

NOTE

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SUBJECT FITTING AMMETER

MODELS Series III Land Rover 2½ and 2.6 Litre petrol.
 Series III Land Rover 2½ Litre diesel

BRIEF DESCRIPTION Auxiliary instrument which may be fitted to the front face of the parcel tray.

PARTS REQUIRED

AMMETER KIT	1	607696 (Petrol)
AMMETER KIT	1	607734 (Diesel)

Comprises

Description	Qty.	Part No
Ammeter 50 - 0 - 50	1	579219
Insulation plate for ammeter	1	560722
Cable assembly for ammeter illumination	1	579220
Cable assembly, ammeter to starter solenoid	1	579221
Cleat, ammeter cable to main cable	2	240429
Grommet for bulkhead grommet plate	1	236389
Grommet for bulkhead grommet plate	1	232917
Lead for instrument earth loop	1	528920
Lead, ammeter to heater/starter switch	1	589099 Diesel model
Terminal and insulation bush	1	579204
Insulation bush	1	565847
Plain washer	1	3830
Spring washer	2	575014
Terminal nut	2	575015
Terminal bracket	1	579205)
Screw (10 UNF x ¾" long)	2	78291) Petrol
Spring washer	2	3073) models
Nut (10 UNF)	2	257023)

PROCEDURE

1. Prop open the bonnet
2. Disconnect the battery earth lead
3. Petrol Models - Assemble terminal and insulation bush 579204, bush 565847, nuts 575015 (2), spring washer 575014 (2) and plain washer 3830 to terminal bracket 579205. Secure the assembly to the starter solenoid using the solenoid fixings.
4. Diesel Models - Drill and file a suitable hole in the left hand inner wing valance at a position adjacent to the starter motor. Assemble terminal and insulation bush 579204, bush 565847, nuts 575015 (2), spring washer 575014 (2) and plain washer 3830 to the inner wing valance.

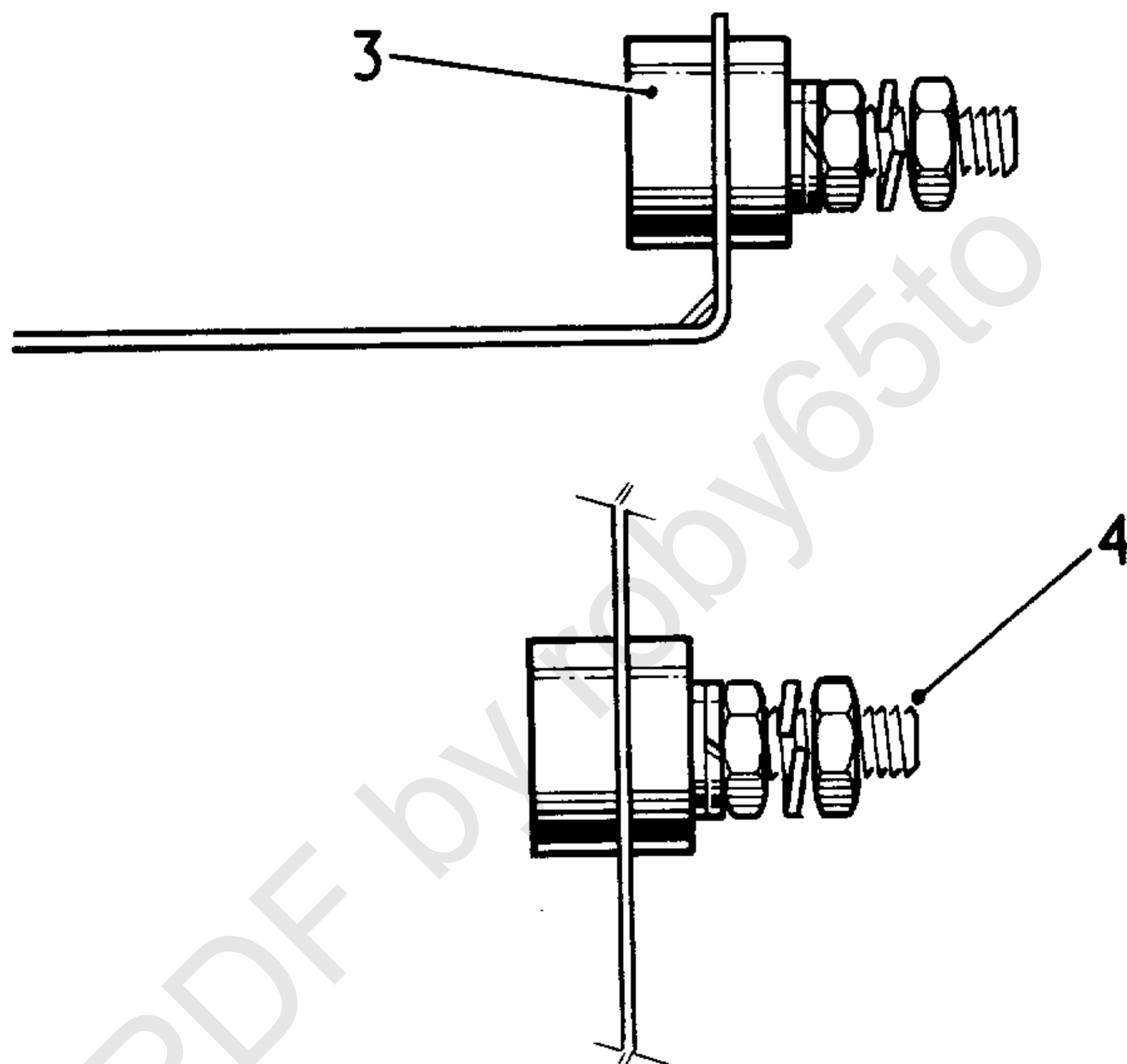


Fig. 1. Terminal post assembly

5. Fit grommet 236389 (232917 alternative as required) to the grommet plate at the drivers side of the dash
6. Pass cable assembly 579221, small terminal end first, through the grommet in the grommet plate.
7. Petrol Models - Disconnect the thick brown lead of the alternator harness (twin leads if an 18 ACR alternator is fitted) and the thick brown lead of the main harness from the starter solenoid. Connect these leads to the terminal post together with the brow/white lead of cable assembly 579221. Figs 2 and 4.

8. Diesel Models - Disconnect the thick brown lead (twin leads if an 18 ACR alternator is fitted) from the starter solenoid and connect it to the terminal post together with the brown/white lead of cable assembly 579221. Figs 3 and 5.
9. Connect the brown lead of cable assembly 579221 to the starter solenoid terminal which also carries the battery lead connection.
10. From inside the driving compartment, fit the ammeter 579219 and insulation plate 560722, utilising the pre-pierced hole which must be located under the covering trim at the front of the parcel tray.
11. Ease the back of the parcel tray away from the dash by prising out the plug retainers.
12. Working down the back of the parcel tray, locate cable assembly 579221 (previously passed through the grommet plate) and connect the brown/white lead to ammeter - 50 terminal, and the brown lead to ammeter + 50 terminal.
13. Diesel Models - Release the steering column switch shroud to expose the starter switch. Disconnect the thinner of the two brown leads from terminal No. 4 and connect it to lead 589099. Connect the free end of lead 589099 to ammeter - 50 terminal. Replace the switch shroud.

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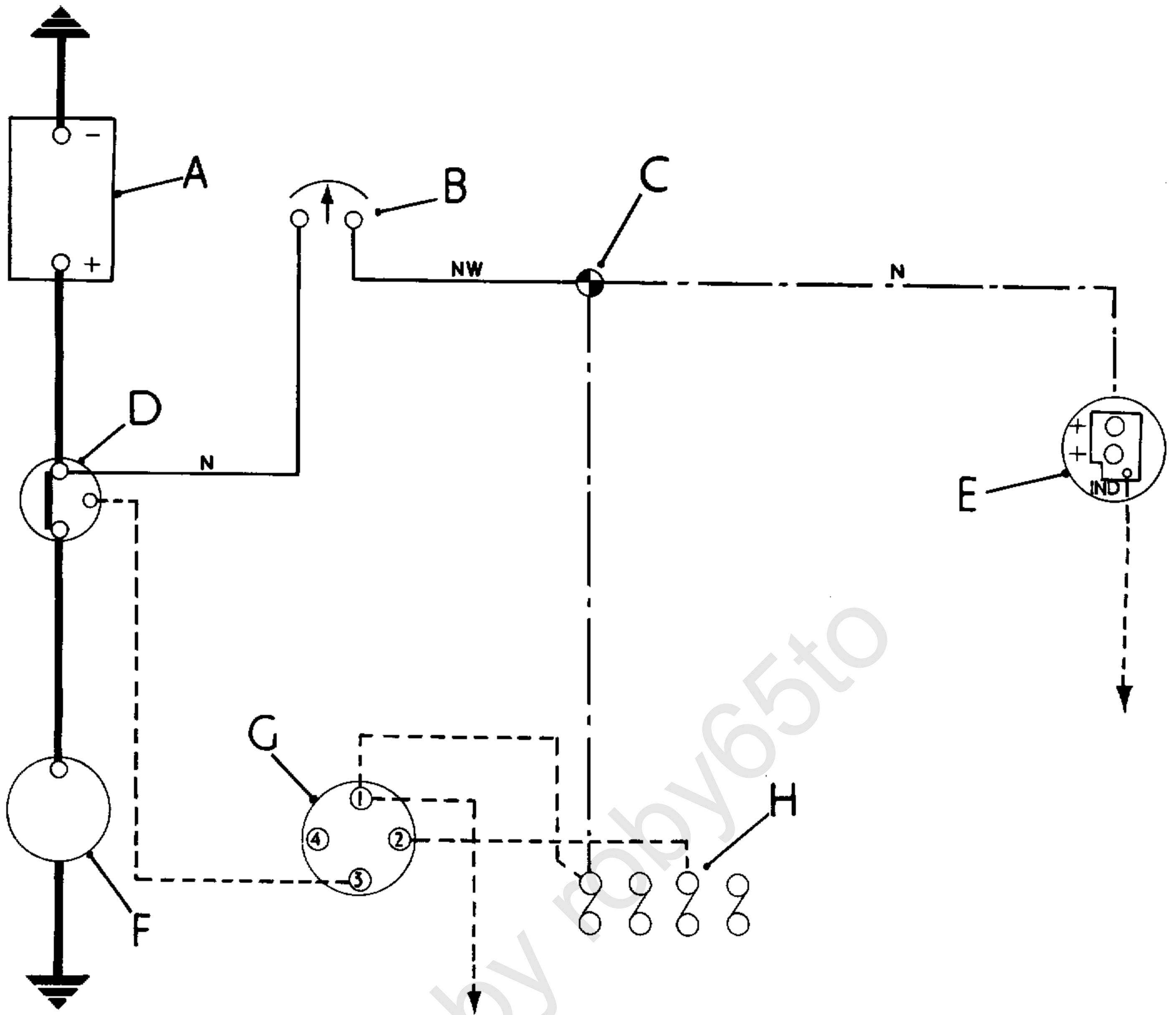


Fig. 2. Electrical circuit for ammeter installation - Petrol models
with 16 ACR alternator

A - Vehicle battery

D - Starter solenoid

G - Ignition switch

B - Ammeter

E - Alternator

H - Fuse unit

C - Terminal post

F - Starter motor

Dotted lines are existing leads

Chain dotted lines are leads repositioned from starter solenoid to terminal post

Full lines are new leads

Lead colours: N - Brown

 W - White

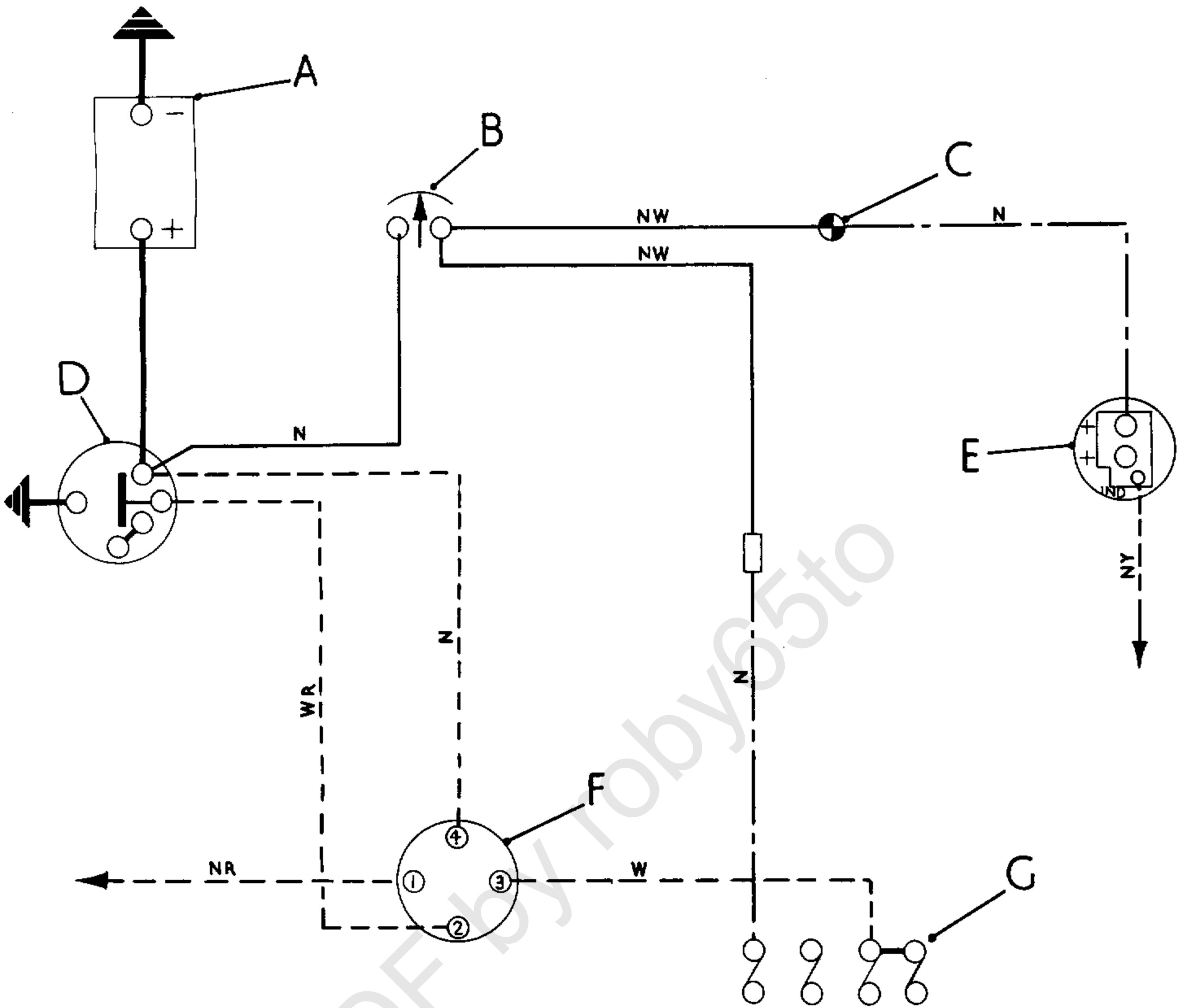


Fig. 3. Electrical circuit for ammeter installation - Diesel Models with 16 ACR alternator

A - Vehicle battery

D - Starter solenoid

G - Fuse unit

B.- Ammeter

E - Alternator

C - Terminal post

F - Starter switch

Dotted lines are existing leads

Chain dotted lines are repositioned leads

Full lines are new leads

Lead colours:

N - Brown

R - Red

W - White

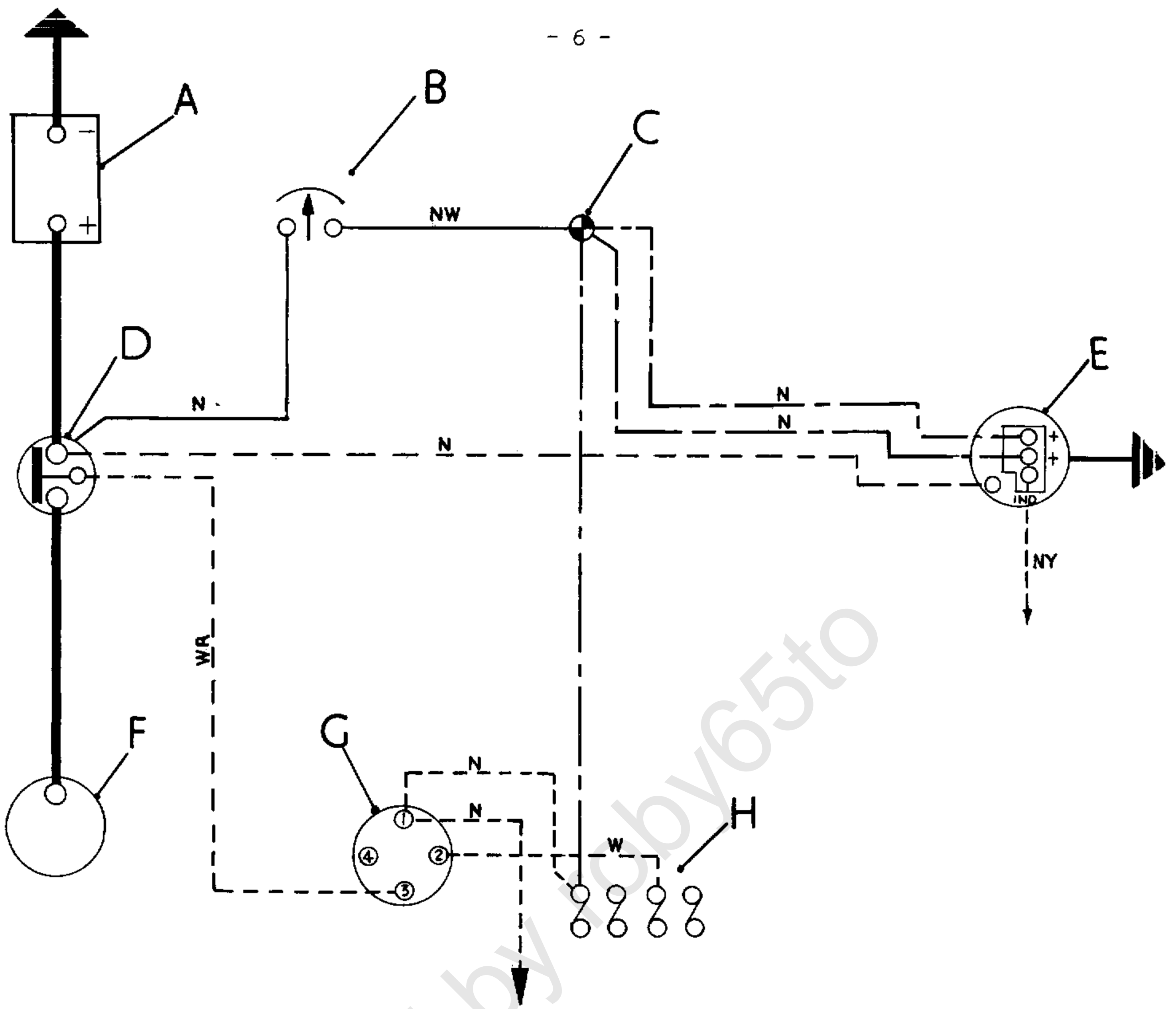


Fig. 4. Electrical circuit for ammeter installation - Petrol Models
with 18 A C R alternator

- | | | |
|---------------------|----------------------|---------------------|
| A - Vehicle battery | D - Starter solenoid | G - Ignition Switch |
| B - Ammeter | E - Alternator | H - Fuse Unit |
| C - Terminal post | F - Starter motor | |

Dotted lines are existing leads

Chain dotted lines are lead repositioned from starter solenoid to terminal post

Full lines are new leads

Lead colours: N - Brown
 W - White

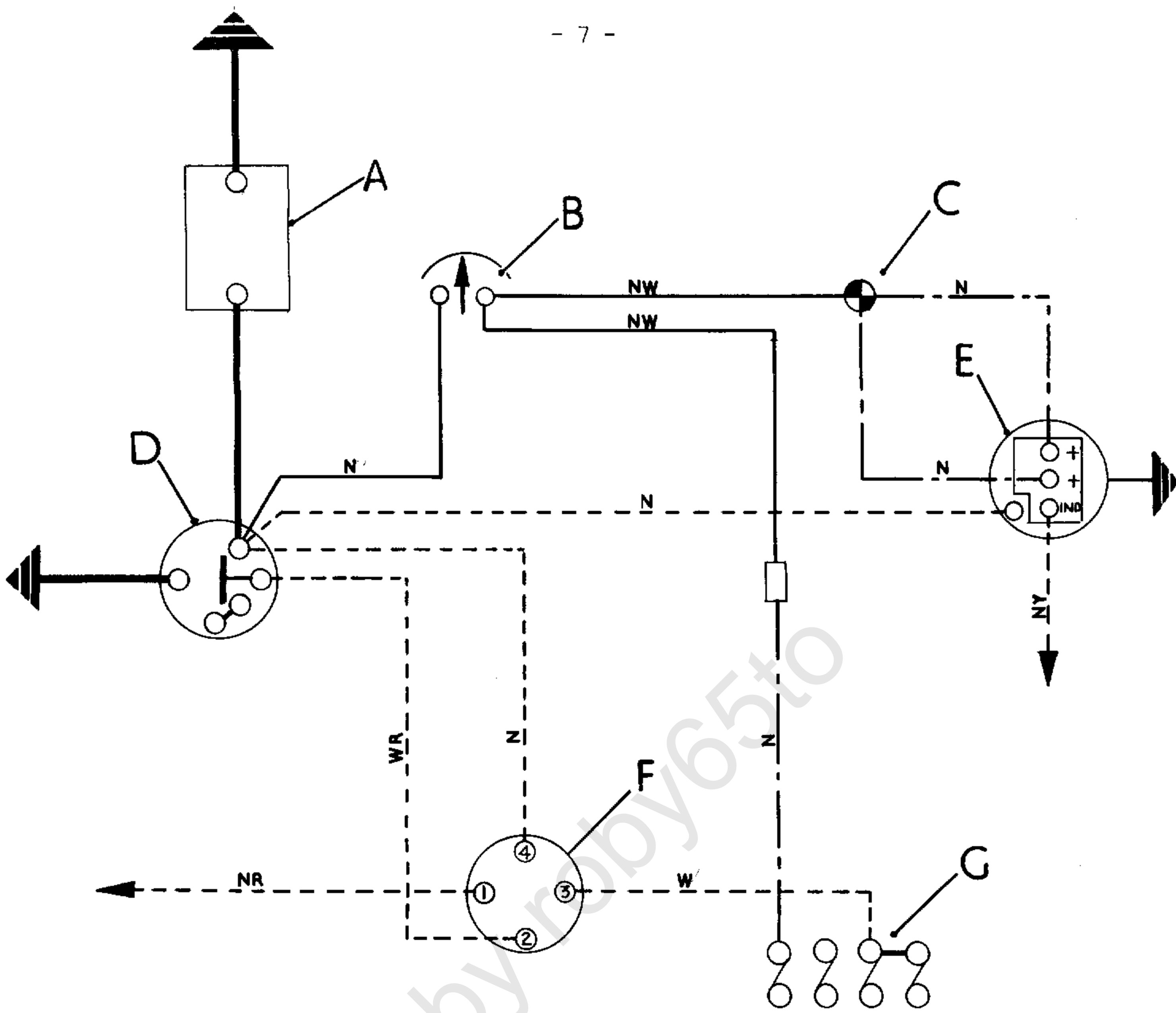


Fig. 5. Electrical circuit for ammeter installation - Diesel Models with 18 A C R alternator

- | | | |
|---------------------|----------------------|---------------|
| A - Vehicle battery | D - Starter solenoid | G - Fuse unit |
| B - Ammeter | E - Alternator | |
| C - Terminal post | F - Starter Switch | |

Dotted lines are existing leads

Chain dotted lines are repositioned leads

Full lines are new leads

- Lead colours:
- | |
|------------|
| N - Brown |
| W - White |
| R - Red |
| Y - Yellow |

14. Remove the securing screws and ease the instrument panel forward.
15. Connect cable 579220 to the ammeter, the red/white lead to the red/white lead from the ammeter and the black lead to the ammeter fixing clamp Fig.6
16. Pass the free end of cable 579220 into the back of the instrument housing.
17. Disconnect the existing red/white lead from the panel light switch and connect the red/white lead from cable 579220 to the switch terminal.
18. Reconnect the original red/white lead to the male blade connector included on the end of cable 579220.
19. Connect the black lead of cable 579220 to the fixing clamp of the main three-in-one instrument.
20. If more than one instrument is fitted in the front of the parcel tray, connect the instrument illumination circuit as illustrated, Fig.6 using lead 528920.
21. Locate the leads between the ammeter and the instrument housing beneath the back of the parcel tray and resecure the parcel tray rear fixings.
22. Using cleat 240429 (2) clip the ammeter cable to the main harness in the engine compartment.
24. Reconnect the battery earth lead, start the engine and check the ammeter for correct operation.

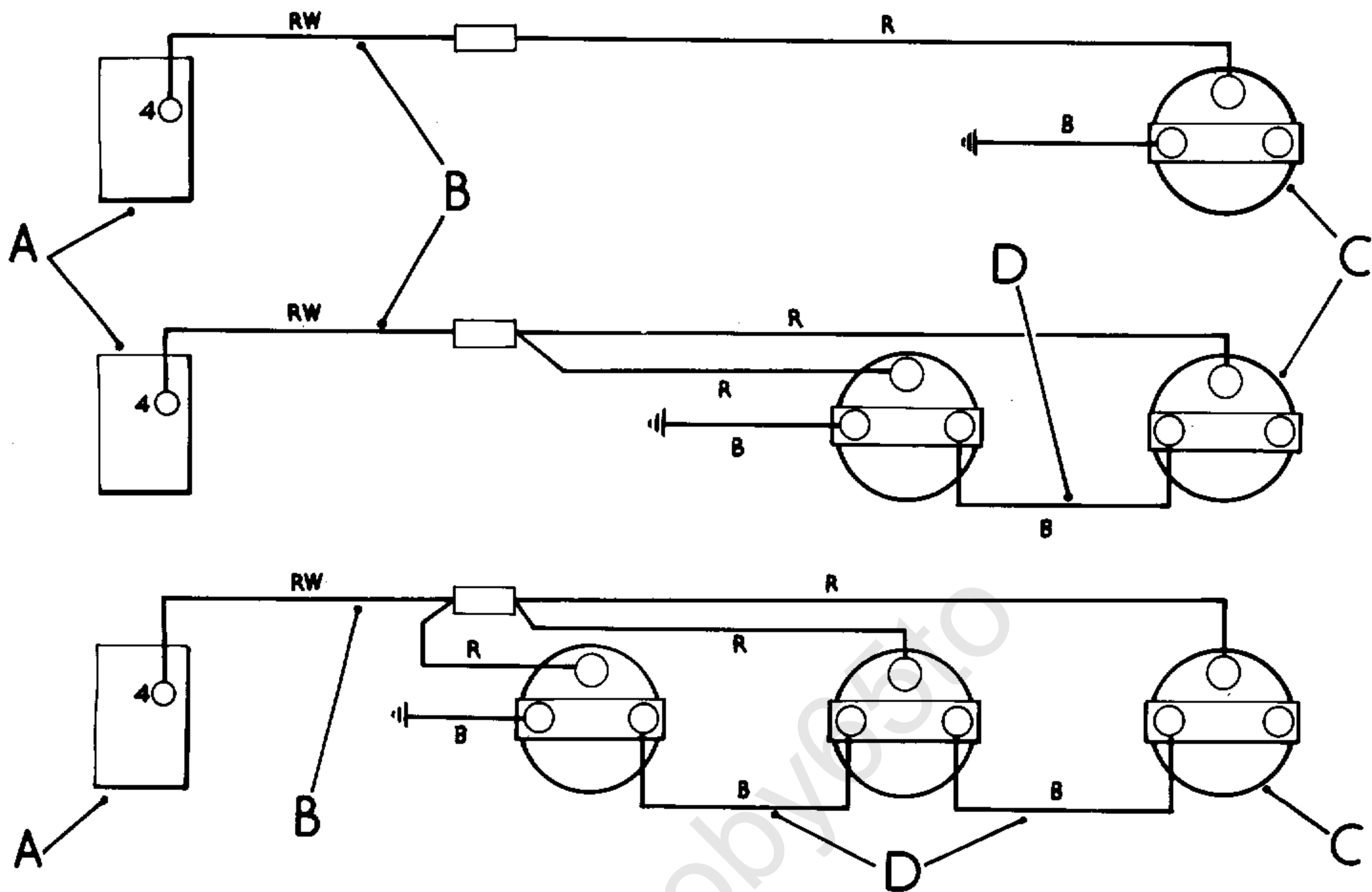


Fig. 6. Electrical circuit for instrument illumination showing alternatives for single, double and tripple instrument installations

A - Panel light switch

B - Cable 579220

C - Instruments

D - Lead 528920

Lead colours: B - Black
 R - Red
 W - White