

RAZORBACK

TECHNOLOGY



Razorback Belt Cooling Fan
USER MANUAL

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PARTS

* The following items are included with your new fan and are required for installation.



WIRE CONNECTORS



POWER HARNESS



(2) HOSE CLAMPS



FAN CONTROL BOX



SPARE FUSE



PRODUCT OVERVIEW

The Razorback Belt Cooling Fan Kit is a smart temperature control system for the CVT clutch belt in your UTV. Push for greater performance than ever knowing your belt will stay at the optimum temperature for long life. The fan is designed to push 2-3x more air than other belt cooling fans due to the smart temperature control that only uses full power when needed. This is the only belt cooling system in the industry built on Infrared technology, which can read true belt surface temperatures regardless of air temp. Stock air temperature sensors get it wrong as soon as air starts moving, but Infrared stays true. This puts you in control of your true belt temperature for maximum performance and lifespan.

FEATURES

1. Variable speed fan controlled by Razorback Infrared Belt Temperature Gauge.
2. Automotive-grade, IP65 water resistant, dustproof aluminum electronics enclosure.
3. 2-3x more airflow than other clutch cooling fans.
4. Machined aluminum fan duct and tubes to plumb into your stock air intake.

SPECIFICATIONS

AIR FLOW (CFM)	430
AIR PRESSURE (IN/H2O)	4.7
CURRENT (AMPS)	0 - 15.8
OPERATING TEMP RANGE	-20 to 125°F (-7 - 52°C)



INSTALLATION GUIDE

REQUIRED TOOLS

- Flat Head Screw Driver • Wire Strippers
- Wire Crimper • Drill • Drill Bit (1/4")



STEP 1: INSTALL GAUGE

Install the Razorback Infrared Belt Temperature Gauge if you have not already done so. Instructions can be found at <http://www.razorbackusa.com/user-guides>. Make sure the gauge is powered from the Key-On busbar and not running directly off of the battery.

STEP 2: MOUNT FAN

Remove stock hose from clutch housing (see image diagrams on pages 7-11 to identify your machine hose). If you received custom hoses with your fan, install where you removed the stock hose. It is easier to install the two custom hoses and then install the fan between them. Once the Belt Cooling Fan and hoses are inserted into the correct position (see picture below) with the fan oriented so that air flow aims toward the clutch housing (fan propeller should face away from the clutch housing), tighten the hose clamps to ensure the fan is secure. **If secured improperly, a detached fan can potentially result in harm to you and / or damage your machine.**

STEP 3: REMOVE SEATING

Remove seating and plastic covers necessary to run wiring between the Infrared Belt Temperature gauge, battery, accessory busbar and clutch area.

WARNING

Do not have the Belt Cooling Fan plugged in until fully installed!



STEP 4: RUN WIRES

*See page 7 for full wiring schematic.

A) Place the Fan Control Box near the vehicle's clutch in the wheel well area. Wait to mount it until later.

B) Run the "GAUGE" cable from the Fan Control Box to the Infrared Belt Temperature Gauge's blue cable. Wait to trim them until later.

C) Place the red and black leads of the Fan Power Harness near the vehicle's battery power busbar. Wait to trim them until later. Run the Deutsch connector end of the Fan Power Harness to the Fan Control Box.

D) Run the yellow Key-On wire to the Key-On Power Busbar. Wait to trim it until later. The CAN-AM Key-On Power Busbar is located in the tunnel between seats on the passenger side. The Polaris Key-On Power Busbar is located in the center front dash.

STEP 5: CONNECTORS

A) Connect the Fan Power Harness to the "POWER" cable.

B) Connect the Fan to the "MOTOR" cable.

STEP 6: MOUNT FAN CONTROL BOX

A) Connect the Fan Power Harness to the "POWER" cable.

B) Connect the Fan to the "MOTOR" cable.



STEP 7: TRIM AND CONNECT WIRES

A) Trim or coil excess length from the "GAUGE" cable and blue wire. Attach male bullet connectors to the "GAUGE" cable leads using a crimp tool. Attach female bullet connectors to the blue wire leads. Connect Red to Red (or Brown), Black to Black.

B) Trim or coil excess length from the red and black leads of the Fan Power Harness. Attach large yellow eyelets to the leads using a crimp tool. Securely connect to the vehicle's battery power busbar: Red to Positive (+), Black to Negative (-).

C) Trim or coil excess length from the yellow Key-On wire. Attach a small red eyelet to the wire using a crimp tool. Securely connect the eyelet to the vehicle's Key-On power busbar, positive terminal (+).

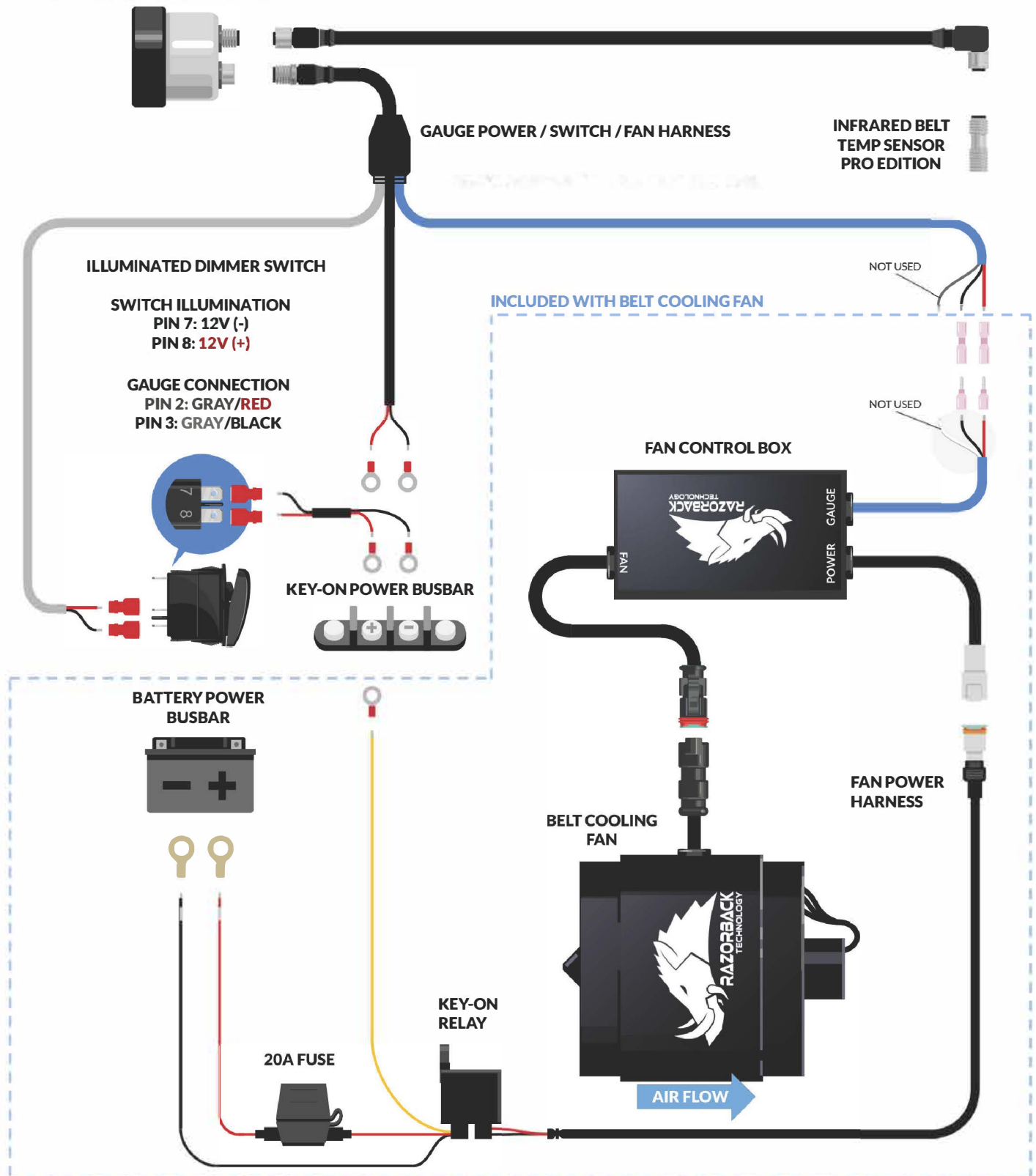
STEP 8: REPLACE SEATING / COVERS

Congratulations! Your machine is ready to turn on. Once the vehicle powers up, you will hear your new Razorback Belt Cooling Fan turn on in approximately 5 seconds.



WIRING SCHEMATIC

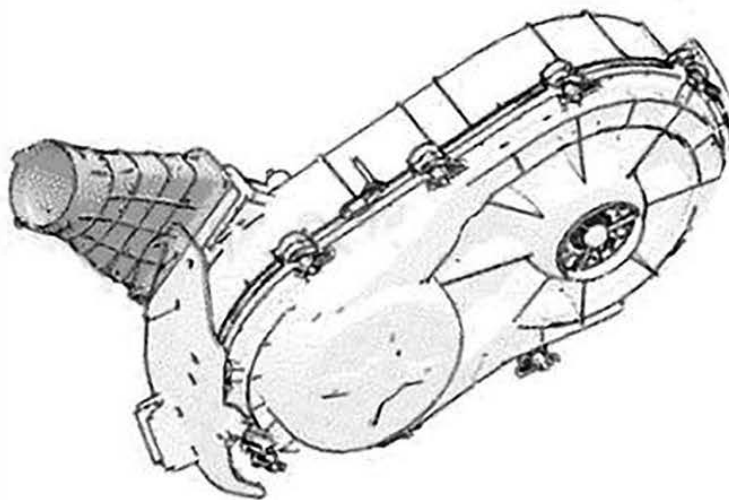
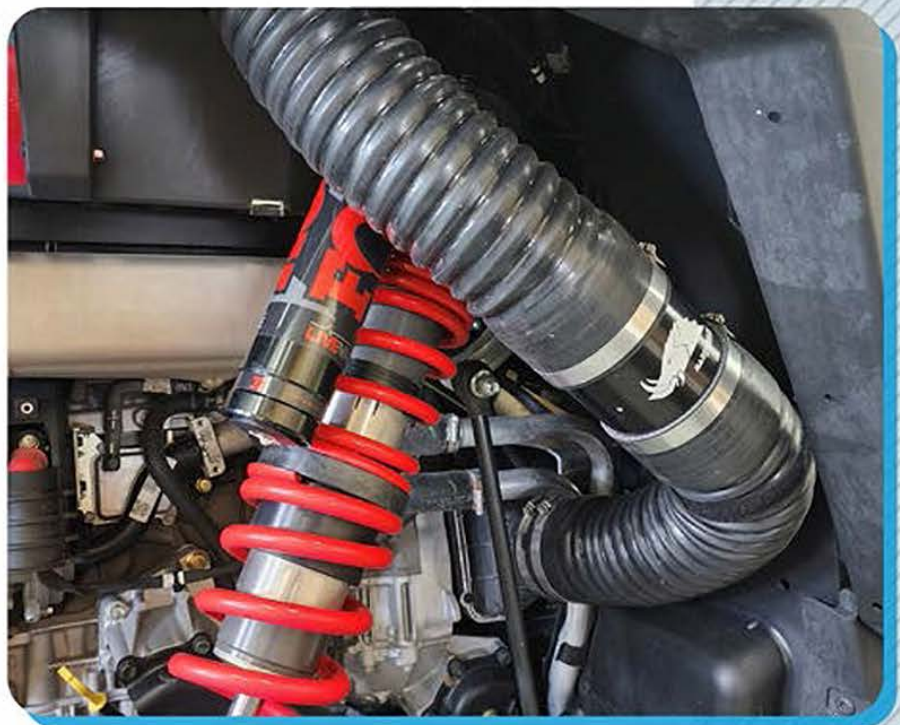
3.2 INFRARED BELT TEMP GAUGE



FAN MOUNTING

2022 PRO R

Remove and replace with custom hose.



FAN MOUNTING

2020-2022 RZR PRO XP/XP4

Remove and replace with custom hose.



FAN MOUNTING

2018-2021 RZR TURBO S/S4
2019-2021 XP/XP4 TURBO

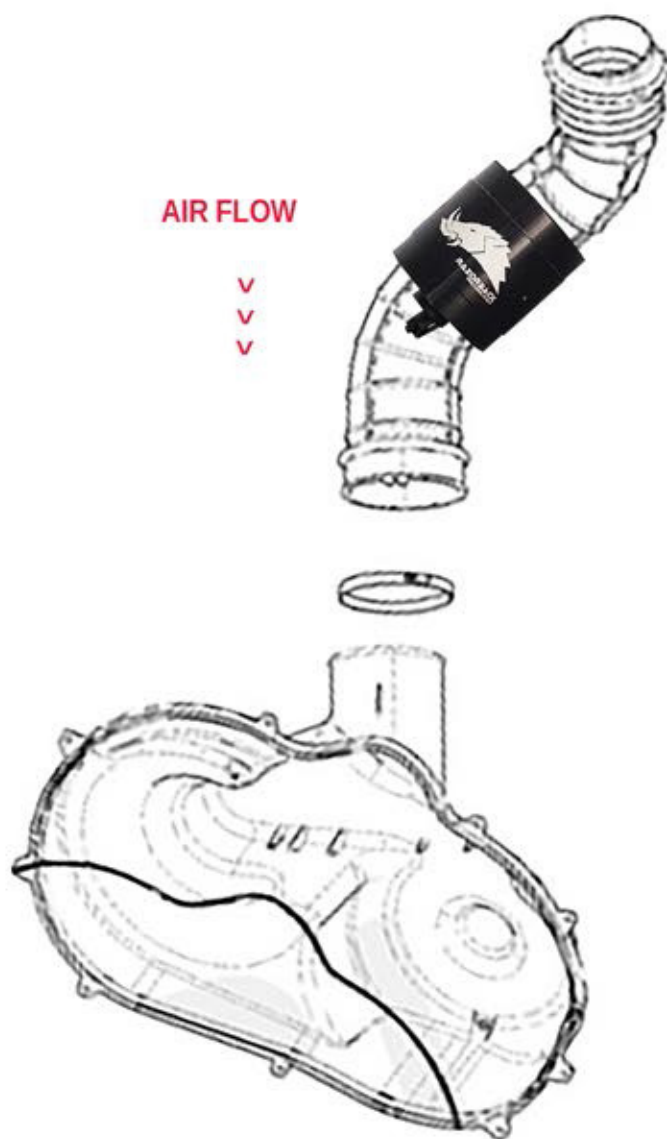
Remove and replace with custom hose.



FAN MOUNTING

2016-2018 RZR XP/XP4 TURBO

(A) Cut 2.6 inches out of tube and insert fan.



FAN MOUNTING

2016-2022 XP/XP4 1000

Connect fan to rubber tube and then use a 4" to 3" reducer to connect fan to plastic tube.



FAN MOUNTING

2016-2021 MAVERICK X3

Remove and replace with custom hose.



WARRANTY

REGISTER YOUR FAN

Your Razorback Belt Cooling Fan is covered by a one year warranty. During this twelve month period, your fan is covered from faulty parts, manufacture, or workmanship. To activate, please register your fan at razorbackusa.com/warranty.

WARRANTY CLAIMS

If you experience issues with your fan, please submit a warranty claim by **emailing** or **calling us**. Once your claim is received and reviewed, we will work towards an immediate resolution.

CONTACT

techsupport@razorbackusa.com
(888) 525-2858 (Extension 2)





RIDE WITH CONFIDENCE

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