

# ***Dakota Digital***

## **SEN-4165**

### **Magnetic Pick-Up Coil**

#### Mounting the magnetic pick-up coil

1. Using the supplied 1½" bolt and stamped nut, attach the pick-up coil to the gold L-shaped bracket. Do not exceed 20-30 in-lbs.
2. Under the vehicle, hold the L-shaped bracket against the floor. Find a location to mount the bracket so the pick-up coil is ¾" away from the driveshaft. Ensure the pick-up coil is no more than 12" back from the front U-joint, more than six inches from the catalytic converter. Bend the L-shaped bracket as needed so the pick-up coil is pointing at the middle of the driveshaft.
3. With a location set, mark where the pick-up coil is pointing on driveshaft. This is where the magnets will mount.
4. With the L-shaped bracket still in place, mark two holes on the floor pan to mount the bracket. Use holes as far apart from each other as possible.
5. Drill two 3/16" holes, and then mount the L-shaped bracket with the supplied ¼" x ¾" self tapping screws. \*NOTE\* be sure screws will not damage anything on the inside of the vehicle. Fold the carpet up out of the way before drilling.

#### Attaching the magnets and wiring

1. Make sure the driveshaft is clean and free of rust scales or other debris. Place the four supplied magnets on the driveshaft in 90-degree increments (12, 3, 6, 9 o'clock positions).
2. Secure the magnets with the supplied cable tie, making sure the ribbed side of the cable tie is facing the magnets and is seated between the two ribs on each magnet.
3. Tighten the cable tie. To ensure a secure installation, place the blade of a screwdriver against the cable lock and pull on the strap using pliers. Cut off the excess flush with the cable lock.  
\*OPTIONAL\* use a small amount of epoxy to secure each magnet in addition to the cable tie.
4. Run the blue and gray wires from the pick-up coil up to the input, taking care to route the wires away from heat and moving parts such as exhaust and shift linkage.
5. Push each wire into the supplied black plug, matching blue to black and gray to gray. Ensure the locking tab on each wire snaps in to place.

#### **SERVICE AND REPAIR**

DAKOTA DIGITAL offers complete service and repair of its product line. In addition, technical consultation is available to help you work through any questions or problems you may be having installing one of our units. You can contact our technicians at 605-332-6513 or by email at [dakotasupport@dakotadigital.com](mailto:dakotasupport@dakotadigital.com).

Should you ever need to send the unit back for repairs, please package the product in a good quality box along with plenty of packing material. Ship the product by UPS or insured Parcel Post. **Be sure to include your RMA#, a complete description of the problem, your full name and address (street address preferred), and a telephone number where you can be reached during the day.** A return authorization number (RMA#) for products being return for repair is required. Do not send any money. We will bill you for the repair charges.

# ***Dakota Digital***

4510 W. 61ST St. N., Sioux Falls, SD 57107  
Phone: (605) 332-6513 FAX: (605) 339-4106  
[www.dakotadigital.com](http://www.dakotadigital.com)  
[dakotasupport@dakotadigital.com](mailto:dakotasupport@dakotadigital.com)