M38 Windshield Wiper Vacuum Lines

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The M38 jeep produced from 1950 – 1952 used vacuum driven windshield wiper motors. The wiper plumbing system has two sides, suction (vacuum) and vent. The suction plumbing originates at the “Brass T” in the vacuum pump line near the intake manifold. The vent plumbing originates at the air cleaner’s “Brass T”.

The routing and connections of these vacuum lines are important for proper functioning of the windshield wiper motors. These are not to be confused with the underwater fording system vacuum lines also found in the engine bay area. For the underwater system vacuum lines refer to Bob Westerman’s work located on the primary Yahoo M38 website.

It is imperative that one obtain copies of the Military manuals listed below of which all are readily and inexpensively available.

- TM 9-1804B  Power Train, Body and Frame
- ORD 9 SNL G-740  List of all Service Parts
- TM 9-1804A  Engine and Clutch Rebuild
- TM 9-8012  Operational Maintenance

The following are Gratefully acknowledged for their assistance: Ray Shumate

Picture from TM 9-1804B (July 1952) p 36  Figure 11
Drivers side Windshield Wiper Motor Vacuum Supply

Driver’s side vacuum line routing from engine bay T
Driver’s Side Vacuum Wiper

A: Vacuum (Suction) line shut off valve
B: Retaining Clip
C: Wiper Motor
D: Vacuum line T
E: Double line Retaining Clip

1: Vent Line to opposite T
2: Vacuum Line to other Motor

Another view of the driver’s side vacuum line routing
Passenger side Vacuum Wiper

B: Retaining Clip
C: Wiper Motor
D: Vent line “T”
E: Double Line Retaining Clip

1: Vent Line to “T”
2: Vacuum Line to Motor
3: Vent line from vent “T” to air cleaner

Overview of the Windshield Wiper Vacuum Line Routing
Passenger side vent line routing from air cleaner

Note that the vent line connects to a port on the brass T of the air cleaner

Air Cleaner vent Ports

A: To passenger side wiper motor vent “T”
B: Brass T Port
C: To 2nd Brass T that feeds the Transfer case and the Brake Master Cylinder
D: Vent line to Fuel System
Rubber Tubing
H007-87800

Windshield wiper shut
off valve 73773188
Nut 114627
Sleeve 114628

Copper Tubing
¾ inch
H007-0218122

Rubber Tubing
H007-87800

Rubber Tubing
H007-87800

Clip: WO673622
No. 10 x ½ Tapping Screw 161895

Vacuum (Suction) Line

Wiper Vent Line

Wiper Shut off Cock

Wiper Vacuum Line

Rifle Holder Brackets [Removed]
Screws remain to plug holes

Door Strap Fastener

Louver Panel Removed

Weather strip

Aluminum Filler

M38 Arctic Top Windshield

Figure 4 Tubing and windshield wipers relocated for hot water heater kit installation

Standard M38 windshield