# ZENITH

CARBURETTERS SERVICE BULLETIN

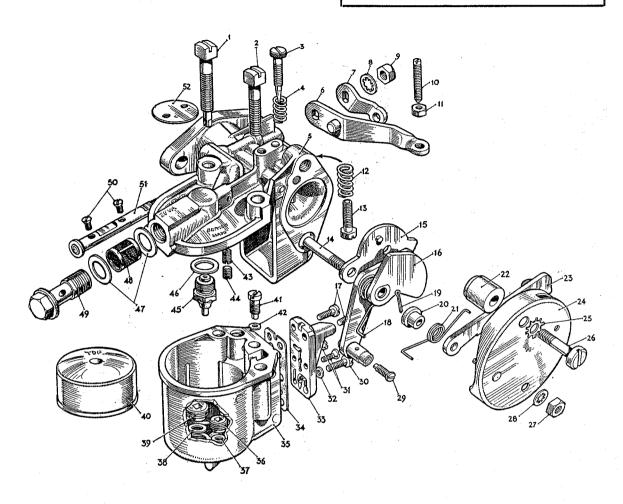
# AUSTIN 7 h.p. 1933-39

4 cyls. 56 × 76

CARBURETTER: 26VA : c/s. 548 48m/m. flange centres.

IDENTITY MARK: "7"

(Stamped on edge of flange)



STANDARD SETTING:

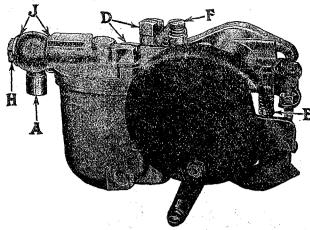
Choke Tube	Main Jet	Comp. Jet	S.R. Jet	Progression Jet	Needle Seating
17	57	50	60	50	l·5m/m.

## SPARE PARTS SCHEDULE

Ref.	Description	Part No.	Price Each	Bin No.	Ref.	Description	Part No.	Price Each	Bi No
1	Screw Fixing Bowl (Jet Key Type)	08123	9d.	i	28	Shakeproof Washer for do	07734	1d.	Ī.
2	Screw Fixing Bowl (Plain Type)	07857	6d.		29	Screw for Swivel	07949	2d.	
3	Air Regulating Screw	09845	1/-		30	Screw Fixing Emulsion Block (Long			1
4	Spring for do	09846	3d.			Cheese Head) (2 off)	07967	2d.	1
5	Carburetter Barrel	08658	50/-		31	Screw Fixing Emulsion Block (Instru-			
6	Interconnection Lever (Assd. Comp.)	08642	1/6			ment Head)	02730	2d.	1
7	Throttle Lever	09120	1/6		32	Washer for Screw (Long Cheese Head)	08523	1d.	
8	Shakeproof Washer for do	08515	1d.		33	Emulsion Block	09587	5/-	
9	Nut for Throttle Spindle	10145	2d.	1	34	Gasket for do	08363	4d.	1
10	Screw for Interconnection Lever	08647	3d.	1	35	Carburetter Bowl	010105	25/-	1
11	Locknut for do	11818	2d.		36	Main Jet	06605	2/6	
12	Spring for Throttle Stop Screw	04611	3d.		37	Fibre Washer for do	16709	1d.	1
13	Throttle Stop Screw	. 05923	6d.		38 .	Fibre Washer for Compensating Jet	16828	1d.	1
14	Strangler Spindle	08430	9d.		39	Compensating Jet	06620	2/6	1
15	Strangler Flap	08479	2/6	1	40	Float	08898	3/6	1
16	Strangler Lever (Assd. Comp.)	09330	4/-		41	Slow Running Jet	06798	2/-	ĺ
17	Screw Fixing Emulsion Block (Short		'	1	42	Washer for do	06983	1d.	
	Cheese Head) 2 off)	07087	2d.	į	43	Progression Jet	33451	1/6	
18	Spring for Strangler Lever	09331	4d.	1 .	44	Plug for do	05972	2d.	
19	Split Pin for Cam Follower Pivot	06893	1d.		45	Needle and Seating	07864	5/-	
20	Distance Piece for Cam Follower	07770	4d.		46	Washer for do	09619	1d.	
21	Spring for Cam Follower	08652	4d.		47	Fibre Washer for Plug or Banjo	06101	1d.	
22	Distance Piece for Cowl	08348	6d.		48	Filter Gauze	06100	6d.	
23	Cam Follower	09329	1/6		49	Plug Fixing Petrol Pipe	06098	2/6	1
24	Cowl (Assd. Comp.)	09333	2/6		50	Screw Fixing Throttle (2 off)	09479	2d.	
25	Shakeproof Washer for Screw Fixing	4.	'-		51	Throttle Spindle	08646	2/6	
	Cowl	08516	1d.		52	Throttle	07339	2/-	
26	Screw Fixing Cowl	07921	6d.		H =	Not shown (Restriction Tube Main Jet	08733	6d.	10
27	Nut for Strangler Spindle	15321	3d.	1 :-		on drawing ,, ,, Comp.,,	08734	6d.	1



#### TECHNICAL NOTES



- A. Petrol Union.
- D. Fixing Bolts.
- Throttle Adjustment Screw.
- Air Adjustment Screw.
- H. Filter Plug.
- Washers.

Starting.

To provide the required rich starting mixture the 26VA type carburetter has a strangler flap inserted in the air When the control from the dash is operated the flap closes the air intake and upon the engine being turned over

the depression is directed entirely upon the jets of the carburetter.

Consequently a very rich mixture is supplied and the engine starts readily and continues to run.

It is often advantageous to give the engine one or two turns with the strangler closed and ignition "off."

Then switch "on" and again turn the engine over by starter or handle.

The strangler is inter-connected with the throttle so that the latter is automatically opened the correct amount when the strangler is closed. Adjustments

The carburetter is delivered with a jet setting that has been found by extensive experimental work to be most suitable for the engine to which it is fitted. Consequently, very little adjustment to the carburetter should be needed. Indeed, the user will find that greater service will be obtained from the instrument if adjustments are made only when absolutely necessary. Adjustment to the slow running mixture is the only likely alteration, apart from an occasional cleaning of the jets, float chamber bowl, filter gauze, etc. When trouble is experienced with the engine, do not assume that it is always due to the carburetter. If satisfied that the instrument is completely free from dirt, do not be tempted to alter the carburetter until all other possible causes of trouble, such as sparking plugs, ignition, valves, etc., have been investigated.

until all other possible causes of trouble, such as sparking plugs, ig The Bowl of the Carburetter is removed by releasing the Fixing Bolts. The hand should be placed beneath the bowl during this operation so that when the bolts are removed, the bowl will drop into the hand. (Economy Note—Petrol in the bowl can then be emptied back into the tank).

The jets should be removed occasionally and thoroughly cleaned. One of the fixing bolts is squared at the end to fit into the jets. When the bottom end is placed into the squared recesses, a spanner applied to the head of the bolt will enable the jets to be removed.

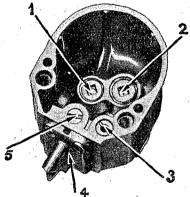
When cleaning the jets, do not pass anything through them that is likely to damage the carefully calibrated orifices. The most satisfactory and efficient method is to blow through them, and wash them in petrol. This will remove any obstruction, and leave the jets undamaged. jets undamaged.

The sizes of all jets in Zenith carburetters are clearly numbered, and the larger the jet the greater the number.

The slow running jet is provided with a

screwdriver slot for its removal.

In the 26VA type carburetter the capacity well is cored the desired size and no capacity tube is required.



1. Main Jet.

2. Compensating Jet.

Screw over Cap-3. acity Well.

4. Emulsion Block.

5. Slow Running Jet.

Interior of Bowl showing position of Jets.

The emulsion block is held to the side of the bowl by five screws. To remove the block, first ease the bottom screw, and then completely remove those above. The bottom screw should not be removed completely, but upon turning this in an anti-clockwise direction, it will come away from the bowl, complete with the emulsion block. Particular care should be taken not to damage the gasket beneath the block. Never use shellac or any jointing compound on this gasket. Upon replacing the block, locate the bottom screw first, and then tighten evenly the remaining screws.

The progression jet is removed from the carburetter by means of a screwdriver but the cover must be removed first, and care taken that it is replaced after inspection.

Slow Running is adjusted by means of the Throttle Stop Screw, and the Air Regulating Screw.

The stop screw determines the speed of slow running, i.e., it adjusts the throttle position for idling. To increase the slow running speed, the stop screw must be turned in a clockwise direction. If turned with opposite rotation, a slower tick-over will be given.

tick-over will be given.

The richness of the slow running mixture is adjusted by the air regulating screw. Should the engine refuse to tick-over for any length of time, or stall on deceleration, the slow running jet may be choked, and should be cleaned. After examination, reset the slow running by means of the throttle and air adjustment screws. If the engine is inclined to "hunt" when running slowly, the mixture is too rich, and must be weakened by turning the air regulating screw in an anti-clockwise direction. The best position for the slow running air screw from the point of view of pick-up is within one turn of the full "home" position. A size of slow running jet must be decided upon that will permit even tick-over with this setting of the screw, although a slight tendency to richness can often be corrected by setting the idling speed a trifle faster.

There are other factors quite apart from the carburetter that have considerable influence on the slow running, i.e., slow running when the engine is out of gear, and the car is stationary. These factors include non-airtight joints, worn valve guides, valves not seating, unequal tappet adjustment, ignition too far advanced, incorrect setting of sparking plug points. Such details must always be taken into consideration. The carburetter only should not be suspected if slow running is unsatisfactory.

running is unsatisfactory. The Filter.

Petrol is filtered on entering the carburetter, and the gauze should be cleaned occasionally. To remove this item, unscrew the petrol connection and take the filter out of its seating. The gauze can then be cleaned thoroughly with petrol.

When reassembling the filter, care should be taken to see that the washers on both sides of the petrol pipe connection are correctly replaced

The Bowl.

It will be seen that the jets are situated well away from the bottom of the bowl, so that any sediment will fall around and not into the jets. To keep the bowl free, swill it out occasionally with petrol. Choke Tube

The choke tube in the 26VA carburetter is cast in the barrel portion. Consequently it is not removable or changeable.

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CARBURETTER CO. LTD. HONEYPOT LANE, STANMORE MIDDLESEX