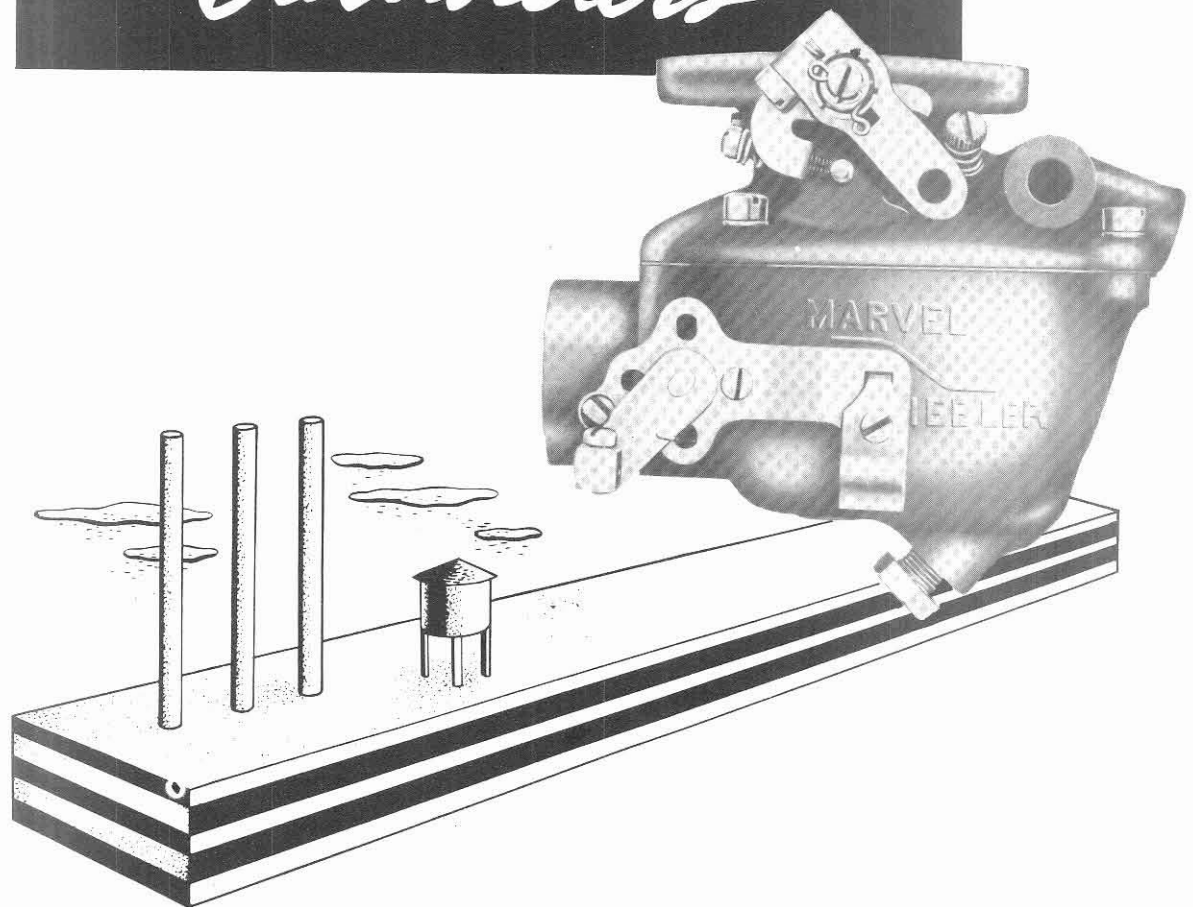


SECTION II
LeROI ENGINES
TSX SERIES

INDUSTRIAL

Carbureters



MARVEL-SCHEBLER PRODUCTS DIVISION,
BORG-WARNER CORPORATION
DECATUR, ILLINOIS, U. S. A.

Warranty

Marvel-Schebler Products Division, Borg-Warner Corporation, warrant its carbureters against defects in material and workmanship for a period of ninety days. Defective merchandise will be replaced without charge but labor charges incurred in the removal, disassembly or reinstallation of such products will not be allowed. No merchandise can be returned without written permission from the factory, transportation charges must be prepaid. The factory shall be the sole judge of defects in products returned.

A ten per cent handling charge will be made for all merchandise returned that is not defective. All prices are subject to change without notice, and we reserve the right to limit quantities and to make partial shipments unless specifically instructed otherwise. The obligation of the company under this warranty is limited to replacing at the factory, any complete units or parts thereof which shall be returned and which our examination shall disclose to have been defective.

Introduction...

This section of the master manual is an individual parts catalog of all service parts for Marvel-Schebler carbureters listed on the identification charts. The catalog is broken down into groups of fifteen carbureters; each group containing an identification chart, an exploded drawing of a composite carbureter, and a parts list. Each part in the illustration bears a reference number which keys together the illustration and parts list.

NOTE: The illustration does not represent any specific carbureter within a series, but is typical of all of them. All parts that look different are shown adjacent to the part of the basic carbureter that they replace.

TO USE THE CATALOG

- (1) Locate the group which contains the carbureter in question by referring to the identification charts.
- (2) Visually locate the part desired in the exploded drawing and note its reference number.
- (3) Turn to the parts list opposite the reference number of the part for its complete part name and part number.

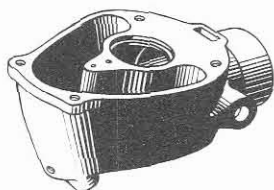
LeROI — INDUSTRIAL CARBURETERS

ISSUED JULY 1952

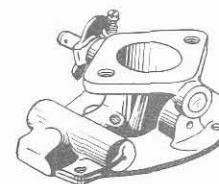
Model Application	Engine	Carburetor Number	Carburetor Part No.	Fuel	Superseded by	Customer Part No.	Repair Kit No.	Gasket Kit No.	Float Valve & Seat Assy
Industrial	D-471	TSX-135	10-2591	Gasoline	.....	A84-554	286-661	16-594	233-543
Industrial	D-140	TSX-137	10-2665	Gasoline	.....	A84-553	286-645	16-592	233-536
Industrial	D-140	TSX-179	10-2722	Gasoline	.....	84-553-4	286-687	16-592	233-536
Industrial	D-140	TSX-197	10-2779	Gasoline	.....	A84-553-5	286-700	16-613	233-536
Industrial	D-382	TSX-310	10-3134	Gasoline	.....	84-554-1	286-858	16-594	233-543
Industrial	D-226	TSX-334	10-3171	Gasoline	.....	87-553-7	286-859	16-592	233-536
Industrial	10S-G1	TSX-335	10-3172	Gasoline	.....	84-553-9	286-860	16-592	233-536

◆ The repair kit includes the throttle shaft, float valve and seat assembly, and the gasket kit.

§ The flange gasket can be supplied separately. Specify the carburetor number when ordering.

BASIC SUBASSEMBLIES**CARBURETER BODY ASSY**

Carburetor Number	Part Number
TSX-135	10-2593
TSX-137	10-2598
TSX-179	10-2732
TSX-197	10-2780
TSX-310	10-2593
TSX-334	10-3183
TSX-335	10-3189

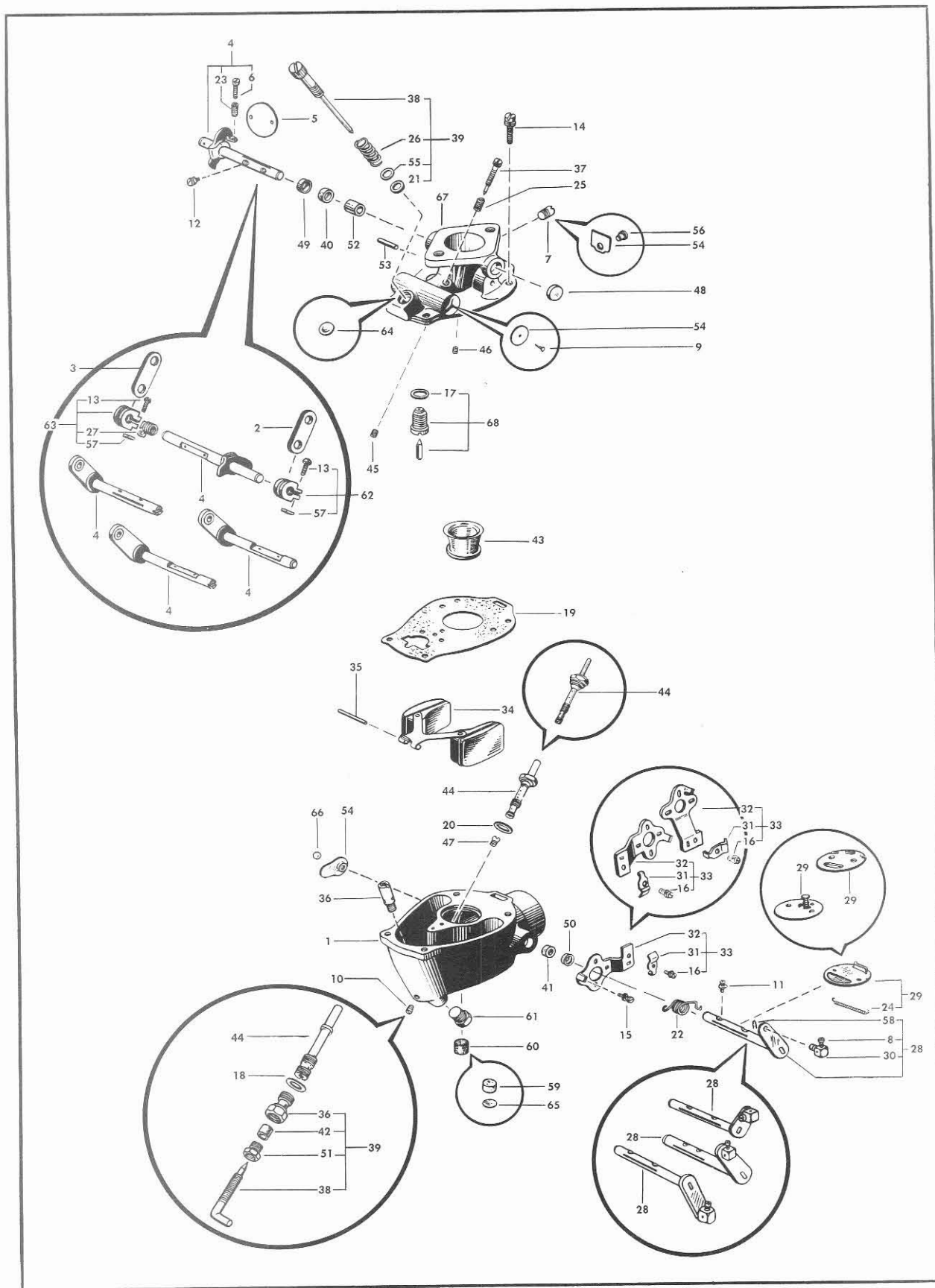
**THROTTLE BODY & SHAFT ASSY**

Carburetor Number	Part Number
TSX-135	227-883
TSX-137	227-887
TSX-179	227-956
TSX-197	227-980
TSX-310	227-1114
TSX-334	227-1133
TSX-335	227-1137

LeROI

Ref. No.	Part Name	Part No.	TSX-135	TSX-137	TSX-179	TSX-197	TSX-310	TSX-334	TSX-335
1	Body Assy — Carburetor	(See Basic Subassy)	1	1	1	1	1	1	1
2	Lever — Throttle, Loose	12-A72	-	1	1	1	-	-	-
3	Lever — Governor	12-A72	-	1	1	1	-	-	-
4	Shaft, Stop & Lever Assy — Throttle	13-868	-	1	1	1	-	-	-
		13-874	1	-	-	-	-	-	-
		13-968	-	-	-	-	-	-	-
		13-982	-	-	-	-	1	-	-
		13-989	-	-	-	-	-	1	1
5	Valve — Throttle (22°)	14-139	-	-	-	-	-	-	-
	(22°)	14-163	1	-	-	-	1	-	-
	(20°)	14-169	-	-	1	1	-	1	1
	(15°)	14-175	-	1	-	-	-	-	-
6	Screw — Throttle Stop (No. 8-32 x 3/4)	15-42	1	1	1	1	-	-	-
7	Screw — Idle Drilling (Headless, 1/4-28)	15-223	-	-	-	1	-	-	-
	(Headless, 5/16-24)	15-274	1	-	-	-	1	-	-
8	Screw — Choke Swivel (No. 8-32 x 5/16)	15-285	1	1	1	1	1	1	1
9	Screw — Drive, Nameplate (No. 2 x 1/4)	15-343	1	-	-	-	1	-	-
10	Screw — Drill Plug, Nozzle Hole (No. 8-32)	15-409	-	1	-	-	-	1	1

LeROI — INDUSTRIAL
TSX-135 to TSX-335



Marvel-Schebler Products Division, Borg-Warner Corporation, Decatur, Illinois, U. S. A.

LeROI			TSX-135	TSX-137	TSX-179	TSX-197	TSX-310	TSX-334	TSX-335
Ref. No.	Part Name	Part No.							
11	Screw & Lock Washer Assy — Choke Valve								
	(No. 6-32 x 1/4)	15-483	2	-	-	-	2	-	-
	(No. 4-40 x 1/4)	15-A91	-	2	2	2	-	2	2
12	Screw & Lock Washer Assy — Throttle Valve								
	(No. 6-32 x 1/4)	15-483	-	-	-	-	-	-	-
	(No. 6-32 x 5/16)	15-A64	2	-	-	-	2	-	-
	(No. 4-40 x 1/4)	15-A91	-	2	2	2	-	2	2
13	Screw — Clevis Clamp (No. 10-24 x 5/8)	15-A55	-	2	2	2	-	-	-
14	Screw & Lock Washer Assy — Throttle Body								
	to Bowl (No. 12-24 x 5/8)	15-A82	-	4	4	4	-	4	4
	(No. 12-24 x 3/4)	15-A85	4	-	-	-	4	-	-
15	Screw & Lock Washer Assy — Choke								
	Bracket to Body (No. 8-32 x 3/8)	15-A93	2	1	1	1	2	1	1
16	Screw & Lock Washer Assy — Choke Bracket								
	(No. 8-32 x 5/16)	15-A99	1	1	1	1	1	1	1
17	Gasket — Float Valve Seat	16-4	1	1	1	1	1	1	1
18	Gasket — Power Adjusting Needle Seat &								
	Bowl Plug	16-47	-	-	-	-	-	-	-
19	Gasket — Throttle Body to Bowl	16-80	-	1	1	1	-	1	1
		16-A12	1	-	-	-	1	-	-
		16-A41	-	-	-	-	-	-	-
20	Gasket — Main Nozzle	16-449	-	1	1	1	-	1	1
		16-456	-	-	-	-	-	-	-
		16-492	1	-	-	-	1	-	-
21	Gasket — Power Adjusting Needle	16-491	1	1	1	-	1	1	1
22	Spring — Choke Return	24-153	-	1	1	1	-	1	1
		24-A3	1	-	-	-	1	-	-
23	Spring — Throttle Stop Screw	24-262	1	1	1	1	-	-	-
24	Spring — Choke Valve Flapper	24-292	1	-	-	-	1	-	-
		24-425	-	1	1	1	-	1	1
25	Spring — Idle Needle	24-340	1	1	1	1	1	1	1
26	Spring — Power Adjusting Needle	24-A1	1	1	1	-	1	1	1
27	Spring — Governor Lever Return	24-A81	-	1	1	1	-	-	-
28	Shaft & Lever Assy — Choke	26-641	1	-	-	-	1	-	-
		26-660	-	1	1	1	-	-	-
		26-662	-	-	-	-	-	1	1
		26-666	-	-	-	-	-	-	-
29	Valve Assy — Choke	27-539	-	1	1	1	-	1	1
		27-540	-	-	-	-	-	-	-
		27-548	1	-	-	-	1	-	-
30	Swivel — Choke	28-49	1	-	1	1	1	1	1
31	Clip — Choke Bracket	29-81	1	-	1	1	1	1	1
32	Bracket — Choke	29-86	-	-	1	1	-	1	1
		29-93	1	-	-	-	1	-	-
		29-123	-	-	-	-	-	-	-
33	Bracket Assy — Choke	29-520	-	-	1	1	-	1	1
		29-524	1	-	-	-	1	-	-
		29-538	-	-	-	-	-	-	-
34	Float & Lever Assy	30-600	-	1	1	1	-	1	1
		30-621	1	-	-	-	1	-	-
		30-631	-	-	-	-	-	-	-
35	Shaft — Float	32-16	1	-	-	-	1	-	-
		32-27	-	1	1	1	-	1	1
36	Seat — Power Adjusting Needle	36-267	1	-	-	-	1	-	-
		36-291	-	-	-	-	-	-	-
37	Needle — Idle Adjusting	43-33	-	1	1	1	-	1	1
		43-58	1	-	-	-	1	-	-

LeROI — INDUSTRIAL

TSX-135 to TSX-335

LeROI			TSX-135	TSX-137	TSX-179	TSX-197	TSX-310	TSX-334	TSX-335
Ref. No.	Part Name	Part No.							
38	Needle — Power Adjusting	43-134	-	-	-	-	-	-	-
	Needle Assy — Power Adjusting	43-627	-	-	1	1	-	1	1
		43-631	1	-	-	-	1	-	-
39	Needle Assy — Power Adjusting (complete) ..	43-619	-	-	1	1	-	1	1
		43-620	1	-	-	-	1	-	-
	Needle, Seat, Packing & Retainer Assy —								
	Power Adjusting	43-621	-	-	-	-	-	-	-
40	Packing — Throttle Shaft	44-27	-	-	-	-	-	-	-
		44-35	1	-	-	-	2	-	-
		†44-38	-	-	-	2	-	1	1
		44-63	-	2	2	-	-	-	-
41	Packing — Choke Shaft	†44-38	1	-	-	-	1	-	-
		‡44-39	-	1	1	1	-	1	1
42	Packing — Power Adjusting Needle	44-51	-	-	-	-	-	-	-
43	Venturi (11/16" Diameter Throat)	46-467	-	1	1	1	-	-	-
	(1-1/16" Diameter Throat)	46-490	1	-	-	-	1	-	-
	(7/8" Diameter Throat)	46-A11	-	-	-	-	-	-	-
	(13/16" Diameter Throat)	46-A38	-	-	-	-	-	1	1
44	Nozzle — Main	47-199	1	-	-	-	1	-	-
		47-220	-	-	-	-	-	-	-
		47-272	-	-	1	1	-	-	-
	Nozzle Assy — Main	47-634	-	1	-	-	-	-	-
		47-636	-	-	-	-	-	1	1
45	Jet — Idle	49-101-L	-	1	1	1	-	1	1
		49-165	1	-	-	-	1	-	-
46	Jet — Economizer	49-180	-	-	-	1	-	-	-
		49-218	-	-	-	-	-	-	-
		49-265	-	-	1	-	-	-	-
47	Jet — Power	49-192	-	1	-	-	-	-	-
		49-208	-	-	-	1	-	-	-
		49-266	-	-	1	-	-	1	1
48	Cup — Throttle Shaft	55-214	1	-	-	-	-	-	-
49	Retainer — Throttle Shaft Packing	55-216	1	-	-	-	2	-	-
		55-231	-	-	2	2	-	-	-
		55-261	-	-	-	-	-	-	-
50	Retainer — Choke Shaft Packing	55-243	-	1	1	1	-	1	1
51	Retainer — Power Adjusting Needle Packing ..	55-285	-	-	-	-	-	-	-
52	Bushing — Throttle Shaft	60-260	2	-	-	-	2	-	-
53	Pin — Throttle Stop	62-167	1	1	1	1	-	-	-
54	Plate — Numbering	(Specify TSX Number)	1	1	1	1	1	1	1
55	Washer — Flat, Power Adjusting Needle	78-299	1	1	1	-	1	1	1
56	Plug — Idle Drilling	80-171	-	1	1	-	-	1	-
57	Nut — Clevis Clamp (No. 10-24)	81-1	-	2	2	2	-	-	-
58	Cotter — Hairpin (Choke Swivel)	82-16	1	1	1	1	1	1	1
59	Strainer — Fuel Drain	*95-40	1	1	1	1	1	1	1
60	Strainer — Fuel Drain	*95-78	1	1	1	1	1	1	1
61	Plug — Bowl Drain	99-7	1	1	1	1	1	1	1
62	Clevis Assy — (Throttle Lever)	121-504	-	1	1	1	-	-	-
63	Clevis Assy — (Governor Lever)	121-508	-	1	1	1	-	-	-
64	Plug — Expansion	179-11	-	-	-	1	-	-	-
65	Plug — Expansion, Bowl Drain	*179-35	1	1	1	1	1	1	1
66	Ball — Numbering Plate	206-36	-	1	1	1	-	1	1
67	Throttle Body & Shaft Assy	(See Basic Subassy)	1	1	1	1	1	1	1
68	Valve & Seat Assy — Float	233-536	-	1	1	1	-	1	1
		233-543	1	-	-	-	1	-	-

† Replaced by 44-63. Retainer not required with new packing.

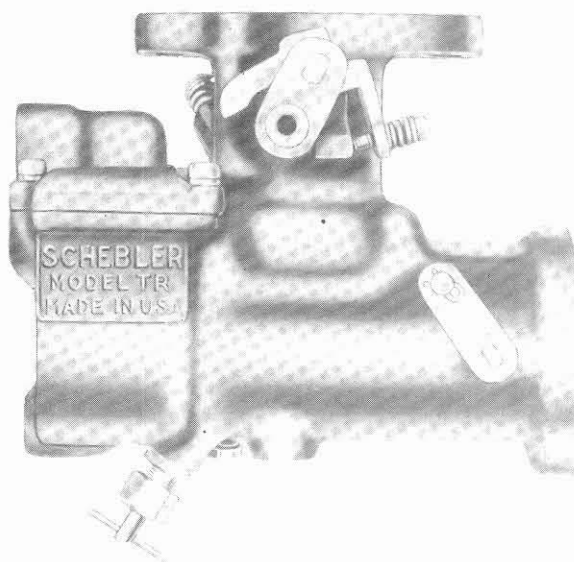
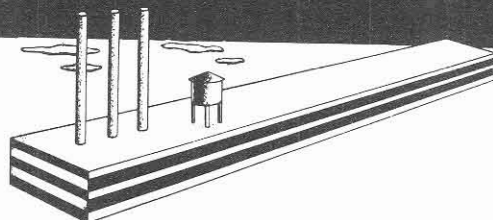
‡ Replaced by 44-66. Retainer not required with new packing.

* Production previous to July, 1947 used part number 95-40 with part number 179-35. These parts are not replaced with part number 95-78 but are still supplied for service.

SECTION II
LeROI ENGINES
TRX SERIES

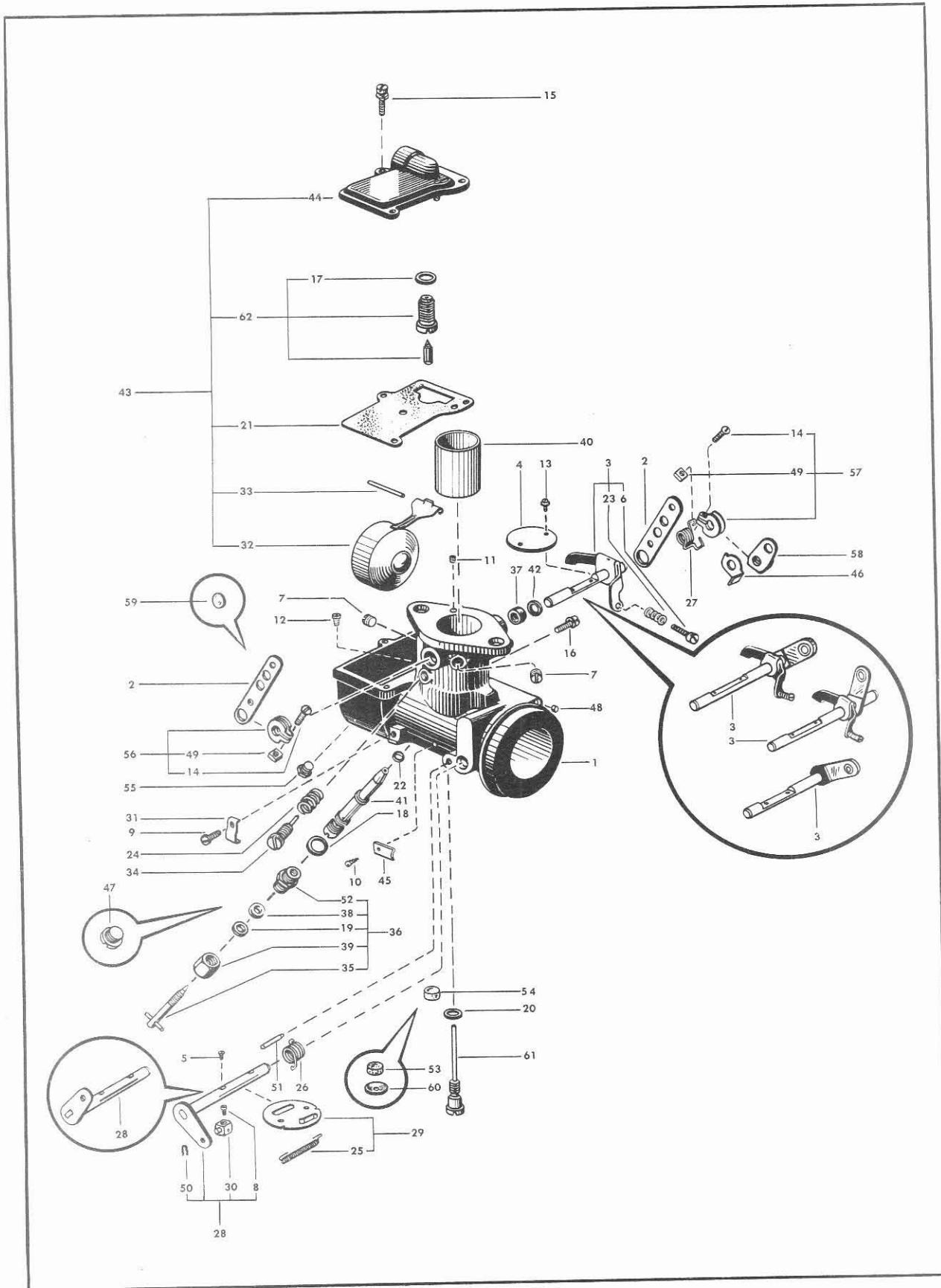
INDUSTRIAL

Carbureters



MARVEL-SCHEBLER PRODUCTS DIVISION,
BORG-WARNER CORPORATION
DECATUR, ILLINOIS, U. S. A.

LeROI — INDUSTRIAL
 TRX-32 to TRX-47



Marvel-Schebler Products Division, Borg-Warner Corporation, Decatur, Illinois, U. S. A.

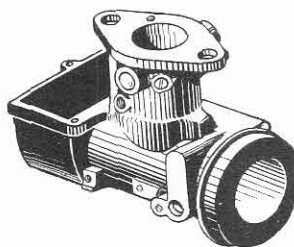
LeROI — INDUSTRIAL CARBURETERS

ISSUED JULY 1952

Model Application	Engine	Carburetor Number	Carburetor Part No.	Fuel	Superseded by	Customer Part No.	Repair Kit No.	Gasket Kit No.	Float Valve & Seat Assy
Power Unit	D201	TRX-32	10-2583	Gasoline	.....	84-552-1	286-635	16-587	233-558
Power Unit	D176	TRX-33	10-2585	Gasoline	TRX-40	84-552-3	286-681	16-587	233-558
Power Unit	D226	TRX-34	10-2587	Gasoline	.....	84-552	286-681	16-587	233-558
Power Unit	D176	TRX-35	10-2600	Gasoline	.....	84-552-5	286-681	16-587	233-558
Power Unit	D201	TRX-39	10-2674	Gasoline	.....	84-552-2	286-635	16-587	233-558
Power Unit	D176	TRX-40	10-2680	Gasoline	.....	84-552-4	286-635	16-587	233-558
Compressor	105GV	TRX-41	10-2692	Gasoline	.....	84-552-6	286-677	16-587	233-558
Power Unit	D226	TRX-45	10-2924	Gasoline	.....	84-552-9	286-758	16-587	233-558
Tractair	105G1-T	TRX-47	10-3053	Gasoline	TSX-335	84-552-10	286-778	16-657	233-558

♦ The repair kit includes the throttle shaft, float valve and seat assembly, and the gasket kit.

§ The flange gasket can be supplied separately. Specify the carburetor number when ordering.

BASIC SUBASSEMBLIES**CARBURETOR BODY ASSY**

Carburetor Number	Part Number
TRX-32	10-2584
TRX-33	10-2586
TRX-34	10-2588
TRX-35	10-2601
TRX-39	10-2675
TRX-40	10-2681
TRX-41	10-2693
TRX-45	10-2925
TRX-47	10-3055

LeROI			TRX-32	TRX-33	TRX-34	TRX-35	TRX-39	TRX-40	TRX-41	TRX-45	TRX-47
Ref. No.	Part Name	Part No.									
1	Body Assy — Carburetor	(See Basic Subassy) ..	1	1	1	1	1	1	1	1	1
2	Lever — Throttle, Loose	12-A71	1	1	1	1	1	1	1	1	1
3	Shaft & Stop Assy — Throttle	13-865	1	1	1	1	1	1	1	1	1
	Shaft, Stop, & Lever Assy — Throttle	13-890	1	1	1	1	1	1	1	1	1
		13-935	1	1	1	1	1	1	1	1	1
	Shaft & Lever Assy — Throttle	13-963	1	1	1	1	1	1	1	1	1
4	Valve — Throttle	14-139	1	1	1	1	1	1	1	1	1
5	Screw — Choke Valve (No. 4-36 x 1/4)	15-23	2	2	2	2	2	2	2	2	2
6	Screw — Throttle Stop (No. 8-32 x 5/8)	15-118	1	1	1	1	1	1	1	1	1
7	Screw — Idle Drilling (Headless, 1/4-28)	15-223	3	3	3	3	3	3	3	3	3
8	Screw — Choke Swivel (No. 8-32 x 5/16)	15-285	1	1	1	1	1	1	1	1	1
9	Screw — Choke Tube Clip (1/4-20 x 1/2)	15-286	1	1	1	1	1	1	1	1	1
10	Screw — Drive, Numbering Plate (No. 2 x 3/16)	15-367	1	1	1	1	1	1	1	1	1
11	Screw — Drill Plug, Idle Passage (No. 10-32 x 1/8)	15-392	1	1	1	1	1	1	1	1	1
12	Screw — Drill Plug, Nozzle Hole (No. 8-32 x 15/64)	15-409	2	2	2	2	2	2	2	2	2
13	Screw & Lock Washer Assy — Throttle Valve (No. 6-32 x 1/4)	15-483	2	2	2	2	2	2	2	2	2

LeROI — INDUSTRIAL

TRX-32 to TRX-47

LeROI			TRX-32	TRX-33	TRX-34	TRX-35	TRX-39	TRX-40	TRX-41	TRX-45	TRX-47
Ref. No.	Part Name	Part No.									
14	Screw — Clevis Clamp (No. 10-24 x 5/8)	15-A55	1	1	1	1	2	2	-	-	-
15	Screw & Lock Washer Assy — Bowl Cover (No. 10-24 x 5/8)	15-A86	3	3	3	3	3	3	3	3	3
16	Screw & Lock Washer Assy — Venturi Lock (No. 8-32 x 3/8)	15-A93	1	1	1	1	1	1	1	1	1
17	Gasket — Float Valve Seat	16-4	1	1	1	1	1	1	1	1	1
18	Gasket — Nozzle Retainer	16-4	1	1	1	1	1	1	1	1	1
19	Gasket — Power Adjusting Needle Packing Retainer	16-17	1	1	1	1	1	1	1	1	1
20	Gasket — Idle Tube	16-28	1	1	1	1	1	1	1	1	1
21	Gasket — Bowl Cover	16-299	1	1	1	1	1	1	1	1	1
22	Gasket — Main Nozzle	16-456	1	1	1	1	1	1	1	1	1
23	Spring — Throttle Stop Screw	24-262	1	1	1	1	1	1	1	1	1
24	Spring — Idle Needle	24-265	1	1	1	1	1	1	1	1	1
25	Spring — Choke Valve Flapper	24-367	1	1	1	1	1	1	1	1	1
26	Spring — Choke Return	24-488	1	1	1	-	1	1	1	1	1
27	Spring — Governor Lever Tension	24-A81	1	1	1	1	1	1	-	-	-
28	Shaft & Lever Assy — Choke	26-688	1	1	1	-	1	1	1	1	1
		26-690	-	-	-	1	-	-	-	-	-
29	Valve Assy — Choke	27-536	1	1	1	-	1	1	1	1	1
30	Swivel — Choke Lever	28-49	1	1	1	-	1	1	1	1	1
31	Clip — Choke Tube	29-79	1	1	1	-	1	1	1	1	1
32	Float & Lever Assy	30-596	1	1	1	1	1	1	1	1	1
33	Shaft — Float Lever	32-16	1	1	1	1	1	1	1	1	1
34	Needle Assy — Idle	43-525	1	1	1	1	1	1	1	1	1
35	Needle Assy — Power Adjusting	43-533	1	1	1	1	1	1	1	1	1
36	Needle Assy — Power Adjusting (complete)	43-545	1	1	1	1	1	1	1	1	1
37	Packing — Throttle Shaft	44-27	1	1	1	1	1	1	1	1	1
		44-38	-	-	-	-	-	-	-	-	1
38	Packing — Power Adjusting Needle	44-28	1	1	1	1	1	1	1	1	1
39	Nut — Power Adjusting Needle	45-1	1	1	1	1	1	1	1	1	1
40	Venturi (3/4" Diameter Throat)	46-370	-	1	-	-	1	-	-	-	-
	(25/32" Diameter Throat)	46-401	1	-	-	-	1	-	-	-	-
	(7/8" Diameter Throat)	46-A36	-	-	1	-	-	-	1	1	1
41	Nozzle — Main	47-255	1	-	-	-	1	-	-	-	-
		47-256	-	1	-	1	-	1	-	-	-
		47-258	-	-	1	-	-	-	1	1	1
		47-307	-	-	-	-	-	-	-	-	1
42	Retainer — Throttle Shaft Packing	55-261	-	-	-	-	-	-	-	-	-
43	Cover Assy — Bowl (complete)	56-551	1	1	1	1	1	1	1	1	1
44	Cover Assy — Bowl	56-553	1	1	1	1	1	1	1	1	1
45	Plate — Numbering	(Specify TRX Number)	1	1	1	1	1	1	1	1	1
46	Spacer & Pick-Up Finger — Governor Lever	78-391	1	1	1	1	1	1	1	1	1
47	Plug — Main Nozzle	80-93	1	1	1	1	1	1	1	1	1
48	Plug — Back Suction	80-110	1	1	1	1	1	1	1	1	1
49	Nut — Clevis Clamp (No. 10-24)	81-1	1	1	1	1	2	2	-	-	-
50	Cotter — Hairpin (Choke Swivel)	82-16	1	1	1	-	1	1	1	1	1
51	Stud — Choke Stop	83-354	1	1	1	1	1	1	1	1	1
52	Retainer — Power Adjusting Needle	94-16	1	1	1	1	1	1	1	1	1
53	Strainer — Fuel Drain	*95-40	1	1	1	1	1	1	1	1	1
54	Strainer — Fuel Drain	*95-78	1	1	1	1	1	1	1	1	1
55	Plug — Bowl Drain	99-7	1	1	1	1	1	1	1	1	1
56	Clevis Assy — Loose Lever	121-501	-	-	-	-	1	1	-	-	-
57	Clevis Assy — Governor Lever	121-505	1	1	1	1	1	1	-	-	-
58	Lever — Governor	155-269	1	1	1	1	1	1	-	-	-
59	Plug — Expansion Throttle Shaft	179-10	-	-	-	-	-	-	1	1	1
60	Plug — Expansion, Bowl Drain	*179-35	1	1	1	1	1	1	1	1	1
61	Tube Assy — Idle	229-539	1	1	1	1	1	1	1	1	1
62	Valve & Seat Assy — Float	233-558	1	1	1	1	1	1	1	1	1

†Replaced by 44-63. Retainer not required with new packing.

*Production previous to July, 1947 used part number 95-40 with part number 179-35. These parts are not replaced with part number 95-78 but are still supplied for service.