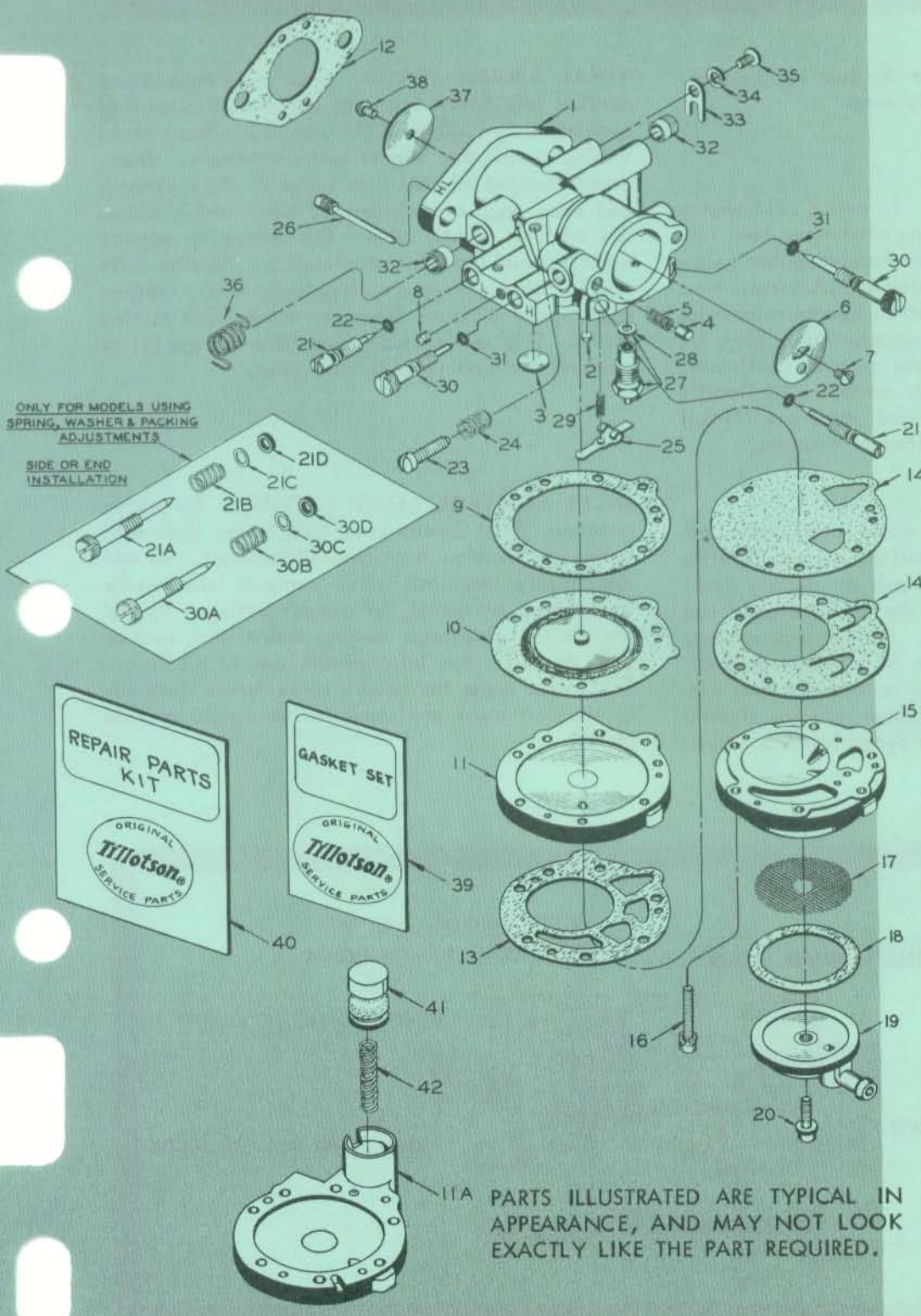
HL SERIES EXPORT

Parts List Section • CARBURETORS

ILLUSTRATION OF BASIC PARTS STANDARD THROUGHOUT **HL** SERIES CARBURETOR.
FOR INDIVIDUAL MODEL LISTINGS SEE FOLLOWING PAGES.



Ref. No.	Part Name
1	Body (Service)
2	Body Channel Cup Plug
3	Body Channel Welch Plug
4	Choke Friction Pin
5	Choke Friction Spring
6	Choke Shutter
7	Choke Shutter Screw & Lockwasher
8	Diaphragm Chamber Drain Screw
9	Diaphragm Gasket
10	Diaphragm
11	Diaphragm Cover
11A	Diaphragm Cover
12	Flange Gasket
13	Fuel Pump Gasket
14	Fuel Pump Diaphragm
14A	Fuel Pump Diaphragm
15	Fuel Pump Body
16	Fuel Pump Body Screw & Lockwasher (6)
17	Fuel Strainer Screen
18	Fuel Strainer Cover Gasket
19	Fuel Strainer Cover
20	Fuel Strainer Cover Retaining Screw
21	Idle Mix. Screw (Incl. Ref. 22)
21A	Idle Mix. Screw
21B	Idle Mix. Screw Spring
21C	Idle Mix. Screw Washer
21D	Idle Mix. Screw Packing
22	Idle Mix. Screw Seal Ring
23	Idle Speed Screw
24	Idle Speed Screw Spring
25	Inlet Control Lever
26	Inlet Control Lever Pinion Screw
27	Inlet Needle, Seat & Gasket
28	Inlet Seat Gasket
29	Inlet Tension Spring
30	High Speed Mixture Screw (Incl. Ref. 31)
30A	High Speed Mix. Screw
30B	High Speed Mix. Screw Spring
30C	High Speed Mix. Screw Washer
30D	High Speed Mix. Screw Packing
31	High Speed Mix. Screw Seal Ring
32	Throttle Shaft Bushings (2)
33	Throttle Shaft Clip
34	Throttle Shaft Clip Lockwasher
35	Throttle Shaft Clip Ret. Screw
36	Throttle Shaft Return Spring
37	Throttle Shutter
38	Throttle Shutter Screw & Lockwasher
39	Gasket & Packing Set
40	Repair Parts Kit
41	Accelerator Pump Assembly
42	Accelerator Pump Spring

TILLOTSON MANUFACTURING CO.
PARTS AND SERVICE DIVISION
TOLEDO, OHIO 43612

PRINTED IN U.S.A.

Rev. 10/66

ADJUSTMENT and SERVICE INSTRUCTIONS

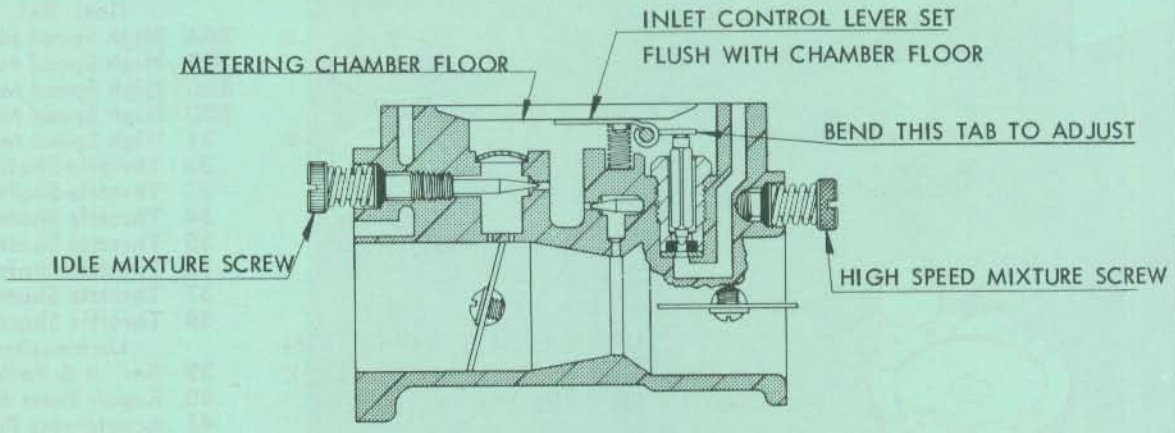
To properly adjust carburetor for best performance the engine must be thoroughly warm.

INITIAL ADJUSTMENTS: To start a cold engine first carefully close, by turning clockwise, both idle and High Speed Mixture Screws located either below air intake opening or at left side of carburetor. Now open High Speed Mixture Screw counter-clockwise approximately one and one-quarter turns (1-1/4). Open Idle Mixture Screw three quarters (3/4) turn. Back Idle Speed Screw off its contact with Throttle Stop Lever then turn it inward about one (1) full turn so as to slightly open Throttle Shutter.

Open fuel shut off valve, choke carburetor, put ignition switch to "ON" position, squeeze throttle trigger and give firm quick pull on starting cord. When engine fires, decrease the choke slightly and ease off the throttle trigger. Do not race engine, gradually decrease the choke to full open position as engine warms. Then make several test cuts and if necessary, to keep engine from stalling, slightly increase opening of the High Speed Mixture Screw.

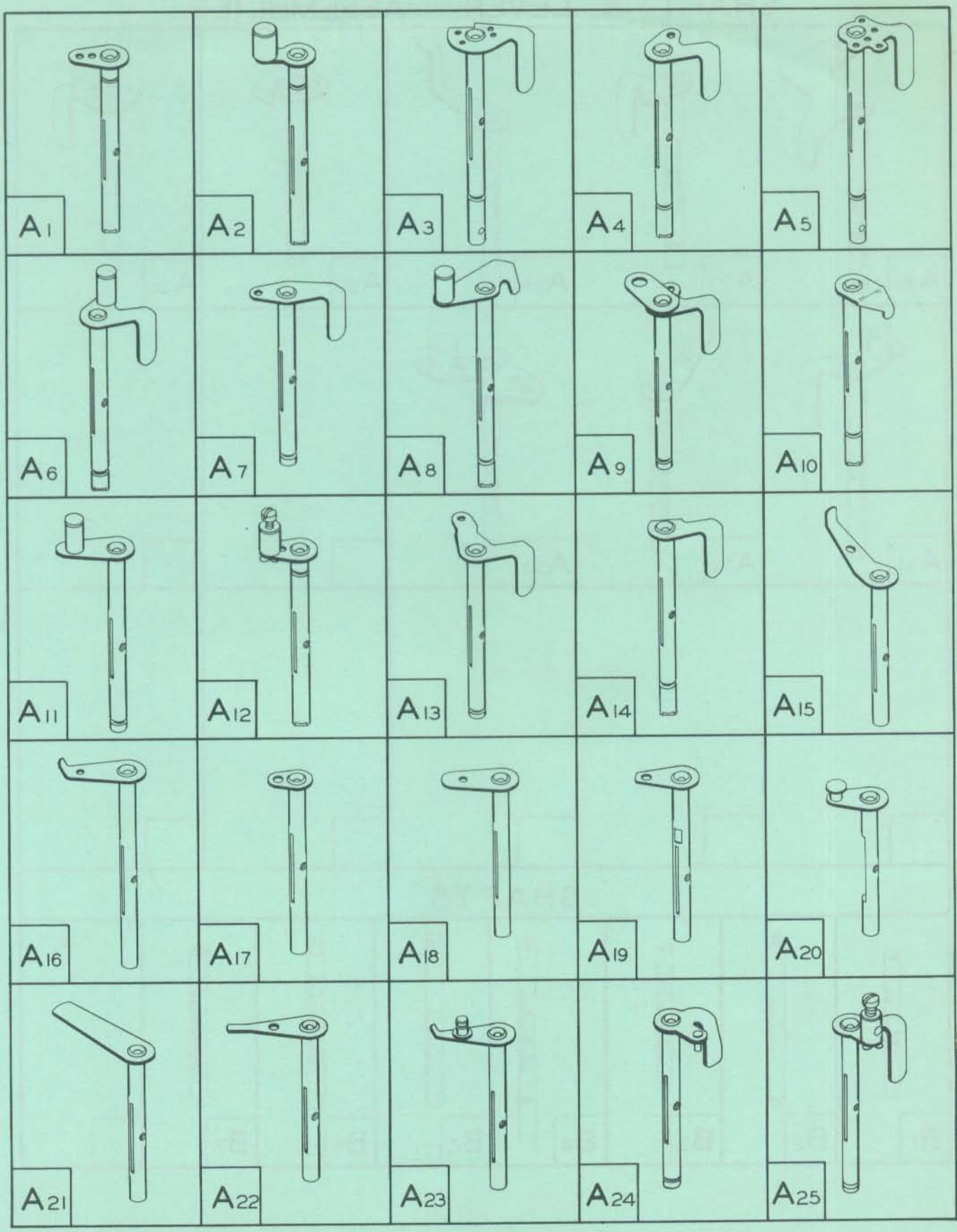
FINAL ADJUSTMENTS: Now close throttle and readjust Idle Speed Screw so engine idle speed is at approximately 1800 to 2200 RPM and without chain turning or throttle trigger being depressed. Then, slowly readjust Idle Mixture Screw to obtain smooth and even engine performance, after which richen the mixture slightly above this setting to provide sufficient fuel for quick acceleration. Finally, with saw functioning under a cutting load, slowly readjust High Speed Mixture Screw to obtain even cutting speed. This setting will vary between one (1) to one and one-half (1-1/2) turns open.

INLET CONTROL LEVER SETTING: For proper operation, Inlet Control Lever must be set flush with diaphragm chamber floor (See Illustration). To adjust, simply bend tab which contacts inlet needle up or down to obtain the correct setting. Do not pry on the diaphragm contact end of the lever or push down on the inlet needle end of the lever. This could cause the needle to be forced deep into the soft insert and result in the needle sticking closed.

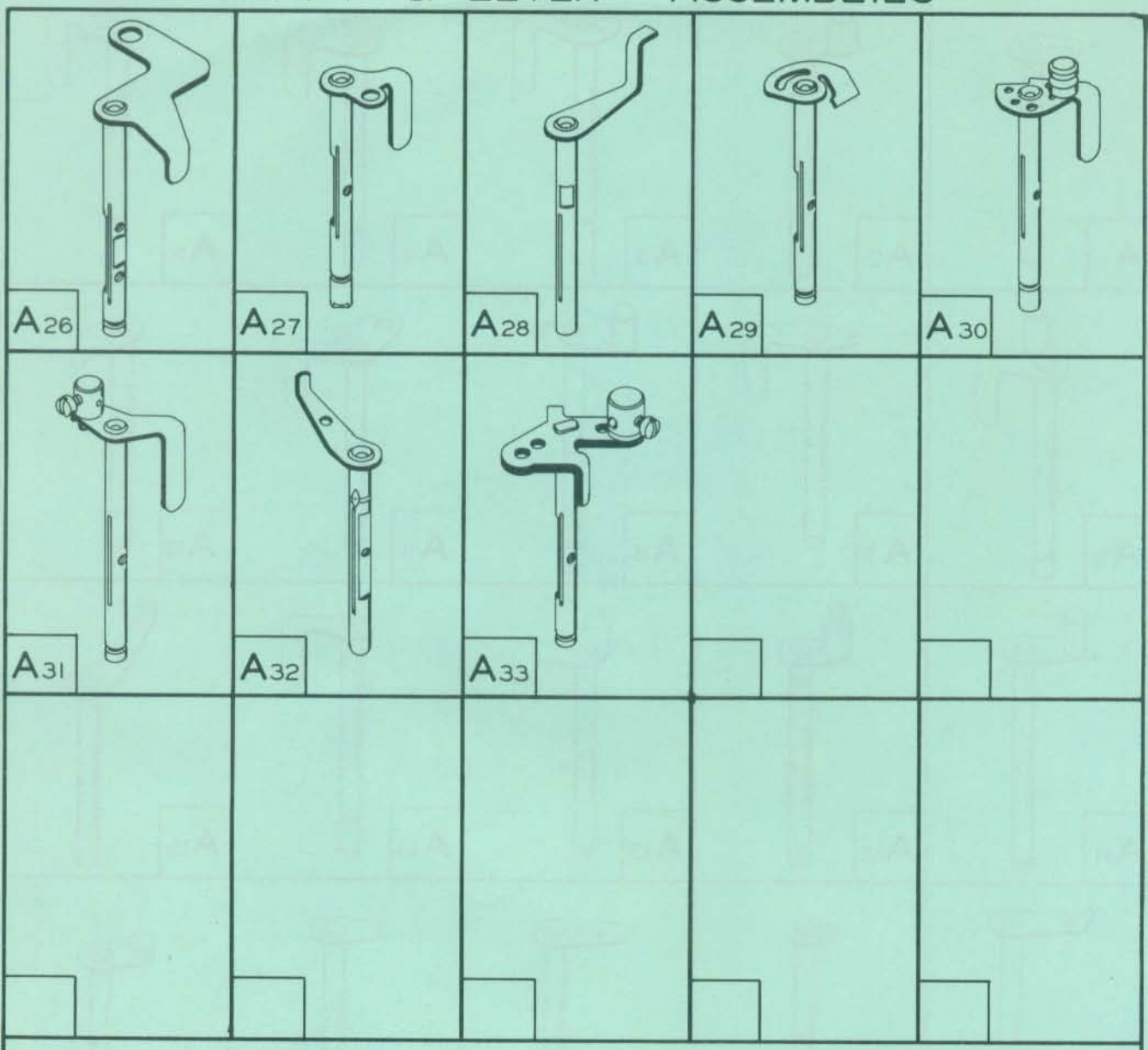


TILLOTSON MANUFACTURING CO.
PARTS AND SERVICE DIVISION
TOLEDO, OHIO 43612

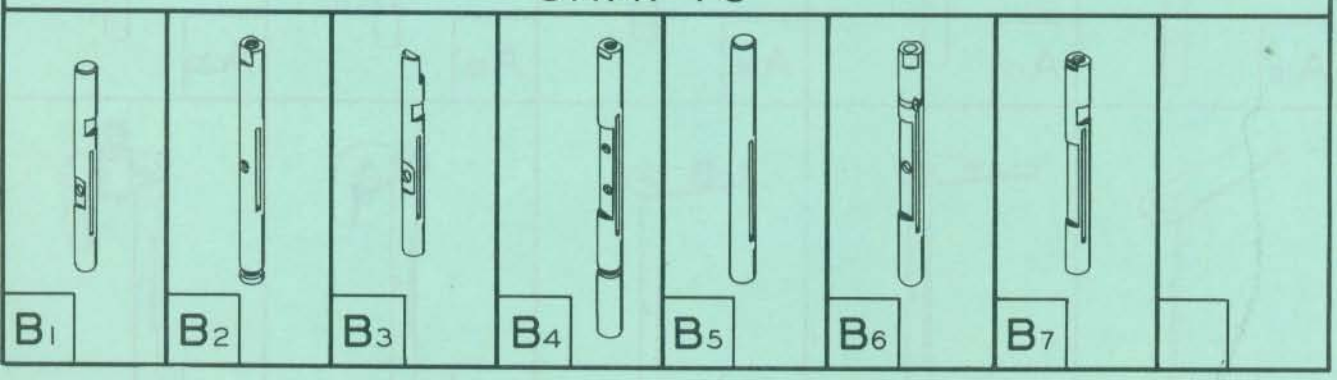
SHAFT & LEVER ASSEMBLIES



SHAFT & LEVER ASSEMBLIES

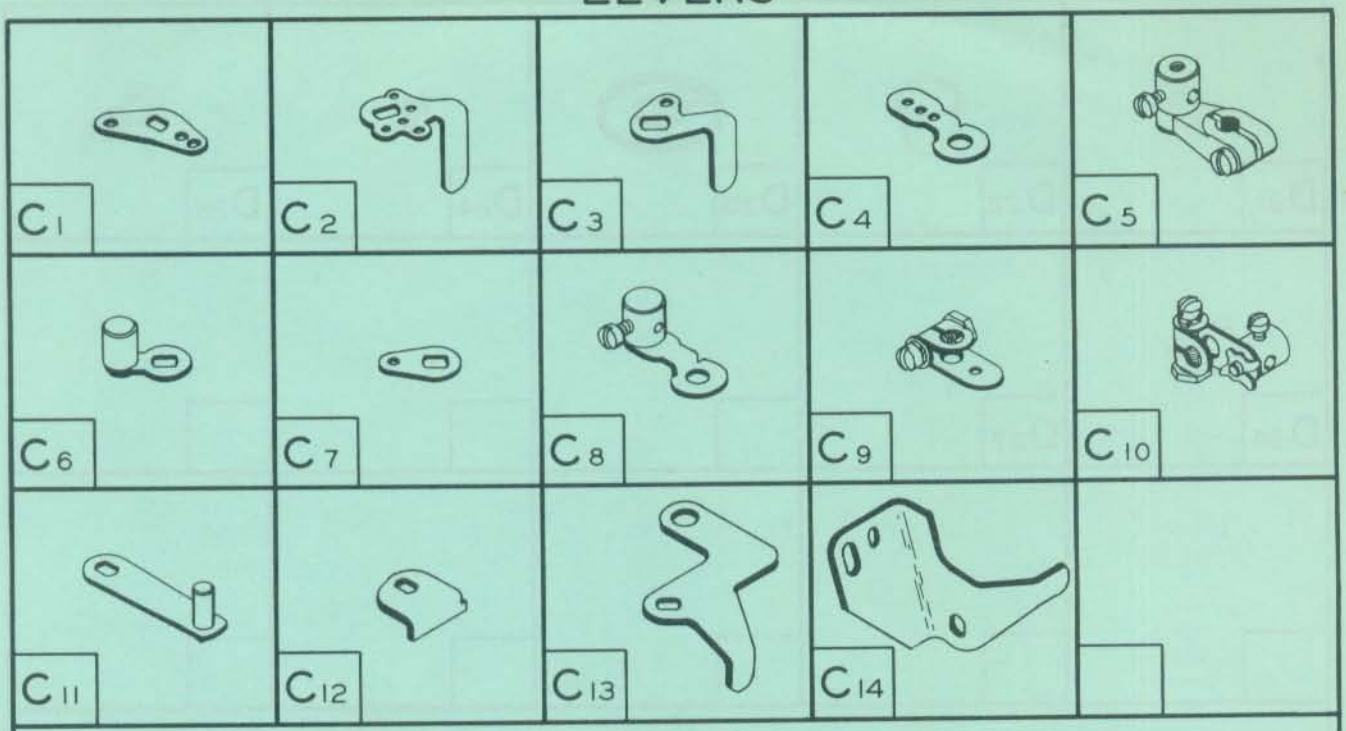


SHAFTS

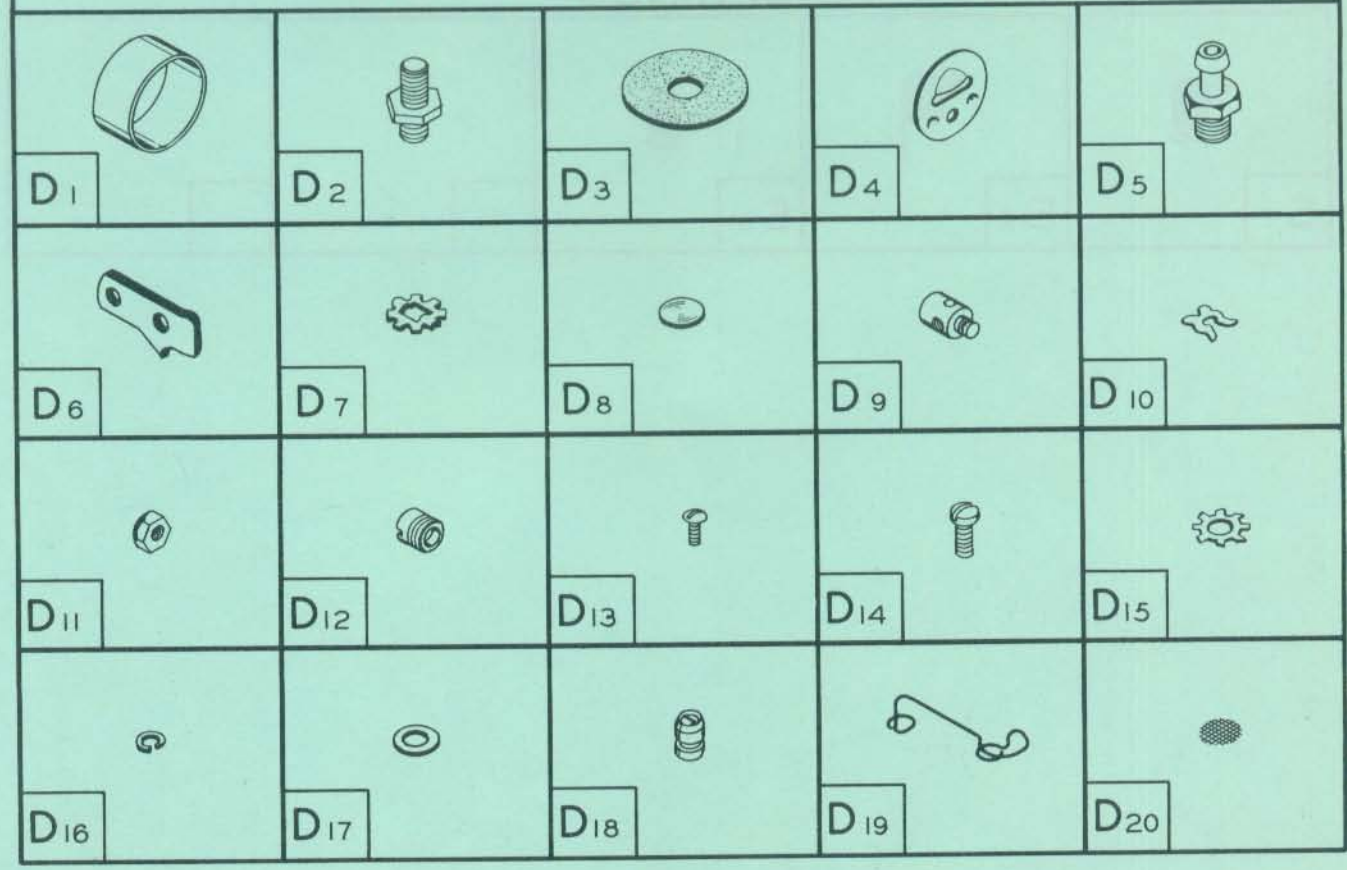


TILLOTSON MANUFACTURING CO.
PARTS AND SERVICE DIVISION
TOLEDO, OHIO 43612

LEVERS

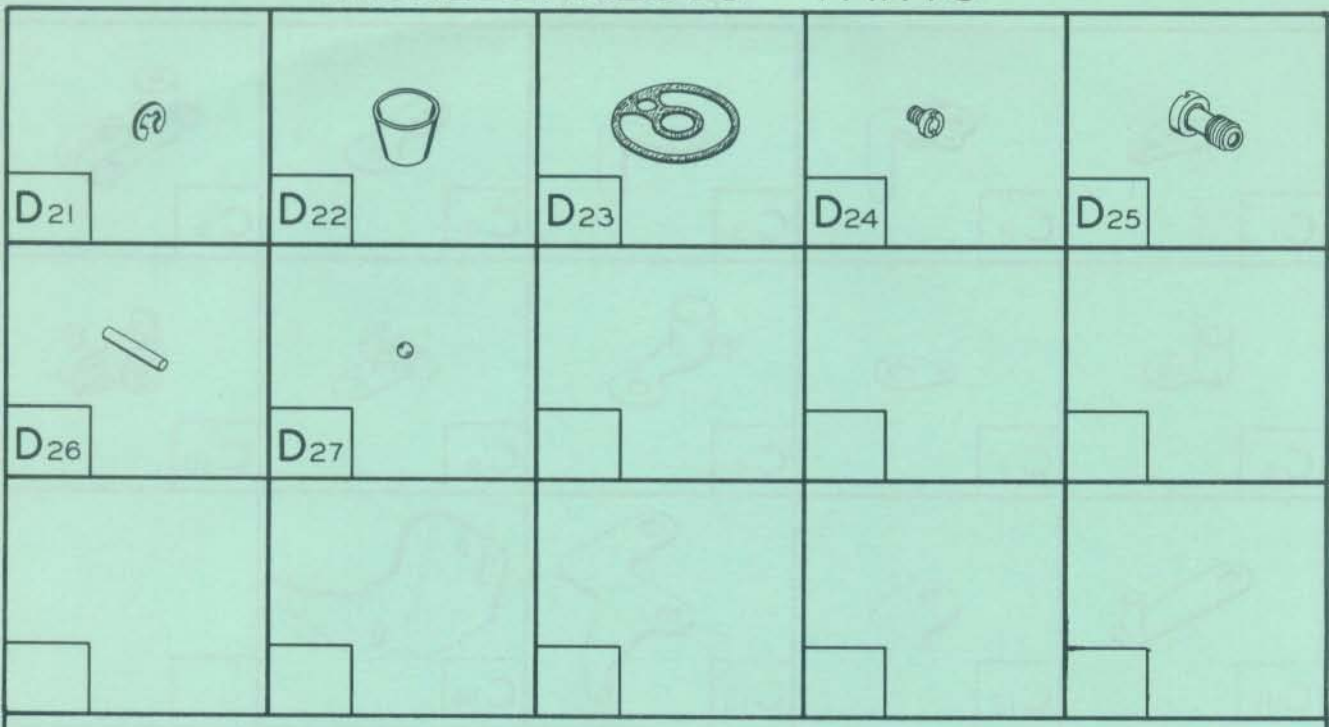


MISCELLANEOUS PARTS

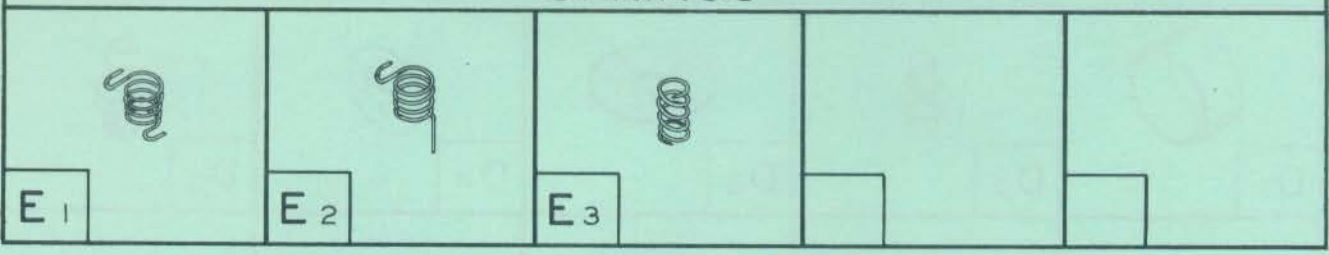


TILLOTSON MANUFACTURING CO.
PARTS AND SERVICE DIVISION
TOLEDO, OHIO 43612

MISCELLANEOUS PARTS



SPRINGS



TILLOTSON MANUFACTURING CO.
PARTS AND SERVICE DIVISION
TOLEDO, OHIO 43612

BASIC PARTS ILLUSTRATIONS: See front cover for illustrations corresponding to reference **numbers** in list below.
SPECIAL PARTS ILLUSTRATIONS: See pages 3, 4, 5 and 6 for illustrations corresponding to reference **letters** in list below.

Carburetor Model	Superseding Model	Engine Manufacturer
HL-36A		Andreas Stihl Maschinenfabrik
HL-39A	HL-67A	A/B Partner
HL-39B	HL-67A	A/B Partner
HL-55A		A/S Jo-Bu Mekaniske Verksted
HL-58A	HL-68A	Dolmar Maschinenfabrik
HL-67A		A/B Partner

Ref. No.	Part Name	HL-36A	HL-39A	HL-39B	HL-55A	HL-58A	HL-67A
1	Body (Service)	----	011456	011670	011640	011671	011847
2	* Body Channel Cup Plug	010588	010588	010588	010588	010588	012347
D20	Body Channel Screen	----	----	----	----	----	012344
D16	Body Channel Screen Ret. Ring	----	----	----	----	----	012345
3	* Body Channel Welch Plug	02531	02531	02531	02531	02531	02531
D12	Body Channel Plug Screw	----	----	----	03311	----	----
4	Choke Friction Pin	05454	05454	05454	05454	05454	05454
5	Choke Friction Spring	08805	08805	08805	08805	08805	08805
B1	Choke Shaft	----	----	011669	----	----	011846
A15	Choke Shaft & Lever	010794	----	----	011639	010837	----
A21	Choke Shaft & Lever	----	011448	----	----	----	----
D4	Choke Shutter	----	----	----	----	----	011442
6	Choke Shutter	09626	09626	09626	09626	09626	----
7	Choke Shutter Screw & Lockwasher	08942	08942	08942	0120	08942	----
8	Diaphragm Chamber Drain Screw	02232	02232	02232	02232	02232	02232
9	Diaphragm Gasket	012473	012473	012473	012473	012473	012473
10	* Diaphragm	012475	012475	012475	012475	012475	012475
11	Diaphragm Cover	010526	010526	010526	010526	010526	010526
12	Flange Gasket	010730	010730	010730	010730	010730	010730
13	Fuel Pump Gasket	012930	012930	012390	012390	012390	012390
14	* Fuel Pump Diaphragm	010531T	012698	012698	010531T	010531T	012698
15	Fuel Pump Body	010525	010525	010525	010525	010525	010525
16	Fuel Pump Body Screw & Lockwasher (6)	010098	010098	010098	010098	010098	010098
17	* Fuel Strainer Screen	010530	010530	010530	010530	010530	010530
18	Fuel Strainer Cover Gasket	010529	010529	010529	010529	010529	010529
19	Fuel Strainer Cover	010527	010527	010527	010527	010527	010527
20	* Fuel Strainer Cover Ret. Screw	010571	010571	010571	010571	010571	010571
D20	* Idle Air Bleed Screen	----	----	----	----	----	011493
21	* Idle Mixture Screw	010784	010617	010617	011221	010617	----
21A	* Idle Mixture Screw	----	----	----	----	----	011716
21B	* Idle Mixture Screw Spring	----	----	----	----	----	08793
21C	Idle Mixture Screw Washer	----	----	----	----	----	011428
21D	Idle Mixture Screw Packing	----	----	----	----	----	011401
22	Idle Mixture Screw Seal Ring	010589	010589	010589	010589	010589	----
23	* Idle Speed Screw	05095	05095	05095	05095	05095	05095
24	* Idle Speed Screw Spring	0788	0788	0788	0788	0788	0788
25	* Inlet Control Lever	010513	010513	010513	010513	010513	010513
26	* Inlet Control Lever Pinion Screw	010581	010581	010581	010581	010581	010581
27	* **INLET NEEDLE SEAT & GASKET**	010580	012503	012503	010580	012339	012503
28	Inlet Seat Gasket	010165	010165	010165	010165	010165	010165
29	* Inlet Tension Spring	010578	010578	010578	010578	010578	010578
30	* High Speed Mixture Screw	010791	010624	010624	011216	010624	----
30A	* High Speed Mixture Screw	----	----	----	----	----	011494
30B	* High Speed Mixture Screw Spring	----	----	----	----	----	08793
30C	High Speed Mixture Screw Washer	----	----	----	----	----	011428
30D	High Speed Mixture Screw Packing	----	----	----	----	----	011401
31	High Speed Mixture Screw Seal Ring	010589	010589	010589	010589	010589	----
C6	Throttle Lever	----	----	----	011218	----	----
D13	* Throttle Lever Ret. Screw	----	06393	06393	06393	06393	06393
D16	* Throttle Lever Ret. Lockwasher	----	06396	06396	06396	06396	06396
A1	Throttle Shaft & Lever	----	----	----	----	010862	----
A4	Throttle Shaft & Lever	011370	----	----	----	----	012165
A5	Throttle Shaft & Lever	----	----	----	011224	----	----
A6	Throttle Shaft & Lever	----	011451	011451	----	----	----
32	Throttle Shaft Bushings(2)	09780	09780	09780	09780	09780	09780
33	Throttle Shaft Clip	09678	09678	09678	09678	09678	09678
34	Throttle Shaft Clip Lockwasher	0992	0992	0992	0992	0992	0992
35	Throttle Shaft Clip Ret. Screw	01974	01974	01974	01974	01974	01974
36	* Throttle Shaft Ret. Spring	011368	----	----	010775	010999	----
37	Throttle Shutter	08646	08646	08646	011226	08646	08646
38	* Throttle Shutter Screw & Lockwasher	08942	08942	08942	08317	08942	08942
C3	Throttle Stop Lever	----	----	----	----	010783	----
39	* **GASKET & PACKING SET**	GS-122	GS-122	GS-122	GS-122	GS-122	GS-155
40	**REPAIR PARTS KIT**	RK-368	RK-492	RK-492	RK-479	RK-494	RK-410

(*) Indicates contents of Repair Parts Kit

BASIC PARTS ILLUSTRATIONS: See front cover for illustrations corresponding to reference **numbers** in list below.

SPECIAL PARTS ILLUSTRATIONS: See pages 3, 4, 5 and 6 for illustrations corresponding to reference **letters** in list below.

Carburetor Model	Superseding Model	Engine Manufacturer
HL-68A		Dolmar Maschinenfabrik
HL-72A		A/S Jo-Bu Mekaniske Verksted
HL-74A		Andreas Stihl Maschinenfabrik
HL-75A		Auto-Koneistamo Oy
HL-79A		Husqvarna Vapenfabriks Akt.
HL-80A		Solo Kleinmotoren GMBH

Ref. No.	Part Name	HL-68A	HL-72A	HL-74A	HL-75A	HL-79A	HL-80A
1	Body (Service)	011854	011879	011890	011891	011913	011915
2	* Body Channel Cup Plug.	010588	010588	010588	010588	----	010588
3	* Body Channel Welch Plug.	02531	02531	02531	02531	02531	02531
4	Choke Friction Pin	05454	05454	05454	05454	----	05454
5	Choke Friction Spring.	08805	08805	08805	08805	----	08805
A15	Choke Shaft & Lever.	010837	011878	011889	011383	----	011896
A11	Choke Shaft & Lever.	----	----	----	----	011912	----
D4	Choke Shutter.	----	011883	----	----	----	----
6	Choke Shutter.	09626	----	09626	09626	09626	09626
7	Choke Shutter Screw & Lockwasher	08942	----	010280	08942	010280	08942
8	Diaphragm Chamber Drain Screw.	02232	02232	02232	02232	02232	02232
9	Diaphragm Gasket	012473	012473	012473	012473	012473	012473
10	* Diaphragm.	012475	012475	012475	012475	012475	012475
11	Diaphragm Cover.	010526	010526	010526	010526	010526	010526
12	Flange Gasket.	010730	010730	010730	010730	010730	010730
13	Fuel Pump Gasket	012930	012930	012930	012930	012930	012930
14	* Fuel Pump Diaphragm.	010531T	010531T	010531T	010531T	010531T	010531T
15	Fuel Pump Body	010525	010525	010525	010525	011903	010525
16	Fuel Pump Screw & Lockwasher (6)	010098	010098	010098	010098	010098	010098
17	* Fuel Strainer Screen	010530	010530	010530	010530	010530	010530
18	Fuel Strainer Cover Gasket	010529	010529	010529	010529	010529	010529
19	Fuel Strainer Cover.	010527	010527	010527	010527	010527	010527
20	* Fuel Strainer Cover Ret. Screw	010571	010571	010571	010571	010571	010571
21	* Idle Mixture Screw	----	----	----	011100	----	----
21A	* Idle Mixture Screw	011716A	011716A	011716A	----	011716A	011716A
21B	* Idle Mixture Screw Spring.	08793	08793	08793	----	08793	08793
21C	Idle Mixture Screw Washer.	011428	011428	011428	----	011428	011428
D17	Idle Mixture Screw Washer (Thick).	----	----	----	----	----	04920
21D	Idle Mixture Screw Packing	011401	011401	011401	----	011401	011401
22	Idle Mixture Screw Seal Ring	----	----	----	010589	----	----
23	* Idle Speed Screw	05095	05095	05095	05095	011908	05095
24	* Idle Speed Screw Spring.	0788	0788	0788	0788	011103	0788
25	* Inlet Control Lever.	010513	010513	010513	010513	010513	010513
26	* Inlet Control Lever Pinion Screw	010581	010581	010581	010581	010581	010581
27	* **INLET NEEDLE SEAT & GASKET**	012339	012339	010580	012339	010580	012503
28	Inlet Seat Gasket.	010165	010165	010165	010165	010165	010165
29	* Inlet Tension Spring	010578	010578	010578	010578	010578	010578
30	* High Speed Mixture Screw	----	----	----	011101	----	----
30A	* High Speed Mixture Screw	011494A	011494A	011494A	----	011494A	011494A
30B	* High Speed Mixture Screw Spring.	08793	08793	08793	----	08793	08793
30C	High Speed Mixture Screw Washer.	011428	011428	011428	----	011428	011428
D17	High Speed Mixture Screw Washer (Thick).	----	----	----	----	----	04920
30D	High Speed Mixture Screw Packing	011401	011401	011401	----	011401	011401
31	High Speed Mixture Screw Seal Ring	----	----	----	010589	----	----
D18	Nozzle Check Valve	----	----	----	----	012084	----
C6	Throttle Lever	----	----	----	011218	----	----
D13	* Throttle Lever Ret. Screw.	06393	06393	06393	06393	----	06393
D16	* Throttle Lever Ret. Lockwasher	06396	06396	06396	06396	----	06396
A1	Throttle Shaft & Lever	010862	----	----	----	----	----
A4	Throttle Shaft & Lever	----	----	011888	011589	----	011894
A5	Throttle Shaft & Lever	----	011224	----	----	----	----
A11	Throttle Shaft & Lever	----	----	----	----	011909	----
32	Throttle Shaft Bushings (2).	09780	09780	09780	09780	09780	09780
33	Throttle Shaft Clip.	09678	09678	09678	09678	011907	09678
34	Throttle Shaft Clip Lockwasher	0992	0992	0992	0992	----	0992
35	Throttle Shaft Clip Ret. Screw	01974	01974	01974	01974	----	01974
36	* Throttle Shaft Ret. Spring	010999	012244	010999	010999	010999	012244
37	Throttle Shutter	08646	011226	08646	08646	08646	08646
38	* Throttle Shutter Screw & Lockwasher.	08942	08317	010280	08942	010280	08942
C3	Throttle Stop Lever.	010783	----	----	----	----	----
39	* **GASKET & PACKING SET**	GS-155	GS-155	GS-155	GS-122	GS-155	GS-155
40	**REPAIR PARTS KIT**	RK-476	RK-416	RK-418	RK-483	RK-425	RK-475

(*) Indicates contents of Repair Parts Kit

TILLOTSON MANUFACTURING CO.
PARTS AND SERVICE DIVISION
TOLEDO, OHIO 43612

BASIC PARTS ILLUSTRATIONS: See front cover for illustrations corresponding to reference **numbers** in list below.

SPECIAL PARTS ILLUSTRATIONS: See pages 3, 4, 5 and 6 for illustrations corresponding to reference **letters** in list below.

Carburetor Model	Superseding Model	Engine Manufacturer
HL-85A	HL-85B	Danarm Ltd.
HL-85B		Danarm Ltd.
HL-86A		Auto-Koneistamo Oy
HL-90A		S. A. Rexo
HL-95A	HL-95C	Tandsbyns Mekaniske Verksted
HL-95B	HL-95C	Tandsbyns Mekaniske Verksted

Ref. No.	Part Name	HL-85A	HL-85B	HL-86A	HL-90A	HL-95A	HL-95B
1	Body (Service)	012068	014086	012071	012100	013042	013042
2	* Body Channel Cup Plug	010588	010588	010588	010588	010588	012347
D20	Body Channel Screen	----	----	----	----	----	012344
D16	Body Channel Screen Ret. Ring	----	----	----	----	----	012345
3	* Body Channel Welch Plug	02531	02531	02531	02531	02531	02531
4	Choke Friction Pin	05454	05454	05454	05454	05454	05454
5	Choke Friction Spring	08805	08805	08805	08805	08805	08805
A15	Choke Shaft & Lever	----	----	011509	012097	011003	----
A16	Choke Shaft & Lever	----	----	----	----	----	012604
A18	Choke Shaft & Lever	012065	012065	----	----	----	----
D4	Choke Shutter	011883	011883	011883	011883	----	011883
6	Choke Shutter	----	----	----	----	09626	----
7	Choke Shutter Screw & Lockwasher	----	----	----	----	08942	----
8	Diaphragm Chamber Drain Screw	02232	02232	02232	02232	02232	02232
9	Diaphragm Gasket	012473	012473	012473	012473	012473	012473
10	* Diaphragm	012475	012475	012475	012475	012475	012475
11	Diaphragm Cover	010526	010526	010526	010526	010526	010526
12	Flange Gasket	010730	010730	010730	010730	010730	010730
13	Fuel Pump Gasket	012930	012930	012930	012930	012930	012930
14	* Fuel Pump Diaphragm	010531T	010531T	010531T	012698	012698	012698
15	Fuel Pump Body	010525	010525	010525	010525	010525	010525
16	Fuel Pump Body Screw & Lockwasher (6)	010098	010098	010098	010098	010098	010098
17	* Fuel Strainer Screen	010530	010530	010530	010530	010530	010530
18	Fuel Strainer Cover Gasket	010529	010529	010529	010529	010529	010529
19	Fuel Strainer Cover	010527	010527	010527	010527	010527	010527
20	* Fuel Strainer Cover Ret. Screw	010571	010571	010571	010571	010571	010571
21A	* Idle Mixture Screw	011498	011498	011716A	011498	011716A	011716A
21B	* Idle Mixture Screw Spring	08793	08793	08793	08793	08793	08793
21C	Idle Mixture Screw Washer	011428	011428	011428	011428	011428	011428
21D	Idle Mixture Screw Packing	011401	011401	011401	011401	011401	011401
23	* Idle Speed Screw	05095	05095	05095	05095	05095	05095
24	* Idle Speed Screw Spring	0788	0788	0788	0788	0788	0788
25	* Inlet Control Lever	010513	014020	010513	010513	010513	010513
26	* Inlet Control Lever Pin. Screw	010581	010581	010581	010581	010581	010581
27	* **INLET NEEDLE SEAT & GASKET**	010580	014035	012503	010580	010580	012503
28	Inlet Seat Gasket	010165	010165	010165	010165	010165	010165
29	* Inlet Tension Spring	010578	010578	010578	010578	010578	010578
30A	* High Speed Mixture Screw	011751	011751	011494A	011718	011494A	011494A
30B	* High Speed Mixture Screw Spring	08793	08793	08793	08793	08793	08793
30C	High Speed Mixture Screw Washer	011428	011428	011428	011428	011428	011428
30D	High Speed Mixture Screw Packing	011401	011401	011401	011401	011401	011401
C6	Throttle Lever	----	----	011218	----	----	011218
D13	* Throttle Lever Ret. Screw	----	----	06393	----	06393	06393
D16	* Throttle Lever Ret. Lockwasher	----	----	06396	----	06396	06396
A4	Throttle Shaft & Lever	012066	012066	011589	----	011589	011589
A13	Throttle Shaft & Lever	----	----	----	011060	----	----
32	Throttle Shaft Bushings (2)	----	----	09780	09780	09780	09780
33	Throttle Shaft Clip	09678	09678	09678	09678	09678	09678
34	Throttle Shaft Clip Lockwasher	0992	0992	0992	0992	0992	0992
35	Throttle Shaft Clip Ret. Screw	01974	01974	01974	01974	01974	01974
36	* Throttle Shaft Ret. Spring	010775	010775	010999	010775	010775	010775
37	Throttle Shutter	08646	08646	08646	08646	08646	08646
38	* Throttle Shutter Screw & Lockwasher	08942	08942	08942	08942	08942	08942
39	* **GASKET & PACKING SET**	GS-155	GS-155	GS-155	GS-155	GS-155	GS-155
40	**REPAIR PARTS KIT**	RK-440	RK-704	RK-484	RK-443	RK-419	RK-504

(*) Indicates contents of Repair Parts Kit

BASIC PARTS ILLUSTRATIONS: See front cover for illustrations corresponding to reference **numbers** in list below.

SPECIAL PARTS ILLUSTRATIONS: See pages 3, 4, 5 and 6 for illustrations corresponding to reference **letters** in list below.

Carburetor Model	Superseding Model	Engine Manuracturer
HL-95C		Tandsbyns Mekaniske Versted
HL-98A		Jonsereds Fabrikers Akt.
HL-99A		Dolmar Maschinenfabrik
HL-100A		Edsbyns Industri A/B
HL-102A	HL-112D	Andreas Stihl Maschinenfabrik
HL-110A		A/B Partner

Ref. No.	Part Name	HL-95C	HL-98A	HL-99A	HL-100A	HL-102A	HL-110A
1	Body (Service)	013042	012170	012197	012204	012234	012409
2	* Body Channel Cup Plug	----	010588	010588	----	010588	----
3	* Body Channel Welch Plug	02531	02531	02531	02531	02531	02531
4	Choke Friction Pin	05454	05454	05454	05454	----	05454
5	Choke Friction Spring	08805	08805	08805	08805	----	08805
B3	Choke Shaft	----	----	012289	----	----	----
A15	Choke Shaft & Lever	----	----	----	----	----	012135
A16	Choke Shaft & Lever	012604	----	----	----	----	----
A17	Choke Shaft & Lever	----	----	----	012203	----	----
A21	Choke Shaft & Lever	----	012169	----	----	----	----
A23	Choke Shaft & Lever	----	----	----	----	012747	----
D4	Choke Shutter	011883	011883	----	011883	----	011883
6	Choke Shutter	----	----	09626	----	09626	----
7	Choke Shutter Screw & Lockwasher	----	----	08942	----	010280	----
D19	Choke Spring Clip	----	----	----	----	012224	----
8	Diaphragm Chamber Drain Screw	02232	02232 (2)	02232	02232	02232	02232
9	Diaphragm Gasket	012473	012473	012473	012473	012473	012473
10	* Diaphragm	012475	012475	012475	012475	012475	012475
11	Diaphragm Cover	010526	010526	010526	010526	010526	010526
12	Flange Gasket	010730	010730	010730	010730	010730	010730
13	Fuel Pump Gasket	012930	012930	012930	012930	012930	012930
14	* Fuel Pump Diaphragm	012698	012698	010531T	012698	010531T	012698
15	Fuel Pump Body	010525	010525	010525	010525	010525	010525
16	Fuel Pump Body Screw & Lockwasher (6)	010098	010098	010098	010098	010098	010098
D17	Fuel Pump Body Screw Washer (2)	----	----	----	----	03804	----
17	* Fuel Strainer Screen	010530	010530	010530	010530	010530	010530
18	Fuel Strainer Cover Gasket	010529	010529	010529	010529	010529	010529
19	Fuel Strainer Cover	010527	010527	010527	010527	010527	010527
20	* Fuel Strainer Cover Ret. Screw	010571	010571	010571	010571	010571	010571
21A	* Idle Mixture Screw	011716A	011716A	011716A	011716A	011716A	011498
21B	* Idle Mixture Screw Spring	08793	08793	08793	08793	08793	08793
21C	Idle Mixture Screw Washer	011428	011428	011428	011428	011428	011428
D17	Idle Mixture Screw Washer (Thick)	----	----	----	----	04920	----
21D	Idle Mixture Screw Packing	011401	011401	011401	011401	011401	011401
23	* Idle Speed Screw	05095	05095	05095	05095	05095	05095
D22	Idle Speed Screw Cup	----	010050	----	----	----	----
24	* Idle Speed Screw Spring	0788	0788	0788	0788	0788	0788
25	* Inlet Control Lever	010513	010513	010513	010513	010513	010513
26	* Inlet Control Lever Pinion Screw	010581	010581	010581	010581	010581	010581
27	* **INLET NEEDLE SEAT & GASKET**	012503	012503	012339	010580	010580	012503
28	Inlet Seat Gasket	010165	010165	010165	010165	010165	010165
29	* Inlet Tension Spring	011503	010578	010578	011503	010578	011503
30A	* High Speed Mixture Screw	011494A	011494A	011494A	011494A	011494A	012225
30B	* High Speed Mixture Screw Spring	08793	08793	08793	08793	08793	08793
30C	High Speed Mixture Screw Washer	011428	011428	011428	011428	011428	011428
D17	High Speed Mixture Screw Washer (Thick)	----	----	----	----	04920	----
30D	High Speed Mixture Screw Packing	011401	011401	011401	011401	011401	011401
D18	Nozzle Check Valve	012084	----	----	012084	----	012084
C6	Throttle Lever	011218	----	----	011218	----	----
C8	Throttle Lever Asm	----	----	----	----	----	09307
C1	Throttle Lever	----	----	013340	----	----	----
D15	* Throttle Lever Lockwasher	----	----	----	----	----	08988
D13	* Throttle Lever Ret. Screw	06393	06393	06393	06393	06393	06393
D16	* Throttle Lever Ret. Lockwasher	06396	06396	06396	06396	06396	----
D17	* Throttle Lever Ret. Washer	----	----	----	----	----	03804
B2	Throttle Shaft	----	----	----	----	----	012223
A4	Throttle Shaft & Lever	011589	011589	011894	----	011888	----
A5	Throttle Shaft & Lever	----	----	----	011224	----	----
32	Throttle Shaft Bushings (2)	09780	09780	09780	09780	09780	----
33	Throttle Shaft Clip	09678	09678	09678	09678	09678	09678
34	Throttle Shaft Clip Lockwasher	0992	0992	0992	0992	0992	0992
35	Throttle Shaft Clip Ret. Screw	01974	01974	01974	01974	01974	01974
36	* Throttle Shaft Ret. Spring	010775	010775	010999	012244	010999	012244
37	Throttle Shutter	08646	08646	08646	011226	08646	012089
38	* Throttle Shutter Screw & Lockwasher	08942	08942	08942	08317	010280	08317
C2	Throttle Stop Lever	----	----	----	----	----	011240
D14	* Throttle Wire Ret. Screw	----	----	----	----	----	058
39	* **GASKET & PACKING SET**	GS-155	GS-155	GS-155	GS-155	GS-155	GS-155
40	**REPAIR PARTS KIT**	RK-567	RK-497	RK-476	RK-457	RK-418	RK-474

(*) Indicates Contents of Repair Parts Kit

TILLOTSON MANUFACTURING CO.
PARTS AND SERVICE DIVISION
TOLEDO, OHIO 43612

BASIC PARTS ILLUSTRATIONS: See front cover for illustrations corresponding to reference **numbers** in list below.

SPECIAL PARTS ILLUSTRATIONS: See pages 3, 4, 5 and 6 for illustrations corresponding to reference **letters** in list below.

Carburetor Model	Superseding Model	Engine Manufacturer
HL-111A		A/B Partner
HL-112A	HL-112D	Andreas Stihl Maschinenfabrik
HL-112B	HL-112D	Andreas Stihl Maschinenfabrik
HL-112C	HL-112D	Andreas Stihl Maschinenfabrik
HL-112D		Andreas Stihl Maschinenfabrik
HL-113A		Nymanbolagen AB

Ref. No.	Part Name	HL-111A	HL-112A	HL-112B	HL-112C	HL-112D	HL-113A
1	Body (Service)	012413	012749	012749	012887	014116	012432
2	* Body Channel Cup Plug	012347	----	----	012347	012347	010588
D20	Body Channel Screen	012344	----	----	012884	012884	----
D16	Body Channel Screen Ret. Ring	012345	----	----	012345	012345	----
3	* Body Channel Welch Plug	02531	02531	02531	02531	02531	02531
4	Choke Friction Pin	05454	----	----	----	----	05454
5	Choke Friction Spring	08805	----	----	----	----	08805
B1	Choke Shaft	012411	----	----	----	----	----
A21	Choke Shaft & Lever	----	----	----	----	----	012428
A23	Choke Shaft & Lever	----	012747	012747	012747	012747	----
33	Choke Shaft Clip	----	----	09678	09678	09678	----
34	Choke Shaft Clip Lockwasher	----	----	0992	0992	0992	----
35	Choke Shaft Clip Ret. Screw	----	----	01974	01974	01974	----
D4	Choke Shutter	011442	----	----	----	----	011883
6	Choke Shutter	----	09626	09626	09626	09626	----
7	Choke Shutter Screw & Lockwasher	----	010280	08942	08942	08942	----
D19	Choke Spring Clip	----	012224	012224	012224	012224	----
8	Diaphragm Chamber Drain Screw	02232	02232	02232	02232	02232	02232
9	Diaphragm Gasket	012473	012473	012473	012473	012473	012473
10	* Diaphragm	012475	012475	012475	012475	012475	012475
11	Diaphragm Cover	010526	010526	010526	010526	010526	010834
12	Flange Gasket	010730	010730	010730	010730	010730	010730
13	Fuel Pump Gasket	012930	012930	012930	012930	012930	012930
14	* Fuel Pump Diaphragm	012698	010531T	010531T	010531T	010531	012698
15	Fuel Pump Body	010525	010525	010525	010525	010525	010525
16	Fuel Pump Body Screw & Lockwasher (6)	010098	010098	010098	010098	010098	010098
D17	Fuel Pump Body Screw Washer (2)	----	03804	03804	07844	07884	----
17	* Fuel Strainer Screen	010530	010530	010530	010530	010530	010530
18	Fuel Strainer Cover Gasket	010529	010529	010529	010529	010529	010529
19	Fuel Strainer Cover	010527	010527	010527	010527	010527	010527
20	* Fuel Strainer Cover Ret. Screw	010571	010571	010571	010571	010571	010571
21A	* Idle Mixture Screw	011716	011716A	011716A	011716A	011716A	011498
21B	* Idle Mixture Screw Spring	08793	08793	08793	08793	08793	08793
21C	Idle Mixture Screw Washer	011428	011428	011428	011428	011428	011428
D17	Idle Mixture Screw Washer (Thick)	----	04920	04920	04920	04920	----
21D	Idle Mixture Screw Packing	011401	011401	011401	011401	011401	011401
D20	* Idle Air Bleed Screen	011493	----	----	----	----	----
23	* Idle Speed Screw	05095	05095	05095	05095	05095	05095
D22	Idle Speed Screw Cup	010050	----	----	----	----	----
24	* Idle Speed Screw Spring	0788	0788	0788	0788	0788	0788
25	* Inlet Control Lever	010513	010513	010513	010513	014020	010513
26	* Inlet Control Lever Pin. Screw	010581	010581	010581	010581	010581	010581
27	* **INLET NEEDLE SEAT & GASKET**	012503	012339	012339	012339	014035	010580
28	Inlet Seat Gasket	010165	010165	010165	010165	010165	010165
29	* Inlet Tension Spring	010578	013434	013434	013434	013434	010578
30A	* High Speed Mixture Screw	011494	011494A	011494A	011494A	011494A	011718
30B	* High Speed Mixture Screw Spring	08793	08793	08793	08793	08793	08793
30C	High Speed Mixture Screw Washer	011428	011428	011428	011428	011428	011428
D17	High Speed Mixture Screw Washer (Thick)	----	04920	04920	04920	04920	----
30D	High Speed Mixture Screw Packing	011401	011401	011401	011401	011401	011401
D18	Nozzle Check Valve	----	012084	012084	----	----	----
C7	Throttle Lever	----	----	----	----	----	08141
D13	* Throttle Lever Ret. Screw	----	06393	06393	06393	06393	06393
D16	* Throttle Lever Ret. Lockwasher	----	06396	06396	06396	06396	06396
A4	Throttle Shaft & Lever	012412	011888	011888	012886	012886	012430
32	Throttle Shaft Bushings (2)	09780	09780	09780	09780	09780	09780
33	Throttle Shaft Clip	09678	09678	09678	09678	09678	09678
34	Throttle Shaft Clip Lockwasher	0992	0992	0992	0992	0992	0992
35	Throttle Shaft Ret. Screw	01974	01974	01974	01974	01974	01974
36	* Throttle Shaft Ret. Spring	----	012244	012244	012244	012244	012244
37	Throttle Shutter	08646	08646	08646	012089	012089	08646
38	* Throttle Shutter Screw & Lockwasher	08942	010280	08942	08942	08942	08942
39	* **GASKET & PACKING SET**	GS-155	GS-155	GS-155	GS-155	GS-155	GS-155
40	**REPAIR PARTS KIT**	RK-487	RK-535	RK-535	RK-535	RK-705	RK-480

(*) Indicates contents of Repair Parts Kit

BASIC PARTS ILLUSTRATIONS: See front cover for illustrations corresponding to reference **numbers** in list below.

SPECIAL PARTS ILLUSTRATIONS: See pages 3, 4, 5 and 6 for illustrations corresponding to reference **letters** in list below.

Carburetor Model	Superseding Model	Engine Manufacturer
HL-121A	HL-121BX	Andreas Stihl Maschinenfabrik
HL-121B	HL-121BX	Andreas Stihl Maschinenfabrik
HL-121BX		Andreas Stihl Maschinenfabrik
HL-127A		Andreas Stihl Maschinenfabrik
HL-131A		Solo Kleinmotoren GMBH
HL-133A		Husqvarna Vapenfabriks Akt.

Ref. No.	Part Name	HL-121A	HL-121B	HL-121BX	HL-127A	HL-131A	HL-133A
1	Body (Service)	012953	012953	012953	012635	012724	012756
2	* Body Channel Cup Plug	010588	010588	012347	----	----	----
D20	Body Channel Screen	----	----	012884	----	----	----
D16	Body Channel Screen Ret. Ring	----	----	012345	----	----	----
3	* Body Channel Welch Plug	02531	02531	02531	02531	02531	02531
4	Choke Friction Pin	----	----	----	05454	05454	----
5	Choke Friction Spring	----	----	----	08805	08805	----
A15	Choke Shaft & Lever	----	----	----	012452	012717	----
A20	Choke Shaft & Lever	012743	012473	012743	----	----	012755
33	Choke Shaft Clip	----	09678	09678	----	----	----
34	Choke Shaft Clip Lockwasher	----	0992	0992	----	----	----
35	Choke Shaft Clip Ret. Screw	----	01974	01974	----	----	----
D4	Choke Shutter	----	----	----	----	011883	011883
6	Choke Shutter	09626	09626	09626	09195	----	----
7	Choke Shutter Screw & Lockwasher	010280	08942	08942	010280	----	----
8	Diaphragm Chamber Drain Screw	02232	02232	02232	02232	02232	02232
9	Diaphragm Gasket	012473	012473	012473	012473	012473	012473
10	* Diaphragm	012475	012475	012475	012475	012475	012475
11	Diaphragm Cover	010526	010526	010526	010526	012723	011904
12	Flange Gasket	010730	010730	010730	012354	010730	010730
13	Fuel Pump Gasket	012930	012930	012930	012930	012930	012930
14	* Fuel Pump Diaphragm	010531T	010531T	010531T	010531T	010531T	010531T
15	Fuel Pump Body	010525	010525	010525	010525	010525	011903
16	Fuel Pump Body Screw & Lockwasher (6)	010098	010098	010098	010098	010098	010098
D17	Fuel Pump Body Screw Washer	----	----	----	07844	----	----
17	* Fuel Strainer Screen	010530	010530	010530	010530	010530	010530
18	Fuel Strainer Cover Gasket	010529	010529	010529	010529	010529	010529
19	Fuel Strainer Cover	010527	010527	010527	010527	010527	010527
20	* Fuel Strainer Cover Ret. Screw	010571	010571	010571	010571	010571	010571
21A	* Idle Mixture Screw	011716A	011716A	011716A	011498	011716A	011716A
21B	* Idle Mixture Screw Spring	08793	08793	08793	08793	08793	08793
21C	Idle Mixture Screw Washer	011428	011428	011428	011428	011428	011428
D17	Idle Mixture Screw Washer (Thick)	04920	04920	04920	----	04920	----
21D	Idle Mixture Screw Packing	011401	011401	011401	011401	011401	011401
23	* Idle Speed Screw	05095	05095	05095	05095	05095	011908
24	* Idle Speed Screw Spring	0788	0788	0788	0788	0788	011103
25	* Inlet Control Lever	010513	010513	010513	013100	010513	010513
26	* Inlet Control Lever Pin. Screw	010581	010581	010581	010581	010581	010581
27	* **INLET NEEDLE SEAT & GASKET**	012339	012339	012339	012567	012503	010580
28	Inlet Seat Gasket	010165	010165	010165	012656	010165	010165
29	* Inlet Tension Spring	010578	010578	013434	011503	011503	011503
30A	* High Speed Mixture Screw	011494A	011494A	011494A	012454	011494A	011494A
30B	* High Speed Mixture Screw Spring	08793	08793	08793	08793	08793	08793
30C	High Speed Mixture Screw Washer	011428	011428	011428	011428	011428	011428
D17	High Speed Mixture Screw Washer (Thick)	04920	04920	04920	----	04920	----
30D	High Speed Mixture Screw Packing	011401	011401	011401	011401	011401	011401
D18	Nozzle Check Valve	----	----	----	012458	012084	012084
C7	Throttle Lever	012520	----	012520	----	----	----
C5	Throttle Lever Asm	----	04911	----	04911	----	----
D14	* Throttle Lever Clamp Screw	----	----	----	0240	----	----
D13	* Throttle Lever Ret. Screw	06393	06393	06393	----	----	----
D16	* Throttle Lever Ret. Lockwasher	06396	06396	06396	----	----	----
A4	Throttle Shaft & Lever	012524	012524	012524	012456	012719	----
A11	Throttle Shaft & Lever	----	----	----	----	----	012754
32	Throttle Shaft Bushings (2)	09780	09780	09780	----	09780	09780
33	Throttle Shaft Clip	09678	09678	09678	09678	09678	011907
34	Throttle Shaft Clip Lockwasher	0992	0992	0992	0992	0992	----
35	Throttle Shaft Clip Ret. Screw	01974	01974	01974	01974	01974	----
36	* Throttle Shaft Ret. Spring	012244	012244	012244	012244	010775	012244
37	Throttle Shutter	08646	08646	08646	012283	08646	012089
38	* Throttle Shutter Screw & Lockwasher	010280	08942	08942	08942	08942	08942
D14	* Throttle Wire Ret. Screw	----	----	----	058	----	----
39	* **GASKET & PACKING SET**	GS-155	GS-155	GS-155	GS-170	GS-155	GS-155
40	**REPAIR PARTS KIT**	RK-531	RK-531	RK-553	RK-511	RK-529	RK-533

(*) Indicates contents of Repair Parts Kit

BASIC PARTS ILLUSTRATIONS: See front cover for illustrations corresponding to reference **numbers** in list below.
SPECIAL PARTS ILLUSTRATIONS: See pages 3, 4, 5 and 6 for illustrations corresponding to reference **letters** in list below

Carburetor Model	Superseding Model	Engine Manufacturer
HL-136A		Auto-Koneistamo Oy
HL-143A		Husqvarna Vapenfabriks Akt.
HL-144A		Danarm Ltd.
HL-146A		Solo Kleinmotoren GMBH
HL-147A	HL-147B	Andreas Stihl Maschinenfabrik
HL-147B		Andreas Stihl Maschinenfabrik

Ref. No.	Part Name	HL-136A	HL-143A	HL-144A	HL-146A	HL-147A	HL-147B
1	Body (Service)	012776	012895	012908	012962	012969	012973
2	* Body Channel Cup Plug	----	----	010588	----	012347	012347
D20	Body Channel Screen	----	----	----	----	012884	012884
D16	Body Channel Screen Ret. Ring	----	----	----	----	012345	012345
3	* Body Channel Welch Plug	02531	02531	02531	02531	02531	02531
4	Choke Friction Pin	05454	05454	05454	05454	05454	05454
5	Choke Friction Spring	08805	08805	08805	08805	08805	08805
A15	Choke Shaft & Lever	011509	----	011878	----	----	----
A18	Choke Shaft & Lever	----	----	----	012960	----	----
A22	Choke Shaft & Lever	----	013794	----	----	----	----
A28	Choke Shaft & Lever	----	----	----	----	012967	012967
33	Choke Shaft Clip	----	----	----	----	09678	09678
34	Choke Shaft Clip Lockwasher	----	----	----	----	0992	0992
35	Choke Shaft Clip Ret. Screw	----	----	----	----	01974	01974
D4	Choke Shutter	011883	011883	011883	011883	----	----
6	Choke Shutter	----	----	----	----	09626	09626
7	Choke Shutter Screw & Lockwasher	----	----	----	----	08942	08942
8	Diaphragm Chamber Drain Screw	02232	02232	02232	02232	02232	02232
9	Diaphragm Gasket	012473	012473	012473	012473	012473	012473
10	* Diaphragm	012475	012475	012475	012475	012475	012475
11	Diaphragm Cover	010526	010526	010526	012961	010526	010526
12	Flange Gasket	010730	013384(3)	010730	010730	010730	010730
13	Fuel Pump Gasket	012930	012930	012930	012930	012930	012930
14	* Fuel Pump Diaphragm	010531T	010531T	010531T	010531T	010531T	010531T
15	Fuel Pump Body	010525	010525	010525	010525	010525	010525
16	Fuel Pump Body Screw & Lockwasher (6)	010098	010098	010098	010098	010098	010098
17	* Fuel Strainer Screen	010530	010530	010530	010530	010530	010530
18	Fuel Strainer Cover Gasket	010529	010529	010529	010529	010529	010529
19	Fuel Strainer Cover	010527	010527	010527	010527	010527	010527
20	* Fuel Strainer Cover Ret. Screw	010571	010571	010571	010571	010571	010571
21A	* Idle Mixture Screw	011716A	011498	011716	011716A	011716A	011716A
21B	* Idle Mixture Screw Spring	08793	08793	08793	08793	08793	08793
21C	Idle Mixture Screw Washer	011428	011428	011428	011428	011428	011428
D17	Idle Mixture Screw Washer (Thick)	----	----	----	04920	04920	04920
21D	Idle Mixture Screw Packing	011401	011401	011401	011401	011401	011401
23	* Idle Speed Screw	05095	011908	05095	05095	05095	05095
24	* Idle Speed Screw Spring	0788	011103	0788	0788	0788	0788
25	* Inlet Control Lever	010513	010513	010513	010513	010513	010513
26	* Inlet Control Lever Pin, Screw	010581	010581	010581	010581	010581	010581
27	* **INLET NEEDLE SEAT & GASKET**	012503	010580	010580	012503	012339	012339
28	Inlet Seat Gasket	010165	010165	010165	010165	010165	010165
29	* Inlet Tension Spring	011503	011503	010578	011503	013434	013434
30A	* High Speed Mixture Screw	011494A	012420	012904	011494A	011494A	011494A
30B	* High Speed Mixture Screw Spring	08793	08793	08793	08793	08793	08793
30C	High Speed Mixture Screw Washer	011428	011428	011428	011428	011428	011428
D17	High Speed Mixture Screw Washer (Thick)	----	04920	----	04920	04920	04920
30D	High Speed Mixture Screw Packing	011401	011401	011401	011401	011401	011401
D18	Nozzle Check Valve	012084	012084	----	012084	----	----
C6	Throttle Lever	011218	----	----	----	----	----
C7	Throttle Lever	----	----	012905	----	012520	012520
D13	* Throttle Lever Ret. Screw	06393	----	06393	----	06393	06393
D16	* Throttle Lever Ret. Lockwasher	06396	----	06396	----	06396	06396
A4	Throttle Shaft & Lever	011589	----	012907	012719	012524	012972
A17	Throttle Shaft & Lever	----	012893	----	----	----	----
32	Throttle Shaft Bushings (2)	09780	09780	----	09780	09780	09780
33	Throttle Shaft Clip	09678	011907	09678	09678	09678	09678
34	Throttle Shaft Clip Lockwasher	0992	----	0992	0992	0992	0992
35	Throttle Shaft Clip Ret. Screw	01974	----	01974	01974	01974	01974
36	* Throttle Shaft Ret. Spring	012244	012244	010775	012244	012244	012244
37	Throttle Shutter	08646	08646	08646	08646	08646	012089
38	* Throttle Shutter Screw & Lockwasher	08942	08942	08942	08942	08942	08942
39	* **GASKET & PACKING SET**	GS-155	GS-178	GS-155	GS-155	GS-155	GS-155
40	**REPAIR PARTS KIT**	RK-540	RK-552	RK-550	RK-565	RK-553	RK-553

(*) Indicates contents of Repair Parts Kit

BASIC PARTS ILLUSTRATIONS: See front cover for illustrations corresponding to reference **numbers** in list below.

SPECIAL PARTS ILLUSTRATIONS: See pages 3, 4, 5 and 6 for illustrations corresponding to reference **letters** in list below.

Carburetor Model	Superseding Model	Engine Manufacturer
HL-148A		Air Cooled Industrial Engines Pty. Ltd.
HL-149A		Air Cooled Industrial Engines Pty. Ltd.
HL-154A		Solo Kleinmotoren GMBH
HL-155A	HL-155B.	Andreas Stihl Maschinenfabrik
HL-155B		Andreas Stihl Maschinenfabrik
HL-157A		Kyoritsu-Noki
HL-162A		Osby Pumpindustri

Ref. No.	Part Name	HL-148A	HL-149A	HL-154A	HL-155A	HL-155B	HL-157A	HL-162A
1	Body (Service)	013010	013011	013049	013101	014036	013126	013204
2	*Body Channel Cup Plug	----	----	010588	012347	012347	----	----
D20	Body Channel Screen	----	----	----	012884	012884	----	----
D16	Body Channel Screen Ret. Ring	----	----	----	012345	012345	----	----
3	*Body Channel Welch Plug	02531	02531	02531	02531	02531	02531	02531
4	Choke Friction Pin	05454	05454	05454	----	----	05454	05454
5	Choke Friction Spring	08805	08805	08805	----	----	08805	08805
A15	Choke Shaft & Lever	----	012135	013048	----	----	013125	----
A18	Choke Shaft & Lever	012065	----	----	----	----	----	----
A20	Choke Shaft & Lever	----	----	----	012743	012743	----	----
A21	Choke Shaft & Lever	----	----	----	----	----	----	013199
33	Choke Shaft Clip	----	----	----	09678	09678	----	----
34	Choke Shaft Clip Lockwasher	----	----	----	0992	0992	----	----
35	Choke Shaft Clip Ret. Screw	----	----	----	01974	01974	----	----
D4	Choke Shutter	011883	011883	011883	----	----	011883	----
6	Choke Shutter	----	----	----	09626	09626	----	09195
7	Choke Shutter Screw & Lockwasher	----	----	----	08942	08942	----	08942(2)
D9	Choke Wire Connection	----	----	----	----	----	----	012406
D10	Choke Wire Conn. Ret. Clip	----	----	----	----	----	----	010392
D14	Choke Wire Ret. Screw	----	----	----	----	----	----	058
8	Diaphragm Chamber Drain Screw	02232	02232	02232	02232	02232	02232	02232
9	Diaphragm Gasket	012473	012473	012473	012473	012473	012473	012473
10	*Diaphragm	012475	012475	012475	012475	012475	012475	012475
11	Diaphragm Cover	010526	012159	010526	010526	010526	010526	010834
12	Flange Gasket	010730	010730	010730	010730	010730	010730	012354
13	Fuel Pump Gasket	012930	012930	012930	012930	012930	012930	012930
14	*Fuel Pump Diaphragm	012698	012698	010531T	010531T	010531T	012698	012698
15	Fuel Pump Body	010525	010525	010525	010525	010525	010525	010525
16	Fuel Pump Body Screw & Lockwasher (6)	010098	010098	010098	010098	010098	010098	010098
D17	Fuel Pump Body Screw Washer	----	----	----	----	----	----	07844
17	*Fuel Strainer Screen	010530	010530	010530	010530	010530	010530	010530
18	Fuel Strainer Cover Gasket	010529	010529	010529	010529	010529	010529	010529
19	Fuel Strainer Cover	010527	010527	010527	010527	010527	010527	010527
20	*Fuel Strainer Cover Ret. Screw	010571	010571	010571	010571	010571	010571	010571
21A	*Idle Mixture Screw	011498	011498	011716A	011716A	011716A	011716	011498
21B	*Idle Mixture Screw Spring	08793	08793	08793	08793	08793	08793	08793
21C	Idle Mixture Screw Washer	011428	011428	011428	011428	011428	011428	011428
D17	Idle Mixture Screw Washer (Thick)	----	----	04920	04920	04920	----	----
21D	Idle Mixture Screw Packing	011401	011401	011401	011401	011401	011401	011401
23	*Idle Speed Screw	05095	05095	05095	05095	05095	05095	05095
24	*Idle Speed Screw Spring	0788	0788	0788	0788	0788	0788	0788
25	*Inlet Control Lever	010513	010513	010513	010513	014020	010513	010513
26	*Inlet Control Lever Pinion Screw	010581	010581	010581	010581	010581	010581	010581
27	***INLET NEEDLE SEAT & GASKET**	010580	010580	012503	012339	014035	010580	012655
28	Inlet Seat Gasket	010165	010165	010165	010165	010165	010165	012656
29	*Inlet Tension Spring	011503	011503	010578	013434	013434	011503	011503
30A	*High Speed Mixture Screw	012225	012225	011494A	011494A	011494A	011494	013195
30B	*High Speed Mixture Screw Spring	08793	08793	08793	08793	08793	08793	08793
30C	High Speed Mixture Screw Washer	011428	011428	011428	011428	011428	011428	011428
D17	High Speed Mixture Screw Washer (Thick)	----	----	04920	04920	04920	----	----
30D	High Speed Mixture Screw Packing	011401	011401	011401	011401	011401	011401	011401
D18	Nozzle Check Valve	012084	012084	----	----	----	012084	012458
C9	Throttle Lever Assembly	----	----	----	----	----	012148	----
C7	Throttle Lever	----	----	011809	012520	012520	----	----
D16	*Throttle Lever Ret. Lockwasher	----	----	06396	06396	06396	----	06396
D11	Throttle Lever Ret. Nut	----	----	----	----	----	011755	----
D13	*Throttle Lever Ret. Screw	----	----	06393	06393	06393	----	06393
D14	*Throttle Lever Ret. Screw & Lockwasher	----	----	----	----	----	012145	----
D17	*Throttle Lever Ret. Washer	----	----	----	----	----	07844	----
A4	Throttle Shaft & Lever	012066	011474	013047	012972	012972	010779	----
A21	Throttle Shaft & Lever	----	----	----	----	----	----	013202
32	Throttle Shaft Bushings (2)	----	----	09780	09780	09780	09780	----
33	Throttle Shaft Clip	09678	09678	09678	09678	09678	09678	09678
34	Throttle Shaft Clip Lockwasher	0992	0992	0992	0992	0992	0992	0992
35	Throttle Shaft Clip Ret. Screw	01974	01974	01974	01974	01974	01974	01974
36	*Throttle Shaft Return Spring	012244	012244	012244	012244	012244	010775	010775
37	Throttle Shutter	08646	08646	012089	012089	012089	08646	012283
38	*Throttle Shutter Screw & Lockwasher	08942	08942	08942	08942	08942	08942	08942(2)
C3	Throttle Stop Lever	----	----	----	----	----	----	010783
D9	Throttle Wire Connection	----	----	----	----	----	----	012406
D10	Throttle Wire Connection Ret. Clip	----	----	----	----	----	----	010392
D14	*Throttle Wire Ret. Screw	----	----	----	----	----	----	058
39	***GASKET & PACKING SET**	GS-155	GS-155	GS-155	GS-155	GS-155	GS-155	GS-170
40	**REPAIR PARTS KIT**	RK-561	RK-561	RK-475	RK-553	RK-716	RK-574	RK-585

(*) Indicates contents of REPAIR PARTS KIT

BASIC PARTS ILLUSTRATIONS: See front cover for illustrations corresponding to reference **numbers** in list below.

SPECIAL PARTS ILLUSTRATIONS: See pages 3, 4, 5 and 6 for illustrations corresponding to reference **letters** in list below.

Carburetor Model	Superseding Model	Engine Manufacturer
HL-163A		A/B Partner
HL-165A		Jonsereds Fabrikers Akt.
HL-166A	HL-166B	Andreas Stihl Maschinenfabrik
HL-166B		Andreas Stihl Maschinenfabrik
HL-168A		A/B Partner
HL-170A		Rotax-Werk

Ref. No.	Part Name	HL-163A	HL-165A	HL-166A	HL-166B	HL-168A	HL-170A
1	Body (Service)	013256	013277	013285	014110	013331	013354
2	* Body Channel Cup Plug	012347	----	----	----	----	----
D20	Body Channel Screen	012344	----	----	----	----	----
D16	Body Channel Screen Ret. Ring	012345	----	----	----	----	----
3	* Body Channel Welch Plug	02531	02531	02531	02531	02531	02531
4	Choke Friction Pin	05454	05454	----	----	05454	05454
5	Choke Friction Spring	08805	08805	----	----	08805	08805
D16	Choke Lever Ret. Lockwasher	----	----	06396	06396	----	----
D13	Choke Lever Ret. Screw	----	----	06393	06393	----	----
B1	Choke Shaft	012411	----	----	----	----	----
B2	Choke Shaft	----	----	013279	013279	----	----
A15	Choke Shaft & Lever	----	----	----	----	----	013164
A17	Choke Shaft & Lever	----	----	----	----	013323	----
A18	Choke Shaft & Lever	----	013273	----	----	----	----
33	Choke Shaft Clip	----	----	09678	09678	----	----
34	Choke Shaft Clip Lockwasher	----	----	0992	0992	----	----
35	Choke Shaft Clip Ret. Screw	----	----	01974	01974	----	----
D4	Choke Shutter	012489	011883	----	----	011883	----
6	Choke Shutter	----	----	09626	09626	----	013163
7	Choke Shutter Screw & Lockwasher	----	----	08942	08942	----	08942
8	Diaphragm Chamber Drain Screw	02232	02232	02232	02232	02232	02232
9	Diaphragm Gasket	012473	012473	012473	012473	012473	012473
10	* Diaphragm	012475	012475	012475	012475	012475	012475
11	Diaphragm Cover	012476	010526	010526	010526	013329	010526
12	Flange Gasket	010730	010730	010730	010730	010730	012345
13	Fuel Pump Gasket	012930	012930	012930	012930	012930	012930
14	* Fuel Pump Diaphragm	010531	010531T	010531T	010531T	012698	010531T
15	Fuel Pump Body	010525	010525	010525	010525	010525	010525
D17	Fuel Pump Body Screw Washer	----	----	----	----	----	07844
16	Fuel Pump Body Screw & Lockwasher (6)	010098	010098	010098	010098	010098	010098
17	* Fuel Strainer Screen	010530	010530	010530	010530	010530	010530
18	Fuel Strainer Cover Gasket	010529	010529	010529	010529	010529	010529
19	Fuel Strainer Cover	010527	010527	010527	010527	010527	010527
20	* Fuel Strainer Cover Ret. Screw	010571	010571	010571	010571	010571	010571
21A	* Idle Mixture Screw	011716	011498	011498	011498	011498	011498
21B	* Idle Mixture Screw Spring	08793	08793	08793	08793	08793	08793
21C	Idle Mixture Screw Washer	011428	011428	011428	011428	011428	011428
21D	Idle Mixture Screw Packing	011401	011401	011401	011401	011401	011401
23	* Idle Speed Screw	05095	05095	05095	05095	011908	05095
D22	Idle Speed Screw Cup	010050	010050	----	----	----	----
24	* Idle Speeed Screw Spring	0788	0788	0788	0788	011103	0788
25	* Inlet Control Lever	010513	010513	010513	014020	010513	010513
26	* Inlet Control Lever Pinion Screw	010581	010581	010581	010581	010581	010581
27	* **INLET NEEDLE SEAT & GASKET**	012503	013565	012339	014035	012503	012655
28	Inlet Seat Gasket	010165	010165	010165	010165	010165	012656
29	* Inlet Tension Spring	010578	011503	013434	013434	011503	011503
30A	* High Speed Mixture Screw	011494	012420	012420	012420	012420	012225
30B	* High Speed Mixture Screw Spring	08793	08793	08793	08793	08793	08793
30C	High Speed Mixture Screw Washer	011428	011428	011428	011428	011428	011428
D17	High Speed Mixture Screw Washer (Thick)	----	----	04920	04920	----	----
30D	High Speed Mixture Screw Packing	011401	011401	011401	011401	011401	011401
D18	Nozzle Check Valve	----	012084	012084	012084	012084	012084
C6	Throttle Lever	----	011218	013282	013282	----	----
C9	Throttle Lever Assembly	----	----	----	----	----	013394
D16	* Throttle Lever Ret. Lockwasher	----	06396	06396	06396	----	----
D11	Throttle Lever Ret. Nut	----	----	----	----	----	011755
D13	* Throttle Lever Ret. Screw	----	06393	06393	06393	----	----
D14	* Throttle Lever Ret. Screw & Lockwasher	----	----	----	----	----	012145
D17	* Throttle Lever Ret. Washer	----	----	----	----	----	07844
A1	Throttle Shaft & Lever	----	----	----	----	013326	----
A4	Throttle Shaft & Lever	012412	013275	013283	013283	----	013165
32	Throttle Shaft Bushings (2)	09780	09780	----	----	----	----
33	Throttle Shaft Clip	09678	09678	09678	09678	011907	09678
34	Throttle Shaft Clip Lockwasher	0992	0992	0992	0992	----	0992
35	Throttle Shaft Clip Ret. Screw	01974	01974	01974	01974	----	01974
36	* Throttle Shaft Return Spring	----	010775	010775	010775	----	010775
37	Throttle Shutter	08646	08646	013999	013399	08646	013160
38	* Throttle Shutter Screw & Lockwasher	08942	08942	08942	08942	08942	08942
39	* **GASKET & PACKING SET**	GS-155	GS-155	GS-155	GS-155	GS-155	GS-170
40	**REPAIR PARTS KIT**	RK-581	RK-583	RK-584	RK-707	RK-593	RK-648

(*) Indicates contents of Repair Parts Kit

BASIC PARTS ILLUSTRATIONS: See front cover for illustrations corresponding to reference **numbers** in list below.

SPECIAL PARTS ILLUSTRATIONS: See pages 3, 4, 5 and 6 for illustrations corresponding to reference **letters** in list below.

Carburetor Model	Superseding Model	Engine Manufacturer
HL-171A		Lahden Vaaka Oy
HL-172A	HL-172B	Danarm Ltd.
HL-172B		Danarm Ltd.
HL-175A		Dolmar Maschinenfabrik
HL-176A		Dolmar Maschinenfabrik
HL-177A		Andreas Stihl Maschinenfabrik

Ref. No.	Part Name	HL-171A	HL-172A	HL-172B	HL-175A	HL-176A	HL-177A
1	Body (Service)	013366	013392	014087	013426	013432	013436
2	* Body Channel Cup Plug	----	012347	012347	012347	012347	012347
D20	Body Channel Screen	----	012884	012884	012884	012884	012884
D16	Body Channel Screen Ret. Ring	----	012345	012345	012345	012345	012345
3	* Body Channel Welch Plug	02531	02531	02531	02531	02531	02531
4	Choke Friction Pin	05454	05454	05454	05454	05454	----
5	Choke Friction Spring	08805	08805	08805	08805	08805	----
B3	Choke Shaft	----	----	----	013415	013415	----
A11	Choke Shaft & Lever	013364	----	----	----	----	----
A15	Choke Shaft & Lever	----	011878	011878	----	----	----
D4	Choke Shutter	011883	011883	011883	011883	011883	----
8	Diaphragm Chamber Drain Screw	02232	02232	02232	02232	02232	02232
9	Diaphragm Gasket	012473	012473	012473	012473	012473	012473
10	* Diaphragm	012475	012475	012475	012475	012475	012475
11	Diaphragm Cover	010526	010526	010526	010526	010526	013228
12	Flange Gasket	010730	010730	010730	010730	010730	012354
13	Fuel Pump Gasket	012930	012930	012930	012930	012930	012930
14	* Fuel Pump Diaphragm	012698	010531T	010531T	010531T	010531T	010531T
15	Fuel Pump Body	010525	010525	010525	010525	010525	013335
16	Fuel Pump Body Screw & Lockwasher (6)	010098	010098	010098	010098	010098	010098
17	* Fuel Strainer Screen	010530	010530	010530	010530	010530	010530
18	Fuel Strainer Cover Gasket	010529	010529	010529	010529	010529	010529
19	Fuel Strainer Cover	010527	010527	010527	010527	010527	010527
20	* Fuel Strainer Cover Ret. Screw	010571	010571	010571	010571	010571	010571
21A	* Idle Mixture Screw	011716	011716	011716	011716A	011716A	011498
21B	* Idle Mixture Screw Spring	08793	08793	08793	08793	08793	08793
21C	Idle Mixture Screw Washer	011428	011428	011428	011428	011428	011428
21D	Idle Mixture Screw Packing	011401	011401	011401	011401	011401	011401
23	* Idle Speed Screw	05095	05095	05095	05095	05095	05095
24	* Idle Speed Screw Spring	0788	0788	0788	0788	0788	0788
25	* Inlet Control Lever	010513	010513	014020	010513	010513	013100
26	* Inlet Control Lever Pinion Screw	010581	010581	010581	010581	010581	010581
27	* **INLET NEEDLE SEAT & GASKET**	010580	010580	014035	012339	012339	012567
28	Inlet Seat Gasket	010165	010165	010165	010165	010165	012656
29	* Inlet Tension Spring	011503	011503	011503	011503	011503	013434
30A	* High Speed Mixture Screw	011494	011494	011494	011494A	011494A	012225
30B	* High Speed Mixture Screw Spring	08793	08793	08793	08793	08793	08793
30C	High Speed Mixture Screw Washer	011428	011428	011428	011428	011428	011428
30D	High Speed Mixture Screw Packing	011401	011401	011401	011401	011401	011401
D18	Nozzle Check Valve	012084	----	----	----	----	----
C1	Throttle Lever	----	----	----	013340	013340	----
C7	Throttle Lever	----	012905	012905	----	----	----
C5	Throttle Lever Assembly	----	----	----	----	----	04911
D16	* Throttle Lever Ret. Lockwasher	06396	06396	06396	06396	06396	----
D13	* Throttle Lever Ret. Screw	06393	06393	06393	06393	06393	----
D14	Throttle Lever Ret. Screw	----	----	----	----	----	0240
A2	Throttle Shaft & Lever	013363	----	----	----	----	----
A4	Throttle Shaft & Lever	----	013391	013391	013047	013047	----
A13	Throttle Shaft & Lever	----	----	----	----	----	013435
32	Throttle Shaft Bushing (2)	09780	----	----	09780	09780	----
33	Throttle Shaft Clip	09678	09678	09678	09678	09678	09678
34	Throttle Shaft Clip Lockwasher	0992	0992	0992	0992	0992	0992
35	Throttle Shaft Clip Ret. Screw	01974	01974	01974	01974	01974	01974
36	* Throttle Shaft Return Spring	011580	010775	010775	012244	012244	012244
37	Throttle Shutter	08646	012089	012089	012089	012089	012283
38	* Throttle Shutter Screw & Lockwasher	08942	08942	08942	08942	08942	08942
C2	Throttle Stop Lever	011240	----	----	----	----	----
D14	* Throttle Wire Ret. Screw	----	----	----	----	----	058
39	* **GASKET & PACKING SET**	GS-155	GS-155	GS-155	GS-155	GS-155	GS-170
40	**REPAIR PARTS KIT**	RK-607	RK-606	RK-706	RK-608	RK-608	RK-613

(*) Indicates contents of Repair Parts Kit

TILLOTSON MANUFACTURING CO.
PARTS AND SERVICE DIVISION
TOLEDO, OHIO 43612

BASIC PARTS ILLUSTRATIONS: See front cover for illustrations corresponding to reference **numbers** in list below.

SPECIAL PARTS ILLUSTRATIONS: See pages 3, 4, 5 and 6 for illustrations corresponding to reference **letters** in list below.

Carburetor Model	Superseding Model	Engine Manufacturer
HL-179A	HL-224A	Fichtel & Sachs
HL-185A		Solo Kleinmotoren GMBH
HL-185B		Solo Kleinmotoren GMBH
HL-185C		Solo Kleinmotoren GMBH
HL-188A		Rotax-Werk
HL-188AV		Valmet Oy
HL-191A		Husqvarna Vapenfabriks Akt.

Ref. No.	Part Name	HL-179A	HL-185A	HL-185B	HL-185C	HL-188A	HL-188AV	HL-191A
1	Body (Service)	013488	013588	013768	014265	013614	013963	013632
2	*Body Channel Cup Plug	----	012347	012347	012347	----	----	----
D12	Body Channel Plug Screw	----	----	----	----	----	----	01102
D20	Body Channel Screen	----	012884	012884	012884	----	----	----
D16	Body Channel Screen Ret. Ring	----	012345	012345	012345	----	----	----
3	*Body Channel Welch Plug	02531	02531	02531	02531	02531	02531	02531
D27	Choke Friction Ball	----	----	----	----	04784	04784	----
4	Choke Friction Pin	05454	05454	05454	05454	----	----	----
5	Choke Friction Spring	08805	08805	08805	08805	08805	08805	----
A15	Choke Shaft & Lever	013164	----	----	----	----	----	----
A18	Choke Shaft & Lever	----	013586	013586	013586	----	----	----
A20	Choke Shaft & Lever	----	----	----	----	----	----	012755
A32	Choke Shaft & Lever	----	----	----	----	013540	013540	----
D4	Choke Shutter	----	011883	011883	011883	----	----	011883
6	Choke Shutter	013163	----	----	----	013547	013547	----
7	Choke Shutter Screw & Lockwasher	08942	----	----	----	08942	08942	----
8	Diaphragm Chamber Drain Screw	02232	02232	02232	02232	----	----	02232
9	Diaphragm Gasket	012473	012473	012473	012473	012473	012473	012473
10	*Diaphragm	012475	012475	012475	012475	012475	012475	012475
11	Diaphragm Cover	010526	013582	013766	014264	013549	013962	011904
12	Flange Gasket	012354	010730	010730	010730	012354	012354	010730
	Flange Insulator	013404	----	----	----	----	----	----
D17	Flange Insulator Washer	013405	----	----	----	----	----	----
13	Fuel Pump Gasket	012930	012930	012930	012930	012930	012930	012930
14	*Fuel Pump Diaphragm	012698	010531T	010531T	010531T	010531T	012698	010531T
15	Fuel Pump Body	010525	010525	010525	010525	013335	013335	011903
16	Fuel Pump Body Screw & Lockwasher (6)	010098	010098	010098	010098	010098	010098	010098
D17	Fuel Pump Body Screw Washer	07844	----	----	----	----	----	----
17	*Fuel Strainer Screen	010530	010530	010530	010530	010530	010530	010530
18	Fuel Strainer Cover Gasket	010529	010529	010529	010529	010529	010529	010529
19	Fuel Strainer Cover	010527	010527	010527	010527	010527	010527	010527
20	*Fuel Strainer Cover Ret. Screw	010571	010571	010571	010571	010571	010571	010571
21A	*Idle Mixture Screw	011498	011498	011498	011498	011498	011498	011716A
21B	*Idle Mixture Screw Spring	08793	08793	08793	08793	08793	08793	08793
21C	Idle Mixture Screw Washer	011428	011428	011428	011428	011428	011428	011428
21D	Idle Mixture Screw Packing	011401	011401	011401	011401	011401	011401	011401
23	*Idle Speed Screw	05095	05095	05095	05095	05095	05095	011908
24	*Idle Speed Screw Spring	0788	0788	0788	0788	0788	0788	011103
25	*Inlet Control Lever	010513	010513	010513	010513	010513	014020	010513
D26	*Inlet Control Lever Fulcrum Pin	----	----	----	----	013406	013406	----
D13	*Inlet Control Lever Fulcrum Pin Ret. Screw	----	----	----	----	013269	013269	----
26	*Inlet Control Lever Pinion Screw	010581	010581	010581	010581	----	----	010581
27	***INLET NEEDLE SEAT & GASKET**	012655	012503	012503	012503	013546	014053	010580
28	Inlet Seat Gasket	012656	010165	010165	010165	010165	010165	010165
29	*Inlet Tension Spring	011503	011503	011503	011503	011503	011503	011503
30A	*High Speed Mixture Screw	012454	011718	011718	011718	012225	012225	----
30B	*High Speed Mixture Screw Spring	08793	08793	08793	08793	08793	08793	----
30C	High Speed Mixture Screw Washer	011428	011428	011428	011428	011428	011428	----
30D	High Speed Mixture Screw Packing	011401	011401	011401	011401	011401	011401	----
D24	*Main Fuel Jet (.031)	----	----	----	----	----	----	013979
D17	Main Fuel Jet Gasket	----	----	----	----	----	----	06076
D18	Nozzle Check Valve	012458	----	----	----	012084	012084	012084
C5	Throttle Lever Assembly	----	----	----	----	----	04911	----
C9	Throttle Lever Assembly	012148	----	----	----	013394	----	----
D11	Throttle Lever Ret. Nut	011755	----	----	----	011755	----	----
D14	*Throttle Lever Ret. Screw & Lockwasher	012145	----	----	----	012145	0240	----
D17	*Throttle Lever Ret. Washer	07844	----	----	----	07844	----	----
A4	Throttle Shaft & Lever	013165	011623	011623	011623	013543	013543	----
A11	Throttle Shaft & Lever	----	----	----	----	----	----	012754
32	Throttle Shaft Bushings (3)	----	09780	09780	09780	----	----	09780
33	Throttle Shaft Clip	09678	09678	09678	09678	09678	09678	011907
34	Throttle Shaft Clip Lockwasher	0992	0992	0992	0992	0992	0992	----
35	Throttle Shaft Clip Ret. Screw	01974	01974	01974	01974	01974	01974	----
36	*Throttle Shaft Return Spring	010775	012244	012244	012244	013541	013541	012244
37	Throttle Shutter	013160	08646	08646	08646	013534	013534	012089
38	*Throttle Shutter Screw & Lockwasher	08942	08942	08942	08942	08942	08942	08942
D14	*Throttle Wire Retaining Screw	----	----	----	----	----	058	----
39	***GASKET & PACKING SET**	GS-170	GS-155	GS-155	GS-155	GS-158	GS-158	GS-182
40	**REPAIR PARTS KIT**	RK-616	RK-626	RK-626	RK-626	RK-621	RK-684	RK-636

(*) Indicates contents of REPAIR PARTS KIT

BASIC PARTS ILLUSTRATIONS: See front cover for illustrations corresponding to reference **numbers** in list below.
SPECIAL PARTS ILLUSTRATIONS: See pages 3, 4, 5 and 6 for illustrations corresponding to reference **letters** in list below.

Carburetor Model	Superseding Model	Engine Manufacturer
HL-196A		Veneer & Woodworkers
HL-199A		Meccanica Garelli
HL-205A	HL-205B	Landoni
HL-205B		Landoni
HL-206A		Landoni
HL-215A		Makai

Ref. No.	Part Name	HL-196A	HL-199A	HL-205A	HL-205B	HL-206A	HL-215A
1	Body (Service)	013804	013842	013973	014412	013977	014026
2	*Body Channel Cup Plug	----	012347	012347	012347	012347	012347
D20	Body Channel Screen	----	012884	012884	012884	012884	012884
D16	Body Channel Screen Ret. Ring	----	012345	012345	012345	012345	012345
3	*Body Channel Welch Plug	02531	02531	02531	02531	02531	02531
4	Choke Friction Pin	05454	05454	05454	05454	05454	05454
5	Choke Friction Spring	08805	08805	08805	08805	08805	08805
D13	Choke Lever Ret. Screw	----	06393	----	----	----	----
D16	Choke Lever Ret. Lockwasher	----	06396	----	----	----	----
B7	Choke Shaft	----	013840	----	----	----	----
A15	Choke Shaft & Lever	012135	----	----	----	----	011509
A17	Choke Shaft & Lever	----	----	013971	013971	013971	----
D4	Choke Shutter	011883	011883	011883	011883	011883	011883
8	Diaphragm Chamber Drain Screw	02232	02232	02232	02232	02232	02232
9	Diaphragm Gasket	012473	012473	012473	012473	012473	012473
10	*Diaphragm	012475	012475	012475	012475	012475	012475
11	Diaphragm Cover	012158	010526	010526	010526	010526	010526
12	Flange Gasket	010730	010730	010730	010730	010730	010730
13	Fuel Pump Gasket	012930	012930	012930	012930	012930	012930
14	*Fuel Pump Diaphragm	012698	012698	010531T	010531T	010531T	010531T
15	Fuel Pump Body	010525	010525	010525	010525	010525	010525
16	Fuel Pump Body Screw & Lockwasher (6)	010098	010098	010098	010098	010098	010098
17	*Fuel Strainer Screen	010530	010530	010530	010530	010530	010530
18	Fuel Strainer Cover Gasket	010529	010529	010529	010529	010529	010529
19	Fuel Strainer Cover	010527	010527	010527	010527	010527	010527
20	*Fuel Strainer Cover Ret. Screw	010571	010571	010571	010571	010571	010571
21A	*Idle Mixture Screw	011498	011498	011498	011498	011498	011716
21B	*Idle Mixture Screw Spring	08793	08793	08793	08793	08793	08793
21C	Idle Mixture Screw Washer	011428	011428	011428	011428	011428	011428
21D	Idle Mixture Screw Packing	011401	011401	011401	011401	011401	011401
23	*Idle Speed Screw	05095	05095	05095	05095	05095	05095
24	*Idle Speed Screw Spring	0788	0788	0788	0788	0788	0788
25	*Inlet Control Lever	010513	010513	010513	014020	010513	010513
26	*Inlet Control Lever Pinion Screw	010581	010581	010581	010581	010581	010581
27	***INLET NEEDLE SEAT & GASKET**	010580	010580	013565	014035	013565	012339
28	Inlet Seat Gasket	010165	010165	010165	010165	010165	010165
29	*Inlet Tension Spring	011503	011503	011503	011503	011503	010578
30A	*High Speed Mixture Screw	012225	011718	011718	011718	011718	011494
30B	*High Speed Mixture Screw Spring	08793	08793	08793	08793	08793	08793
30C	High Speed Mixture Screw Washer	011428	011428	011428	011428	011428	011428
30D	High Speed Mixture Screw Packing	011401	011401	011401	011401	011401	011401
D18	Nozzle Check Valve	012084	----	----	----	----	----
C6	Throttle Lever	----	----	----	----	----	011218
C9	Throttle Lever	----	012148	----	----	----	----
D16	*Throttle Lever Ret. Lockwasher	----	----	----	----	----	06396
D11	*Throttle Lever Ret. Nut	----	011755	----	----	----	----
D13	*Throttle Lever Ret. Screw	----	----	----	----	----	06393
D14	*Throttle Lever Ret. Screw & Lockwasher	----	012145	----	----	----	----
D17	Throttle Lever Ret. Washer	----	07844	----	----	----	----
A4	Throttle Shaft & Lever	011474	010779	011623	011623	013975	----
A5	Throttle Shaft & Lever	----	----	----	----	----	011224
32	Throttle Shaft Bushings (2)	----	09780	09780	09780	09780	09780
33	Throttle Shaft Clip	09678	09678	09678	09678	09678	09678
34	Throttle Shaft Clip Lockwasher	0992	0992	0992	0992	0992	0992
35	Throttle Shaft Clip Ret. Screw	01974	01974	01974	01974	01974	01974
36	*Throttle Shaft Return Spring	012244	010775	012244	012244	012244	----
E3	*Throttle Shaft Return Spring	----	----	----	----	----	011267
37	Throttle Shutter	08646	08646	08646	08646	012089	011226
38	*Throttle Shutter Screw & Lockwasher	08942	08942	08942	08942	08942	0120
39	***GASKET & PACKING SET**	GS-155	GS-155	GS-155	GS-155	GS-155	GS-155
40	**REPAIR PARTS KIT**	RK-561	RK-657	RK-679	RK-759	RK-679	RK-726

(*) Indicates contents of REPAIR PARTS KIT

TILLOTSON MANUFACTURING CO.
PARTS AND SERVICE DIVISION
TOLEDO, OHIO 43612

BASIC PARTS ILLUSTRATIONS: See front cover for illustrations corresponding to reference **numbers** in list below.
SPECIAL PARTS ILLUSTRATIONS: See pages 3, 4, 5 and 6 for illustrations corresponding to reference **letters** in list below.

Carburetor Model	Superseding Model	Engine Manufacturer
HL-218A		.AS Motor GMBH-KG
HL-220A	.HL-220AX	.Husqvarna Vapenfabriks Akt.
HL-220AX		.Husqvarna Vapenfabriks Akt.
HL-221A		.Rockwell
HL-223A		.Varimex
HL-224A		.Fichtel & Sachs

Ref. No.	Part Name	HL-218A	HL-220A	HL-220AX	HL-221A	HL-223A	HL-224A
1	Body (Service)	014059	014081	014214	014107	014156	014163
2	*Body Channel Cup Plug	012347	----	----	----	012347	----
D12	Body Channel Plug Screw	----	01102	01102	----	----	----
D20	Body Channel Screen	012884	----	----	----	012884	----
D16	Body Channel Screen Ret. Screw	012345	----	----	----	012345	----
3	*Body Channel Welch Plug	02531	02531	02531	02531	02531	02531
D27	Choke Friction Ball	----	----	----	04784	----	04784
4	Choke Friction Pin	05454	----	----	----	05454	----
5	Choke Friction Spring	08805	----	----	08805	08805	08805
B1	Choke Shaft	----	----	----	----	011846	----
A15	Choke Shaft & Lever	014056	----	----	----	----	----
A20	Choke Shaft & Lever	----	012755	012755	----	----	----
A32	Choke Shaft & Lever	----	----	----	013540	----	013540
D4	Choke Shutter	011883	011883	011883	----	011442	----
6	Choke Shutter	----	----	----	013547	----	013547
7	Choke Shutter Screw & Lockwasher	----	----	----	08942	----	08942
8	Diaphragm Chamber Drain Screw	02232	02232	02232	----	02232	----
9	Diaphragm Gasket	012473	012473	012473	012473	012473	012473
10	*Diaphragm	012475	012475	012475	012475	012475	012475
11	Diaphragm Cover	010526	011904	011904	013549	010526	013228
12	Flange Gasket	010730	010730	010730	013647	010730	012354
	Flange Insulator (2)	----	----	----	----	----	013404
D17	Flange Insulator Washer (2)	----	----	----	----	----	013405
13	Fuel Pump Gasket	012930	012930	012930	012930	012930	012930
14	*Fuel Pump Diaphragm	010531T	010531T	010531T	012698	010531T	010531T
15	Fuel Pump Body	010525	011903	011903	013335	010525	013335
16	Fuel Pump Body Screw & Lockwasher (6)	010098	010098	010098	010098	010098	010098
17	*Fuel Strainer Screen	010530	010530	010530	010530	010530	010530
18	Fuel Strainer Cover Gasket	010529	010529	010529	010529	010529	010529
19	Fuel Strainer Cover	010527	010527	010527	010527	010527	010527
20	*Fuel Strainer Cover Ret. Screw	010571	010571	010571	010571	010571	010571
21A	*Idle Mixture Screw	011716	011716A	011716A	011498	011716	011498
21B	*Idle Mixture Screw Spring	08793	08793	08793	08793	08793	08793
21C	Idle Mixture Screw Washer	011428	011428	011428	011428	011428	011428
21D	Idle Mixture Screw Packing	011401	011401	011401	011401	011401	011401
23	*Idle Speed Screw	05095	011908	011908	05095	05095	05095
24	*Idle Speed Screw Spring	0788	011103	011103	0788	0788	0788
25	*Inlet Control Lever	014020	014020	014020	014020	014020	014020
26	*Inlet Control Lever Pinion Screw	010581	010581	010581	----	010581	----
D26	*Inlet Control Lever Fulcrum Pin	----	----	----	013406	----	013406
D13	*Inlet Control Lever Fulcrum Pin Ret. Screw	----	----	----	013269	----	013269
27	***INLET NEEDLE SEAT & GASKET**	014035	014035	014035	014053	014035	014053
28	Inlet Seat Gasket	010165	010165	010165	010165	010165	010165
29	*Inlet Tension Spring	010578	011503	011503	011503	010578	011503
30A	*High Speed Mixture Screw	012630	----	----	----	011494	012225
30B	*High Speed Mixture Screw Spring	08793	----	----	----	08793	08793
30C	High Speed Mixture Screw Washer	011428	----	----	----	011428	011428
30D	High Speed Mixture Screw Packing	011401	----	----	----	011401	011401
D24	*Main Fuel Jet (.031)	----	013979	----	----	----	----
D24	*Main Fuel Jet (.033)	----	----	013630	----	----	----
D24	*Main Fuel Jet (.035)	----	----	----	013627	----	----
D17	Main Fuel Jet Gasket	----	010404	010404	06076	----	----
D12	Main Fuel Jet Plug Screw	----	----	----	0675	----	----
D17	Main Fuel Jet Plug Screw Gasket	----	----	----	013094	----	----
D18	Nozzle Check Valve	----	012084	012084	012084	----	012084
C6	Throttle Lever	013105	----	----	----	----	----
C9	Throttle Lever Assembly	----	----	----	012148	----	012148
D16	*Throttle Lever Ret. Lockwasher	06396	----	----	----	----	----
D11	Throttle Lever Ret. Nut	----	----	----	011755	----	011755
D13	*Throttle Lever Ret. Screw	06393	----	----	----	----	----
D14	*Throttle Lever Ret. Screw & Lockwasher	----	----	----	012145	----	012145
D17	*Throttle Lever Ret. Washer	----	----	----	07844	----	07844
A4	Throttle Shaft & Lever	----	----	----	013543	013188	013543
A5	Throttle Shaft & Lever	014057	----	----	----	----	----
A11	Throttle Shaft & Lever	----	012754	014528	----	----	----
32	Throttle Shaft Bushings (2)	09780	09780	09780	----	09780	----
33	Throttle Shaft Clip	09678	011907	011907	09678	09678	09678
34	Throttle Shaft Clip Lockwasher	0992	----	----	0992	0992	0992
35	Throttle Shaft Clip Ret. Screw	01974	----	----	01974	01974	01974
36	*Throttle Shaft Return Spring	014055	012244	012244	013541	012244	013541
37	Throttle Shutter	011226	012089	012089	013534	08646	013534
38	*Throttle Shutter Screw & Lockwasher	08317	08942	08942	08942	08942	08942
39	***GASKET & PACKING SET**	GS-155	GS-182	GS-182	GS-181	GS-155	GS-158
40	**REPAIR PARTS KIT**	RK-710	RK-709	RK-736	RK-711	RK-730	RK-722

(*) Indicates contents of REPAIR PARTS KIT

BASIC PARTS ILLUSTRATIONS: See front cover for illustrations corresponding to reference **numbers** in list below.

SPECIAL PARTS ILLUSTRATIONS: See pages 3, 4, 5 and 6 for illustrations corresponding to reference **letters** in list below.

Carburetor Model	Superseding Model	Engine Manufacturer
HL-226A		Kyoritsu Noki
HL-230A		Husqvarna Vapenfabriks Akt.
HL-239A		Solo Kleinmotoren GMBH
HL-241A		J. & F. Pool Ltd.
HL-242A		Fichtel & Sachs
HL-244A		Andreas Stihl Maschinenfabrik
HL-245A		Andreas Stihl Maschinenfabrik

Ref. No.	Part Name	HL-226A	HL-230A	HL-239A	HL-241A	HL-242A	HL-244A	HL-245A
1	Body (Service)	014205	014274	014417	014449	014473	014496	014488
2	*Body Channel Cup Plug	----	----	----	012347	----	----	012347
D20	Body Channel Screen	----	----	----	012884	----	----	012884
D16	Body Channel Screen Ret. Ring	----	----	----	012345	----	----	012345
3	*Body Channel Welch Plug	02531	02531	02531	02531	02531	02531	02531
D27	Choke Friction Ball	----	04784	----	----	04784	----	----
4	Choke Friction Pin	05454	----	05454	05454	----	----	----
5	Choke Friction Spring	08805	08805	08805	08805	08805	----	----
B1	Choke Shaft	----	----	----	011846	----	----	----
A15	Choke Shaft & Lever	013125	----	----	----	----	----	----
A18	Choke Shaft & Lever	----	----	012960	----	----	----	----
A32	Choke Shaft & Lever	----	013540	----	----	013540	----	----
	Choke Shaft & Lever	----	----	----	----	----	014492	014487
33	Choke Shaft Clip	----	----	----	----	----	09678	09678
34	Choke Shaft Clip Lockwasher	----	----	----	----	----	0992	0992
35	Choke Shaft Clip Ret. Screw	----	----	----	----	----	01974	01974
D4	Choke Shutter	011883	----	011883	011883	----	----	----
6	Choke Shutter	----	013547	----	----	013547	013163	09626
7	Choke Shutter Screw & Lockwasher	----	08942	----	----	08942	08942	08942
8	Diaphragm Chamber Drain Screw	02232	----	02232	02232	----	----	02232
9	Diaphragm Gasket	012473	012473	012473	012473	012473	012473	012473
10	*Diaphragm	012475	012475	012475	012475	012475	012475	012475
11	Diaphragm Cover	010526	013228	012961	010526	013642	010526	010526
12	Flange Gasket	010730	012354	012354	010730	012354	012354	010730
	Flange Insulator Sleeve (2)	----	013404	----	----	013404	----	----
D17	Flange Insulator Washer (2)	----	013405	----	----	013405	----	----
13	Fuel Pump Gasket	012930	012930	012930	012930	012930	012930	012930
14	*Fuel Pump Diaphragm	010531	010531T	010531T	010531T	010531T	014230	010531
14A	*Fuel Pump Diaphragm	----	----	----	----	----	014229	----
15	Fuel Pump Body	010525	013335	010525	010525	013335	010525	010525
16	Fuel Pump Body Screw & Lockwasher (6)	010098	010098	010098	010098	010098	010098	010098
17	*Fuel Strainer Screen	010530	010530	010530	010530	010530	010530	010530
18	Fuel Strainer Cover Gasket	010529	010529	010529	010529	010529	010529	010529
19	Fuel Strainer Cover	010527	010527	010527	010527	010527	010527	010527
20	*Fuel Strainer Cover Ret. Screw	010571	010571	010571	010571	010571	010571	010571
21A	*Idle Mixture Screw	011716	011498	011498	011716	011498	011716A	011716A
21B	*Idle Mixture Screw Spring	08793	08793	08793	08793	08793	08793	08793
21C	Idle Mixture Screw Washer	011428	011428	011428	011428	011428	011428	011428
D17	Idle Mixture Screw Washer (Thick)	----	----	----	----	----	----	04920
21D	Idle Mixture Screw Packing	011401	011401	011401	011401	011401	011401	011401
23	*Idle Speed Screw	05095	05095	05095	----	05095	05095	05095
24	*Idle Speed Screw Spring	0788	0788	0788	----	0788	0788	0788
25	*Inlet Control Lever	014020	014020	014020	014020	014020	014020	014020
D26	*Inlet Control Lever Fulcrum Pin	----	013406	----	----	013406	013406	----
D13	*Inlet Control Lever Fulcrum Pin Ret. Screw	----	013269	----	----	013269	013269	----
26	*Inlet Control Lever Pinion Screw	010581	----	010581	010581	----	----	010581
27	***INLET NEEDLE SEAT & GASKET**	014035	014053	014035	014035	014053	014053	014035
28	Inlet Seat Gasket	010165	010165	010165	010165	010165	010165	010165
29	*Inlet Tension Spring	011503	011503	011503	011503	011503	011503	013434
30A	*High Speed Mixture Screw	011494	----	012420	011494	----	011789	011494A
30B	*High Speed Mixture Screw Spring	08793	----	08793	08793	----	08793	08793
30C	High Speed Mixture Screw Washer	011428	----	011428	011428	----	011428	011428
D17	High Speed Mixture Screw Washer (Thick)	----	----	----	----	----	----	04920
30D	High Speed Mixture Screw Packing	011401	----	011401	011401	----	011401	011401
D24	*Main Fuel Jet (.037)	----	014540	----	----	----	----	----
D24	*Main Fuel Jet (.039)	----	----	----	----	013266	----	----
D17	Main Fuel Jet Gasket	----	06076	----	----	010404	----	----
D12	Main Fuel Jet Plug Screw	----	0675	----	----	0675	----	----
D17	Main Fuel Jet Plug Screw Gasket	----	013094	----	----	013094	----	----
D18	Nozzle Check Valve	012084	012510	012084	----	012510	012084	----
C9	Throttle Lever Assembly	012148	013394	----	----	012148	----	----
D16	*Throttle Lever Ret. Lockwasher	----	----	----	----	----	06396	06396
D11	Throttle Lever Ret. Nut	011755	011755	----	----	011755	----	----
D13	*Throttle Lever Ret. Screw	----	----	----	----	----	06393	06393
D14	*Throttle Lever Ret. Screw & Lockwasher	012145	012145	----	----	012145	----	----
D17	*Throttle Lever Ret. Washer	07844	07844	----	----	07844	----	----
B2	Throttle Shaft	----	----	----	014447	----	----	----
A4	Throttle Shaft & Lever	012136	013543	012719	----	013543	014494	012886
32	Throttle Shaft Bushings (2)	09780	----	09780	09780	----	----	09780
33	Throttle Shaft Clip	09678	09678	09678	09678	09678	09678	09678
34	Throttle Shaft Clip Lockwasher	0992	0992	0992	0992	0992	0992	0992
35	Throttle Shaft Clip Ret. Screw	01974	01974	01974	01974	01974	01974	01974
36	*Throttle Shaft Return Spring	010775	013541	012244	----	013541	013541	012244
37	Throttle Shutter	012089	013534	08646	08646	013534	013534	012089
38	*Throttle Shutter Screw & Lockwasher	08942	08942	08942	08942	08942	08942	08942
39	***GASKET & PACKING SET**	GS-155	GS-180	GS-158	GS-155	GS-202	GS-158	GS-155
40	**REPAIR PARTS KIT**	RK-744	RK-735	RK-766	RK-783	RK-769	RK-782	RK-705

(*) Indicates contents of REPAIR PARTS KIT

TILLOTSON MANUFACTURING CO.
PARTS AND SERVICE DIVISION
TOLEDO, OHIO 43612