Ultraflex4x4
Off road Harness Kit.

UF-HAR-OR-12

The Harness kit you have been supplied has multiple uses:

Wiring

1./ There are 4 x H4 type connectors these are also suitable for H1
2./ The grey wire is the low beam
3./ The brown wire is the high beam
4./ The black wire is the earth or negative on vehicle
6./ The RED wire is the battery 12Volts positive OR the Positive terminal on the GROUNDED battery in 24V systems.

For vehicles with quad lights:

A./ It is only legal to run two outer lights on low beam
(if fitting LED units) (ADR 13/00)
B./ Only the two outer DRL are legal to connect if fitting new lights also
C./ You may cut the inner light's grey wire to prevent the low beam in the inner lights comming on.
D./ You may reconnect these inner low beams to a fog light switch
the switch must have a rating of 5 Amps for the Ultraflex4x4 LEDs (60W)
D1./ Snip the inner grey wire on the passenger side against the harness.
D2./ Snip the grey wire on the drivers side inner light at the mid point.
D3./ Run a wire from the Light ends of BOTH these inner connectors to one side of the fog light switch.
D4./ Run a wire from the Harness side of the Drivers side inner light (mid way snip) to the other side of the fog light switch(one side not both).

The placement of the harness on Toyota is on passenger side between the battery and the radiator support panel. The red wire goes directly to the battery.
The placement of the harness on Landrover is on drivers side between the lights and the radiator support panel. The red wire goes directly to the battery.

The black wires go to the 10mm bolts on each guard. (use some grease to prevent corrosion).

The BLACK MALE connector with the red, white and black wires plugs into the passenger side OUTER light socket on the vehicle harness.

For other DUAL LAMP vehicles you do not have to do any changes.
the inner or spare pair of connectors may be used to easily trigger Fog/ Spot lights, with appropriate wiring.

Negative Switching Issues:

The car is Positive Ground but the wiring is switching the Negative and supplying the positive as a Common. This creates complications !

Spot lights wired into the OEM harness cause the voltage on the negative lines that are NOT connected to Rise
above the relay normal turn off voltage. Around 5-7 Volts
Toyota are Famous for wiring issues and mostly because they put the High Beam Dash indicator across the low beam switch.
When a harness kit is installed .. it gives a feedback voltage to the Coil trigger of the relays.

Now when Spotlights are wired prior to the installation of a Positive switching harness,
This creates MORE voltage feed back !
The remedy here is either :

1./ Install 2 x 6 ohm 50W resistors across common and low beam and common and high beam on your OEM harness. This is power hungry and the
resistors get HOT .. like 120 Degrees C Hot .. !

or

2./ Put a 27 ohm resistor in the same place *
3./ Change the 85 and 86 pin on your spot light wiring .

One goes to the new harness high beam
Once goes to earth or ground or negative.

OR Ask for UF-H4-FUDGE-FIX .. this is a resistor pack wired to fix feed back issues.

Do some reading here :
https://www.facebook.com/notes/ultraflex-4x4/installaion-notes-for-60-and-80-series-toyota-led-lights/1543968692307899/

Go to Facebook.com
look for ultraflex4x4 see the left hand side for NOTES look under notes for 60 and 80 series LED instructions for more information.

*For 24Volt Systems the resistor should be 66 ohms and 10W

Variations:
UF-HAR-OR-12R
As above but has resistor for High beam indicator on 60 Series Toyota etc
UF-HAR-OR-24
This is triggered via 24V
UF-HAR-OR-24R
as above but has resistors for 60 series Toyota

UF-HAR-OR-12-P
This is a Perentie FFR kit with 3M of Silicone HT wire for connection to remote batteries.

CONDITIONING OF LIGHTS:
During WINTER months the lights made in a humid climate may cause some fog to appear in our colder climate. Please remove the breathers at the rear and then leave them on a warm window sill for one day prior to installation. Put the breather back on before fitting !

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LED Lights : Green wire Turn signal, Red Wire DRL or Parking light.

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