

SECTION 8: LIGHTING & ELECTRICAL

- 8.1 Lights
- 8.2 Reflectors
- 8.3 Automatic Transmission Safety Switch
- 8.4 Wiring
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8.1 LIGHTS

8.1.1 Headlights

- 8.1.1.1 Two headlights of equal strength, equidistant from the centre line of the Street Rod must be fitted.
- 8.1.1.2 The minimum centre distance between these lights must be 600mm.
- 8.1.1.3 The centre of the headlight must be between 500mm and 1400mm above the ground.
- 8.1.1.4 Headlights must have high and low beam settings, with a control operable from the normal seating position that permits the driver to dip the headlights for approaching traffic.
- 8.1.1.5 Headlight performance must comply with Rule 81 of the AVSR; for example, they must only emit white light.
- 8.1.1.6 The range of the light produced by the headlights must comply with Rule 82 of the AVSR.
- 8.1.1.7 It must be possible to change the headlights from high-beam to low-beam in accordance with Rule 83 of the AVSR.
- 8.1.1.8 A blue warning light to indicate high beam operations must be fitted on the dash where it is visible to the Street Rod driver from the normal seating position.
- 8.1.1.9 HID headlights must not be used for low beam application.
- 8.1.1.10 Vintage headlights may be upgraded with the installation of halogen inserts, or the fitting of halogen bulbs.

Note: As the focal point of halogen bulbs differs greatly from vintage incandescent bulbs, some trialling of the bulb position may be needed. Fitting motorcycle headlights or semi sealed beams into the vintage headlight shells may provide a solution.

- 8.1.1.11 Hidden headlights must automatically rotate to the operative position when the headlight switch is engaged.

8.1.2 Brake Lights

- 8.1.2.1 Two brake lights must be fitted to the rear of the Street Rod, one on either side, with centres between 350mm and 1500mm above ground, and equidistant from the centre line of the Street Rod
- 8.1.2.2 The brake lights must emit a red colour that is visible at least 30m to the rear of the Street Rod whenever the service brakes are applied.
- 8.1.2.3 The brake lights may incorporate a blue lens, not exceed 20mm in diameter, that produces a crimson light when the brake is applied.

8.1.3 Parking Lights

- 8.1.3.1 A pair of parking light must be fitted to the front of the Street Rod.
- 8.1.3.2 The parking lights must be positioned, with centres no more than 510mm inboard from the Street Rod extremity on both sides and at least 600mm apart, equidistant from the centre line of the Street Rod.
- 8.1.3.3 The parking lights must show white to the front.
- 8.1.3.4 The power must not exceed seven watts and they are to be visible at 200 metres.
- 8.1.3.5 The parking lights may be positioned in the headlight assembly.

8.1.4 Tail Lights

- 8.1.4.1 A pair of tail lights must be fitted at the rear of the Street Rod.
- 8.1.4.2 The tail lights must be positioned, with centres no more than 510mm inboard from the Street Rod extremity on either side and at least 600mm apart, equidistant from the centre line of the Street Rod.
- 8.1.4.3 The centre of the tail lights must not be over 1500mm above the ground.
- 8.1.4.4 The tail lights must show red to the rear.

- 8.1.4.5 The tail lights may be incorporated in the rear light assemblies.
- 8.1.4.6 The power must not exceed seven watts and they are to be visible at 200 metres.
- 8.1.4.7 The tail lights may incorporate a blue lens not over 20mm in diameter.

8.1.5 Direction Indicator Lights

- 8.1.5.1 The Street Rod must have a pair of direction indicator lights fitted to both its front and rear.
- 8.1.5.2 The centre height of the lamps in the direction indicator lights must be between 350mm and 1500mm above ground level.
- 8.1.5.3 The centres of the direction indicator lights must be no less than 600mm apart and equidistant from the centre line of the Street Rod.
- 8.1.5.4 The direction indicator lights must display an amber colour.
- 8.1.5.5 Direction indicator lights indicators must flash at between 60 and 120 times per minute.
- 8.1.5.6 The direction indicator lights must be located so that other road users will have an indication of the directional change intended.
- 8.1.5.7 If flashing direction indicator lights are incorporated into the headlight assembly, the flashing indicator must be clearly visible when the headlight is illuminated; and in daylight from 30m for modified vehicles and from 200m for replicas.
- 8.1.5.8 A warning light visible from the normal driving position must illuminate whenever the flashing direction indicator lights are in operation.
- 8.1.5.9 Semaphore indicator lights must only be used in conjunction with standard direction indicator lights, and must only be capable of being raised when the indicators are operated.

8.1.6 Number-Plate Light

- 8.1.6.1 A white light of seven watts or less, must be fitted to the rear to illuminate the rear number-plate when the parking lights or headlights are switched on.
- 8.1.6.2 All letters and numbers on the number-plate must be clearly visible when viewed 20m from the rear of the Street Rod when the number-plate light is illuminated.
- 8.1.6.3 No part of the number-plate light's illuminating surface must be visible to the rear or sides of the Street Rod.
- 8.1.6.4 The number-plate light must not flash or pulse.

8.2 REFLECTORS

- 8.2.1 Street Rods must have a rear facing red reflector on either side of the rear of the Street Rod. Many contemporary light assemblies have reflective glass as part of the red lens, however most vintage and reproduction vintage lights do not incorporate this, and separate red reflectors must be fitted.
- 8.2.2 Reflectors should be positioned at equal heights less than 1500mm above ground level, not more than 400mm from the side of the Street Rod.

8.3 AUTOMATIC TRANSMISSION SAFETY SWITCH

All Street Rods fitted with automatic transmissions (manual valve bodies included) must be fitted with a neutral/park safety switch. The switch must prevent operation of the starter motor when a forward or reverse gear has been selected.

8.4 WIRING

- 8.4.1 All sections of the wiring loom must be insulated and regularly secured at a minimum every 300mm.

- 8.4.2 Wiring must only be secured to either brake or fuel lines by means of approved automotive insulating clips. In all other cases wiring must be secured away from fuel lines.
- 8.4.3 Wiring must be adequately secured and clear of exhaust and moving parts.
- 8.4.4 All wiring must be neat and tidy, and any wiring passing through metal sections must be adequately protected from chafing, e.g. by the use of rubber grommets.

8.5 BATTERIES

- 8.5.1 Batteries must be secured and placed in a container or tray suitable for the purpose of holding a battery. Wet-type batteries must be positioned outside the passenger compartment unless it is in an enclosure that is vented to the outside of the passenger compartment, or is a fully sealed type. A dry type battery may be installed inside the passenger compartment.
- 8.5.2 Battery terminals and wiring must be positioned and/or insulated so that there can be no accidental shorting to ground of the live terminal. The battery leads must be secure and kept away from rotating components, fuel system components, and exhaust systems.
- 8.5.3 Fusible links between the battery and powered components should be used.