LED SUBSTITUTE PROPOSAL
INTRODUCTION:
If a LED Substitute is installed on a lamp, the lamp must be approved with R37 and optionally with LED substitutes.

During the last session in October, GRE pointed out the possible misuse of LED substitutes as retrofits in lamps and/or vehicles that were not type approved for using such light sources.

The proposed measures, such as consumer warning on packaging and a website with a list of compatible vehicle models, were considered as not sufficient

A different cap for LED substitutes compatible with filament light sources can solve this issue.
PY21W (BAU15S)
NEW SOCKET FOR PY21W/LED COMPATIBLE WITH PY21W.
BULB HOLDERS

Existing PY21W Bulb holder

Proposed PY21/LED bulb holder

Notch
MOUNTING OF PY21W/LED IN THE BULB HOLDER. SOLUTION COMPATIBLE WITH THE REGULATION REQUIREMENT.
R5W (BA15S)
New socket for R5W/LED compatible with R5W.
Bulb holders

Existing Bulb Holder BA15s

LED substitutes socket BA15s
MOUNTING OF R5W/LED IN THE BULB HOLDER. SOLUTION COMPATIBLE WITH THE REGULATION REQUIREMENT.

This keying makes impossible to put LED substitute in existing bulb holder by mistake.
P21/5W (BAY15D)
New socket for P21/5W/LED compatible with P21/5W.

P21-5W

LED substitutes

New pin
Bulb holders

Existing Bulb Holder

LED substitutes socket

Notch
MOUNTING OF P21/5W/LED IN THE BULB HOLDER. SOLUTION COMPATIBLE WITH THE REGULATION REQUIREMENT.

This keying makes impossible to put LED substitute in existing bulb holder by mistake..
The possibility to put the addition pin ( ) in another plan than the one where the existing pins are located should be investigated (see page 17).
R37 and LED SUBSTITUTES in the Lamps each with its specific cap.

If the lamp is approved for filament (R37) use only:

If the lamp is approved for filament (R37) and LED substitute (R128):

Can not be put in the lamp
For which reason the 3rd pin for preventing incorrect assembly light source/ lamp must be only in these angular sectors?

If any problem remains, the additional pin can be in another plan that the initial ones.