Carburetor Assembly

HIRTH PARTS IN INVENTORY

PART NUMBER	DESCRIPTION	QTY. USED PER ENGINE				LIST PRICE
		171	210	211	220	
170 B 2 U	Crankcase	1				160.95
210 A 2 U	Crankcase		1	1	1	160.95
055.21	Oil Seal	2	2	2	2	2.10
6306 DIN 625	Ball Bearing	1	1	1	1	8.28
171 B 1 U	Crankshaft	1				263.30
211 A 1 U	Crankshaft		1	1	1	239.05
014.31	Piston	2				36.89
014.31/1	Piston Ring	4				1.77
014.31/4	Piston Pin	2				26.82
014.30	Piston Assy.				2	27.05
014.29	Piston Assy.		2			26.25
014.36	Piston			2		31.78
014.30/1	Piston Ring				4	1.55
014.29/1	Piston Ring		4			1.55
014.36/1	Piston Ring				4	1.83
014.30/4	Piston Ring				2	3.85
014.29/4	Piston Pin		2			3.85
014.36/4	Piston Pin			2		4.03
046.6	Needle Cage	2	2	2	2	4.15
192 K 1	Cylinder	2				106.80
222 A 1	Cylinder				2	102.25
212 A 1	Cylinder		2			103.50
212 B 1	Cylinder			2		118.89
172 A 1	Cylinder Head	2				13.52
212 A 3	Cylinder Head		2	2	2	13.25
50 K 4	Hose Nipple	1	1	1	1	.70
Di 17/2	Gasket Set	1				5.58
Di 22/1	Gasket Set		1	1	1	8.20
193 D 1 U	Flywheel	1	1	1	1	33.60
	Dynamo Magneto					
021.18	Ignition	1	1	1	1	116.25
020.12/20	Washer	1	1	1	1	.20
020.12/19	Timing Lever	1	1	1	1	2.25
020.12/18	Spring	1	1	1	1	.35
021.17/9	Advancing Cam	1	1	1	1	8.65
021.18/4	Lighting Coil	1	1	1	1	8.50
021.3/7	Condenser	1	1	1	1	1.50
021.4/6	Fixed Point	1	1	1	1	1.30
021.4/5	Movable Point	1	1	1	1	1.40

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>QTY. USED PER ENGINE</u>				<u>LIST PRICE</u>
		<u>171</u>	<u>210</u>	<u>211</u>	<u>220</u>	
021.18/3A	Generator Coil	1	1	1	1	6.25
021.18/3b	Generator Coil	1	1	1	1	6.25
14 B 9 U	Ground Cable	1	1	1	1	.70
165 A 24 U	Starter Housing	1	1	1	1	12.31
165 A 20	Spiral Spring	1	1	1	1	4.15
165 A 8 U	Driver Pulley	1	1	1	1	11.90
15 B 31	Cage	1	1	1	1	3.20
15 B 16	Clamp Roller	3	3	3	3	.45
75 B 17	Annular Spring	1	1	1	1	.35
165 A 1 U	Catch	1	1	1	1	8.60
15 A 17	Washer	1	1	1	1	.15
15 A 19	Washer	1	1	1	1	.15
75 B 23	Rope Guide Bushing	1	1	1	1	.60
165 A 16	Wire Rope	1	1	1	1	2.75
75 B 36	Handle	1	1	1	1	.90
75 B 34)	Clamp Ring	1	1	1	1	1.30
75 B 35)	Clamp Piece					
	Recoil Starter					
165 D 1 U	Complete	1	1	1	1	50.75