

CAE PERFORMANCE PRODUCTS

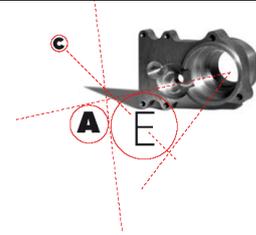
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WM-CHEV-57-C/D

CUSTOMER INSTRUCTIONS

CHEV 1957 Cable Wiper Kit Component List

Wiper Motor Assembly with Flexible Drive Cable 100 Deg Sweep x 1200mm Cable

Wiper Mounting Bracket, U Clamp and Rubber, Nuts and Screws.

Two Wheel boxes fitted with original modified bezels.

Wiring Loom, Switch and In Line Fuse.

Customer Instruction Sheet

Fitting Instructions

1957 RHD Chev Cable Drive Wiper Kit

- 1 Prepare car by removing the old wipers, posts and the old wiper post support brackets each side of the posts. This is best done with a 4" Angle grinder working thru the LH & RH dashboard humps. On some cars it is necessary to grind about 5-6mm of the bottom of the seam that joins the dash panel to the cowl panel in order to slide the wheelbox up into the post holes. Check Picture on page 8
- 2 Wheelbox's are loosely assembled with the lock nut fitted first followed by the Original modified Escutcheon and then the outer nut. 57 Chev wipers both wipe to the centre of the screen at the same time. To get this action the cable must pass through the Top of the left wiper pivot and through the Bottom of the right wiper pivot. The pivots come assembled, but you must check them to ensure correct assembly. The original Escutcheon have 'L' and 'R' markings check the left Escutcheon when fitted the cable will pass through the top of it and opposite for the right. (check image for more details) When satisfied with the arrangement tighten the bottom lock nut on each pivot, apply sealant to bezel to prevent water from coming in to car and fit. Check the alignment of the pipes is straight and will have smooth path. Check picture on page 3.
- 3 Fit the first tube (95mm supplied) to the motor with the brass connecting nut. The second tube (910mm supplied) must be cut and bent to requirements. The second tube is flared one end. So position under dash and bend to suit your requirements align the flare with the left wheel box and mark the other end to cut to length. Allow 5-7 mm extra for the flare and cut to size. Flare the end with a pipe flaring tool then fit. Next fit the end tube (120mm supplied flanged 1 end)
- 4 Grease with suitable wheel grease or silicon grease the entire flexible cable, then feed the Flexible cable thru the first wheel box, support the wiper motor and the first tube while you mount the first tube into the wheel box and mount the wiper motor bracket to vehicle and the wiper motor to its bracket. **DO NOT STRAIN THE WIPER FIRST TUBE IN ANY WAY.**
(If the Tubes get any kinks or dents in them they must be replaced or the wiper motor can be seriously damaged.)
- 5 Fit 2-speed switch in appropriate hole and install wiring loom supplied.
- 6 Connect Black wire to suitable earth location on the vehicle.
- 7 Connect Red v+ feed wire with Fuse supplied to suitable Ignition Feed Wire on Ignition Switch of vehicle. Activate the wiper motor and check for smoothness of operation. Tighten all wheel boxes cover plates.
Retest wiper operation.
- 8 Fit original arm or new wiper arm and blades in the park position
- 9 Activate power and check wipers for sweep and all body clearances.

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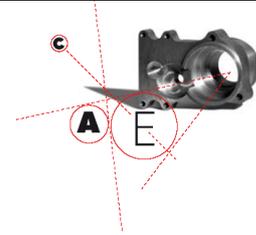
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Windscreen Wiper Systems ----- Some useful hints.

1. Motor

The Wiper motor is 2 speed with self parking.

Make sure you use the correct bracket and strap with the rubber covering, and the motor is not touching any part of the vehicle body to eliminate noise.

2. Drive Gear

When the new motor arrives there is a threaded brass ferrule to take the first drive tube. There are a couple of gears to fit this motor with the number 100 or 130 which is stamped on the top round plate. This is giving the least amount of travel to the rack and wiper arms.

On the top of the gear plate where the number is stamped there is a drive peg welded in position. This is the only item which changes position throughout all the gears (e.g. welded in different positions on the top plate.). Obviously if this peg was welded to the centre of the plate there would be no travel at all, so the further the peg is positioned to the outer edge of the plate the more travel you get. With each gear come 2 washers and a circlip retains the gear in to the motor, always pack with grease in the gear area before refitting the top cover.

3. Wheel Boxes

The wheel box size is 32 teeth on the inner drive wheel and the length of shaft from the inner face to the end of the knurl is 2.5 inches.(64mm) This is the same length as the original posts and allows for the variation thickness of material on some cars. Post length can be adjusted shorter by adjusting the brass nut on each post.

The 57 Chev has the clapped hands centre parking system. This is achieved by turning the L.H. side wheel box through 180 degrees. The Chev has the passenger side wheel box with its tubing and spiral drive running over the top of the wheelbox gear and the drivers side wheelbox has its tubing and spiral drive running on the bottom of the wheelbox gear.

4. Drive Rack

When fitting a new system as an original replacement, it is advisable to fit a new drive rack as this is one of the items that wears, resulting in the wiper arms having too much play.

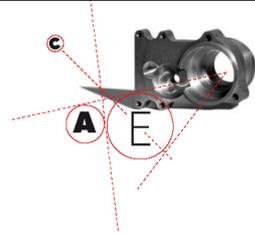
5. Drive or "Bundy" Tubing Sets

It is far better to use the recommended wiper tubing (5/16 Steel Brake Tube) supplied, rather than to use copper tube as this can be noisy and wears very quickly on any bends. Wear of the drive tube, sharp bends or kinks in the tube, causes friction that can lead to the motor burning out.

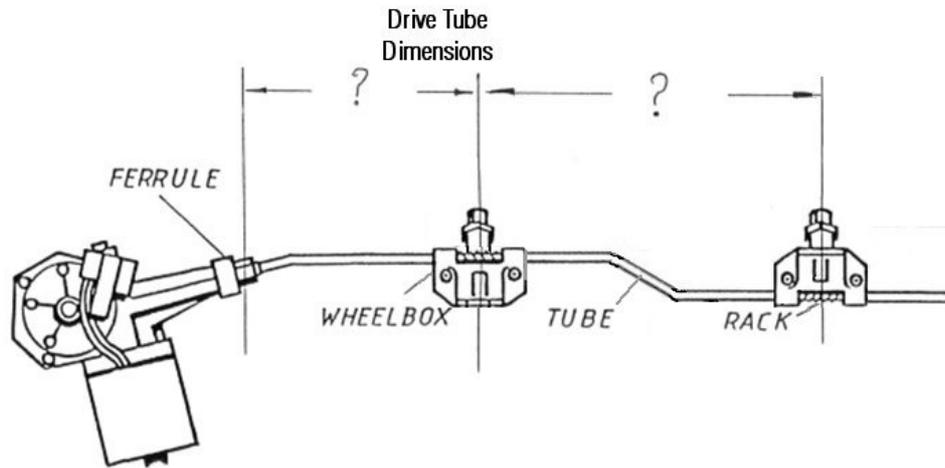
Bundy tube sets can be made up providing you give the supplier 2 dimensions. The first is the distance from the motor to the centre of the first wheel box hole, and the second the distance between the wheel box hole centres through the bulkhead. Try to avoid sharp bends in the tubing, If you have to bend the Bundy tube, an easy way to form the shape is to insert the drive rack into the tube before bending. This will keep the tube the correct diameter on any of the bends (very much like a plumber bends copper piping by inserting the spring). Always grease the rack liberally before inserting into the Bundy tube.

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To have centred parking, as was on the original 1957 Chev, the L.H. side (passengers) wheel box is fitted with Bundy tubing running to the top of the wheel box. I.E. The wheel box is fitted upside down I.E turned 180 degrees. The R.H. Wheelbox has the tubing and drive cable running on the bottom of the wheelbox gear. i.e 180 degrees to the position of the L.H. side. For L.H. Drive vehicles the wheelboxes and wiper motor mounting is completely opposite to the above instructions.

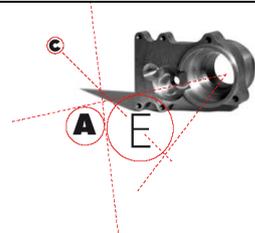
6. Switch

It is important that you use the correct wiper 2-speed switch as supplied. The reason for this is that when the switch is in the off position with the ignition switched on there is one connection which becomes live. This operates the parking position. If you use a non-live switch then the wipers would stop whenever the switch was switched off.

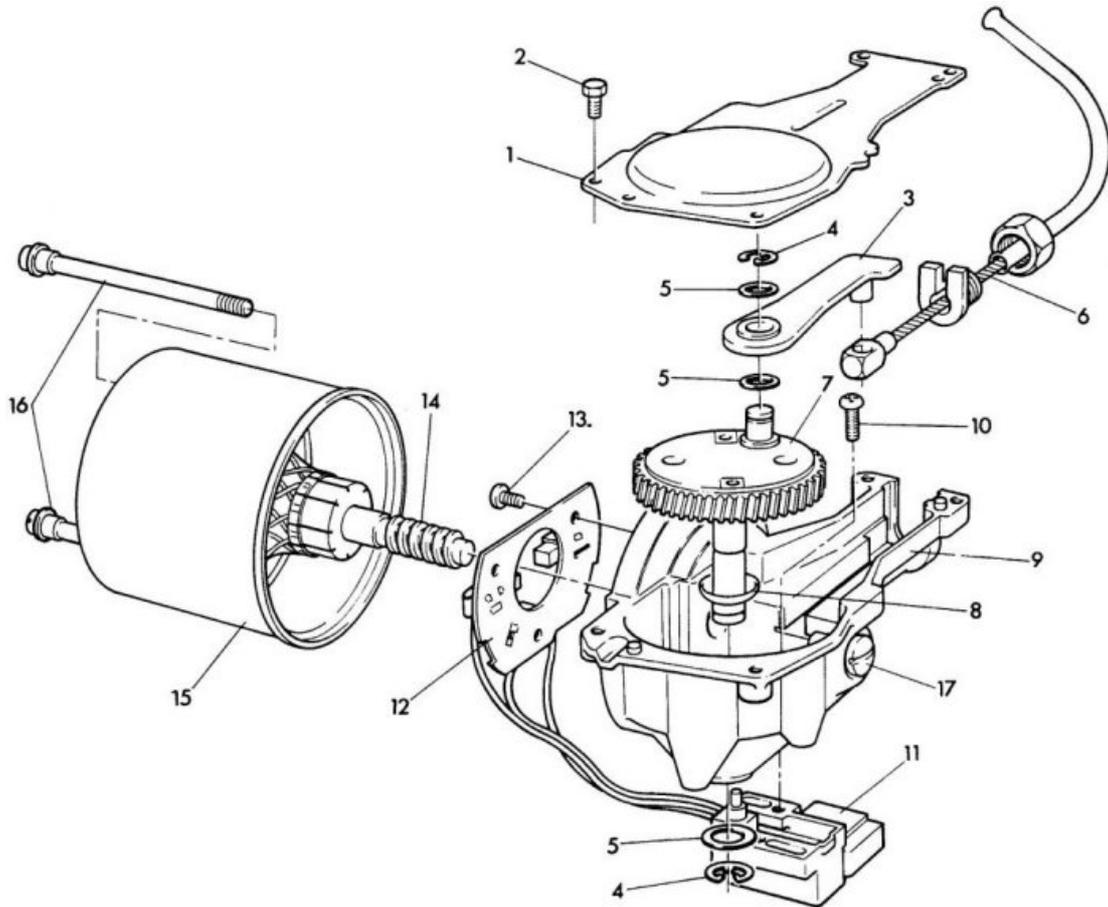
If purchasing a second hand motor make sure there are 3 wires going into the motor body. This is the way to tell if the motor is 2-speed, 1 speed only has 2 wires.

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KEY:

- | | | |
|------------------------|----------------------------|----------------------|
| 1 Gearbox cover | 7 Gear wheel with crankpin | 13 Screw for brushes |
| 2 Screw for cover | 8 Dished washer | 14 Armature |
| 3 Connecting Rod | 9 Gearbox | 15 Yoke |
| 4 Circlip | 10 Limit switch screw | 16 Bolts |
| 5 Washers | 11 Limit switch | 17 Thrust screw |
| 6 Flexible wiper drive | 12 Brush gear | |



WIPER KITS

Made to your requirements

Price \$550.00 inc gst



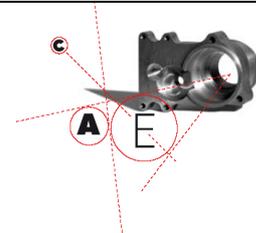
WASHER KIT ASSEMBLY 1.2

LITRES

Bottle & pump assembly,
 mounting bracket,
 push button switch,
 tube & a twin Jet.

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WINDSCREEN WASH PUMP

Drive Tube (correct material) Cut & flared.

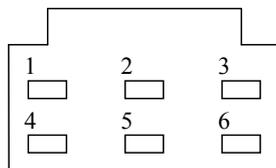
No Charge

Wheelboxes Pt No 72889

32 tooth gear wheel.3 1/4 inch drive shaft.

Wiper Motor Pin Outs.

Plugs viewed from the front not the wiring side



- 1) Black (Earth)
- 2) Green/Red (Low)
- 3) Blue/Red (Park)
- 4) Blank
- 5) Yellow/Blue (High)
- 6) Green/White (+ve)

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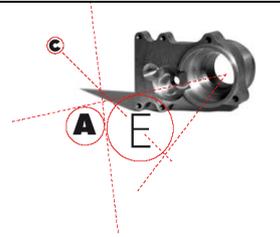
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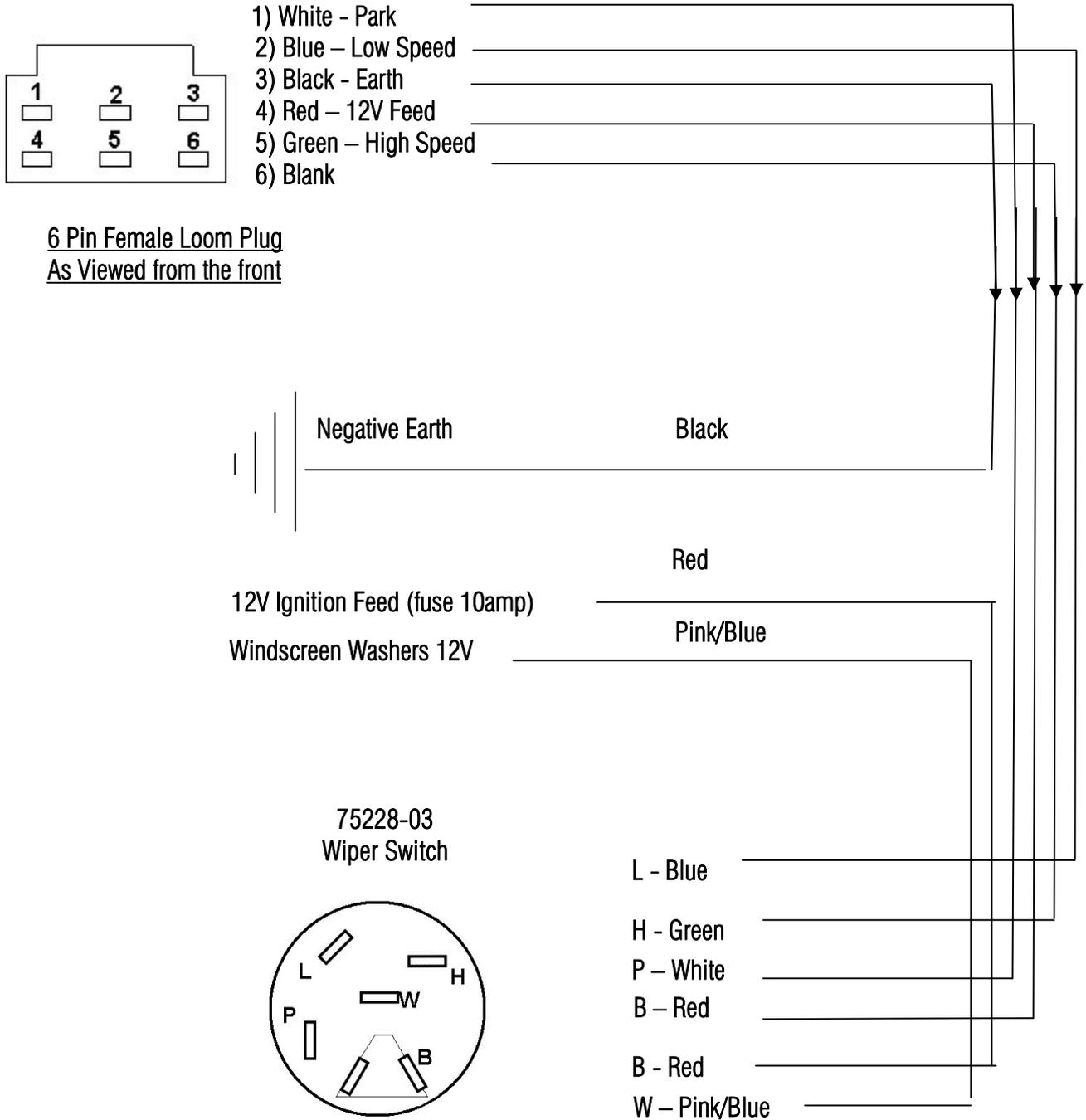
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WIPER MOTOR LOOM PINOUTS



Wiper switch system is 12V Positive Feed

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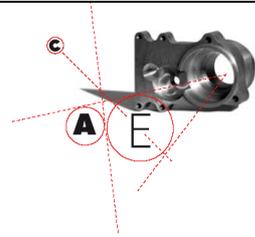
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