SR3300T Instruction Manual

Spektrum’s SR3300T 3-channel DSM® receiver features integrated telemetry that is compatible using Spektrum’s handheld telemetry unit (not included) or telemetry can be displayed on screen using the Spektrum telemetry-compatible transmitters. Telemetry features include voltage, temperature, rpm and laps (handheld only). The SR3300T is compatible with all Spektrum surface transmitters and operates in DSM mode.

Note: The SR3300T receiver does not include the telemetry sensors or rpm sensor mount hardware. Sensors and mount hardware are available separately:
- SPM1450 Head Temperature Sensor
- SPM1451 Battery/Motor Temperature Sensor
- SPM1452 RPM Sensor
- SPM1512 Telemetry RPM Sticker Sheet
- SPM1502 Sensor Mount Hardware: .12–.15
- SPM1501 Sensor Mount Hardware: .21–.26
- SPM1503 Sensor Mount Hardware: Electrics
- SPM1410 Nitro Sensor Package(3) & Hardware
- SPM1400 Electric Sensor Package(5) & Hardware

Specifications
- Type: DSM
- Channels: 3
- Band: 2.4GHz
- Dimensions (LxWxH): 1.60 x 1.06 x .58 in (41 x 27 x 15mm)
- Weight: 4 oz (11 g)
- Voltage Range: 3.2–9.6V
- Telemetry options: Voltage, RPM, Temperature
- Lap time (Only available with SPM handheld)

Receiver Connection and Installation

The antenna should be mounted up away from the vehicle and in an antenna tube if possible.

Installing the Telemetry Sensors in Your Vehicle

1. With the receiver off, insert the bind plug into the BIND/RS port in the receiver.
2. Power the receiver through any port that is not a 3.3V Telemetry port. If an ESC is being used, power on the ESC with the ESC lead plugged in the throttle channel port. The amber LED will flash continuously indicating that the receiver is in bind mode.

Warning: Do not power the SR3300T through the LAP, TEMP or RPM port. The receiver will be damaged!

3. With the steering wheel, throttle trigger and Aux channel (if applicable) in the desired preset failsafe positions, initiate the bind process with your Spektrum transmitter which will also store the failsafe positions. Refer to your Spektrum transmitter user guide.
4. When a successful bind is complete, the LED will go off on the handheld unit and the voltage reading resumed.

Note: The telemetry sensor ports are regulated at 3.3 volts and cannot be used to power a transponder. If using a transponder it must be plugged in the battery or one of the channel ports to operate properly.

Signal and Receiver Battery Voltage

Signal strength and receiver battery voltage are built into the receiver’s telemetry and no further attachment of sensors is necessary. Signal strength and receiver battery voltage will be displayed when the transmitter and receiver are both turned on.

RPM/Speed Sensor (Nitro)

An optional infrared sensor is needed to record rpm values that can be converted by the telemetry compatible transmitter or handheld unit to actual speed in mph or km/h. The sensor emits an infrared light and a receiver records the reflection vs. the absorption of light. It is necessary to place a reflective or light absorbing decal on the flywheel to allow the sensor to record rpm.

RPM/Speed Sensor Installation (Nitro)

1. Choose the correct nitro mount for your engine.
2. Using the 2mm screws, attach the sensor to the mount as shown.
3. Install the mount under the engine screw and adjust the sensor so it is 1/8” from the flywheel. Depending on your flywheel size, the sensor might have to be mounted in different orientations.
4. If the flywheel is reflective (bare metal), place a flat black decal on the flywheel so it passes between the sensor and the flywheel when rotated. If the flywheel is non-reflective, place a reflective decal on the flywheel so that it passes between the sensor and the flywheel when rotated. We recommend applying a small amount of CA glue around the edges of the decal to ensure strong adhesion. Be sure to only glue the edges and to not cover the top of the decal.
5. Plug the sensor into the RPM port in the SR3300T receiver.
**RPM/Sensor Installation (Electric)**
- Determine the best method to mount the sensor near the spur gear.
- The face of the sensor must face the side of the gear. A mount can be fabricated from Lexan and taped in place using servo tape then bent to allow installation in most applications.
- Mount the rpm sensor such that the sensor is 1/8" from the side of the gear. If the gear is not reflective, place a reflective decal on the gear so it passes between the sensor and the flywheel when rotated. If the gear is reflective, place a flat black decal on the gear so it passes between the sensor and the gear when rotated.
- **Plug the sensor into the RPM port in the SR3300T receiver.**

**Temperature Sensor (Nitro)**
- An optional temperature sensor loop is needed that wraps around the head of the engine to monitor head temperature. This is useful in tuning engines and in preventing damaging over-lean runs.

**Temperature Sensor Installation (Electric)**
- **Plug the temperature sensor into the port marked TEMP in the SR3300T receiver.**
- **The Telemetry screen on the DOS should now display the room temperature.**

**Temperature Sensor (Electric)**
- **An optional Thermostat-type temperature sensor is needed in the electric system that can be taped to the battery or motor to monitor real-time temperature.** Transparent tape can be used to attach the sensor for temperatures up to approximately 250° F. High temperature tape is needed for temperatures exceeding 250° F.

**Non-Warranty Repairs**
- **This warranty is limited to the original Purchaser (“Purchaser”) and is not transferable. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER.**

**Warranty Period**
- **(a) Limited Warranty – Horizon Hobby, Inc. ("Horizon") warrants that the Products purchased ("the Product") will be free from defects in materials and workmanship for a period of 1 year from the date of purchase by the Purchaser.**

**Warranty Inspection and Repairs**
- All other Products requiring inspection or repair should be shipped to the following address:
  - Horizon Hobby Europe
  - Europastrasse 16
  - 85737 Eching, Germany
  - +49 8115 40 40 627
  - Email: productsupport@horizonhobby.com
  - Warranty cards are available in the box or by visiting www.horizonhobby.com on the “Support” tab. If you do not have internet access, please include a letter with your name, address, and phone number requesting the warranty card.

**Doctor**
- **If you need your Product to be repaired, please contact your local hobby store or place of purchase.** Your local hobby store and/or place of purchase cannot provide warranty support or repair. Once assembly, setup or use of the Product has been started, you must read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or injury.

**Inspection or Repairs**
- If your Product needs to be inspected or repaired, please call Horizon at (877) 504-0233 toll free to speak to the Product Support department.

**FCC Information**
- This product contains a radio transmitter with wireless technology which has been tested and found to be compliant with the applicable FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Instructions for Disposal of WEEE by Users in the European Union**
- This product must not be disposed of with waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. For more information about your waste equipment for recycling, please contact your local city office, your waste disposal service or whoever purchased the product.