

ELECTRICAL
SYSTEM

NOTE: THIS BULLETIN IS FOR POSITIVE
GROUND SYSTEMS. SEE ILLUSTRATION
FOR NEGATIVE GROUND CONNECTIONS
T.T.

No. N-2

PAGE 110P IV
JULY-1964

TO: ALL ROOTES GROUP DEALERS
MODEL: RAPIER IV, ALPINE IV AND ALPINE III
SUBJECT: IMPULSE TACHOMETER CABLE INSTALLATION

Certain instances of impulse tachometer failure have been shown to be due to incorrect installation of the white impulse cable.

The terminal post, situated at the back of the instrument head, must always have the impulse cable threaded in the manner illustrated, which is of the positive earth system. Always check to ascertain that the instrument fitted is a positive earth unit, by examining the dial face; this clearly states whether it is a Positive or a Negative Earth.

REVERSE
THIS DIRECTION
FOR NEGATIVE
EARTH GND.
SEE ILLUSTRATION

Examine the impulse cable loop at the terminal post, and if it does not conform to the illustration, proceed to correct the error in the following manner.

Note: The white impulse cable may not always be accessible, particularly when it is bound in the harness, therefore, we give three methods of correction, one of which will suit the installation that exists.

METHOD (1) Cable free to ignition coil:-

- (a) Remove the positive (earth) cable from the battery terminal.
- (b) Lift the bonnet and detach the Lucar connector at the SW terminal of the ignition coil, unsolder the connector from the cable and withdraw the cable until it is fully disconnected at the 'through' terminal post at the back of the tachometer.

ELECTRICAL
SYSTEM

N-2

PAGE II OF IV

JULY-1964

- (c) Re-enter the impulse cable in the slot of the 'through' terminal, paying particular attention to the illustration, then resolder the Lucar connector to the end of the cable and reconnect it to the SW terminal of the ignition coil.
- (d) Reconnect the positive (earth) cable to the battery terminal and test the tachometer for correct operation.

METHOD (2) Cable free to ignition/Starter switch:-

- (a) Remove the positive (earth) cable from the battery terminal.
- (b) From beneath the instrument panel, trace the white impulse cable from the 'through' terminal at the back of the tachometer, to No. 2 terminal of the ignition/starter switch; detach the Lucar connector.
- (c) Unsolder the Lucar connector from the cable and withdraw the cable until it is fully disconnected at the 'through' terminal.
Re-enter the impulse cable in the slot of the 'through' terminal paying particular attention to the illustration, then re-solder the Lucar connector to the end of the cable and re-connect it to No. 2 terminal of the Ignition/Starter switch.
- (d) Re-connect the positive (earth) cable to the battery terminal and test the tachometer for correct operation.

METHOD (3) Cable completely bound in harness:-

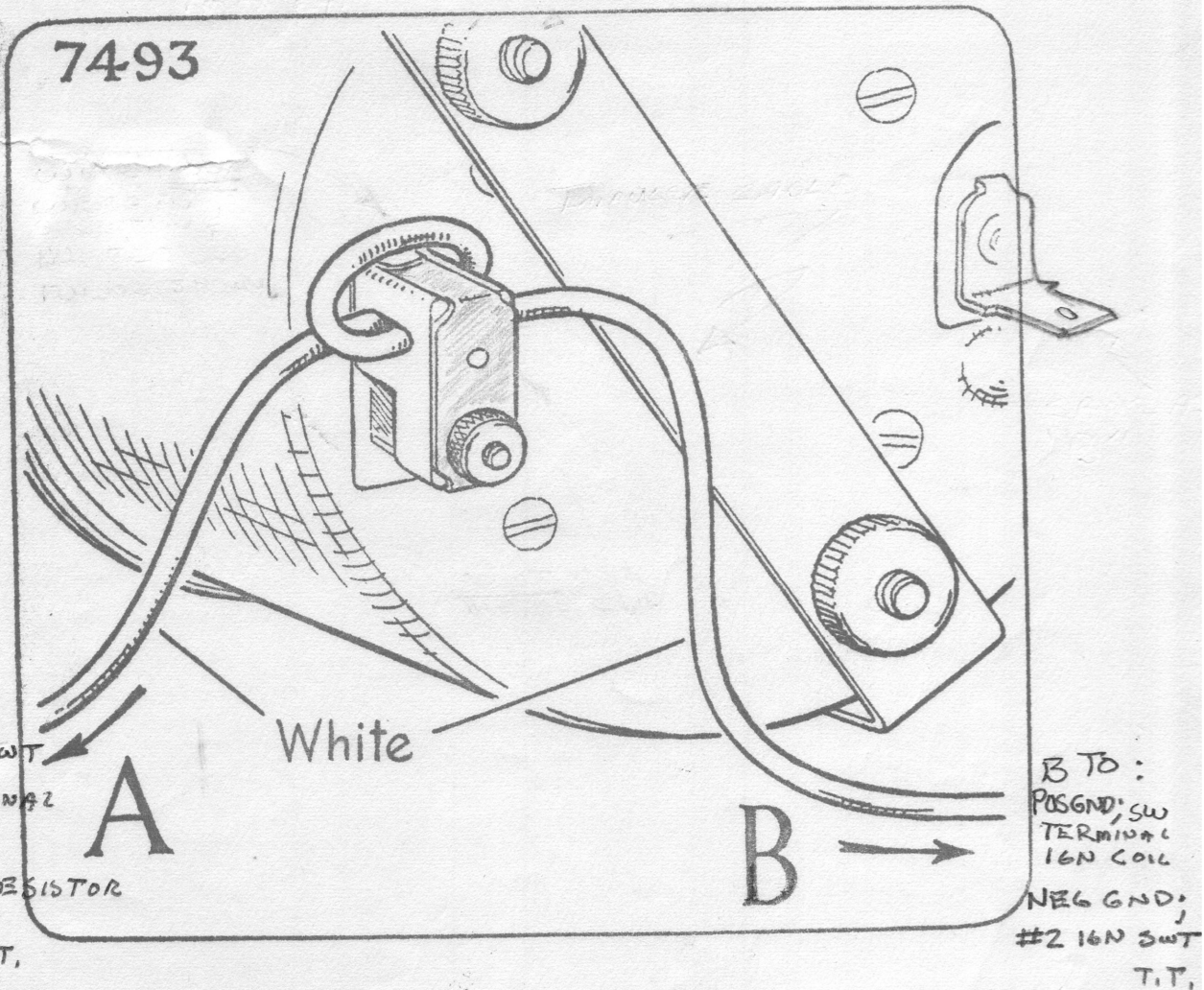
- (a) Remove the positive (earth) cable from the battery terminal.

MODEL - RAPIER IV, ALPINE II & IV (REVERSE A & B)
 SUBJECT - IMPULSE TACHOMETER CABLE
 INSTALLATION

FOR
 NEGATIVE GROUND N-2
 JULY-1964

(REVERSE "A" & "B" FOR
 POSITIVE GROUND CARS)

WIRE STRIPPING TOOL



As to SW terminal to ground, or to 12 volt
 terminal of coil. When using ballast
 resistor this lead must go to the
 lead to the resistor. The resistor
 lead will go to the coil.
 3. To #2 terminal of 16N SWT, or to a 12 volt
 source that is turned off with the ignition switch.

ELECTRICAL
SYSTEM

N-2

PAGE III OF IV

JULY-1964

- (b) From beneath the instrument panel, locate the longer length of the white impulse cable protruding from the 'through' terminal post at the back of the tachometer; cut the cable, and withdraw until fully disconnected at the 'through' terminal, paying particular attention to the illustration.
- (c) Bare the ends of each cable portion and solder the snap-connector 'bullet' to these ends; join both cable ends together with an insulated snap-connector.
- (d) Re-connect the positive (earth) cable to the battery terminal and test the tachometer for correct operation.

ROOTES MOTORS INCORPORATED

K. Langridge
Kenneth Langridge
General Service Manager *RS*

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Enc. - Sketch No. 7493

- A - To No. 2 terminal of the ignition/
starter switch.
- B - To the SW terminal of the ignition
coil.