

# Lane Departure Warning System Survey Assembly Kit Guide

# VBOX RACELOGIC

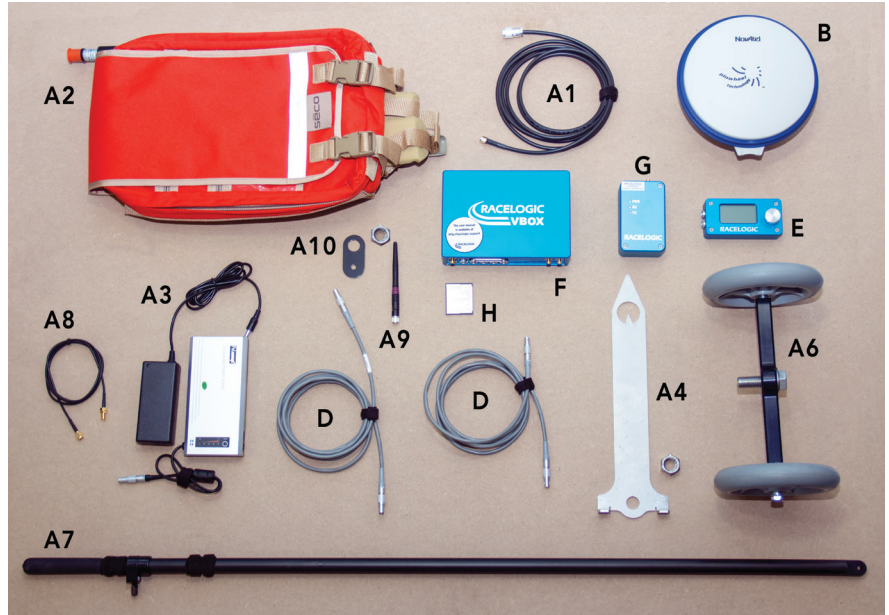
## Required Kit

### A. RLACS173 - Survey Trolley Kit

- A1 TNC to SMA cable
- A2 surveying rucksack & telescopic pole
- A3 li-ion battery pack
- A4 stainless steel offset bracket
- A5 5/8" stainless steel nut
- A6 line mapping rover wheel
- A7 telescopic rover wheel handle
- A8 male-female extension SMA cable
- A9 telemetry antenna
- A10 telemetry antenna bracket and nut

- B. GPS ground plane antenna\*
- C. TNC to SMA antenna cable\*
- D. LEMO cables (x2)\*
- E. VBOX File Manager\*
- F. VBOX 3i system\*
- G. VBOX Telemetry module\*
- H. Compact flash card\*

(\*supplied separately)



## Assembly Guidelines

1. Remove small nut and washer from the male connector on the SMA cable (A8) and insert through telemetry antenna bracket (A10). Reattach the washer and nut, tightening using a 8mm spanner.

Attach telemetry antenna (A9) to SMA cable connector (A8).



2. Remove telescopic pole from surveying rucksack (A2) and remove the plastic cover from the end of the pole. Secure antenna bracket (A10) telescopic pole using the stainless steel nut provided and screw on the telemetry antenna (A9) to the SMA connector.



3. Refit telescopic pole to survey bar - routing SMA cable (A8) through to bag interior. Attach female connector on SMA cable (A8) to VBOX Telemetry module (G).



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4. Place the stainless steel offset bracket (A4) on top of the rover wheels (A6) facing forwards towards the direction of travel and secure using the stainless steel nut provided.



5. Fix telescopic handle (A7) to line mapping rover wheels (A6) using the washers and bolt provided.

Note: Ensure washers are fitted to either side of the telescopic handle before securing with bolt. Do not over tighten.

6. Screw the GPS ground plane antenna (B) to the protruding bolt at the top of the offset bracket.

Note: Ensure the ground plane antenna's connector is inline with the telescopic handle.



7. Connect the VBOX Telemetry module (G) to the VBOX 3i system (F) using a 5-pin LEMO cable (D).



8. Connect the li-ion battery pack (A3) to the 'PWR' port on the VBOX 3i (F).



9. Link the GPS ground plane antenna (B) to the 'SATS' SMA connector on the VBOX 3i using the TNC to SMA cable (A1).



10. Connect the VBOX File Manager (E) to the VBOX 3i systems (F) 'CAN' port using a 5-pin LEMO cable (D).



11. Make sure to secure all units in surveying rucksack (A2) and tie the antenna cables to the telescopic pole using the velcro wraps provided.

