INSTALLATION INSTRUCTIONS

Intermittent Wiper Module – Part Number 13045

Thank you for your purchase of this Intermittent Wiper Module. Adding this module to a factory GM two-speed wiper switch/motor gives you three additional wiper settings: one swipe every eight seconds, once every five seconds, and once every three seconds. This wiper is designed to work with 1978-1983 GM vehicles with two-speed wipers without delay. This module will not work with or replace the factory delay module.

Parts Included in this Kit

1-Controller Unit
2-T-tap
2-zip ties
1-Small crimp ring
2-1/4" male crimp connector
5-Butt Splice connector

Electrical Connections – 1979-1983

Figure 1 summarizes the connections necessary. The installation is done in three steps – 1) connecting power, ground, and the three wires going to the motor; 2) testing the connections; 3) connecting the two wires to the wiper switch.

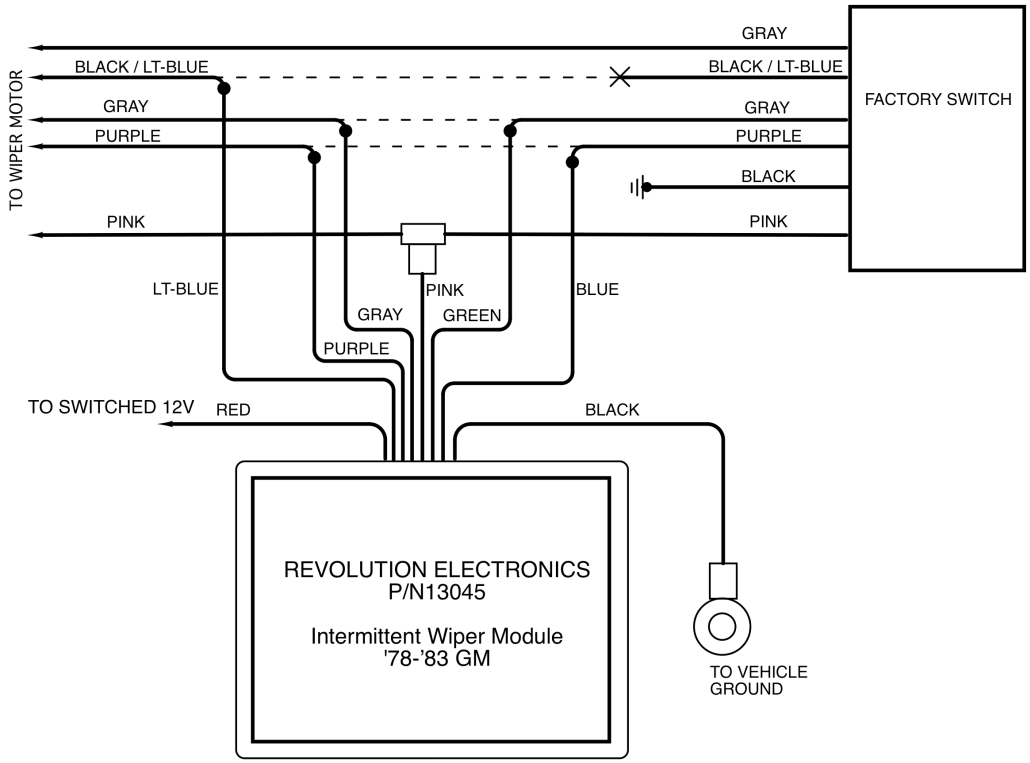

Figure 1 – Wiring for '79-'83 applications

First off, connect to power and ground. Find a source for switched 12v. The module only draws about .1 amps, so there is no concern about it overloading a circuit. Use one of the supplied T-Taps to splice into this line and then connect a male ¼" terminal to the red wire and insert into the T-Tap. Locate a good spot for a ground connection and use the supplied ring terminal to securely connect the module's black wire to ground.

Next, locate the wires going to the wiper switch. It is probably easiest to remove the switch from the dash first. Referring to figure one, you will need to locate the Black/Lt.Blue wire, Purple wire, and the Gray wire. Note that GM reused wire colors and that sometimes the wire stripes are hard to see – make sure you locate the correct Black and Gray wires. Giving yourself plenty of space for stripping the ends of the wires and making crimp connections, cut these three wires. Referring to Figure 1, you can now use the supplied butt connectors to connect the Purple, Gray, and Light Blue wires from the module to the Purple, Gray, and Black/Lt.Blue wires going to the wiper motor (make sure you are connecting to the side going to the motor, not the side going to the switch).

Test your installation progress. Turn power on – the wipers should not activate. Take the green wire from the module and hold it to ground – the wipers should make a complete swipe once every 8 seconds as long as you have the green wire grounded. If you get different results, please stop the installation process and review your connections. Make sure you have clipped the correct wires and made the correct splices as shown in figure 1.

With the testing above complete and correct, you can proceed with connections to the switch. First make sure that power is turned off. Use the supplied butt connectors to attach Green to Gray and Blue to Purple. The factory Black/Lt.Blue wire from the switch will not be connected to anything. Next connect a T-Tap to the factory Pink wire, crimp a male terminal to the module Pink wire and connect to the T-Tap.

You are now ready for a final test. Make sure the wiper switch is in the off position. Turn power on – the wipers should not activate. Move the switch to the low-speed position – the wipers should operate once every 8 seconds. Move the switch to the high-speed position – the wipers should switch to continuous fast speed. Move the switch to the low-speed position and then to the off position.

Electrical Connections – 1978

Figure 2 summarizes the connections necessary. The installation is basically the same as for the '79-'83 but the factory wire colors are different. The installation is done in three steps – 1) connecting power, ground, and the three wires going to the motor; 2) testing the connections; 3) connecting the two wires to the wiper switch.

First off, connect to power and ground. Find a source for switched 12v. The module only draws about .1 amps, so there is no concern about it overloading a circuit. Use one of the supplied T-Taps to splice into this line and then connect a male ¼" terminal to the red wire and insert into the T-Tap. Locate a good spot for a ground connection and use the supplied ring terminal to securely connect the module's black wire to ground.

Next, locate the wires going to the wiper switch. It is probably easiest to remove the switch from the dash first. Referring to figure one, you will need to locate the Black/Lt.Blue wire, Lt.Blue wire, and the Black/White wire. Note that GM reused wire colors and that sometimes the wire stripes are hard to see – make sure you locate the correct wires. Giving yourself plenty of space for stripping the ends of the wires and making crimp connections, cut these three wires. Referring to Figure 1, you can now use the

supplied Butt connectors to connect the Purple, Gray, and Lt.Blue wires from the module to the Lt.Blue, Black/White, and Black/Lt.Blue wires going to the wiper motor (make sure you are connecting to the side going to the motor, not the side going to the switch).

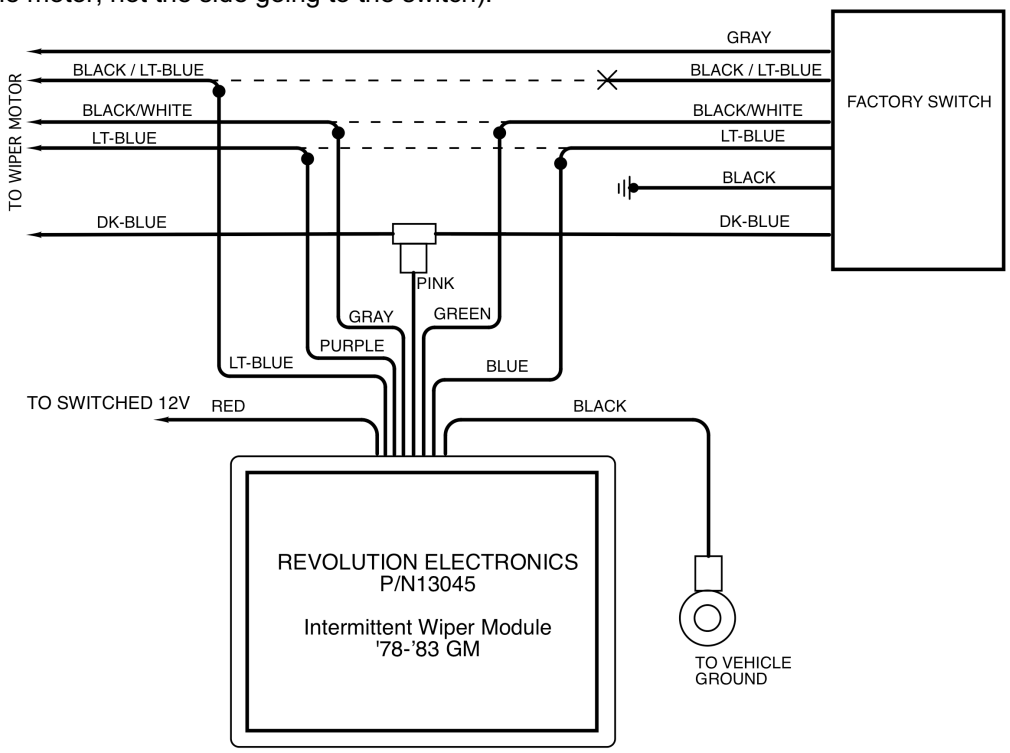

Figure 2 – Wiring for ’78 applications

Test your installation progress. Turn power on – the wipers should not activate. Take the green wire from the module and hold it to ground – the wipers should make a complete swipe once every 8 seconds as long as you have the green wire grounded. If you get different results, please stop the installation process and review your connections. Make sure you have clipped the correct wires and made the correct splices as shown in figure 1.

With the testing above complete and correct, you can proceed with connections to the switch. First make sure that power is turned off. Use the supplied butt connectors to attach Green to Black/White and Blue to Lt.Blue. The factory Black/Lt.Blue wire from the switch will not be connected to anything. Next connect a T-Tap to the factory Dark Blue wire, crimp a male terminal to the module Pink wire and connect to the T-Tap.

You are now ready for a final test. Make sure the wiper switch is in the off position. Turn power on – the wipers should not activate. Move the switch to the low-speed position – the wipers should operate once every 8 seconds. Move the switch to the high-speed position – the wipers should switch to continuous fast speed. Move the switch to the low-speed position and then to the off position.

Mounting the Unit

The Intermittent Wiper Module may be mounted in any location where the electrical connections are not stressed. Use two self-tapping screws, rivets, or zip-ties through the mounting tabs to securely mount the unit under the dash.

Operation

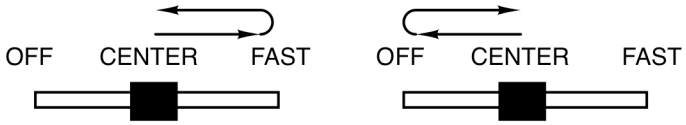

Figure 2: Advancing and delaying the intermittent settings

Cycle from: Off--8sec delay--5sec delay--3sec delay--continuous slow--continuous fast

The factory switch has three positions: off, slow, and fast. The Intermittent Wiper Module uses the factory switch to select between several modes of operation. The off and "fast" positions retain their functions while the "slow" position becomes a "neutral point" in the operation and can be one of many selections. Moving the switch from the "slow" position to the "fast" position and then back to slow (within about a half a second) will advance the operation one selection. Moving the switch from the slow position to the off position and back to the slow position (again within about a half a second) will step back the operation one selection. Within the slow position, you can operate the wipers once every 8 seconds, once every 5 seconds, once every 3 seconds, or continuous stock-slow setting.

When you first turn on the wipers by moving the switch from off to slow, the wipers will start off operating once every 8 seconds. Quickly moving the switch to the fast position and back to the slow position will cause the wipers to operate once every 5 seconds. Repeating this operation again will cause them to operate once every 3 seconds. One more time will advance them to the continuous "stock slow" setting. Just as moving the switch from slow to fast and back will advance one setting, moving the switch from slow to off and back will drop the wipers down one notch. At any time, moving the switch to the fast position and leaving it there will advance the mode directly to the "stock fast" operation. Likewise, moving the switch to the off position and leaving it there will change the mode immediately to off.

If equipped with washer control, pressing the wash button will operate the washer pump as normal. If the wipers are in an intermittent setting when the washer button is pressed, the speed will immediately advance to the "stock slow" setting.

Warranty:

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