

FUEL TANK AND EXHAUST SYSTEM

FUEL TANK

The fuel tank is made of two halves ribbon-welded together at the central flanges.

Two struts are provided inside of the tank on all series. These are to aid in maintaining the shape of the tank and prevent its flexing from the weight of the gasoline and pull of supporting straps.

Struts extend from top half to the bottom half of tank, are located midway between front and rear of tank and are spot-welded to upper half only. See Fig. 8-1.

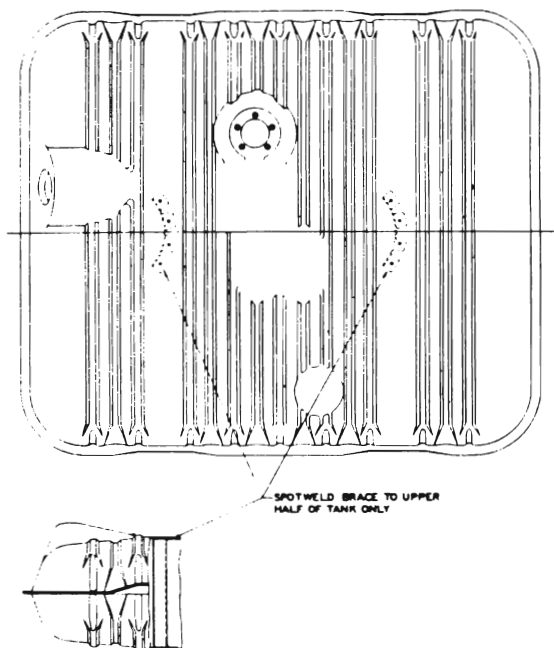


Fig. 8-1. Fuel Tank Struts

All tanks are identical in design and dimensions with the exception of depth, the Series 90 tank being $\frac{3}{4}$ " deeper than Series 40-50-60-70, to provide greater capacity.

All tanks are supported from the body and are insulated from it by two strips of anti-squeak.

The filler neck is supported by two braces fastened to the tank. Filler neck is accessible through door in left rear fender. No lock is provided on the door.

The vent hole is in the filler neck seat.

CAUTION

When car is stored for any length of time fuel should be drained from tank to prevent gum formation. Carburetor, fuel pump and lines should also be drained.

Removal of Fuel Tank

Disconnect gas feed pipe from the gas gauge pipe and disconnect the tank straps at rear end.

After the tank is sufficiently removed to provide access, disconnect gasoline gauge wire.

FUEL FEED LINES

Fuel lines on all series are carried on clips attached to the body.

Connections

Flared type connections are used on all fuel lines.

MUFFLER AND EXHAUST SYSTEM

The exhaust system is supported to allow for engine movement and also for expansion and contraction with temperature changes. See Figs. 8-3 and 8-4.

Fabric mountings are used to insulate muffler periods from the chassis. The mufflers are the "straight through" type with resonance chambers which absorb and dampen out the exhaust sound waves. See Fig. 8-2.



Fig. 8-2. Muffler

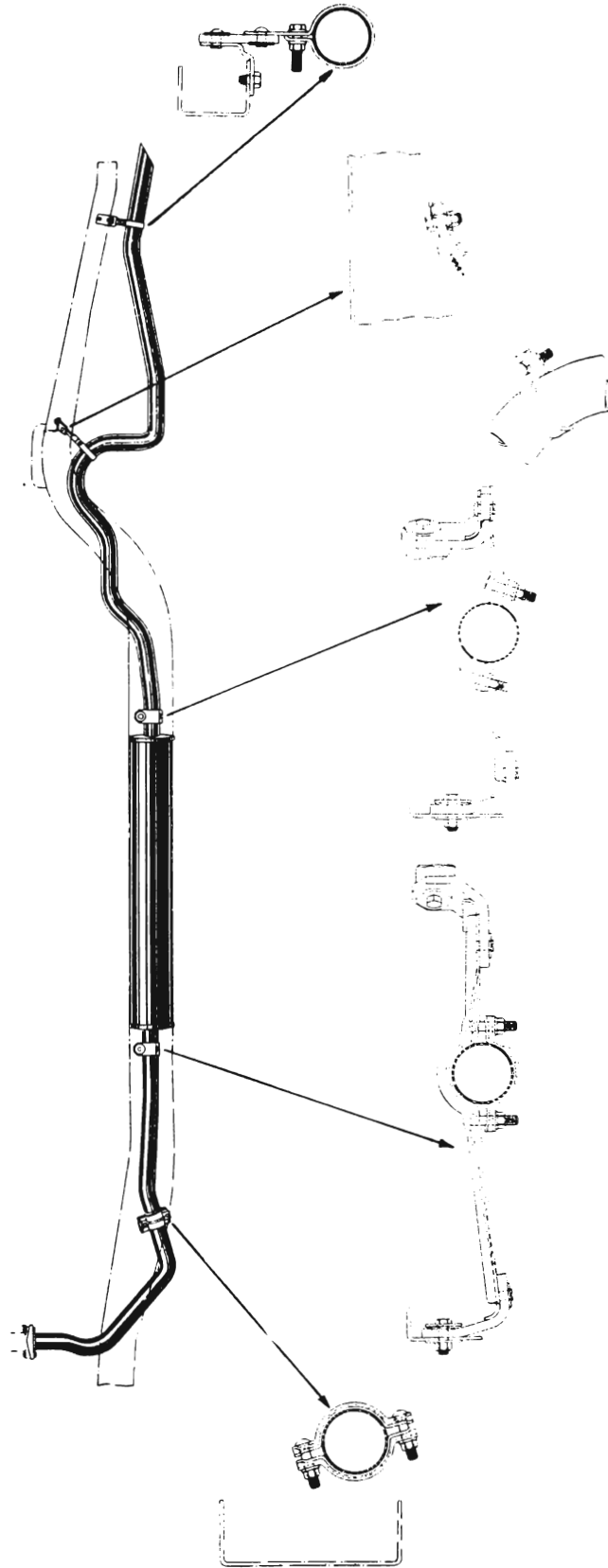


Fig. 8-3. Exhaust System Mountings—Series 40, Single Carburetor

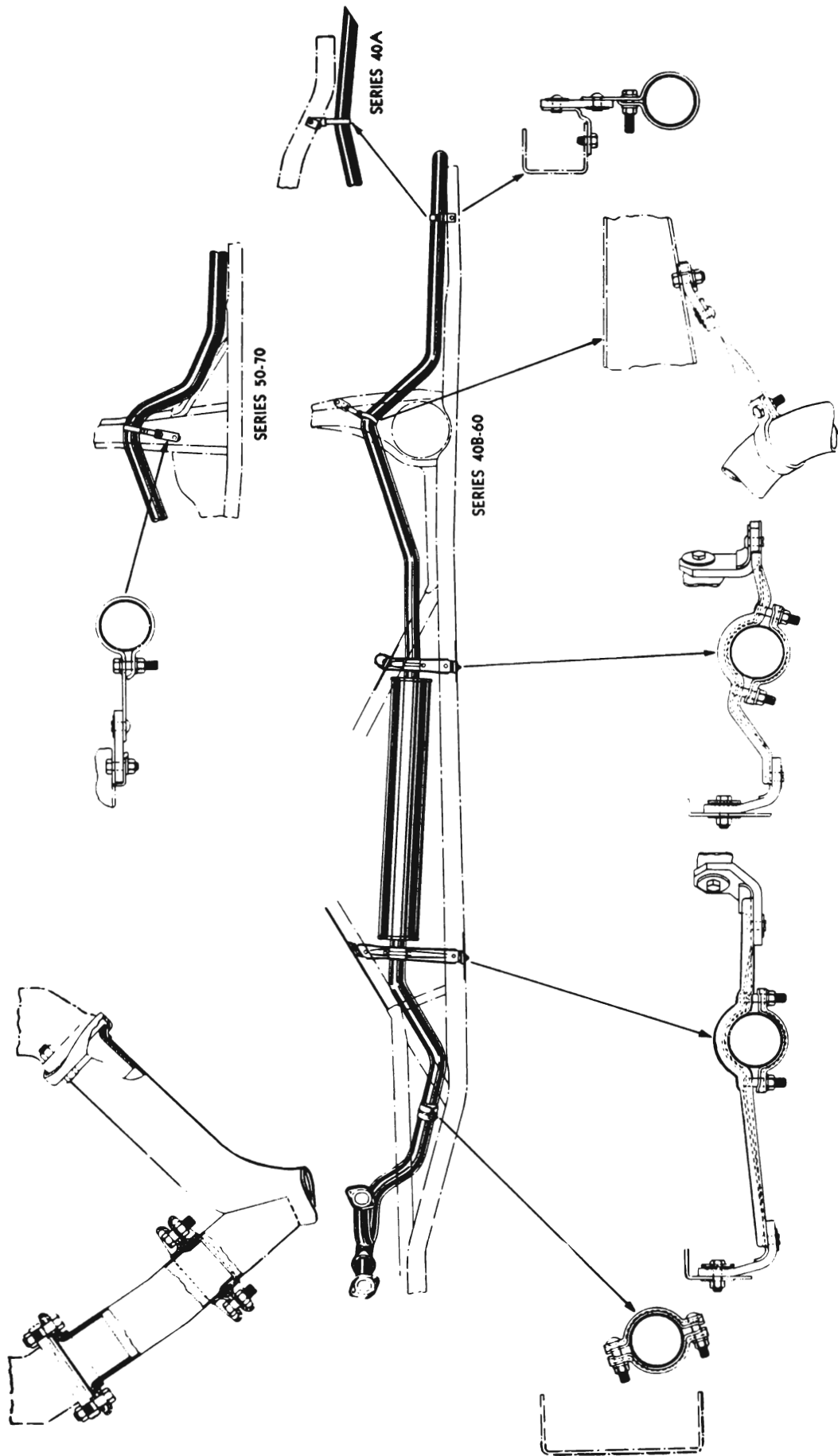


Fig. 8-4. Exhaust System Mountings—Compound Carburetion, All Series

“Front” is stamped on one end of the outer shell and indicates that end should be installed toward the front of the car. The drain hole in the shell should always be located at the bottom.

There should be a minimum clearance of 1” between the tail pipe and the rear seat pan at the closest point.

EXHAUST PIPE — COMPOUND CARBURETION

The exhaust pipe is of dual type at front. The front section fastens to the rear section just below alignment flange. Installation is made by loosely assembling flanges in place with bolts and gaskets. See Fig. 8-5.

Special gasket used at the alignment flange should be installed with side which has longest taper down.

Unless assembled or installed as outlined below, failure of parts may occur or exhaust leaks may develop.

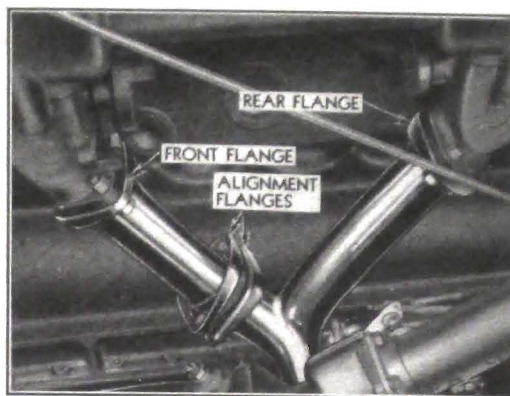


Fig. 8-5. Exhaust Pipe—Compound Carburetion

1. Tighten rear flange to rear section of the exhaust manifold.
2. Tighten exhaust pipe in muffler and pipe joint.
3. Tighten front flange to front section of exhaust manifold.
4. Tighten flanges at alignment joint.

SPECIFICATIONS—FUEL TANK AND EXHAUST SYSTEM

ITEMS	SERIES 40-A	SERIES 40-B	SERIES 50	SERIES 60	SERIES 70	SERIES 90
FUEL SYSTEM						
FUEL TANK						
• Make	Own	Own	Own	Own	Own	Own
• Size—Length Over Flange	31 1/8"	31 1/8"	31 1/8"	31 1/8"	31 1/8"	31 1/8"
• Size—Height	7 5/16"	7 5/16"	7 5/16"	7 5/16"	7 5/16"	8 1/16"
• Size—Width Over Flange	26 5/8"	26 5/8"	26 5/8"	26 5/8"	26 5/8"	26 5/8"
• Capacity (gals.)	19	19	19	19	19	22
FUEL GAUGE						
• Make	AC	AC	AC	AC	AC	AC
• Type	Electric	Electric	Electric	Electric	Electric	Electric
FRONT EXHAUST PIPE						
• O.D.	2"*	2"*	2 1/4"	2 1/4"	2 1/4"	2 1/4"
• Gauge	.065"	.065"	.065"	.065"	.065"	.065"
• *Exhaust Pipe O.D. with Compound Carburetion	2 1/4"	2 1/2"				
REAR EXHAUST PIPE						
• O.D.	2"*	2"*	2 1/4"	2 1/4"	2 1/4"	2 1/4"
• Gauge	.042"	.042"	.048"	.048"	.048"	.048"
MUFFLER						
• Type	←		Straight Through		Resonance Type →	
• O.D.	5 9/16"	5 9/16"	5 9/16"	5 9/16"	5 9/16"	5 1/16"
• Length	37 3/8"	37 3/8"	37 3/8"	37 3/8"	37 3/8"	48"
TAIL PIPE						
• O.D.	2"	2"	2"	2"	2"	2"
• Gauge	.042"	.042"	.042"	.042"	.042"	.048"
• *Exhaust Pipe O.D. with Compound Carburetion	2 1/4"	2 1/4"				