#8BA-17508 1949-50 Ford Car (except wagon)) Electric Windshield Wiper Installation

THIS KIT WORKS WITH 12 VOLT - NEGATIVE GROUND SYSTEMS ONLY.

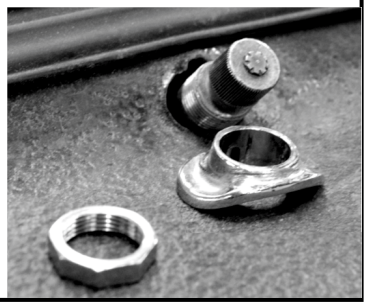
Electric Windshield Wiper Kit Includes:

- 12V Electric Motor with Motor Tail Bracket
- 2-Speed, 12V Switch and Knob
- Power Wire with 20 Amp Inline Fuse
- Wiper Motor to Dash Support Brackets
- Bolt and Nut Hardware
- Chrome Switch Bezel Nut
- Rubber Grommets with Inserts

Note: A wiper switch bezel is not included in the kit. The original switch bezel must be used to complete the installation.
Dennis Carpenter offers bezel 0L-11580 if one is needed.

1

Remove windshield wiper arms, nuts and bezels.



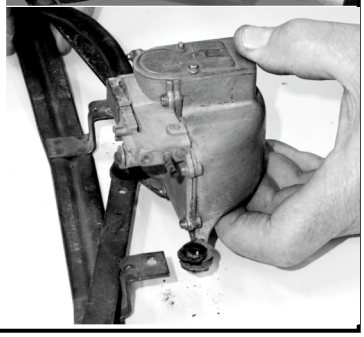
2

Disconnect the vacuum line from the vacuum motor.
NOTE: THE VACUUM LINE MUST BE PLUGGED AFTER IT HAS BEEN DISCONNECTED FROM THE VACUUM MOTOR.

Remove complete vacuum windshield wiper assembly. This includes wiper pivot mechanisms, wiper transmission arms and vacuum motor.

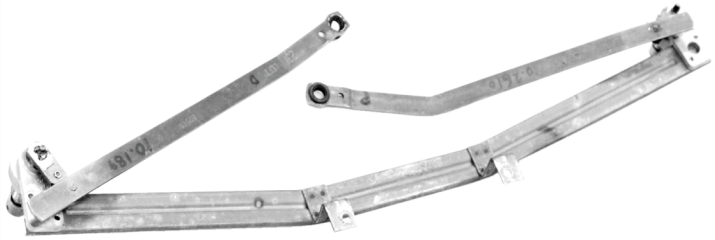
3

Remove the two screws that hold the vacuum motor onto the wiper assembly.



4

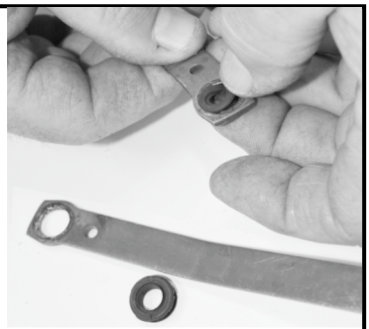
Remove the two clips that hold the transmission arms to the vacuum motor.



The transmission arm assembly should look like this after removal.

5

Remove the old grommets from the transmission arms.



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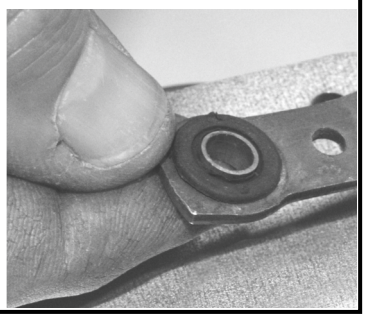
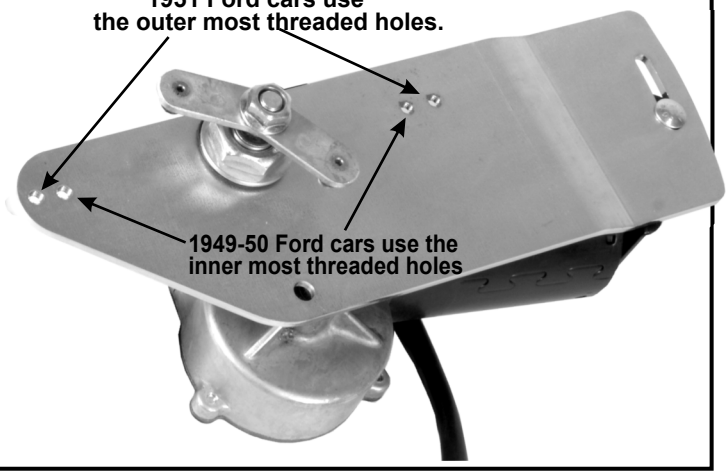
Install the new rubber grommets into the transmission arms. Once the grommets are secured into the arms, insert the metal bushings into the center hole of each grommet.



7

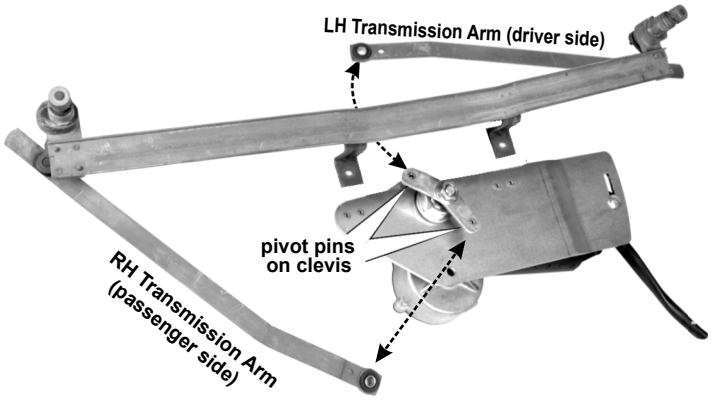
The windshield wiper motor tail bracket was designed to work with 1949-50 and 1951 Ford cars. The difference being the distance between the threaded mounting holes.



8

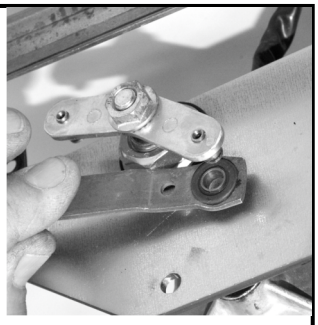
Attaching Wiper Transmission Arms To Motor Assembly

It is IMPORTANT that the LH and RH transmission arms are attached to the correct pivot pins on the clevis. The LH arm will attach to the upper most pivot. The RH arm will attach to the lower pivot.

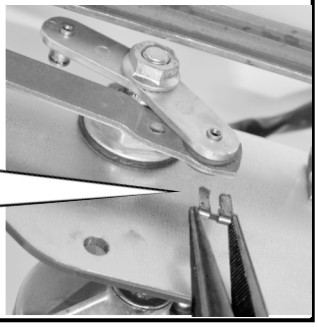


9

Attach the right hand (RH) transmission arm with grommet onto the lower pivot pin on the clevis.



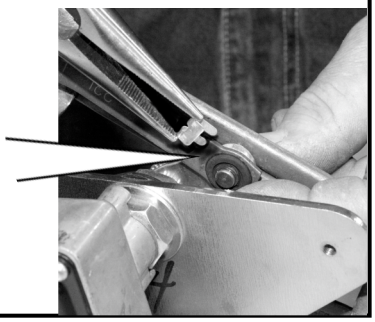
With needle nose pliers, install the retaining clip to hold the transmission arm onto the clevis.



10

Attach the left hand (LH) transmission arm with grommet onto the upper pivot pin on the clevis.

Install the retaining clip to hold the transmission arm onto the clevis.



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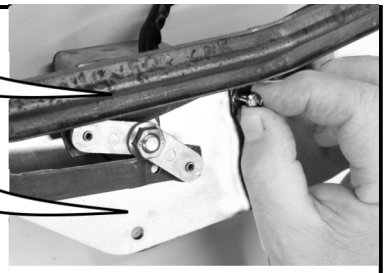
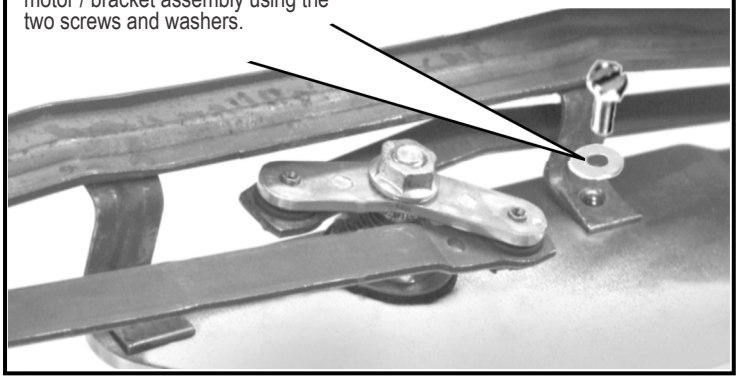


Attach and secure the wiper transmission assembly to the motor / bracket assembly using the two screws and washers.



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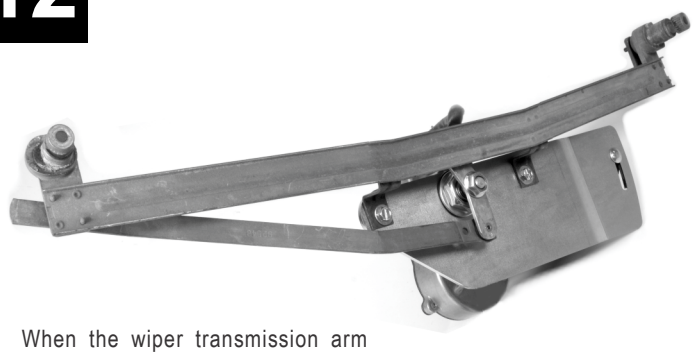
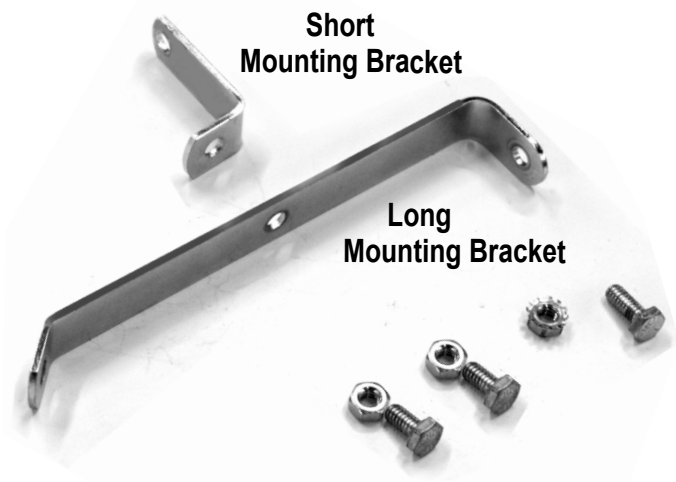


When the wiper transmission arm assembly is secured to the wiper motor bracket it will look like this.

13

There are two mounting brackets along with three bolts and nuts that attach the motor / wiper arms assembly to the cowl.



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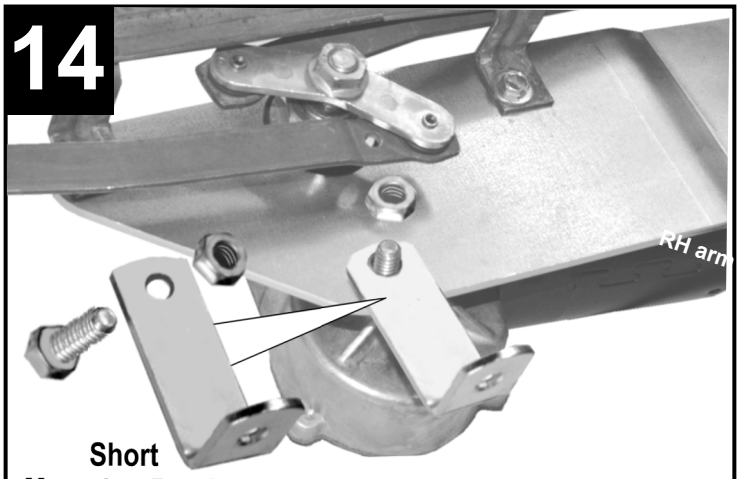

Short Mounting Bracket

Bolt the short mounting bracket to the motor / wiper arm assembly as illustrated. Note that the bolt is inserted through the hole from the motor outward.

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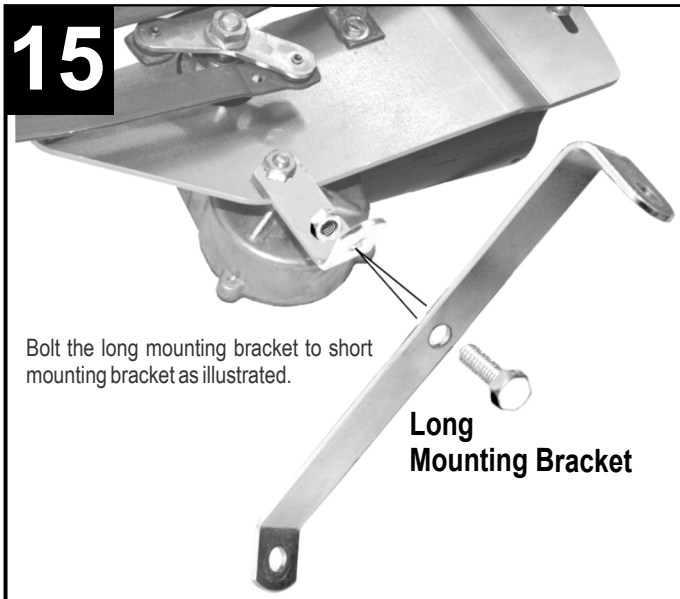

Bolt the long mounting bracket to short mounting bracket as illustrated.

Long Mounting Bracket

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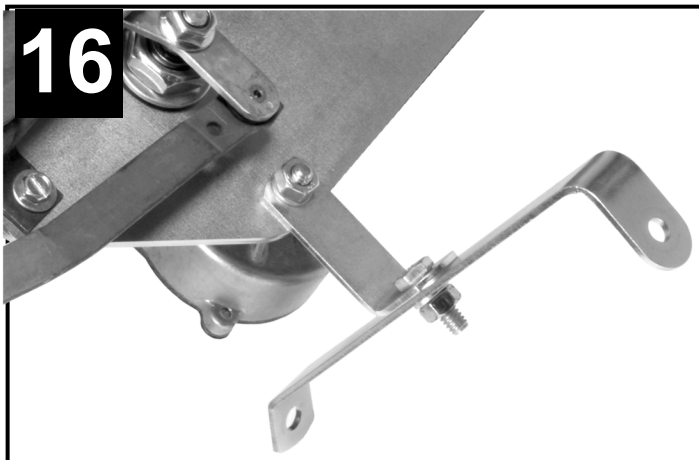
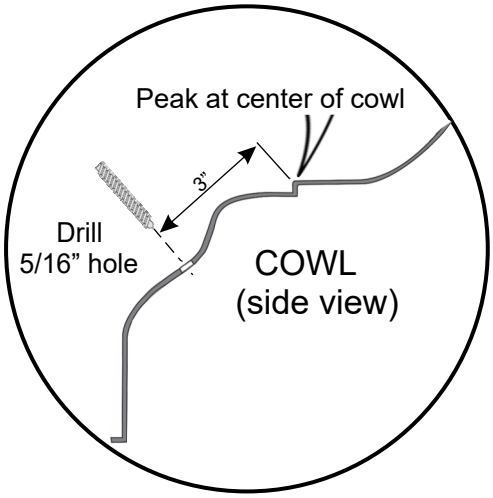
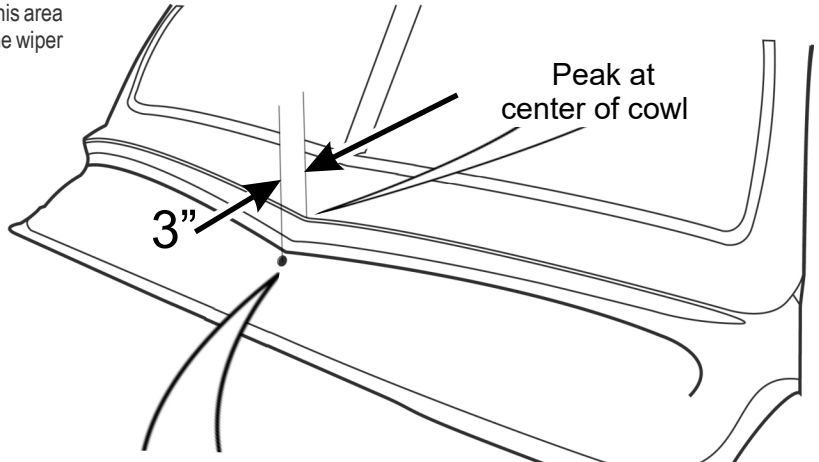


With the motor mounting brackets attached to the wiper transmission arm assembly, it looks like this.

17

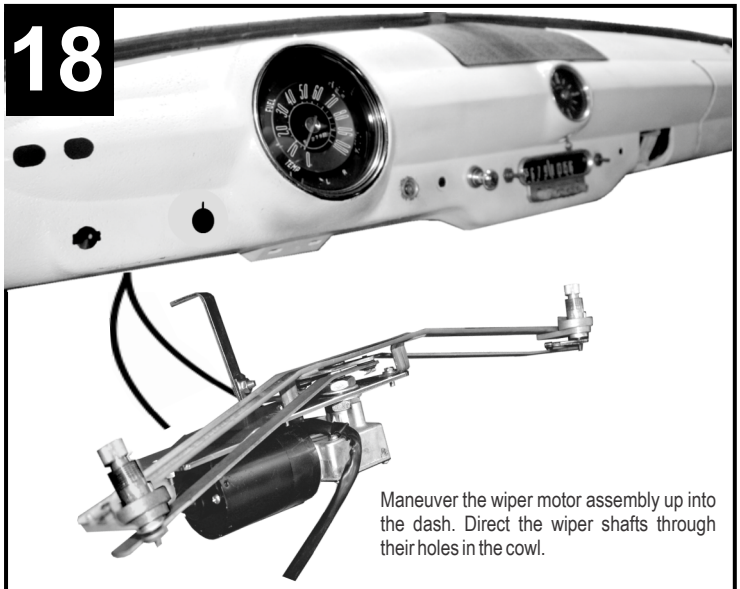
NOTE: Some 1949-51 Ford cars do not have a hole located in this area on the cowl so one must be drilled to accept the bolt to secure the wiper motor assembly to the cowl.





Drill 5/16" (.310) hole into cowl if applicable.

18



Maneuver the wiper motor assembly up into the dash. Direct the wiper shafts through their holes in the cowl.

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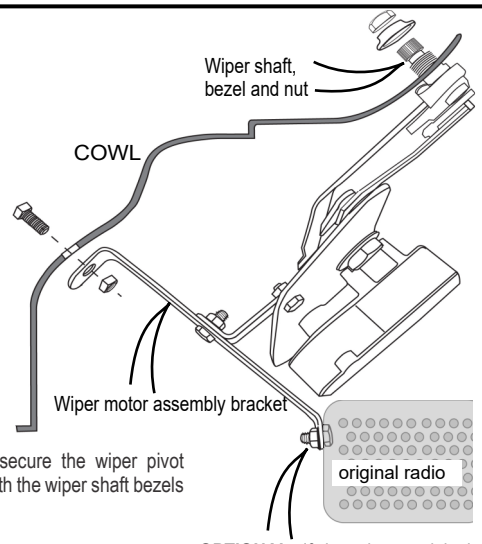


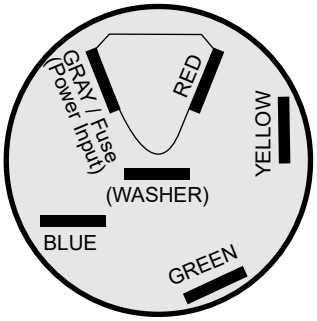
From the outside, secure the wiper pivot shafts to the cowl with the wiper shaft bezels and nuts.

Insert the bolt through the 5/16" hole in the cowl and secure the wiper motor assembly bracket to the cowl with the nut.

OPTIONAL: If there is an original radio in place, the wiper motor bracket can be secured to the radio housing for additional support, though it is not required.

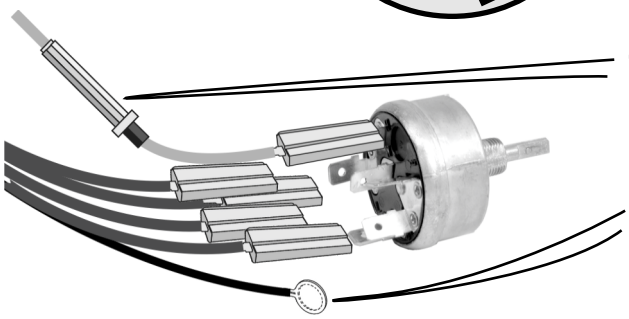
20

Switch Terminals on back of switch



Connect Wiper Motor To Switch

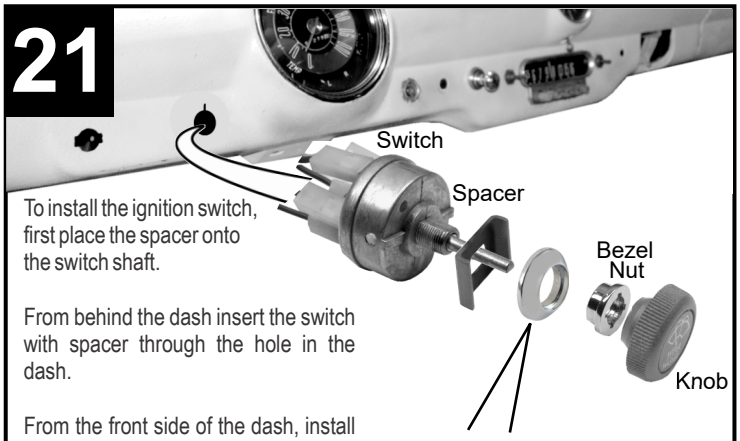
Connect the colored wires from the ignition switch harness to the terminals on the back of the ignition switch according to the diagram on the left.



The gray wire with the fuse holder is the power input wire. It connects to the ACC terminal on the ignition switch.

The black wire from the harness is the ground. It connects to any metal section within reach behind the dash.

21



To install the ignition switch, first place the spacer onto the switch shaft.

From behind the dash insert the switch with spacer through the hole in the dash.

From the front side of the dash, install the original ignition switch bezel, then thread the bezel nut to the switch shaft and tighten.

Install the knob onto the shaft.

NOTE: The ignition switch bezel is not included in the wiper motor kit. The original bezel must be used.

(Dennis Carpenter offers bezel 0L-11580 if one is needed)

22 Test Wiper Blades Position

Be sure that the power wire has been properly connected to the ignition switch, the ground wire has been securely attached to the dash and that all wires from the electric motor have been correctly attached to the switch assembly according to the **Switch Terminals** diagram.

Turn the switch on then quickly off. Observe if the wiper blades come to rest at the base of the windshield. (Park Position)

If the wiper arms do not come to rest at the Park Position after the wipers have been turned off, pull the windshield wiper arms off of their shafts and reinstall them so that the wiper blades are resting at the base of the windshield.

Turn the switch on then quickly off again to verify that the wipers come to rest at Park Position.