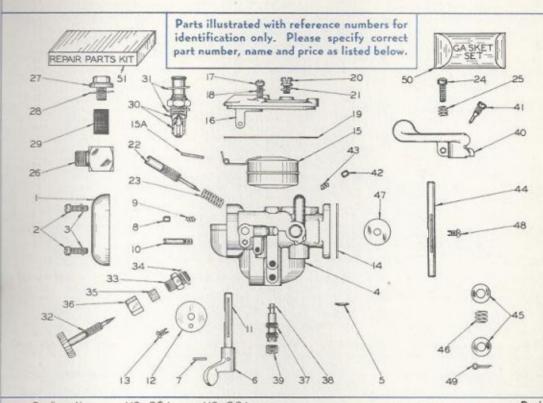
LIST PRICE: \$10.25

YEARS BUILT: 1936-1938

CARBURETOR MODELS: MS-90A - MS-92A



Ref.	No. Req.	MS-90A Part No.	MS-92A Part No.	Part Name	Pric
1	1	05447	0.5447	Air Deflector	
2	2	054	054	Air Deflector Screw	
3	2	0992	0992	Air Deflector Screw Lockwasher	
4	1	0.573.5	05755	Body	
5	1	*02531	02531	Body Welch Plug	0
6	1	02865	02865	Choke Lever	
7	1	03208-	03208	Choke Lever Pin	
8	1	*05454	05454	Choke Lever Friction Pin	0
9	1	*03860	03860	Choke Lever Friction Spring	0
10	1	04594	04594	Choke Lever Stop Pin	0
11	1	05453	05453	Choke Shaft	
12	1	05458	05458	Choke Shutter	
13	1	*04849	04849	Choke Shutter Screw	0
14	1	05591	05591	Flange Gasket	0
15	1	01459	01459	Float	
15A	1	*03369	03369	Float Lever Pin	
16	1	01794	01794	Float Bowl Cover	
17	4	054	054	Float Bowl Cover Screw	
-18	4	0992	0992	Float Bowl Cover Screw Lockwasher	
19	1	01845	01845	Float Bowl Cover Gasket	I
20	1	01434	01434	Float Bowl Cover Vent Screw	
21	1	0759	0759	Float Bowl Cover Vent Screw Lockwasher	0

Ref No.	No. Req.	MS-90A Part No.	MS-92A Part No.	Part Name	Price Each
22	1	*05456	05456	Idle Adjustment Screw	.\$.35
23	1	*05457	05457	Idle Adjustment Screw Spring	
24	1	*05095	05095	Idle Speed Regulating Screw	
25	1	* 0788	0788	Idle Speed Regulating Screw Spring	
26	1	03318	03318	Inlet Connection	
27	1	02409	02409	Inlet Connection Screw	12
28	1	02410	02410	Inlet Connection Screw Gasket	02
29	1	0802	0802	Inlet Screen	
30	1	*04050	04050	Inlet Needle & Seat	. 1.15
31	2	0337	0337	Inlet Seat Gasket	02
32	1	*05460	05460	Main Adjustment Screw	
33	1	0702	0702	Main Adjustment Screw Gland	30
3.4	1	0676	0676	Main Adjustment Screw Gland Gasket	02
35	1	0705	0705	Main Adjustment Screw Packing	06
36	1	0703	0703	Main Adjustment Screw Packing Nut	
37	1	*05569	05569	Main Nozzle	35
38	1	02817	02817	Main Nozzle Gasket	02
39	1	01102	01102	Main Nozzle Plug Screw	
40	1	05446	05446	Throttle Lever	
41	1	* 051	051	Throttle Lever Betaining Screw	06
42	1	0.5454	05454	Throttle Lever Friction Pin	
43	1	03860	03860	Throttle Lever Friction Spring	06
44	1	*05731	05731	Throttle Shaft	
45	2	* 0758	0758	Throttle Shaft Friction Washer	
46	ī	* 0737	0737	Throttle Shaft Friction Spring	
47	1	*04119	10120	Throttle Shutter	
47	1:		03.303	Throttle Shutter	
48	1	*04849	04849	Throttle Shutter Screw	
49	1	* 0379	0379	Throttle Friction Spring Clip	
50	-	*06889	06889	Gasket Set	30
51		08277	None	Repair Parts Kit	3 30

FLOAT LEVEL: To set correctly remove carburetor float bowl cover assembly, turn this mechanism upside down and with float lever resting on inlet needle bend lever, if necessary, to give a distance of 15/32nds of an inch from flat outer rim of float bowl cover (WISHOUT GASLET) to then lower edge of float.

ADJUSTMENT INSTRUCTIONS

Close Main Adjustment Screw (32) by turning to the right, or in, to its seat (never force against seat or injury to Main Nozzle will result) then open two full turns.

Close Idle Adjustment Screw (22) to its seat, then open three-fourths (3/4ths) of a full turn.

Open throttle approximately one-half (1/2) of its travel, choke carburetor in usual manner to start motor, and run until thoroughly warm.

Run motor with throttle at, or near wide open position. Adjust spark lever to give maximum speed and then close the Main Adjustment Screw (32) until motor slows down for want of fuel. Then turn this Adjustment Screw in reverse direction (usually from one-eighth (1/8th) to one-quarter (1/4) of a full turn) to that position where motor runs smoothly and with power. The final or correct setting should be about one to one and one-half turns open from closed position.

Close throttle and retard spark until engine fires evenly. Adjust Idle Speed Regulating Screw (24) to operate motor at slightly faster than normal idling speed. Turn Idle Adjustment Screw (22) in slowly until a noticeable slowing or missing of the motor occurs; then turn in reverse direction until motor runs evenly. Final or correct setting should be approximately three-eighths (3/8ths) to five-eighths (5/8ths) of a full turn open from closed position.

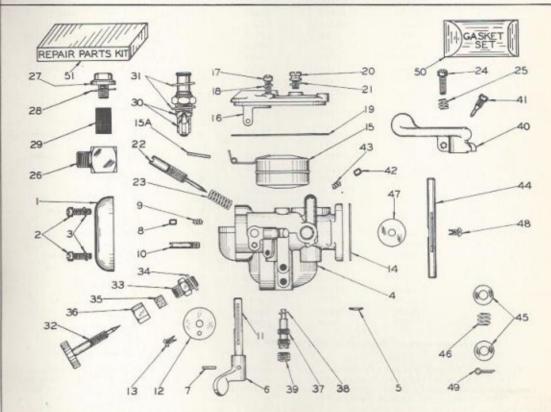
Adjust Idle Speed Regulating Screw (24) to operate motor at a desired idling speed under load. A smoother idle is oftentimes obtained by setting the Idle Speed Regulating Screw for a speed slightly faster than the normal idle and then reducing speed by further retarding the spark.

Revised 2/10/48

YEARS BUILT: 1937-39

CARBURETOR MODELS: MS-85C, MS-85D, MS-85DX

SUPERSEDURES: MS-85C REPLACES MS-85A & MS-85B



WHEN ORDERING, PLEASE SPECIFY FULL CARBURETOR MODEL AND COMPLETE PART NUMBER AND NAME.

Ref. No.	No. Req.	MS-85C Part No.	MS-85D Part No.	MS-85DX Part No.	Part Name
1	1	05447	05447	05447	Air Deflector
2	2	054	054	054	Air Deflector Screw
2 3	2	~6992	0992	0992	Air Deflector Screw Lockwasher
4	1	05736	05736	05736	Body
5	1	*02531	02531	02531	Body Welch Plug
6	1	02865	02865	02865	Choke Lever
7	1	03208	03208	03208	Choke Lever Pin
8	1	*05454	05454	05454	Choke Lever Friction Pin
8	1	*03860	03860	03860	Choke Lever Friction Spring
10	1	04594	04594	04594	Choke Lever Stop Pin
11	1	05453	05453	05453	Choke Shaft
12	1	05458	05458	05458	Choke Shutter
13	1	*04849	04849	04849	Choke Shutter Screw
14	1	05591	05591	05591	Flange Gasket
15	1	01459	01459	01459	Float
5.1	1	*03369	03369	03369	Float Lever Pin
15	1	01794	01794	01794	Float Bowl Cover

TILLOTSON MANUFACTURING CO. PARTS AND SERVICE DIVISION TOLEDO 12, OHIO, U. S. A.

Specifications or part numbers subject to change.

Ref. No.	No. Req.	MS-85C Part No.	MS-85D Part No.	MS-85DX Part No.	Part Name
17	4	054	054	054	Float Bowl Cover Screw
18	4	0992	0992	0992	Floot Bowl Cover Screw Lockwasher
19	1	01845	01845	01845	Fluat Bowl Cover Gasket
20	1	01434	01434	01434	Float Bowl Cover Vent Screw
21	1	0759	0759	0759	Float Bowl Cover Vent Screw Lockwashe
22	1	*05456	05456	05456	Idle Adjustment Screw
23	1	*05457	05457	05457	Idle Adjustment Screw Spring
24	1	*05095	05095	05095	Idle Speed Regulating Screw
25	1	* 0788	0788	0788	Idle Speed Regulating Screw Spring
26	1	03318	None	None	Inlet Connection
27	1	02409	None	None	Inlet Connection Screw
28	1	02410	None	None	Inlet Connection Screw Gasket
29	1	0802	None	None	Inlet Screen
30	1	*04050	06342	06342	Inlet Needle & Segt
31	2	0337	0337	0337	Inlet Seat Gasket
32	1	*05460	05460	05460	Main Adjustment Screw
33	1	0702	0702	0702	Main Adjustment Screw Gland
34	1	0676	0676	0676	Main Adjustment Screw Gland Gasket
35	1	0705	0705	0705	Main Adjustment Screw Packing
36	1	0703	0703	0703	Main Adjustment Screw Packing Nut
37	1	*05569	05569	05569	Main Nozzle
38	1	02817	02817	02817	Main Nozzle Gasket
39	1	01102	01102	01102	Main Nozzle Plug Screw
40	1	05446	05446	05446	Throttle Lever
41	1	* 051	051	051	Throttle Lever Retaining Screw
42	ī	05454	05454	None	Throttle Lever Friction Pin
43	1	03860	03860	None	Throttle Lever Friction Spring
44	1	*05731	05731	05731	Throttle Shaft
45	2	* 0758	0758	None	Throttle Shaft Friction Washer
46	1	* 0737	0737	None	Throttle Shaft Friction Spring
47	1	*04119	04119	04119	Throttle Shutter
48	1	*04849	04849	04849	Throttle Shutter Screw
49	î	* 0379	0379	None	Throttle Friction Spring Clip
50	700	*06889	06889	06889	GASKET SET
51		08277	None	None	REPAIR PARTS KIT

(*) Indicates contents of designated REPAIR PARTS KIT.

FLOAT LEVEL: To set correctly remove carburetor float bowl cover assembly, turn this mechanism upside down and with float lever resting on inlet needle bend lever, if necessary, to give a distance of 15/32nds of an inch from flat outer rim of float bowl cover (WITHOUT GASKET) to then lower edge of float.

ADJUSTMENT INSTRUCTIONS

Close Main Adjustment Screw (32) by turning to the right, or in, to its seat (never force against seat or injury to Main Nozzle will result) then open two full furns.

Close Idle Adjustment Screw (22) to its seat, then open three-fourths (3/4ths) of a full turn.

Open throttle approximately one-half (1/2) of its travel, choke carburetor in usual nanner to start motor, and run until thoroughly warm.

Run motor with throttle at, or near wide open position. Adjust spark lever to give maximum speed and then close the Main Adjustment Screw (32) until motor slows down for want of fuel. Then turn this Adjustment Screw in reverse direction (usually from oneeighth (1/8th) to one-quarter (1/4) of a full turn) to that position where motor runs smoothly and with power. The final or correct setting should be about one to one and onehalf turns open from closed position.

Close throttle and retard spark until engine fires evenly. Adjust Idle Speed Regulating Screw (24) to operate motor at slightly faster than normal idling speed. Turn Idle Adjustment Screw (22) in slowly until a noticeable slowing or missing of the motor occurs; then turn in reverse direction until notor runs evenly. Final or correct setting should be approximately three-eighths (3/8ths) to five-eighths (5/8ths) of a full turn open from closed position.

Adjust Idle Speed Regulating Screw (24) to operate motor at a desired idling speed under load. A smoother idle is oftentines obtained by setting the Idle Speed Regulating Screw for a speed slightly faster than the normal idle and then reducing speed by further retarding the spark.

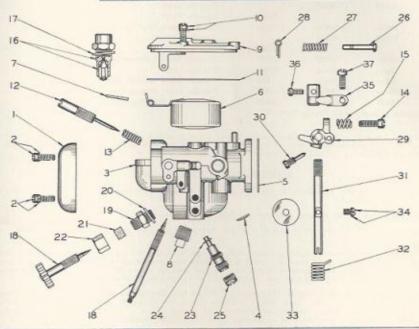
Revised 8/53



LIST PRICE: \$9.75 YEAR BUILT: 1940 CARBURETOR MODELS: MS-111A

MS-112A MS-114A

Parts illustrated with reference numbers for identification only. Please specify correct part number, name and price as listed below.



NO.	NO. REQ.	MS-111A PART NO.	MS-112A PART NO.	MS-114A PART NO.	PART NAME	PRICE
1	1	06652	None	None	Air Deflector	\$.30
2	2	08315	None	None	Air Deflector Screw and Lockwasher	.06
3	1	06636	08634	06706	Body	2.90
4	1	02531	02531	02531	Body Welch Plug	.03
5	1	05591	05591	05591	Flange Gasket	
6	1	01459	01459	01459	Float	.85
7	1	03369	03369	03369	Float Lever Pinion Pin	.06
8	1	None	None	0244	Float Bowl Drain Plug	.12
9	i	06281	06281	06281	Float Bowl Cover	.30
0	À	08315	08315	08315	Float Bowl Cover Screw and Lockwasher	.00
1	-	01845	01845	01845	Float Bowl Cover Gasket	
2	1	05456	05456	05456	Idle Adjustment Screw	.35
3	1	05457	05457	05457	Idle Adjustment Screw Spring	
4	-	05095	05095	05095	Idle Speed Regulating Screw	
5	1	0788	0788	0788	Idle Speed Regulating Screw Spring	
5		06279	06279	06279	Inlet Needle and Seat	4 60
7	-	0337	0337	0337	Inlet Seat Gasket	
	-	05460	06672	06672	Main Adjustment Screw	-
8	-	0702	0702	0702	Main Adjustment Screw Gland	

	REF.	NO. REQ.	MS-111A PART NO.	MS-112A PART NO.	MS-114A PART NO.	PART NAME	PRICE EACH
-	20	1	0676	0676	0676	Main Adjustment Screw Gland Gasket	\$.02
	21	1	0705	0705	0705	Main Adjustment Screw Packing	.06
	22	1	0703	0703	0703	Main Adjustment Screw Packing Nut	.17
	23	i	05569	05569	06704	Main Nozzle	.35
	24	î	02817	02817	02817	Main Nozzle Gasket	.02
	25	1	01102	01102	01102	Main Nozzle Channel Plug Screw	.06
	26	1	06280	06280	06280	Primer Plunger	.12
	27	1	06282	06282	06282	Primer Plunger Spring	.06
	28	1	0379	0379	0379	Primer Plunger Cotter Pin	.02
	29	1	06632	06632	06632	Throttle Stop Lever	.30
	30	1	051	051	051	Throttle Stop Lever Retaining Screw	.06
	31	1	06640	06640		Throttle Shaft	.30
	31	1			06595	Throttle Shaft	.35
	32	1	06634	06634	06634	Throttle Shaft Friction Spring	.06
	33	1	04119	04119		Throttle Shutter	.12
	33	1			03303	Throttle Shutter	.17
	34	1	08317	08317	08317	Throttle Shutter Screw and Lockwasher	.06
	35	1	None	None	06866	Throttle Lever	.45
	36	1	None	None	058	Throttle Lover Swivel Screw	.06
	37	1	None	None	0240	Throttle Lever Clamp Screw	.06
	38		08643	08643	08643	Gasket and Packing Set (Not illustrated)	.25
	***		manufactural deals	mated Benefit	Donte Wit		

FLOAT LEVEL: To set correctly—remove carburetor float bowl cover assembly, turn this mechanism upside down and with float lever resting on inlet needle bend lever, if necessary, to give a distance of 15/32pd of an inch from float bowl cover machine faced flange (WITHOUT GASKET) to then lower edge of float.

ADJUSTMENT INSTRUCTIONS

Close Main Adjustment Screw (18) by turning to the right, or in, to its seat (never force against seat or injury to Main Nozzle will result) then open two full turns.

Close Idle Adjustment Screw (12) to its seat, then open (3/4ths) three-fourths of a full turn.

Open throttle approximately (1/2) one-half of its travel, prime carburetor in usual manner to start motor, and run until thoroughly warm.

Run motor with throttle at, or near, wide open position. Adjust spark lever to give maximum speed and then close the Main Adjustment Screw (18) until motor slows down for want of fuel. Then turn this Adjustment Screw in reverse direction (usually Irom (1/8th) one-eighth to (1/4th) one-quarter of a full turn) to that position where motor runs smoothly and with power. The final or correct setting should be about one to one and one-half turns open from closed position.

Close throttle and retard spark until engine fires evenly. Adjust Idle Speed Regulating Screw (14) to operate motor at slightly laster than normal idling speed. Turn Idle Adjustment Screw (12) in slowly—until a noticeable slowing or missing of the motor occurs; then turn in reverse direction until motor runs evenly. Final or correct setting should be approximately (3/8ths) three-eighths to (5/8ths) five-eighths of a full turn open from closed position.

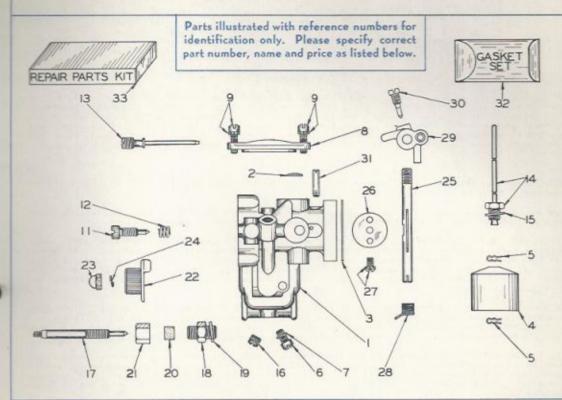
Adjust Idle Speed Regulating Screw (14) to operate motor at desired idling speed under load. A smoother idle is altentimes obtained by setting the Idle Speed Regulating Screw for a speed slightly faster than the normal idle and then reducing speed by further retarding the spark.

SERVICE HINTS

Always strain fuel through suitable medium and have proper fuel mixture when filling tank. Remove, drain and inspect comburetor occasionalty. When deposits of dirt and water are observed in float bowl remove Plug Screw (25), and both litle and Main Adjustment Screw Assemblies; then clean channels with compressed air. If Main Nourie (23) is removed for cleaning be sure to replace its Gasket (24) when reassembling. LIST PRICE: \$7.75

YEAR BUILT: 1941

CARBURETOR MODEL: AJ-IA



Ref.	No. Req.	Part No.	Part Name	Price Each
1	1	06879	Body	\$2,90
2	1	*02531	Body Channel Welch Plug	
3	1	95591	Flange Gasket	.06
4	1	08215	Float	.30
5	2	*05425	Float Retaining Cotter Clip	.01
6	1	0164	Float Bowl Drain Plug	.06
7	1	0648	Float Bowl Drain Plug Gasket	
R	3	06882	Float Bowl Cover	
0	2	08315	Float Bowl Cover Screw & Lockwasher	
11	1	*06910	Idle Adjustment Screw	
12	1	*05725	Idle Adjustment Screw Spring	
13	1	*06905	Idle Tube	.45
14	1	*06941	Inlet Valve, Seat and Gasket	
15	1	0212	Inlet Seat Gasket	
16	1	*02395	Inlet Valve Channel Plug Screw	
17	1	*06921	Main Adjustment Screw	. 45
18	1	0702	Main Adjustment Screw Gland	30
19	1	0676	Main Adjustment Screw Gland Gasket	02
29	1	0705	Main Adjustment Screw Packing	
	1	0703	Main Adjustment Screw Packing Nut	
	1	06923	Main Adjustment Knob	

Ref.	No. Req.	Part No.	Part Name	Price Each
23 24 25 26 27 28 29 30 31 32 33	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*06924 *01675 *06903 *06984 *08317 *06634 07000 *051 06918 *07082 08204	Main Adjustment Acorn Nut Main Adjustment Acorn Nut Lockwasher. Throttle Shaft. Throttle Shutter Throttle Shutter Screw & Lockwasher. Throttle Return Spring. Throttle Stop Lever. Throttle Stop Lever Retaining Screw Throttle Stop Pin. Gasket & Packing Set Repair Parts Kit.	02 30 12 06 06 30 06 06 06

FUEL LEVEL: Is approximately correct when 11/16ths of an inch below bowl rim. Float is positioned on Valve Stem between 2 encircling slots and held by retainer clips. A constantly higher than normal level requires careful valve and seat cleaning or replacement. To replace Inlet Valve and Seat Assembly first remove Cover, Plug Screw and top Cotter Clip encircling valve. Force valve downward until parallel with Float top then with thumb and forefinger draw valve through bottom of bowl. Float and lower Cotter Clip will fall from Bowl - socket wrench can now be used to easily remove valve seat.

ADJUSTMENT INSTRUCTIONS

Before starting engine check for proper fuel supply in tank, open Fuel Line Shut Off Valve and be certain air valve on Fuel Tank cap is open.

Separate manual carburetor adjustments are provided. Main Adjustment Screw (17) controlling power range mixture and Idle Adjustment Screw (11) governing idle mixture at CLOSED throttle.

INITIAL ADJUSTMENT: Completely close Idle Adjustment Screw (11) by turning in (clockwise) until seated (without forcing) then turn back in opposite direction about one full turn. Proceed in like manner with Main Adjustment Screw (17) except open about one and one-half (1-1/2) turns after first being closed (if a numbered Main Adjustment Knob or Lever is being used open to number specified in Engine Manual or "ZIGE" position indicated on panel). Now choke and start engine in usual manner and run until thoroughly warm.

POWER RANGE ADJUSTMENT: With engine running at a constant speed of approximately one-third (1/3) open throttle position, slowly turn Main Adjustment Screw (17) inward by 1/4th steps (clockwise) until motor begins to lose speed, then turn back in opposite direction (in 1/8th turn steps) until maximum speed and power is obtained. This should then be the correct final Main Adjustment Screw setting.

IDLE MIXTURE ADJUSTMENT: This adjustment should only be made AFTER the above mentioned power range adjustment has been completed. With engine idling at closed throttle position (desired slowest speed), slowly turn Idle Adjustment Screw (11) inward (clockwise) until motor begins to lose speed and miss or flutter, then turn back in opposite direction (usually about 1/8th of a turn) until engine functions smoothly and steadily, which is then correct setting.

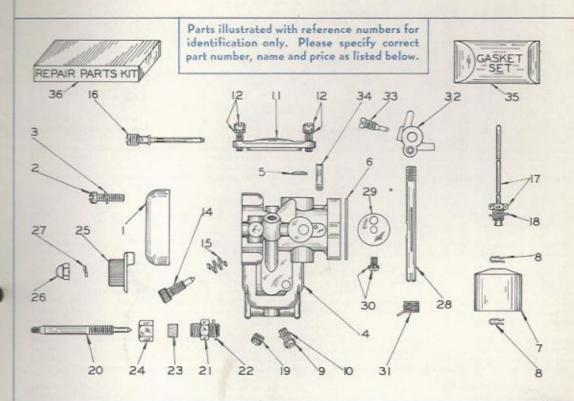
FINAL ADJUSTMENT: Alternately open and close throttle a few times for adjustment test. If acceleration hesitancy or stalling at idle speed occurs, entire adjustment procedure, outlined above, should be repeated. Warm Motor only requires opening of throttle and one or two vigorous pulls on starter rope, (choking not required unless previous experience indicates otherwise). Regardless of altitude or climatic conditions a proper carburetor adjustment can be made by following the above rules - which eliminates jet changes.

Revised 3/4/48

LIST PRICE: \$7.75

YEARS BUILT: 1941-42

CARBURETOR MODEL: AJ-2A



Ref.	No. Req.	Part No.	Part Name	Price
1	1	06459	Air Deflector	\$.23
2	2	01108	Air Deflector Screw	
3	2	0992	Air Deflector Screw Lockwasher	02
4	1	06929	Body	
5	1	*02531	Body Channel Welch Plug	03
6	1	05591	Flange Gasket	.06
7	1	08215*	Float	
8	2	*05425	Float Retaining Cotter Clip	
9	1	0164	Float Bowl Drain Plug	
10	1	0648	Float Bowl Drain Plug Gasket	
11	1	06882	Float Bowl Cover	23
12	2	08315	Float Bowl Cover Screw & Lockwasher	06
14	1	*06910	Idle Adjustment Screw	
15	1	*05725	Idle Adjustment Screw Spring	
16	1	*06905	Idle Tube	.45
17	1	*06941	Inlet Valve, Seat & Gasket	
18	1	0212	Inlet Seat Gasket	
19	1	*02395	Inlet Valve Channel Plug Screw	0.6
20	1	*06921	Main Adjustment Screw	45
21	1	0702	Main Adjustment Screw Gland	30
22	î	0676	Main Adjustment Screw Gland Gasket	

Ref.	No. Req.	Part No.	Part Name	Price Each	
23 24	1 1	0705 0703	Main Adjustment Screw Packing Nut	17	
25	1	06923			
27	î	*01675	Main Adjustment Acorn Nut Lockwasher	02	
28 29	1	*06903			
30	1	*08317			
32	1	07000	Throttle Stop Lever	30	
	1				
35		*07082	Gasket & Packing Set	20	
	No. 23 24 25 26 27 28 29 30 31 32 33 34	No. Req. 23 24 1 25 1 26 1 27 1 28 1 29 30 1 31 31 32 1 33 34 1 35	No. Req. Part No. 23 1 0705 24 1 0703 25 1 06923 26 1 *06924 27 1 *01675 28 1 *06903 29 1 *06332 30 1 *08317 31 1 *06634 32 1 07000 33 1 *051 34 1 06918 35 *07082	No. Req. Part No. Part Name	No. Req. Part No. Part Name Each 23 1 0705 Main Adjustment Screw Packing. \$.06 24 1 0703 Main Adjustment Screw Packing Nut .17 25 1 06923 Main Adjustment Knob .23 26 1 *06924 Main Adjustment Acorn Nut .12 27 1 *01675 Main Adjustment Acorn Nut Lockwasher .02 28 1 *06903 Throttle Shaft .30 29 1 *06332 Throttle Shutter .12 30 1 *08317 Throttle Shutter .06 31 1 *06634 Throttle Shutter Screw & Lockwasher .06 32 1 *07000 Throttle Stop Lever. .30 33 1 *051 Throttle Stop Lever Retaining Screw .06 34 1 *06918 Throttle Stop Pin .06 35 *07082 *Gasket & Packing Set .20

FUEL LEVEL: Is approximately correct when 11/16ths of an inch below bowl rim. Float is positioned on Valve Stem between 2 encircling slots and held by retainer clips. A constantly higher than normal level requires careful valve and seat cleaning or replacement. To replace Inlet Valve and Seat Assembly first remove Cover, Plug Screw and top Spring Cotter encircling valve. Force valve downward until parallel with float top then with thumb and forefinger draw valve through bottom of bowl. Float and lower Cotter Clip will fall from Bowl - socket wrench can now be used to easily remove valve seat.

ADJUSTMENT INSTRUCTIONS

Before starting engine check for proper fuel mixture supply in tank. Open Fuel Line Shut Off Valve and be certain air valve on Fuel Tank cap is open.

Separate manual carburetor adjustments are provided. Main Adjustment Screw (20) controlling power range mixture and Idle Adjustment Screw (14) governing idle mixture at closed throttle.

INITIAL ADJUSTMENT: Completely close Idle Adjustment Screw (14) by turning in (eleckwise) until seated (without forcing) then turn back in opposite direction about one full turn. Proceed in like manner with Main Adjustment Screw (20) except open about one and one-half (1-1/2) turns after first being closed (if a numbered Main Adjustment Knob or Lever is being used open to number specified in Engine Manual or "EICE" position indicated on panel). Now choke and start engine in usual manner and run until thoroughly warm.

POWER RANGE ADJUSTMENT: With engine running at a constant speed of approximately one-third (1/3) open throttle position, slowly turn Main Adjustment Screw (20) inward by 1/4th steps (clockwise) until motor begins to lose speed, then turn back in opposite direction (in 1/8th turn steps) until maximum speed and power is obtained. This should then be the correct final Main Adjustment Screw setting.

IDLE MIXTURE ADJUSTMENT: This adjustment should only be made AFIER the above mentioned power range adjustment has been completed. With engine idling at closed throttle position (desired slowest speed). slowly turn Idle Adjustment Screw (14) inward (clockwise) until motor begins to lose speed and miss or flutter, then turn back in opposite direction (usually about 1/8th of a turn) until engine functions smoothly and steadily, which is then correct setting.

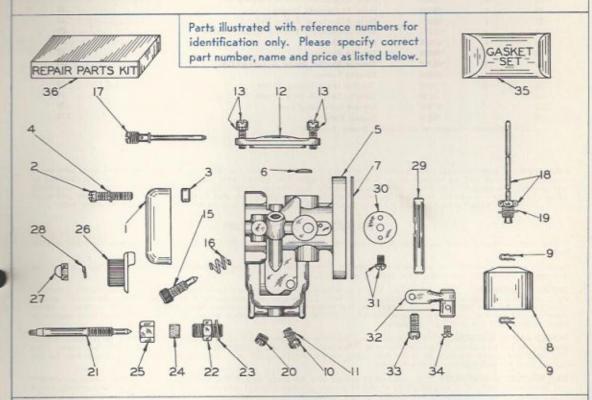
FINAL ADJUSTMENT: Alternately open and close throttle a few times for adjustment test. If acceleration hesitancy or stalling at idle speed occurs, entire adjustment procedure, outlined above, should be repeated. Warm Motor only requires opening of throttle and one or two vigorous pulls on starter rope, (choking not required unless previous experience indicates otherwise). Begardless of altitude or climatic conditions a proper carburetor adjustment can be made by following the above rules - which eliminates jet changes.

Revised 3/11/48

LIST PRICE: \$7.75

YEARS BUILT: 1941-42

CARBURETOR MODEL: AJ-9A



REF. NO.	NO. REQ.	PART NO.	PART NAME	PRICE
1	1	06459	Air Deflector	5 .23
2	2	06607	Air Deflector Screw	.06
3	2	06975	Air Deflector Screw Spacer	.06
4	2	0992	Air Deflector Screw Lockwasher	
5	1	07023_	Body	2.90
6	1	*02531	Body Channel Welch Plug	.03
7	1	05591	Flange Gasket	30.
8	1	08215	Float	.30
9	2	*05425	Float Retaining Cotter Clip	
10	1	0164	Float Bowl Drain Plug	.06
11	1	0648	Float Bowl Drain Plug Gasket	
12	1	06882	Float Bowl Cover	.23
13	2	08315	Float Bowl Cover Screw & Lockwasher	.06
15	1	*06910	Idle Adjustment Screw	.23
16	1	*05725	Idle Adjustment Screw Spring	
17	1	*06905	Idle Tube	
18	1	*06941	Inlet Valve, Seat & Gasket	.90
19	1	0212	Inlet Seat Gasket	.02
20	1	*02395	Inlet Valve Channel Plug Screw	.06

REF. NO.	NO. REQ.	PART NO.	PART NAME	PRICE EACH
21	1	*06921	Main Adjustment Screw	\$.45
22	1	0702	Main Adjustment Screw Gland	.30
23	1	0676	Main Adjustment Screw Gland Gasket	.02
24	1	0705	Main Adjustment Screw Packing	.06
25	1	0703	Main Adjustment Screw Packing Nut	.17
26	1	06923	Main Adjustment Knob	.23
27	1	*06924	Main Adjustment Acorn Nut	.12
28	1	*01675	Main Adjustment Acorn Nut Lockwasher	.02
29	1	*07018	Throttle Shalt	.30
30	1	*06984	Throttle Shutter	.12
31	1	*08317	Throttle Shutter Screw & Lockwasher	.06
32	1	06866	Throttle Lever	.45
33	1	* 0240	Throttle Lever Clamp Screw	.06
34	1	* 0120	Throttle Lever Swivel Screw	.06
35		*07082	Gasket & Packing Set	.20
36		08206	Repair Parts Kit	2.75

FUEL LEVEL: Is approximately correct when 11/16ths of an inch below bowl rim. Float is positioned on Valve Stem between 2 encircling slots and held by retainer clips. A constantly higher than normal level requires careful valve and seat cleaning or replacement. To replace Inlet Valve and Seat Assembly first remove Cover, Plug Screw and top Cotter Clip encircling valve. Force valve downward until parallel with Float Top then with thumb and foreinger draw valve through bottom of bowl. Float and lower Cotter Clip will fall from Bowl—socket wrench can now be used to easily remove valve seat.

ADJUSTMENT INSTRUCTIONS

Before starting engine check for proper fuel supply in tank, open Fuel Line Shut Off Valve and be certain air valve on Fuel Tank cap is open.

Separate manual carburetor adjustments are provided. Main Adjustment Screw (21) controlling power range mixture and Idle Adjustment Screw (15) governing idle mixture at CLOSED throttle.

INITIAL ADJUSTMENT: Completely close Idle Adjustment Screw (15) by turning in (clockwise) until seated (without forcing) then turn back in opposite direction about one full turn. Proceed in like manner with Main Adjustment Screw (21) except open about one and one-half (1-1/2) turns after first being closed (if a numbered Main Adjustment knob or lever is being used open to number specified in Engine Manual or "RICH" position indicated on panel). Now choice and start engine in usual manner and run until thoroughly warm.

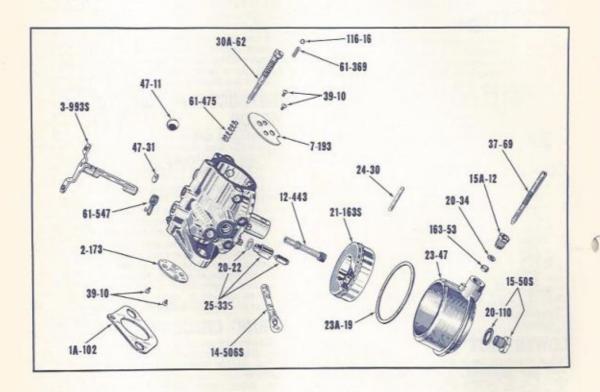
POWER RANGE ADJUSTMENT: With engine running at a constant speed of approximately one-third (1/3) open throttle position, slowly turn Main Adjustment Screw (21) inward by 1/4th steps (clockwise) until motor begins to lose speed, then turn back in opposite direction (in 1/8th turn steps) until maximum speed and power is obtained. This should then be the correct final Main Adjustment Screw Setting.

IDLE MIXTURE ADJUSTMENT: This adjustment should only be made AFTER the above mentioned power range adjustment has been completed. With engine idling at closed throttle position (desired slowest speed), slowly turn Idle Adjustment Screw (15) inward (clockwise) until motor begins to lose speed and miss or flutter, then turn back in opposite direction (usually about 1/8th of a turn) until engine functions smoothly and steadily, which is then correct setting.

FINAL ADJUSTMENT: Alternately open and close throttle a few times for adjustment test. If acceleration hesitancy or stalling at idle speed occurs, entire adjustment procedure, outlined above, should be repeated. Warm Motor only requires opening of throttle and one or two vigorous pulls on starter rope, (choking not required unless previous experience indicates otherwise). Regardless of altitude or climatic conditions a proper carburetor adjustment can be made by following the above rules — which eliminates jet changes.

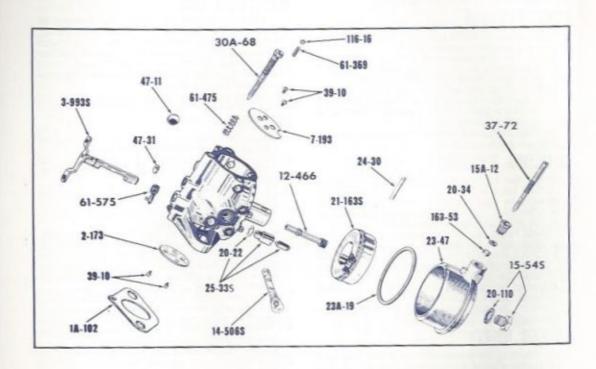
Sevised 4/15/48

CARTER CARBURETOR MODEL N-2273S



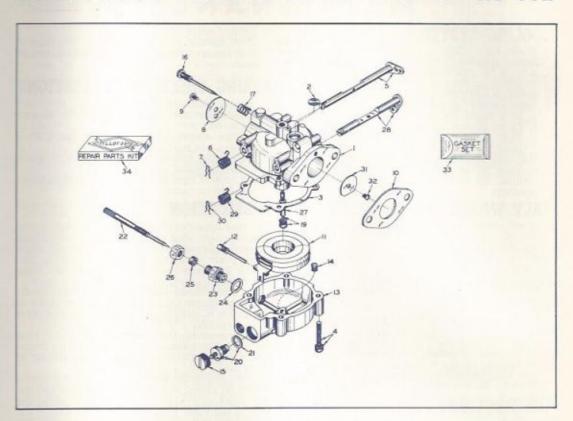
Part No.	Description	Part No.	Description
1A-102 2-173 3-993S 7-193 12-443 14-506S 15-50S 15-A-12 20-22 20-34 20-110 21-163S 23-47	Flange Gasket Throttle Valve Throttle Shaft and Lever Assembly Choke Valve Nozzle Choke Lever and Shaft Assembly Bowl Nut Assembly Packing Nut Needle Seat Gasket Packing Nut Gasket Bowl Nut Gasket Float and Lever Assembly Bowl Bowl	23A-19 24-30 25-33S 30A-62 37-69 39-10 47-11 47-31 61-369 61-475 61-547 116-16 163-53	Bowl Ring Gasket Float Lever Pin Needle and Seat Assembly Idle Adjustment Screw High Speed Adjusting Needle Choke & Throttle Valve Attaching Screw (4) Idle Port Welsh Plug Idle Passage Welsh Plug Choke Shaft Spring Idle Adjustment Screw Spring Throttle Return Spring Choke Spring Ball Main Metering Screw Packing

CARTER CARBURETOR MODEL N2439S



Part No.	Description	Part No.	Description
1A-102 2-173 3-9638 7-193 12-466 14-5068 15-548 15A-12 20-22 20-34 20-110 21-1638 23-47	Flange Gasket Throttle Valve Throttle Shaft and Lever Assembly Choke Valve Nozzle Choke Lever and Shaft Assembly Bowl Nut Assembly Packing Nut Needle Seat Gasket Packing Nut Gasket Bowl Nut Gasket Float and Lever Assembly Bowl	23A-19 24-30 25-33S 30A-68 37-72 39-10 47-11 47-31 61-369 61-475 61-575 116-16 163-53	Bowl Ring Gasket Float Lever Pin Needle and Seat Assembly Idle Adjustment Screw High Speed Adjusting Needle Choke & Throttle Valve Attaching Screw (4) Idle Port Welsh Plug Idle Passage Weish Plug Choke Shaft Spring Idle Adjustment Screw Spring Throttle Return Spring Choke Spring Ball Main Metering Screw Packing

TILLOTSON CARBURETOR MODEL MD-66A

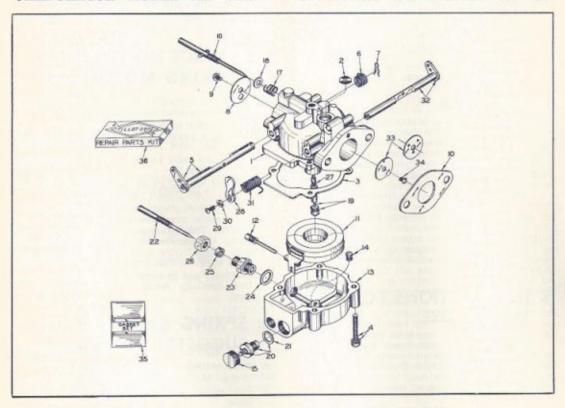


Ref.	Part No.	Part Name
1	09733	Body, Upper Half
2	*02531	Body Channel Welch Plug
3	07903	Body Gasket
4	06062	Body Retaining Screw and Lockwasher (4)
5	09725	Choke Shaft and Lever
6 7 8 9 10 11 12 13 14 15 16 17 19	07944 08597 08562 05204 05591 07804 *07901 08332 *03311 07896 *010697 *08736	Choke Return Spring Choke Spring Retainer Clip Choke Shutter Choke Shutter Screw Flange Gasket Float Float Lever Pinion Screw Fuel Bowl Fuel Bowl Drain Screw (Small) Fuel Bowl Plug Screw (Large) Idle Adjustment Screw Idle Adjustment Screw Idle Adjustment Screw Idle Tube and Plug Screw

Ref. No.	Part No.	Part Name
20	*07895	Inlet Needle, Seat and Gasket
21	02510	Inlet Seat Gasket
22	*09727	Main Adjustment Screw
23	0702	Main Adjustment Screw Gland
24	0676	Main Adjustment Screw Gland Gasket
25	09112	Main Adjustment Screw Packing
26	0703	Main Adjustment Screw Packing Nut
27	*08586	Main Nozzle
28	09723	Throttle Shaft and Lever
29	*07910	Throtle Return Spring
30	*08597	Throttle Spring Retainer Clip
31	09721	Throttle Shutter
32	*05204	Throttle Shutter Screw
33	*GS-110	GASKET and PACKING SET
34	RK-279	REPAIR PARTS KIT
	09730	Main Adjustment Screw Assembly

8

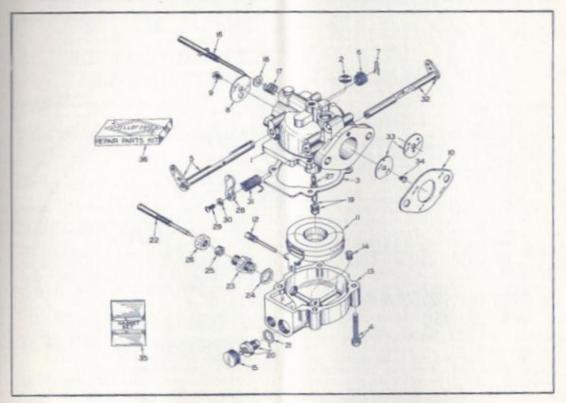
CARBURETOR MODEL MD - 72A - STANDARD ON MODEL 3M - GS



		Part No.	Description			o. Part eq. No.	Description
74.0"				20	-	*07895	Inlet Needle Seat and Gasket
1		09908	Body, Upper Half		4		
2	1 "	02531	Body Channel Welch Plug	21	1	02510	Inlet Seat Gasket
3	1	07903	Body Gasket	22	1	*09869	Main Adjustment Screw
4	4	06062	Body Retaining Screw and	23			Main Adjustment Screw Gland
			Lockwasher	24	1	0676	Main Adjustment Screw Gland
15	1	09865	Choke Shaft and Lever	75			Gasket
5 6 7	1	07910	Choke Shaft Return Spring	25	1	09112	Main Adjustment Screw Packing
7	7	08597	Choke Shaft Return Spring	26	1	0703	Main Adjustment Screw Packing
	1	00031	Retaining Clip	20	-	9.55	Nut
0	1	08862	Choke Shutter	27	1	*08586	Main Nozzle
8 9 10	4		Choke Shutter Screw	28	1	09861	Throttle Lever
. 3	4	0120		29	1	*06393	Throttle Lever Retaining Screw
10	1	05591	Flange Gasket	30	*	*06396	Throttle Lever Retaining Screw
11		07804	Float	30	. T	-00000	
12	1 '	07901	Float Lever Pinion Screw				Lockwasher
	1	08332	Fuel Bowl	31	1		Throttle Return Spring
13 14		03311	Fuel Bowl Drain Screw (Small)	32		09863	Throttle Shaft and Lever
15	1	07896	Fuel Bowl Drain Screw (Large)	33	1	09907	Throttle Shutter
10	1	*09868	Idle Adjustment Screw	34	1	*05204	Throttle Shutter Screw
16			Tille Adjustment Comm. Coming	35		*09756	Gasket and Packing Set
17		*08736	Idle Adjustment Screw Spring	34 35 36		RK109	Repair Parts Kit
18		*06095	Idle Adjustment Screw Washer	00		00000	
19	1	*09720	Idle Tube and Plug Screw	1		09900 3M402	Main Adjustment Screw Assembly Carburetor

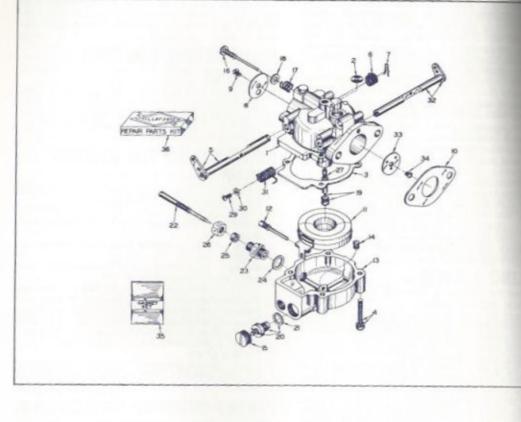
(*) Indicates contents of REPAIR PARTS KIT

CARBURETOR MODEL MD - 73A - STANDARD ON MODEL 4M - GS



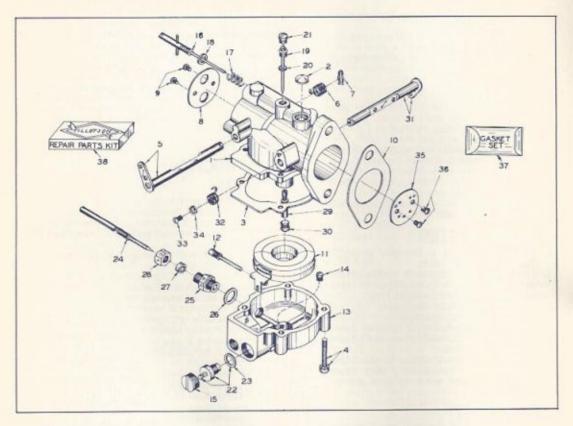
	No. Part Req. No.	Description	Ref. No. Part No. Req. No. Description
1	1 09911	Body, Upper Half	20 1 *07895 Inlet Needle Seat and Gasket
3	1 *02531	Body Channel Welch Plug	21 1 02510 Inlet Seat Gasket 22 1 *09869 Main Adjustment Screw
3	1 07903 4 06062	Body Retaining Screw and	23 1 0702 Main Adjustment Screw Gland
-	4 00002	Lockwasher	24 1 0676 Main Adjustment Screw Gland
5	1 09865	Choke Shaft and Lever	Gasket
6		Choke Shaft Return Spring	25 1 09112 Main Adjustment Screw Packing
7	1 08597	Choke Shaft Return Spring Retaining Clip	26 1 0703 Main Adjustment Screw Packing Nut
8	1 08862	Choke Shutter	27 1 *09910 Main Nozzle
9	1 0120	Choke Shutter Screw	28 1 09861 Throttle Lever
10	1 05591	Flange Gasket	29 1 *06393 Throttle Lever Retaining Screw
11	1 07804	Float Float Lever Pinion Screw	30 1 *06396 Throttle Lever Retaining Screw Lockwasher
13	1 08332	Fuel Bowl	31 1 *08647 Throttle Return Spring
14	1 *03311	Fuel Bowl Drain Screw (Small)	32 1 09863 Throttle Shaft and Lever
15	1 07896	Fuel Bowl Drain Screw (Large)	33 1 09888 Throttle Shutter 34 1 *05204 Throttle Shutter Screw
16	1 *09868	Idle Adjustment Screw	34 1 *05204 Throttle Shutter Screw
17	1 *08736	Idle Adjustment Serew Spring	35 *09756 Gasket and Packing Set
18	1 *06095	Idle Adjustment Screw Washer	36 RK-110 Repair Parts Kit
19	1 *09720	Idle Tube and Plug Screw	09900 Main Adjustment Screw Assembly 4M402 Carburetor

TILLOTSON CARBURETOR MODEL MD-



Ref.		Ref.	
No. Part No.	Description	No. Part No.	Description
1 010708 2 *02531 3 07908 4 06962 5 08865 6 07910 7 08597 8 08862 9 0120 10 65591 11 07804 12 *07901 13 08332 14 *03311 15 07896 6 *010697 17 *08736 18 *None 19 609720	Body, Upper Half Body Channel Welch Plug Body Gasket Body Ret. Screw and Lockwasher (4) Choke Shaft and Lever Choke Shaft Return Spring Choke Shaft Return Spring Choke Shutter Choke Shutter Choke Shutter Screw Flange Gasket Float Float Float Float Lever Pinion Screw Fuel Bowl Drain Screw (Small) Fuel Bowl Drain Screw (Large) Idle Adjustment Screw Idle Adjustment Screw Idle Adjustment Screw Washer Idle Adjustment Screw Washer Idle Tube and Plug Screw	20 *07895 21 02510 22 *09869 23 0702 24 0676 25 09112 26 0703 27 *09910 28 None 29 *06393 30 *06396 31 *08647 32 09863 33 09888 34 *05204 35 *GS-110 36 RK-304 09870	Inlet Needle, Seat and Gasket Inlet Seat Gasket Main Adjustment Screw Main Adjustment Screw Gland Main Adjustment Screw Gland Gasket Main Adjustment Screw Packing Main Adjustment Screw Packing Main Nozzle Throttle Lever Throttle Lever Retaining Screw Throttle Lever Retaining Screw Lockwasher Throttle Return Spring Throttle Shaft and Lever Throttle Shaft and Lever Throttle Shutter Throttle Shutter Throttle Shutter Screw Gasket and Packing Set Repair Parts Kit Main Adjustment Screw Assembly

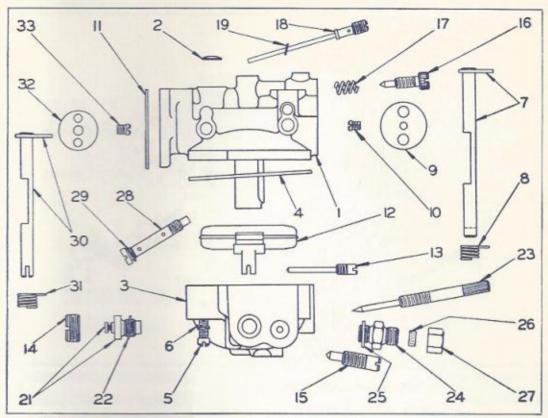
TILLOTSON CARBURETOR MODEL MD-84A



Ref. No.		Part No.	Description
1	1	010164	Body, Upper Half
2	1	*02531	Body Channel Welch Plug
3	1	07903	Body Gasket
4	4	06062	Body Retaining Screw & Lockwasher
5	1	010157	Choke Shaft and Lever
6	1	07910	Choke Shaft Return Spring
2 3 4 5 6 7	1	08597	Choke Shaft Return Spring Retaining Clip
8	1	09079	Choke Shutter
8 9	1 1 1 1	05204	Choke Shutter Screws
10	1	06833	Flange Gasket
11	î	07804	Float
12	1	*07901	Float Lever Pinion Screw
13	1	08332	Fuel Bowl
14	1	03311	Fuel Bowl Drain Screw (Small)
15	1	07896	Fuel Bowl Plug Screw (Large)
16		*010153	Idle Adjustment Screw
17	1	*05725	Idle Adjustment Screw Spring
18	1	06095	Idle Adjustment Screw Spring Washer
19	1	*010154	Idle Tube
	Indic	ates conte	nts of repair parts kit

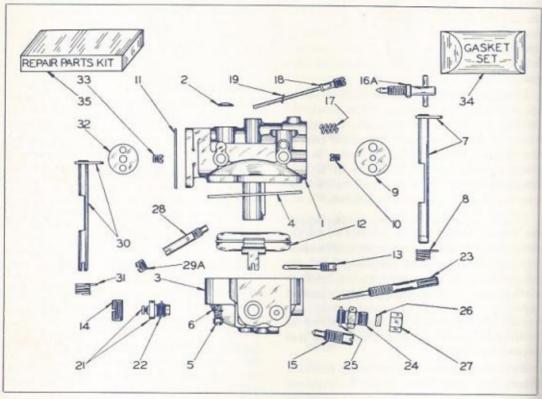
Ref. No.		Part No.	Description
20	1	06569	Idle Tube Gasket
21	1	*02395	Idle Tube Channel Plug Screw
22 23	1 1 1 1	*07895	Inlet Needle, Seat and Gasket
23	1	02510	Inlet Seat Gasket
24	1	*010162	Main Adjustment Screw
25		0702	Main Adjustment Screw Gland
24 25 26	1	0676	Main Adjustment Screw Gland Gasket
27	1	09112	Main Adjustment Screw Packing
28	1	0703	Main Adjustment Screw Packing Nut
29	î	*010146	Main Nozzle
30	1	01102	Main Nozzle Channel Plug Screw
31	1	010163	Throttle Shaft and Lever
32	1 1 1 1 1 1	*08647	Throttle Shaft Return Spring
33	1	*06393	Throttle Cam Lever Retaining Screw
34	1	*06396	Throttle Cam Lever Retaining Screw Lockwasher
35	1	010145	Throttle Shutter
36	2	*05204	Throttle Shutter Screws
37 38		*09330 RK-139	GASKET AND PACKING SET

CARBURETOR MODEL ME-1A-STANDARD ON MODEL 2-J



Ref. No.	Part No.	No. Req.	Description	Ref. No.	Part No.	No. Req.	Description
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	07955 *02531 07953 07961 06062 0992 07946 *07910 037339 05430 05891 07804 *07901 07896 *07952 *05725	111144111111111111111111111111111111111	Body, Upper Half Body Channel Welch Plug Fuel Bowl Body Gasket Body Betaining Screw Body Retaining Screw Lockwasher Choke Shaft and Lever Choke Shaft and Lever Choke Shutter Choke Stutter Lock Fuel Bowl Drain Screw Fuel Bowl Plug Screw (Large) Fuel Bowl Drain Valve Idle Adjustment Screw Little Laver Little Adjustment Screw Little Adjustment Screw Little Laver	18 19 21 22 23 24 25 26 27 28 29 30 31 32 33	*07938 07900 *07895 02510 08156 0702 0676 0703 *07959 02658 07943 *07943 *07960 *05430 *08176 08176	111111111111111111111111111111111111111	Idle Tube Idle Tube Gasket Inlet Needle, Seat and Gasket Inlet Seat Gasket. Main Adjustment Screw Gland. Main Adjustment Screw Gland. Main Adjustment Screw Gland Gasket Main Adjustment Screw Packing Main Adjustment Screw Packing Main Adjustment Screw Packing Norsle Main Norsle Main Norsle Main Norsle Throttle Shaft and Lever Throttle Return Spring Throttle Shutter Throttle Shutter Screw Gasket and Packing Set Repair Parts Kit Carburetor

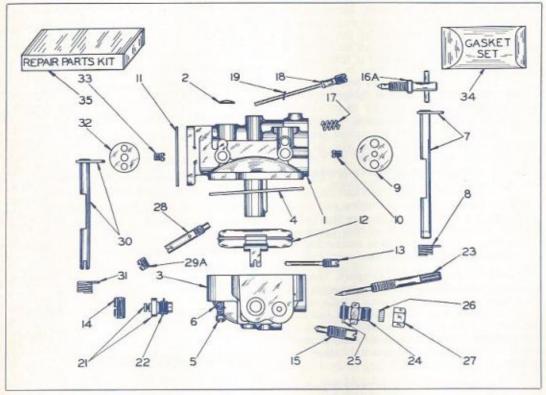
CARBURETOR MODEL ME-1B - STANDARD ON MODEL 2K



Bef. No.	Part No.	No. Req.	Description	Ref. No.	Part No.	No. Req.	Description
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 A 17 17	08368 *02531 07953 07953 06062 0992 07946 *05088 05430 05591 07896 07962 07896 07952 *07938	111111111111111111111111111111111111111	Body, Upper Half. Body Channel Welch Plug. Fuel Bowl Body Gasket. Body Retaining Screw Body Retaining Screw Lockwasher. Choke Shaft and Lever. Choke Return Spring. Choke Shutter. Choke Shutter Screw. Float Spring. Float Lever Pinion Screw. Float Lever Pinion Screw. Fuel Bowl Plug Screw (Large) Fuel Bowl Drain Valve. Idle Adjustment Screw.	19 21 22 23 24 25 26 27 28 29A 30 31 32 33 34 35	07900 "07895 02510 "08156 0705 0705 0703 "07922 02395 07943 "07944 *05430 "08364 "05430 "08415 08416 1J-402 08150	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Idle Tube Gasket. Inlet Needle, Seat and Gasket Inlet Seat Gasket. Main Adjustment Screw. Main Adjustment Screw Gland. Main Adjustment Screw Gland Gasket Main Adjustment Screw Packing Main Adjustment Screw Packing Nut. Msin Nozzle Main Nozzle Main Nozzle Throttle Shaft and Lever Throttle Shaft and Lever Throttle Shutter. Throttle Shutter Gasket and Packing Set. Repair Parts Kit Carburctor Main Adjustment Screw Assembly

(*) Indicates Contents of Designated Repair Parts Kit

CARBURETOR MODEL ME-2A - STANDARD ON MODEL 4K



Ref. No.	Part No.	No. Req.	Description	Ref. No.	Part No.	No. Req.	Description
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	08378 *02531 07953 07951 06062 07946 *07910 03739 05430 06591 07804 *07901 07896 *07952 *08381 *05725 *08515	111144111111111111111111111111111111111	Body, Upper Half. Body Channel Welch Plug. Fuel Bowl. Body Gasket. Body Retaining Screw. Body Retaining Screw Lockwasher. Choke Shaft and Lever. Choke Shaft and Lever. Choke Shutter. Choke Shutter. Choke Shutter Screw. Flange Gasket. Float Lever Pinion Screw. Float Lever Pinion Screw. Fuel Bowl Plug Screw (Large). Fuel Bowl Drain Valve. Idle Adjustment Screw. Lile Lile Screw. Lile Lile Screw. Lile Lile Screw. Lile Lile Screw. Lile Screw. Lile Lile Screw. Lile Lile Screw. Lile	19 21 22 23 24 25 26 26 27 28 29A 30 31 32 33 34 35	07900 *08018 02510 *08156 0702 0676 0705 0703 *08179 02395 07943 *07944 *07944 *07944 *07944 *07944 *08415 08417 08417 4K-402 08150	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Idle Tube Gasket. Inlet Needle, Seat and Gasket Inlet Seat Gasket. Inlet Seat Gasket. Main Adjustment Screw Gland. Main Adjustment Screw Gland Gasket Main Adjustment Screw Packing Main Adjustment Screw Packing Main Adjustment Screw Packing Main Nozle Main Nozle Main Nozle Throttle Shaft and Lever Throttle Shaft and Lever Throttle Shutter. Throttle Shutter Gasket and Packing Set Repair Parts Kit Carburetor. Main Adjustment Screw Assembly

(*) Indicates Contents of Designated Repair Parts Kit