INSTALLATION INSTRUCTIONS

GM Delay Module – Part Number 13047
GM 1978-1983

Thank you for your purchase of this delay module. This module replaces the obsolete GM factory delay module part numbers 14056557 and 15598419.

Parts Included in this Kit

1-Controller Unit 2-zip ties

Items you may need for installation

Super glue or equivalent De-pinning tool RTV Sealant

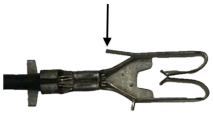
Installation Options

1-Remove and replace an existing factory module – This is the preferred option. You will need to de-pin the two factory connector housings and insert the wires from the new module in the correct locations. This allows you plug-and-play operation and it is easy to replace the switch if it goes bad.

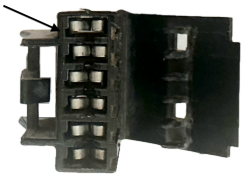
2-installation without the use of connectors. You will need to glue the terminals to the correct locations on your switch. This process takes a little more time but leaves little room for error and errors are difficult to fix. It is also difficult to replace a switch that goes bad.

Installation Option 1
Remove and replace an existing factory delay module

1. Remove the factory module from the vehicle – this should be an easy process of unplugging the module from the harness and unplugging the module connectors from the switch. Note that there is a locking clip which needs to squeezed in order to remove the connector from the switch.
2. De-pinning and re-pinning the connector housings.



Retention Tang



Access Port Location

Depinning tool
Inserted into port

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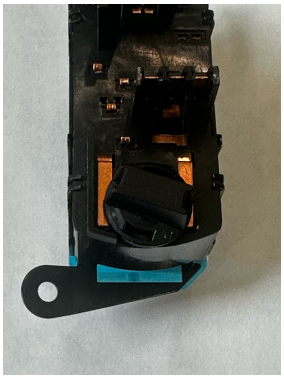
Starting with the small, three-pin connector, note that the housing locations are marked H K L. Use a depinning tool, sharp pick or paperclip to carefully remove the Orange wire terminal from location K. Depinning tool GM12094429 works well and is available on Amazon and other places but there are universal tools and even a paperclip can work in a pinch. Remove the terminal and replace with the new Orange wire. Next replace the white and green wires in holes J and H, removing the old wire and inserting the new, one at a time. The new terminals will make an audible "click" when inserted correctly and completely.

3. Next do the 6-pin connector. Note that the connector housing has the hole locations marked A B C D E F. Starting with A and using the same technique you used with the small connector, remove the old terminal and insert the new Gray wire. Next do B, inserting the new Brown wire. Continue down the housing, one terminal at a time, removing the old wire and replacing with the new. When finished, your connector should be pinned as such: A-Gray, B-Brown, C-Purple, D-Light Blue, E-Black, F-Dark Blue.
4. With the connectors transferred to the new module, you can connect them to the switch and plug the module into the factory harness. Because the new module does not have a locking tab for the factory harness, you may want to use a zip tie to wrap around the module and harness connector to keep them from separating.
5. Now install the new module assembly in place just as you would with the factory module. You can use the included zip ties to hold it in position if necessary.
6. Route the 36" Red wire to the fuse box, cut to length and crimp the male terminal to the end. Insert into a socket labeled "Ignition" or "IGN" – this port is a switched 12v connection point. Alternatively you can use the supplied T-Tap to tap into another switched 12v line and insert the male terminal to the T-Tap.

Installation Option 2
Glue the wires to your switch housing

This is not the preferred method – you should only do this if you absolutely do not have a factory module to cannibalize the connector housings from. If your switch is bad or goes bad over time, it will be very difficult to remove the wires from the switch – because of this, we recommend you also install a new, high-quality switch at the same time you do this install.

1. Remove the switch from the dash. If you are unsure how to do this, there are numerous videos on the internet.
2. Start with the three-pin connector in the middle of the switch. Note that it is offset to one side of the switch.



3. Doing the Orange wire first, put a drop of super glue on one side of the metal tab (see figure) and slide the orange wire terminal into position. Allow it to sit for a couple of minutes so that it sets up and will not move as you work on the next wire.

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4. Next, attach the White wire to the middle tab. Put a drop of super-glue on ONLY ONE side of the tab, slide the white wire terminal into position and let it set up for a couple of minutes.
5. Now do the Green wire using the same technique as the other two wires and let it set up for a couple of minutes.

6. With the 3-pin connector complete, let's move to the 6-pin connector. Looking at the metal tabs, note that there is a gap separating two tabs from the other four. You should see two tabs, a gap, and four tabs. We will start with the tab furthest to the edge, on the end with the two tabs. Put a drop of super-glue on the PLASTIC SIDE of the tab and slide the Gray wire into position. Make sure the wire terminal is centered on the metal tab and not leaning to one side or the other. Let the connection set up for a couple of minutes so the wire does not shift as you move to the next wire.

7. Using the same technique, put a drop of super-glue on the plastic side of the next tab and slide the Brown wire terminal into position. Adjust it so it is centered on the tab and not leaning to one side or the other. Again, let the connection set up for a couple of minutes until the wire does not shift when bumped.
8. Continue down the row, putting a drop of super glue on the plastic side of the tab and sliding the wire terminal into position and letting it set up; Purple, Light Blue, Black, and Dark Blue, one at a time.
9. When complete, your 6-pin connection should be pinned as such: Gray, Brown, <Gap>, Purple, Light Blue, Black, Dark Blue.
10. If you do make a mistake, you can use isopropyl alcohol (rubbing alcohol) to dissolve the super-glue. We recommend using a Q-tip to better control application of the alcohol. Also, you will need to use at least 91% rubbing alcohol (the 70% version is just not enough). Be careful where you drip the alcohol because it can damage many substances, including paint.
11. You should now take a moment connect the module/switch assembly to the factory harness and test the setup to make sure all connections are good and everything is working as expected.
12. Once you are sure the connections are correct, we recommend using some RTV along the crimped part of the terminals to keep the wires/terminals from moving around and shorting to one another.
13. You can now install the switch into the dash.

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14. Route the 36” Red wire to the fuse box, cut to length and crimp the male terminal to the end. Insert into a socket labeled “Ignition” or “IGN” – this port is a switched 12v connection point. Alternatively you can use the supplied T-Tap to tap into another switched 12v line and insert the male terminal to the T-Tap.

Operation

Your new delay module will operate the same as the factory delay module. When the switch is in the delay position (first position to the right of Off), you can rotate the knob to change the delay from about 1-swipe-per-30-seconds to about 1-swipe-per-3-seconds.
Moving the switch one more position to the right will give you continuous-slow speed and one more click to the right will give continuous-fast speed.
From the Off position (furthest stable position to the left), if you push the knob to the left, you will get a single swipe of the windshield wipers.

Troubleshooting

There are 9 connections to the switch and then 6 connections to the factory harness which must be correct for this module to operate properly.

Intermittent mode not working – make sure the washer motor is good and plugged in securely. Make sure there is a good Ground connection on the Black wire
In delay mode – wipers stopping mid-way or only going a few inches with each delay – make sure the Black and Brown wires have good connections.
Fast-continuous speed not working – make sure the Black and Light Blue wires have good connections.
Slow-continuous speed not working – make sure the Black and Purple wires have good connections.
Washer not working – make sure the Dark Blue and Black wires have good connections. Make sure the washer motor is good and the connector attaches securely.

Warranty:

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