

# SPEED KEY KIT



P/N 2881000

## APPLICATION

POLARIS M1400

**IMPORTANT:** *This kit must be installed by a Polaris authorized dealer using the Digital Wrench Service Tool.*

Please read through the entire installation procedure before starting. If the reflash authorization procedure is interrupted, the calibration number could be lost. A reliable internet connection is required to perform the speed key enable process. The use of this kit allows the operator to select between full speed and restricted speed operation modes. In its limited state the vehicle top speed will be restricted to 15 mph (24 kph) or 10 mph (16 kph) depending on what is programmed.

**WARNING:** Changes made to the speed key setting require an engine restart before the change will be made effective.

**CAUTION:** If the ECM has been Speed Key Enabled and the speed key module is disconnected or damaged, the vehicle will be limited to 10 mph (16 kph).

## BEFORE YOU BEGIN

Read these instructions thoroughly and check to be sure all parts and tools are accounted for. Please retain these installation instructions for future reference and parts ordering information.

## KIT CONTENTS

Qty	Part Description	Part Number
1	Speed Key Module	2412656
1	Speed Key Decal	7177270
1	Speed Key Certificate	7179110
2	#10 Bolt	7511930
2	#10 Nut	7541925
1	Speed Key Hang Tag	9924159
1	Instructions	9925962

## TOOLS NEEDED

Digital Wrench

3/8" Socket

5/16" Wrench

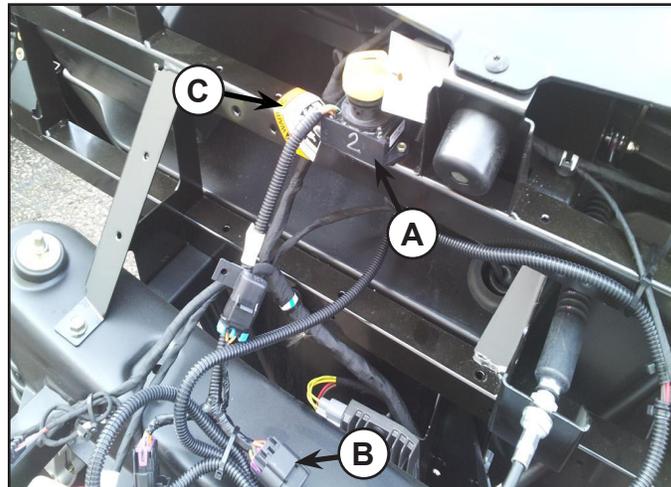
## IMPORTANT

Your Polaris SPEED KEY KIT is exclusively designed for your vehicle. Please read the installation instructions thoroughly before beginning. Installation is easier if the vehicle is clean and free of debris. For your safety, and to ensure a satisfactory installation, perform all installation steps correctly in the sequence shown.

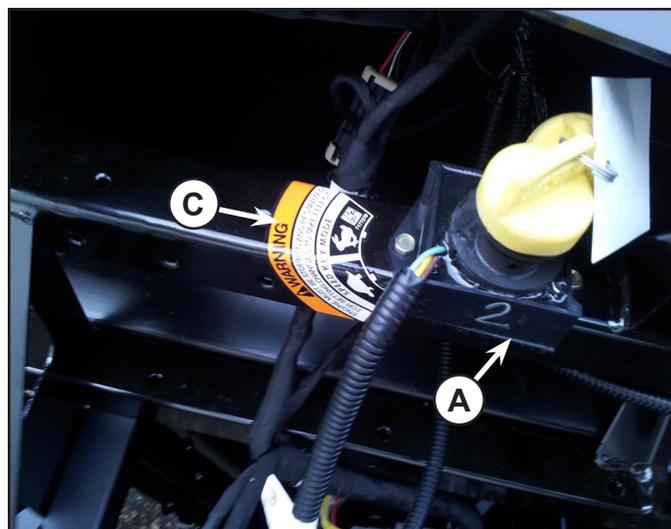
## INSTALLATION INSTRUCTIONS

### SPEED KEY MODULE INSTALLATION

1. Open the hood and locate the Digital Wrench Diagnostic Plug and remove the right side storage container.
2. Disconnect the diagnostic plug from its protective cap and plug it into the mating connector found on the speed key module (A) harness.
3. The speed key module harness contains a new diagnostic plug (B) that should be plugged into the diagnostic cap once the Digital Wrench procedure has been completed.



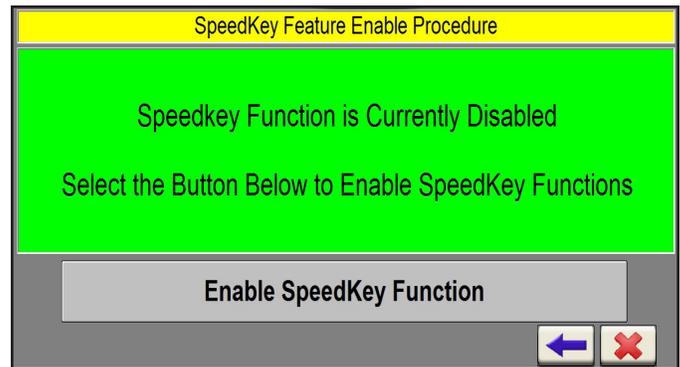
4. Locate the speed key module on cab support as shown in figure.
5. Secure the speed key module in place using the two #10 bolts and nuts provided in this kit.
6. Apply the speed key decal (C) at a 45 degree angle as shown in figure.
7. Refer to the following sections for details regarding Digital Wrench Installation and proper operation of this system. Take note that the speed key function must be turned on using Digital Wrench in order for this system to function. Failure to activate the speed key function will result in normal speed operation regardless of the key setting.



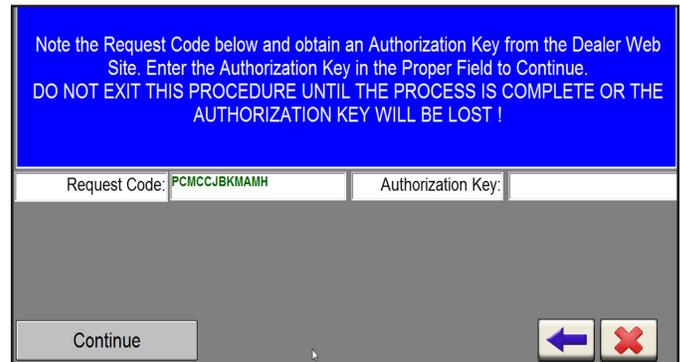
### DIGITAL WRENCH INSTALLATION

1. Make sure that you have the latest version of Digital Wrench installed on your computer. The latest version can be found on the Polaris Dealer website.
2. Connect Digital Wrench to the vehicle and turn the key to the "on" position; it is not necessary to start the vehicle. Turn the Speed Key Switch (Key Switch) to the left (Counter-Clockwise).
3. Select the Model Year (2015 or later), "Gem" for the Product Line, and "M1400" for the Description.
4. Select the special tests menu.
5. Select "Speed Key Options" menu.
6. Digital Wrench will query the ECM and report back the status of the speed key feature. For a new installation, it should report back that the function is currently disabled and provide a button to click "Enable Speed Key Function". If the function has been enabled already, Digital Wrench will provide you with the option to Disable Speed Key. (CAUTION: If the feature is disabled using Digital Wrench, a new speed key kit will need to be purchased to re-enable the feature.)

7. Click on "Enable Speed Key Function".



8. Digital Wrench will provide a Request Code. Copy that code exactly as shown in above figure.



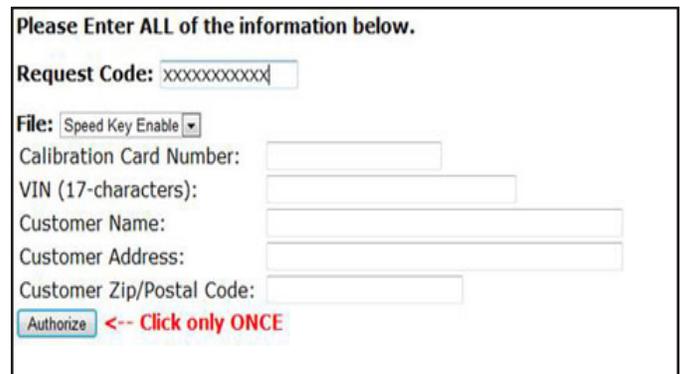
9. Using a web browser, go to the dealer reflash authorization web site.

10. Enter the code shown from Step 8.

11. Enter the reflash certificate code into the "Calibration Card Number" field.

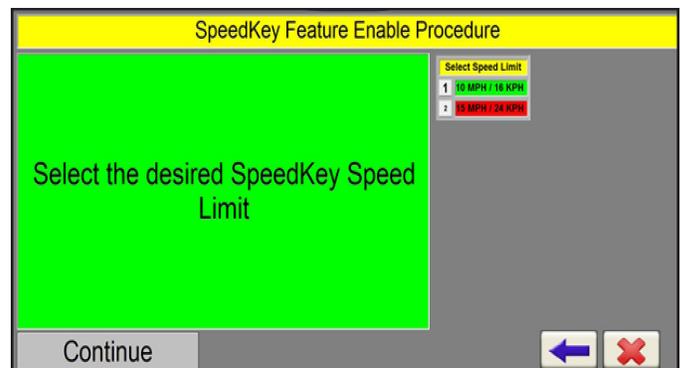
12. Enter the VIN, Customer Name, Address, and Zip Code.

13. Click on "Authorize" and wait for the authorization key code to be shown (do not click on "Authorize" more than once).

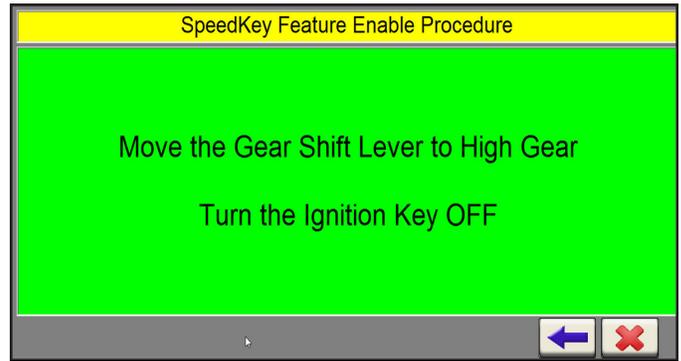


14. Record the Authorization Code that is displayed and enter it into the "Authorization Key" field in Digital Wrench and click "Continue".

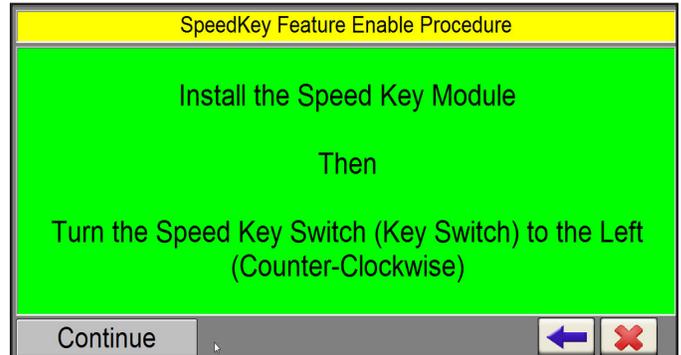
15. Select the desired Speed Key Speed Limit.



16. Digital Wrench will then prompt you to move the gear shift lever to High and turn the ignition key off.

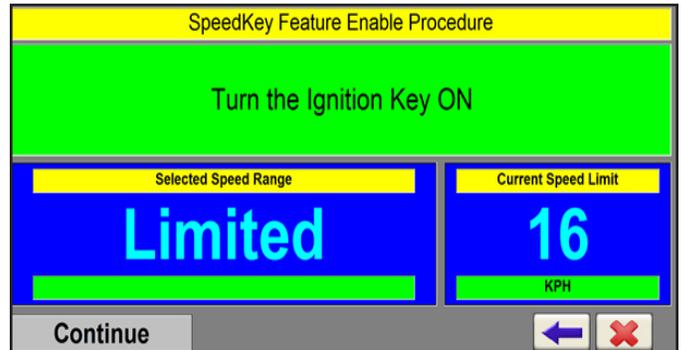


17. Unplug Digital Wrench from the diagnostic port, plug speed key into the diagnostic port, and then reconnect Digital Wrench to the pass through Diagnostic Port coming from the speed key module. Turn the speed key module key switch to the left position.



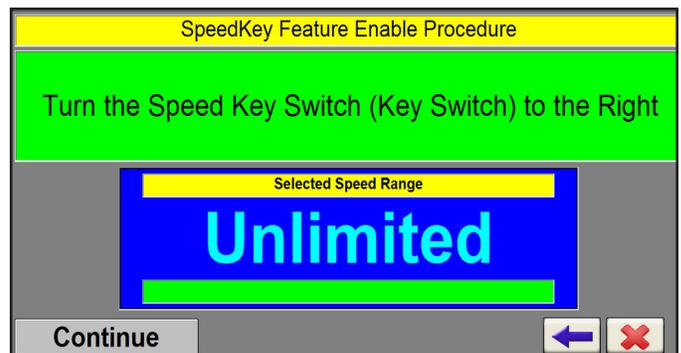
18. Turn the Ignition Key to the "On" Position.

19. The Green LED on the speed key module should be On, and you should see the screen above showing a speed limit of 10 mph (16 kph) or 15 mph (24 kph) (depending on which speed was selected). If it is not, double check the connections to the vehicle.

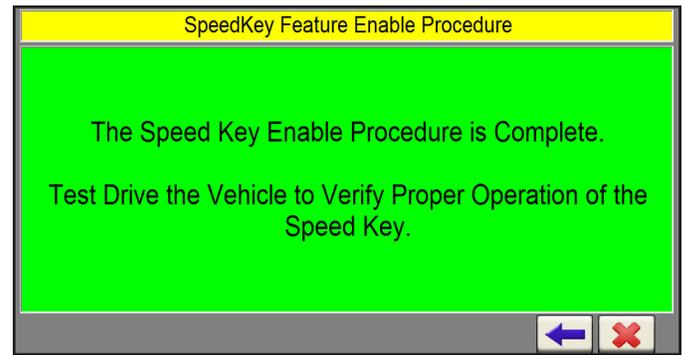


20. Turn the speed key switch to the right.

21. The "Selected Speed Range" should change and show "Unlimited".



22. Speed Key Functionality is now installed. The feature can be uninstalled at any time by following Steps 1-6, but selecting the “Disable Speed Key Function” button. If the feature is deactivated for any reason, a new speed key kit will need to be purchased to re-install.



**23. IMPORTANT: Test drive the vehicle to insure that speed key is working properly before delivery to customer!** Turn off vehicle and unplug the speed key module from the vehicle’s diagnostic port. Start the vehicle and test drive, the top speed of the vehicle should be limited to 10 mph (16 kph). Turn off the vehicle and reconnect the speed key module to the diagnostic port. Put the speed key switch in the left position (**Turtle Mode**). Start the vehicle and test drive. The top speed of the vehicle should be limited to 10 mph (16 kph) or 15 mph (24 kph) (depending on which speed was selected). Stop the vehicle and turn off. Set the speed key switch to the right hand position (**Rabbit Mode**). Start the vehicle and test drive. The vehicle should operate normally with no artificial speed limit.

#### INSTALLATION CHECKLIST

- Module is installed securely under the passenger seat.
- Warning Decal is installed above module and Turtle/Rabbit Icons are aligned correctly with both key positions.
- Warning Key Tag is on key ring with both Speed Keys attached.
- Vehicle was test driven with speed key module unplugged and using both speed limit positions and is working properly.

Sign and Date that the speed key installation was tested and working properly:

**Speed Key installed and tested by:** \_\_\_\_\_ **Date:** \_\_\_\_\_

#### **POLARIS SPEED KEY FOR M1400 OPERATION INSTRUCTION:**

The Polaris Speed Key Accessory for M1400 provides a way for the owner to choose between two predefined speed limits for their Side by Side vehicle. In the left key position (Turtle Icon) the vehicle has a speed limit of 10 mph (16 kph) or 15 mph (24 kph) (depending on which speed is selected). In the right key position (Rabbit Icon) the vehicle has no speed limit imposed and is allowed to travel at its normal top speed without restriction. The module has a green LED lamp built in. The lamp will turn on briefly when the vehicle’s key is turned on for one second as a lamp test. During operation in the left key position, the lamp will turn on if the speed key module is communicating with the vehicle’s ECM. When the key switch is in the right hand position, the lamp will normally be off. The lamp’s purpose is for dealer test use only. If the Speed Key module is unplugged, becomes damaged, or the modules fuse blows, the vehicles speed limit will be reduced to 10 mph (16 kph).

## OPERATION:

The Speed Key setting information is communicated to the vehicle's ECM at the time the ignition key is turned on. The speed key module must only be changed with the vehicle's ignition key in the "Off" position. The speed key is removable in both the Turtle and Rabbit positions and should be removed and stored in a safe place after selecting the desired mode.

**WARNING:** The engine must be restarted after a change is made to the speed key switch before the new speed limit will be used!

**Left Hand Position (Turtle Icon) - 10 mph (16 kph) or 15 mph (24 kph) depending on speed selected during set up.**

**Right Hand Position (Rabbit Icon) - Normal Vehicle Operation.**



## TROUBLESHOOTING:

### Vehicle is limited to 10 mph (16 kph)

- Check 2A fuse on Speed Key module harness.
- Verify Speed Key module is connected to the vehicle.  
diagnostic port and that connectors are latched to together.