

For Vehicles with Digital Systems

The CAM Feedback input is a means for the Rain Tracker model RT-50A to operate correctly on newer vehicles that utilize digital communication between the wiper switch and wiper motor.

Many newer vehicles send digital data from the wiper switch to control the windshield wipers, so you cannot tap into the wiper system coming from the switch. In most of these cases, you can tie into the wiper motor windings at the motor, and use the CAM Feedback input of the RT-50A to insure that the wipers properly return home at the end of each cycle.

Does my vehicle need to use the CAM Feedback input?

Do the vehicle specific instructions found at www.raintracker.com say you need to use the CAM Feedback input?

We have a few newer vehicles in our database and some say you need to use the CAM Feedback input. Some, we just don't know so we have instructions on testing for CAM Feedback use. (See instructions below)

Do the vehicle specific instructions say you have to use some external components for the install (i.e. Resistors)?

If your vehicle requires external components, you do not need to use the CAM Feedback input.

Do the vehicle specific instructions say you have to install the Rain Tracker at the wiper motor?

Sometimes we can't tell from the factory diagram if the wiper switch wires are connected directly to the wiper motor so we say it needs to be installed at the wiper motor. You can test to see if you need to use the CAM Feedback input for these applications by accessing the slow wire at the wiper motor and doing the following: (If you have a Ground Side Switching system, connect the slow wire to GND, not +12V)

- Cut the SLOW wiper motor wire where you would install the Rain Tracker.
- With the vehicle on, momentarily connect the motor side of the SLOW wire to +12V. The wipers should start to wipe, take the wire off +12V while the wipers are in the middle of the windshield, the wipers should stop.
- Restore the SLOW wiper connection by reconnecting the motor side of wire with the switch side.
- If the wipers run back home, you do not need to use the CAM Feedback input. But, if they stop in the middle of the windshield, you will need to connect the cam wire of the wiper motor to the CAM Feedback input on the Rain Tracker module.

What if your vehicle doesn't have specific instructions for Rain Tracker installation?

We've done our best to provide an up to date vehicle database but we may not have specific instructions for newer vehicles. Some vehicles are completely incompatible and are generally documented.

If you do not see your vehicle in our database, in general, if you can access the FAST, SLOW and CAM wires of the wiper motor, the Rain Tracker is compatible. You will need to test the wires for function and use the appropriate diagram below or that comes with the Rain Tracker Kit.

If you do not see your vehicle in the Rain Tracker compatibility database, WE DO NOT HAVE IT. Please do not call us asking for the specific instructions. If you have the diagram of the wiper system and you would like us to take a look at it, please either email it to us at info@oedes.com or fax it to 952-943-1020.

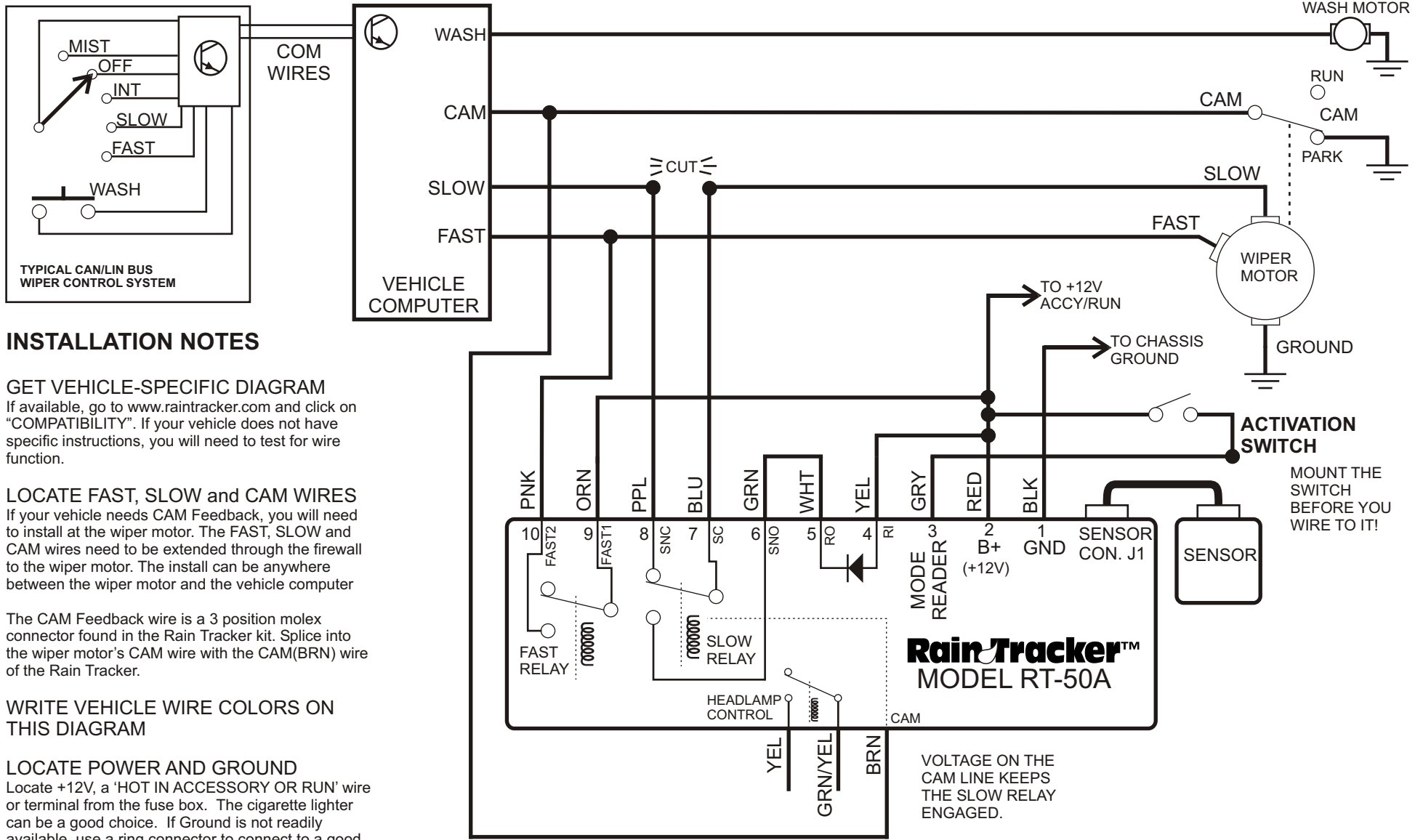
Installing the RT-50A using the CAM Feedback Input

Install the Rain Tracker according to the instructions that are included in the kit. When you get to step 5, use the instructions below. After you have finished installing the interface module, proceed with the instructions in the kit and continue with step 6.

Use the diagrams below to install the Rain Tracker using the CAM Feedback Input. Write the vehicle wire colors on the diagram that corresponds to your vehicle, either Hot-Side switching, HSS or Ground-Side Switching, GSS. (In the HSS system, +12V is applied to the motor SLOW and FAST wires and the motor common is grounded. In the GSS system, the FAST and SLOW wires are grounded while +12V is applied to the motor common.)

The FAST, SLOW and CAM wires need to be installed at the wiper motor. Mount the Rain Tracker Interface Module under the dash and extend the FAST, SLOW and CAM wires through the firewall and to the wiper motor. Find a +12V that is hot in accessory or run and find a chassis ground. For +12V, the cigarette lighter is often a good choice. It can also be used for ground.

Splice the FAST and CAM wires into their appropriate vehicle wires. Cut the SLOW wire and attach the PPL wire to the computer side and the BLU wire to the motor side of the wiper system. Be sure this is done correctly, otherwise the Rain Tracker will not operate correctly.



INSTALLATION NOTES

GET VEHICLE-SPECIFIC DIAGRAM

If available, go to www.raintracker.com and click on "COMPATIBILITY". If your vehicle does not have specific instructions, you will need to test for wire function.

LOCATE FAST, SLOW and CAM WIRES

If your vehicle needs CAM Feedback, you will need to install at the wiper motor. The FAST, SLOW and CAM wires need to be extended through the firewall to the wiper motor. The install can be anywhere between the wiper motor and the vehicle computer

The CAM Feedback wire is a 3 position moxex connector found in the Rain Tracker kit. Splice into the wiper motor's CAM wire with the CAM(BRN) wire of the Rain Tracker.

WRITE VEHICLE WIRE COLORS ON THIS DIAGRAM

LOCATE POWER AND GROUND

Locate +12V, a 'HOT IN ACCESSORY OR RUN' wire or terminal from the fuse box. The cigarette lighter can be a good choice. If Ground is not readily available, use a ring connector to connect to a good chassis ground. Scrape away paint if needed to insure a good ground.

INSTALL ACTIVATION SWITCH BEFORE YOU CONNECT ITS WIRES

Suggestion: use closed-end splice to connect vehicle +12V, Rain Tracker B+ (RED), RI (YEL), fast1 (ORN), and activation switch (GRY) in one connection

CONNECT WIRES AS SHOWN

Cut slow wire as shown, tee into others as shown.

APPLICATIONS

Use this diagram for vehicles that apply +12V to motor slow and fast terminals by way of computer, with motor common connected to ground, and when you can access the terminals. If the Rain Tracker is installed and the wipers stop in the middle of the windshield, use this diagram.

DO NOT USE THIS DIAGRAM IF:

- the wiper control relay is built into the motor assembly (mostly GM)
- the motor common terminal is connected to +12V, use GSS diagram
- the vehicle doesn't need the CAM Feedback input. Use the standard HSS or vehicle specific diagram, or just omit the CAM connection.

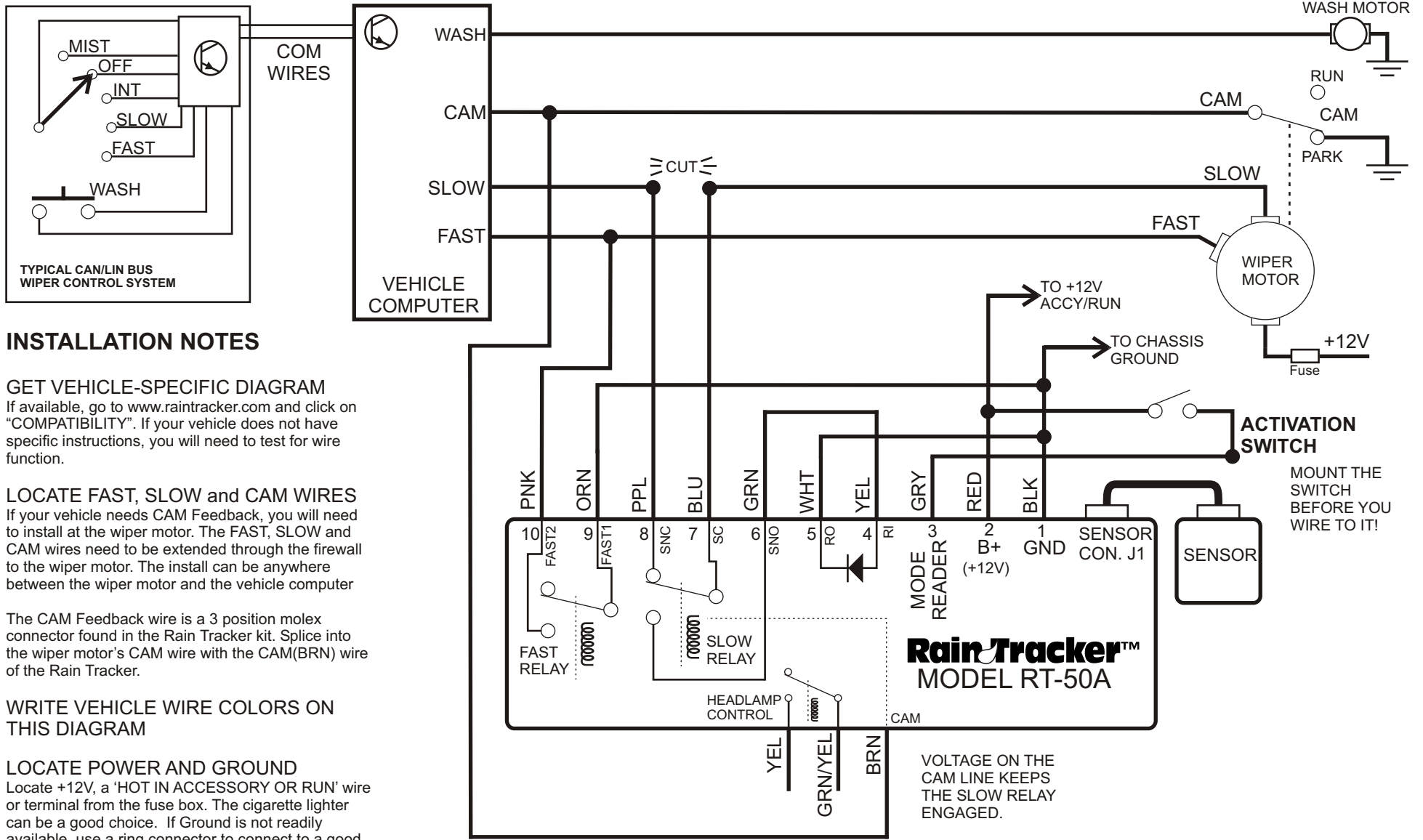
WIRING DIAGRAM:

RT-50A HSS/CAM

MOST COMMON
FOR RAIN TRACKER MODEL RT-50A
INSTALLED IN HOT-SIDE (STANDARD)
SWITCHING WIPER SYSTEM WITH CAM
FEEDBACK

MOUNT THE SWITCH BEFORE YOU WIRE TO IT!

VOLTAGE ON THE CAM LINE KEEPS THE SLOW RELAY ENGAGED.



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APPLICATIONS

Use this diagram for vehicles that apply ground to motor slow and fast terminals by way of computer, with motor common connected to +12V, and when you can access the terminals. If the Rain Tracker is installed and the wipers stop in the middle of the windshield, use this diagram.

DO NOT USE THIS DIAGRAM IF:

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WIRING DIAGRAM:

RT-50A GSS/CAM

LESS COMMON THAN HSS
FOR RAIN TRACKER MODEL RT-50A
INSTALLED IN GROUND-SIDE SWITCHING
WIPER SYSTEM WITH CAM FEEDBACK

MOUNT THE SWITCH BEFORE YOU WIRE TO IT!

VOLTAGE ON THE CAM LINE KEEPS THE SLOW RELAY ENGAGED.