

**BL Components Ltd.**

FITTING INSTRUCTION NO: 607701

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NOTE

The Manufacturers reserve the right to vary their specifications with or without notice, and at such times and in such manner as they think fit. Major as well as minor changes may be involved in accordance with the Manufacturer's policy of constant product improvement.

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**SUBJECT:** FITTING OIL PRESSURE GAUGE**MODELS:** Land-Rover Series III**BRIEF DESCRIPTION:**

The oil gauge assembly provides a visual indication of the operating pressure in the engine lubrication system. The oil pressure is measured at the main (external) oil filter outlet; and is transmitted electrically to the gauge, mounted in the centre of the dash parcel shelf.

**PARTS REQUIRED:**

OIL PRESSURE GAUGE COMPLETE ASSEMBLY

2½ litre Petrol and Diesel models 1 607700

2.6 litre Petrol models 1 607702

comprising:

DescriptionQty Part No

Oil pressure gauge c/w light bulb	1	589137
Transmitter for oil pressure gauge (½" UNF)	1	555704
Shim for oil pressure transmitter	As reqd	587667
Lead, transmitter to gauge	1	545147 2½ litre
Lead, transmitter to gauge	1	589060 2.6 litre
Lead, connector to gauge	1	545325 2½ litre
Lead, connector to gauge	1	545326 2.6 litre
Lead, stabiliser 12v. feed	1	547134
Cable assembly for gauge illumination	1	579220
Grommet for grommet plate	1	233243
Cleats, leads to main harness	4	240429
Lead, instrument earth loop	As reqd	528920
Banjo, for oil pressure switch (⅜ BSF)	1	542506)
Joint washer for banjo	2	232039)2½ litre
Adaptor, banjo to oil filter (½" UNF) for transmitter attachment	1	587666)

PROCEDURE:

1. Prop open the bonnet.
2. Disconnect the battery earth lead.

2½ Litre engines - items 3 to 7

3. Disconnect the electrical lead from the oil pressure switch and remove the switch from the oil filter.
4. Fit adaptor 587666 with banjo 542506 and joint washer 232039 to the oil filter.
5. Refit the oil pressure switch to the banjo connection and reconnect the electrical lead.
6. **IMPORTANT.** The oil pressure transmitter must be mounted with the two terminals within the limits shown in Fig.1., using shims 512387 as necessary.
7. Fit the oil pressure transmitter 555704 to the adaptor connection on the oil filter, using shims as required.

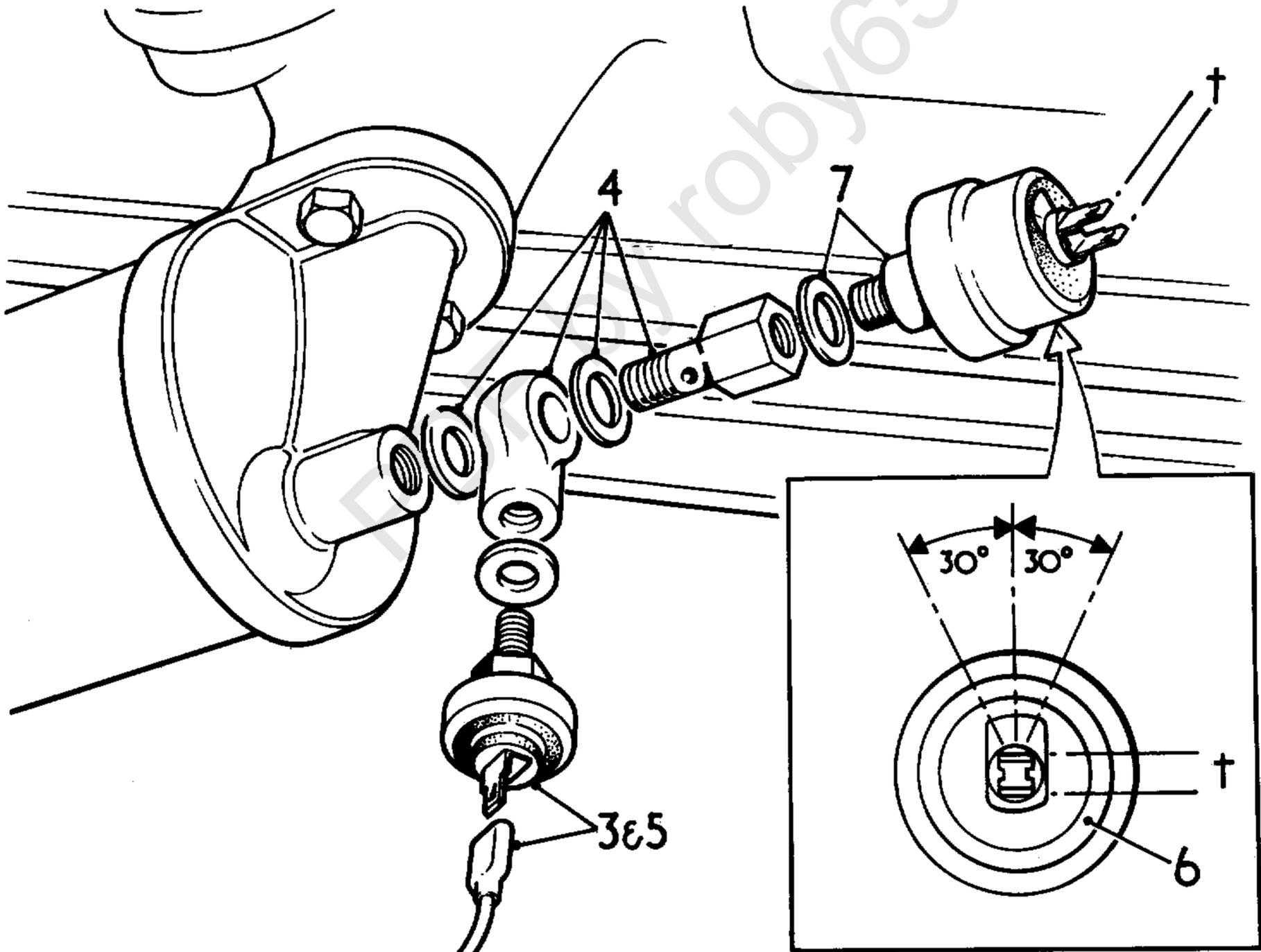


Fig.1. Oil pressure transmitter - 2½ Litre models

2.6 Litre engines - items 8 to 9

8. Remove and discard the blanking plug from the end of the oil filter adaptor front mounting lug.
9. Fit the oil pressure transmitter 555704 in place of the blanking plug, using shims 512387, detailed in item 6 and shown in Fig.1.

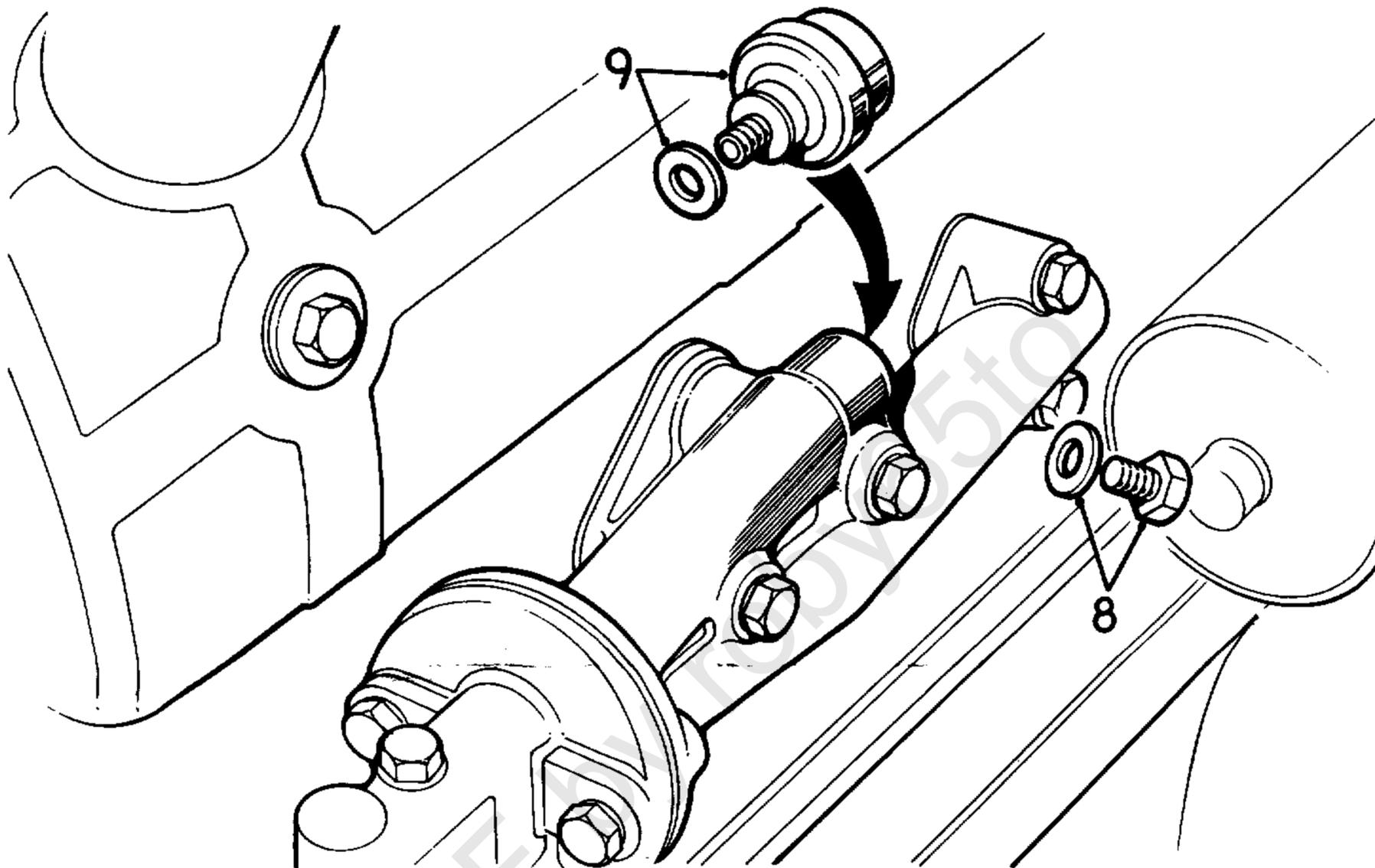


Fig.2. Oil pressure transmitter - 2.6 Litre models

10. Working from the engine compartment, fit grommet 233243 to the grommet plate at the right-hand side of the dash.
11. Connect lead 545147 - 2½ Litre engines, or lead 589060 2.6 Litre engines, to the oil pressure transmitter.
12. Pass the free end of the transmitter lead through the grommet in the grommet plate.
13. From inside the driving compartment, fit the oil pressure gauge 589137, utilising the pre-pierced hole which must be located under the covering trim at the front of the parcel tray.
14. Ease the back of the parcel tray away from the dash by prising out the peg retainers.

15. Working down the back of the parcel tray, locate the transmitter lead (previously passed through the grommet plate) and connect it to the oil pressure gauge.
16. Remove the securing screws and ease the instrument panel forward.
17. Connect lead 547134 to the voltage stabiliser mounted at the back of the speedometer. Pass the free end of the lead around the back of the instrument housing and into the parcel tray.
18. Connect lead 545325 - 2½ Litre engines, or lead 545326 - 2.6 Litre engines between the lead to the voltage stabiliser and the oil pressure gauge.

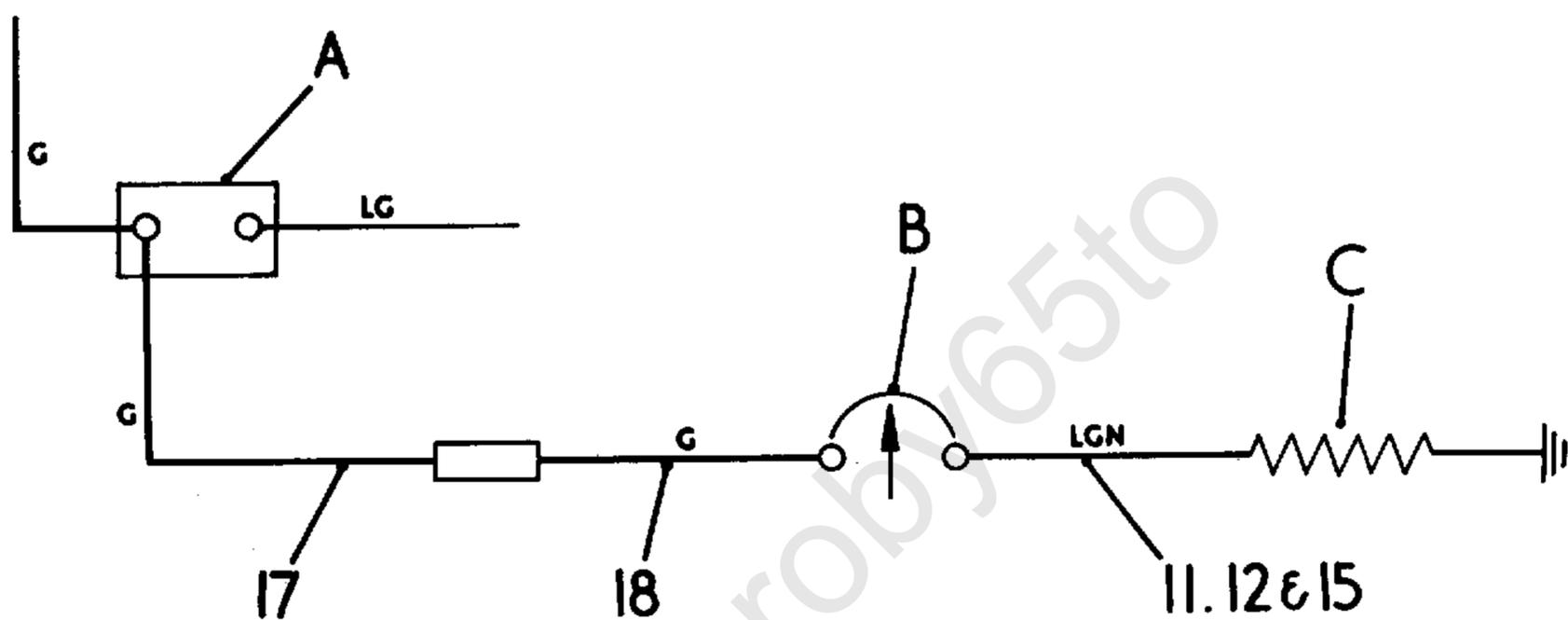


Fig.3. Electrical circuit for oil pressure gauge

- A - Instrument voltage stabiliser
- B - Oil pressure gauge (12 volt rating)
- C - Oil pressure transmitter

Lead colours

G - Green            L - Light            N - Brown

19. Connect cable 579220 to the oil pressure gauge, the Red/White lead to the red lead from the gauge, and the black lead to the gauge clamp fixing.
20. Pass the free end of the cable 579220 into the back of the instrument housing.
21. Disconnect the existing Red/White lead from the panel light switch and connect the Red/White lead from cable 579220 to the switch terminal.

22. Reconnect the original Red/White lead to the male blade connector included on the end of cable 579220.
23. Connect the black lead of cable 579220 to the fixing clamp of the main three-in-one instrument.
24. If more than one instrument is fitted in the front of the parcel tray, connect the instrument illumination circuit as illustrated in Fig.4, using lead 528920.
25. Locate the leads between the oil gauge and the instrument housing beneath the back of the parcel tray and resecure the parcel tray rear fixings.
26. Refit the instrument panel.
27. Using cleat 240429 (4) clip the oil transmitter lead to the main harness in the engine compartment.
28. Reconnect the battery earth lead, start the engine and check the oil gauge for correct operation.

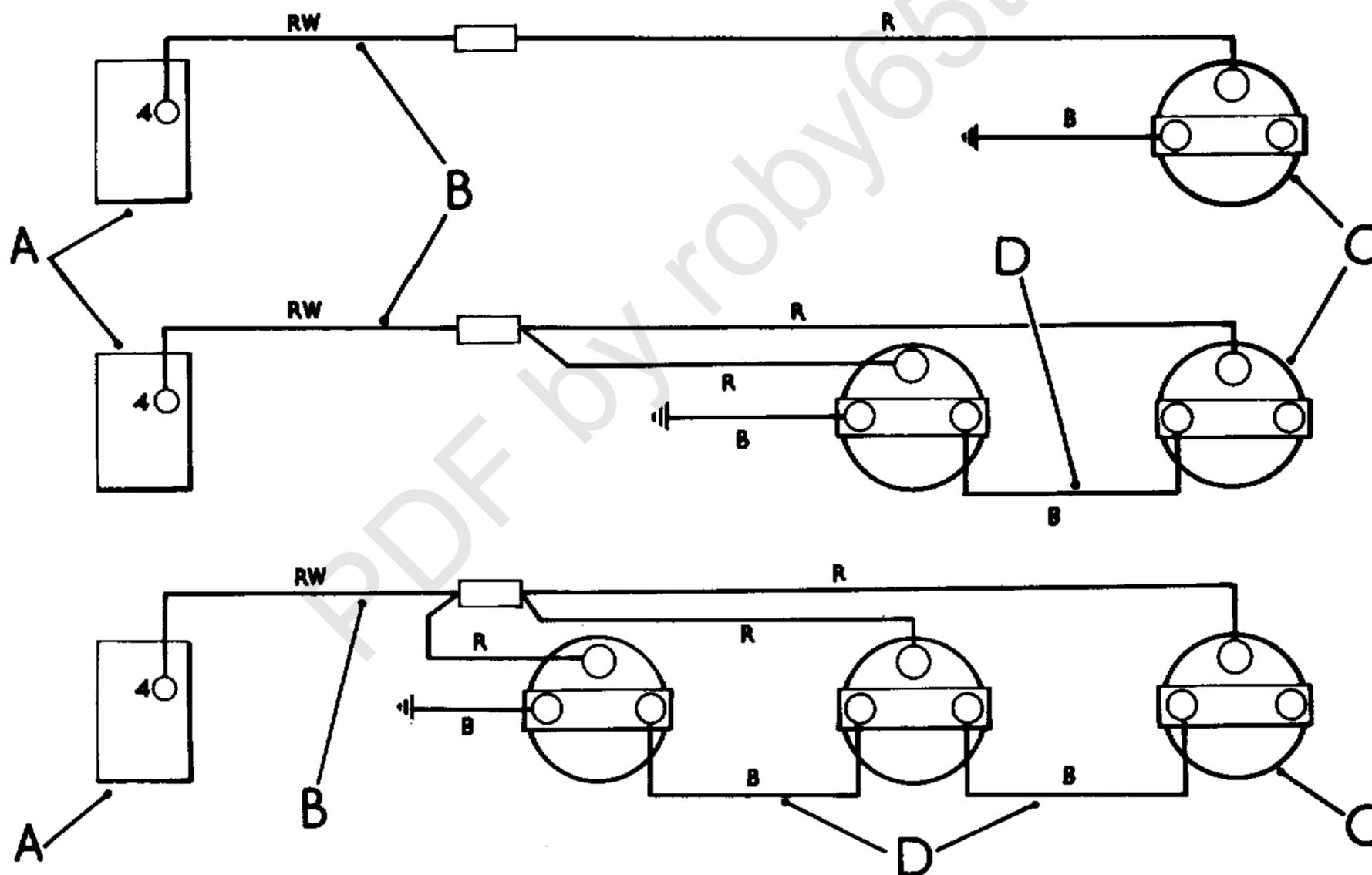


Fig.4. Electrical circuit for instrument illumination (showing alternatives for single, double or triple instrument installations)

- |                        |                  |
|------------------------|------------------|
| A - Panel light switch | B - Cable 579220 |
| C - Instruments        | D - Lead 528920  |

Lead colours:

- B - Black      R - Red      W - White