AKD 4792 A

THE

FUEL PUMP

INDEX OF SERVICE LITERATURE

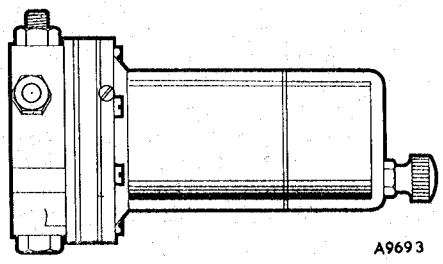
GENERAL INFORMATION AND IDENTIFICATION

MANUFACTURED
by
THE S.U. CARBURETTER COMPANY LIMITED

WOOD LANE · ERDINGTON · BIRMINGHAM 24
TELEPHONE: ERDINGTON 7371 (9 lines) TELEGRAMS: CARBURFLEX, BIRMINGHAM

S.U. SERVICE SHEET No. AUA 237A

S.U. FUEL PUMPS—IDENTIFICATION OF BASIC TYPES
(Earlier Models)



A9693

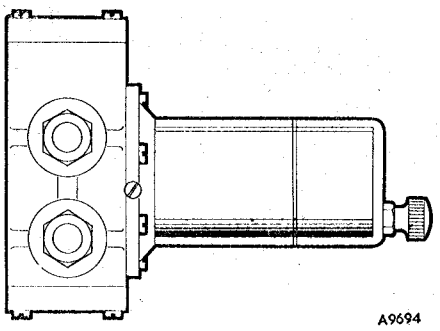
L and HP single

High- or low-pressure. Single: 6-, 12-, or 24-volt. Minimum flow, HP—7 gal. per hour, L—8 gal. per hour. Valves in outlet connection, plain disc, outlet valve in cage. Filter at bottom. Outlet connection at top. Sandwich plate and gasket between diaphragm and body.

Earlier HP coil housing $\frac{8}{16}$ in. longer than L, later models same external length as L.

LCS

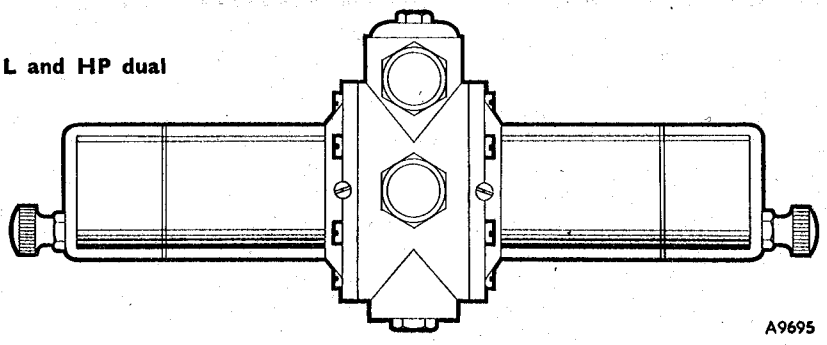
Large capacity. Single: 12- or 24-volt. Minimum flow, $12\frac{1}{2}$ gal. per hour. Valves inside top cover, outlet valve in cage, earlier valves both plain disc, later inlet plain disc with spring, outlet plastic assembly. Filter inside bottom cover.



A9694

L and HP dual

High- or low-pressure. Dual 12-volt, working simultaneously. Minimum flow, HP—16 gal. per hour, L—20 gal. per hour. Valves under top caps, outlet valves in cage, plain disc. Filter at bottom.



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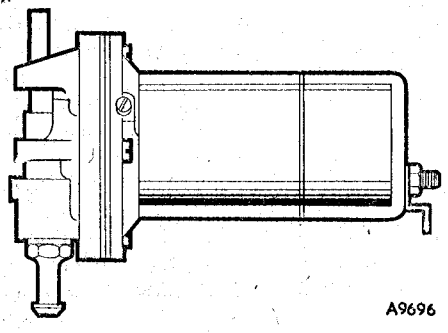
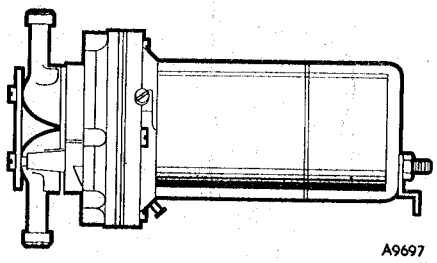


A9696

SP

High-pressure. Single: 12-volt. Minimum flow, 7 gal. per hour. Valves inside body, plastic type held by retainer plate and single screw. Filter in inlet connection.

S.U. FUEL PUMPS—IDENTIFICATION OF BASIC TYPES
(Later Models)



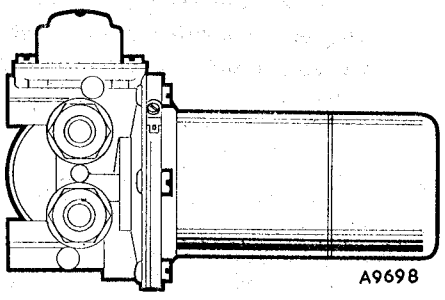
A9697

AUF 200 range

High-pressure. Single: 12-volt. Minimum flow, 7 gal. per hour. Valves accessible externally through inlet and outlet nozzles, plastic type all held by circular clamp plate and two screws. Filter under inlet nozzle.

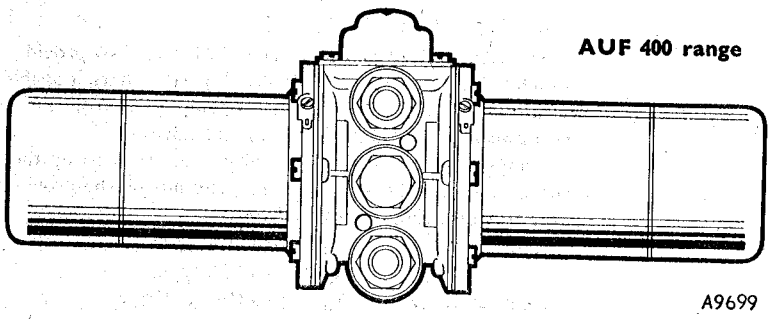
High-pressure. Single: 12-volt. Minimum flow, 15 gal. per hour. Valves inside body, plastic type held by clamp plate and two screws. Filter on inlet valve, plain air bottle on inlet, flow-smoothing device on delivery.

AUF 300 range



A9698

AUF 400 range

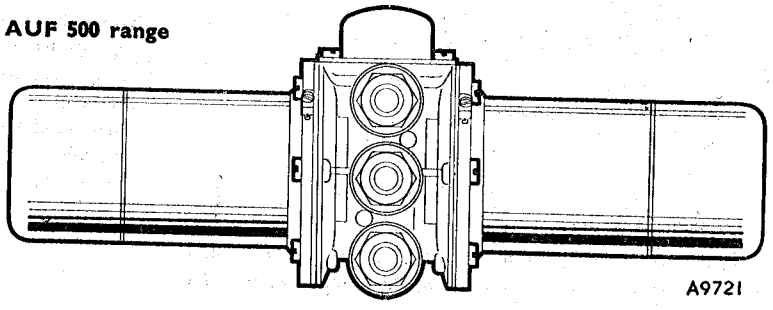


A9699

High-pressure. Dual working simultaneously. Single inlet, single outlet. 12-volt. Minimum flow from both—30 gal. per hour. Valves inside body, plastic type held by clamp plate and two screws. Filter on inlet valve. Plain air bottle on inlet, flow-smoothing device on delivery.

AUF 500 range

High-pressure. Dual normally working separately. Dual inlet, single outlet. 12-volt. Minimum flow, 12½ gal. per hour each. Valves inside body, plastic type held by clamp plate and two screws. Filter on inlet valve. Plain air bottle on inlet, diaphragm-type on delivery.



A9721

Pump voltage

All S.U. pumps can be identified for voltage by the marking and colour of the end-cover, thus:

6-volt—Brown
12-volt—Black
24-volt—Blue.

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Additional and revised leaflets will be issued from time to time. Record new issues in the spaces provided.

S.U. PUMP SPECIFICATIONS

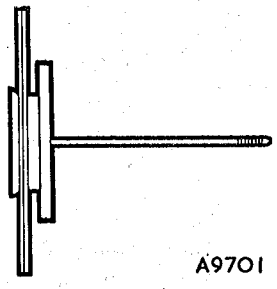
General

S.U. electric fuel pumps are fitted to an increasing variety of vehicle types, calling for a wide range of installation arrangements, pressures, suctions, and special features. The pump in each case is a variation on a basic specification to suit the particular installation requirements.

A current list of pump types, specification numbers, and the vehicles to which they are fitted, is published as occasion arises for the use of authorized Distributors and Dealers.

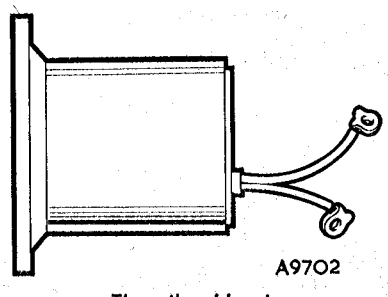
Basically all S.U. fuel pumps comprise four main assemblies.

1. **The body:** housing the valves, filter, inlet and outlet connections.
2. **The diaphragm:** being the fuel displacement element.
3. **The coil and housing:** providing the motive energy.
4. **The rocker and pedestal:** comprising the actuating mechanism.



A9701

The diaphragm



A9702

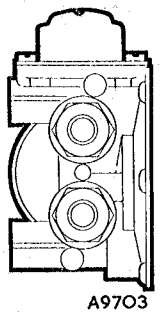
The coil and housing

Earlier-type pumps

L, HP, LCS, Dual L, and HP and SP pumps are recorded under specification numbers, having the prefix letters AUA or AUB.

All earlier-type pumps in current production bear this specification number stamped on a metal plate secured under two of the coil housing screws. Any new part fitted during reconditioning must be in accordance with the particular specification.

Externally the earlier HP pump coil housings were $\frac{3}{16}$ in. longer than the L type. All HP pumps are now fitted with the shortened coil housing of the same overall length as that of the L type.



A9703

The body

Production of the long-coil housing has ceased but it is still used in reconditioning when a coil, similar to that used in short housing pumps, but wound on the longer core, is used. Long and short versions of the pump are interchangeable, but because components differ, and may be required as spares, such pumps carry a prefix to the specification number, thus:

AUA 50 long housing pump, built with short-coil housing, becomes AUA 150.

AUA 52 long housing pump, built with short-coil housing, becomes AUA 152.

As the pumps are functionally identical, in service the non-prefixed pumps may be replaced by prefixed pumps, e.g. AUA 50 by AUA 150 and vice versa.

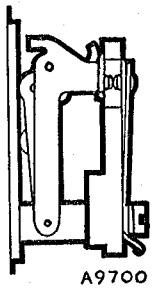
Later-type pumps

The AUF type of pump has been introduced to provide a simplified range using standardized parts where possible, resulting in simpler servicing. These pumps differ from earlier types mainly in the design of body and valves used.

Pumps in the AUF range are always referred to by their specification number, e.g. AUF 201, and not by the previous type to which they correspond thus:

AUF 200 to 299 corresponds to HP and SP types.
AUF 300 to 399 corresponds to LCS type.
AUF 400 to 499 corresponds to Dual HP type.
AUF 500 to 599 a new double-entry fuel pump.

As with the earlier-type pumps, the AUF range bear the specification number stamped on a metal plate secured under the coil housing screws. Again, any new part fitted during reconditioning must be in accordance with the particular specification. When the specification of a pump in the AUF range is altered by the addition of specially vented end-covers and coil housings, and with diaphragms of new plastic material protected by thin nylon barrier diaphragms etc., then the modified pump is allotted another number, e.g. AUF 200 becomes AUF 201.



A9700

The rocker and pedestal

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