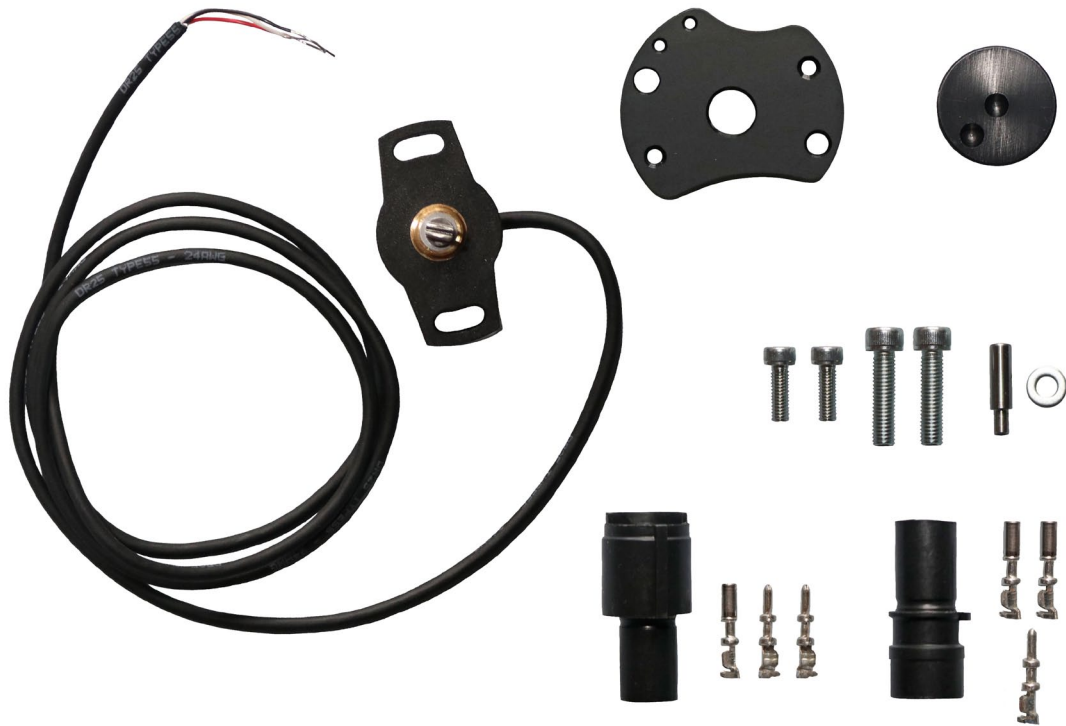


## GEAR-PT-KITBUSA-01 Gear potentiometer fitting instructions



The adaptor plate in this kit has been redesigned since these instructions were originally written so some pictures may show the previous adaptor plate version, however the instructions have not changed.

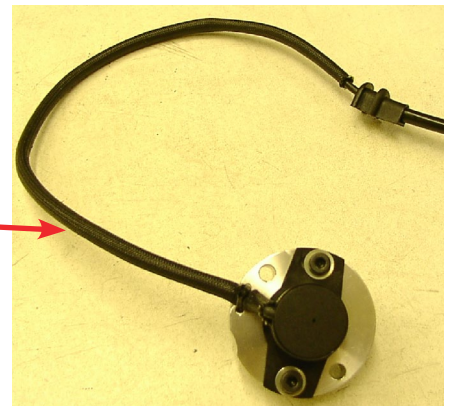
1. Remove the clutch assembly as per the Suzuki manual in order to remove the standard gear position sensor.
2. Retain the protective covering from the standard sensor wire, this will need to be fitted to the new sensor.
3. Replace the outer gear pin with the **supplied lengthened pin** still retaining the original spring

4. Push the shaft adapter onto the two gear pins ensuring that the pins are fully located into the adapter. *(It is possible to check that the shaft adapter is located correctly onto the pins by inserting a flat bladed screwdriver into the slot and attempt to turn the shaft; the shaft adapter should not rotate without turning the entire gear selector drum).*



5. Assemble the Gear potentiometer onto the adapter plate using the supplied M4 screws and washers, use a suitable thread lock compound on the threads. Install the sensor in the middle of the slots.

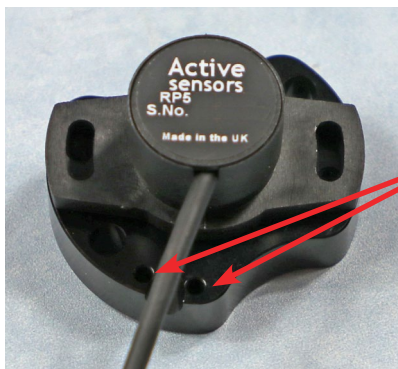
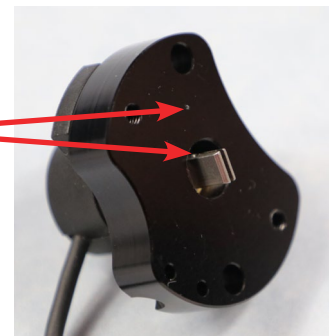
6. Use the protective covering from the standard sensor along with the rubber grommet and fit as shown right.



There is a dimple on the back of the adaptor plate and one on the sensor shaft, highlighted in red.



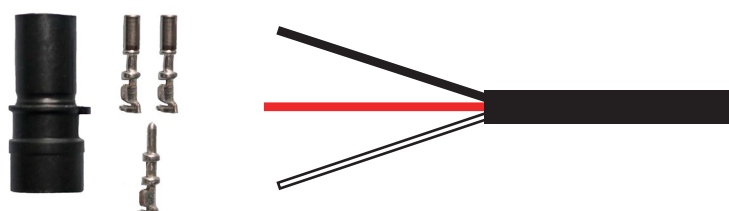
7. Put the adaptor plate on the sensor, ensuring that the dimple on the sensor shaft is aligned with the dimple on the BACK of the adapter plate as shown right.



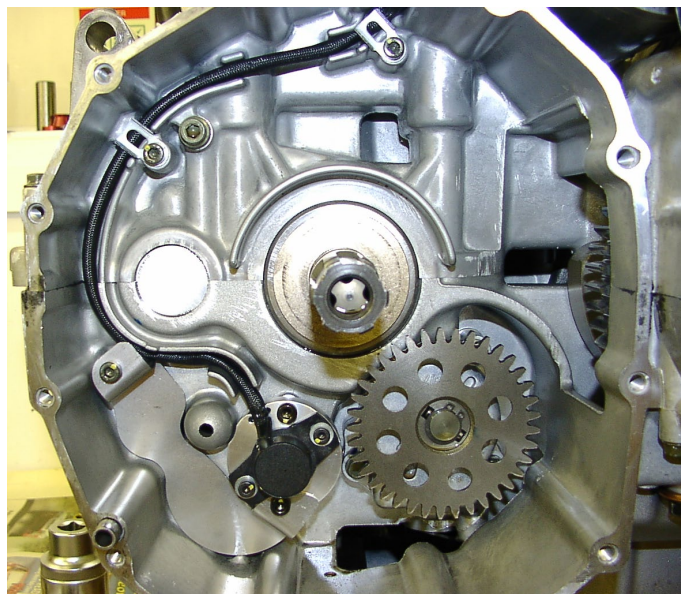
8. Secure the cable to the adapter plate using a cable tie through the indicated holes.

9. Fit the Male Sureseal connector to the gear potentiometer.

Connector Pin		Sensor Wiring
1 (Pin)	0v	Black
2 (Socket)	5v	Red
3 (Socket)	Signal	White



9. After first ensuring the Gearbox is in Neutral, insert the shaft of the sensor into the slot of the shaft adapter and bolt the plate down using the supplied M5 screws using a suitable thread lock compound.



10. Run the wire in the standard route and ensure retaining clips are fitted as per the Suzuki manual.

11. It is advisable at this time to plug in the new sensor and power up the loom in order to check that it is reading correctly, do not start the engine but run through all gears to ensure that all gears are read correctly.

**If you do not get the correct readings it is likely that you have misaligned the sensor shaft when fitting so remove the sensor and follow the instructions again.**

12. Re-fit the clutch assembly/cover etc as described in the Suzuki manual

Note: If you are using a non-standard baffle plate it is necessary to trim the edge in order to clear the sensor.

**Ensure the manufactures label has been removed from the sensor, otherwise this will come off and be collected in the oil pick up pipe restricting flow.**

### SBD Recommended pin outs for GEAR-PT-KITBUSA-01

3-way Sureseal connection to suit current LM-GEAR-03K add in wiring.

Connector Pin		Sensor Wiring
1 (Pin)	0v	Black
2 (Socket)	5v	Red
3 (Socket)	Signal	White

4-way Sure seal Connector (male for sensor ends), this is an older spec version.

Pin		Sensor Wiring
1	0va	Black
2	Signal	White
3	N/C	
4	5va	Red

**Free technical support is available on our website. If you require personalised technical support training, this is available at a chargeable rate.**

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