FITTING INSTRUCTIONS

HARNESS PART NUMBER: **SJBHARN2.**

HARNESS DESCRIPTION: **ARB WIRING LOOM SOLIS | LOOM AND DIMMER.**

APPLICATION: **ARB SOLIS DRIVING LIGHTS – 12V VEHICLES ONLY.**

FITTING TIME: **60 MINUTES APPROX.**

COMPATIBLE WITH: **SOLIS LIGHTS – SJB36F, SJB36S, SJB21S, SJB21F. SJB36F2, SJB36S2, SJB21S2, SJB21F2**

COMPLIANCE:

- CE.
- UKCA.
- UNECE R10.
- CISPR25 CL3.
- RoHS.

FOR HIGH VOLTAGE (HV) ELECTRIC VEHICLES



Work on and fitting parts to High Voltage (HV) electric vehicle which have the potential to involve an interaction with the HV systems on that vehicle presents significant risks of serious injury or death due to electric shock, arc flashes and potential explosions or fires.

When undertaking work or fitting parts that will likely involve an interaction with the vehicles HV system, appropriately qualified personnel must undertake such work or fitment of those parts in accordance with company procedures and local regulatory requirements. The qualifications required may vary depending on the location or region.

Failure to comply with these requirements and instructions may result in serious injury or death.

NOTES:

- This harness suits 12V vehicles only, for **24V vehicles** the 12V relays should be replaced with 24V relays.
- For negatively switched headlamp vehicles, an additional relay is required to operate the driving lights. Please follow Step5 on Page2 of this instruction.
- For CANBUS controlled headlamp vehicles, the high beam and clearance light signals are not available without additional hardware. Please contact your vehicle supplier or ARB for advice on how to connect with these.
- Ensure that the relays and fuses are mounted upright with the terminals facing down. Locate these where it is protected from submersion or splashing from water and mud.
- This product must be installed exactly as per these instructions.
- The installation of this product may require the use of specialised tools and/or techniques.
- It is recommended that this product is only installed by trained personnel.
- These instructions are correct at the date of publication. ARB Corporation Ltd. cannot be held responsible for the impact of any changes subsequently made by the vehicle manufacturer.
- During installation, it is the duty of the installer to check correct operation/clearances of all components.
- Unless otherwise instructed, tighten fasteners to specified torque.
- Ensure all electrical connections are correct and tight with good earth connection to the body and/or chassis. Failure to do this may result in component failure or fire.
- Make sure all wires are securely fastened away from any hot, sharp or moving surfaces. Do not fasten any wires to the brake lines, fuel lines or high voltage cables.
- Make sure that all electrical connections are strong and well insulated.
- Work safely at all times.

ARB 4x4 ACCESSORIES

Corporate Head Office

42-44 Garden St
Kilsyth, Victoria
AUSTRALIA, 3137

Tel: +61 (3) 9761 6622
Fax: +61 (3) 9761 6807

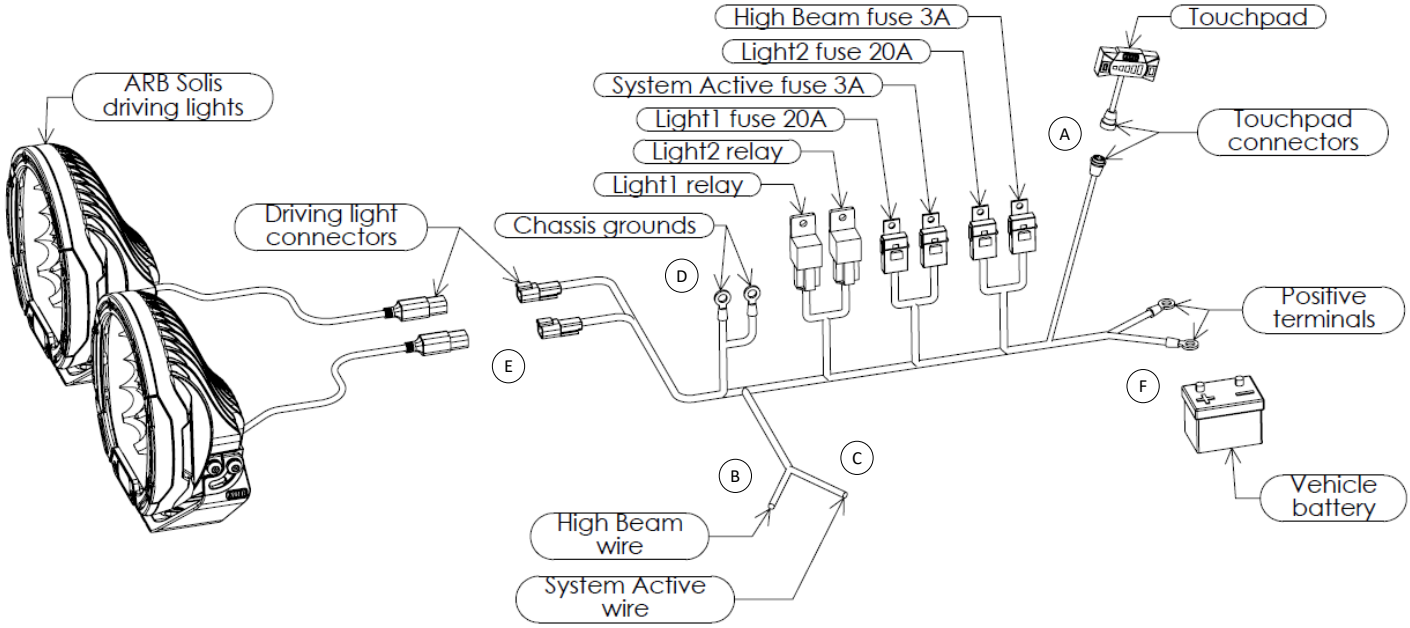
Australian enquiries: sales@arb.com.au
North & South American enquiries: sales@arbusa.com
Other international enquiries: exports@arb.com.au

www.arb.com.au

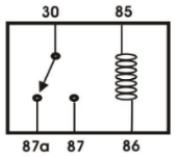
	Do not pull on the wiring harness forcefully		Do not connect wiring harness to engine		Ensure all connections are tight and pushed home

Copyright © 2016 ARB Corporation Limited. All Rights reserved, this document must not be reproduced without the express authority of ARB Corporation Limited.

FITTING PROCEDURE:



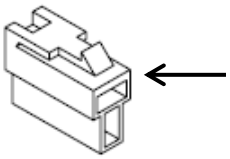
1. Remove the negative (-ve), then the positive (+ve) terminal from the battery(s). For High Voltage vehicles, HV isolation is required.
2. Layout the harness in the engine bay and mount the relays & fuses in a convenient, dry, sheltered and secure location. The supplied bracket and fasteners may be used for ease of mounting the relays & fuses.
3. With the harness, feed the Touchpad connector Ⓐ through the vehicle firewall grommet and pull through into the vehicle cabin. To assist, it is recommended to fold back the cable and pull the connector through tail first. If required, apply lubricate.
4. Place the Touchpad with flylead Ⓐ in the vehicle cabin and connect to the harness. Mount the Touchpad in a convenient location on the vehicle dashboard. For the best sticky pad adhesion, ARB recommend using primer (e.g. 3M Primer 94) on the dashboard to prepare the surface.
5. For all negatively switched headlamp vehicles, complete either option below, otherwise continue to Step 6.
    a. Purchase & install ARB part SJBRELAY. Follow instructions provided with SJBRELAY for negatively switched vehicles.
    b. Obtain a switching relay and connect the relay terminals as per below:



Relay Terminal	Connection
85	Vehicle positive high beam wire
86	Vehicle negative high beam wire
87	SJBHARN2 harness, Yellow High Beam wire Ⓑ
87a	-
30	Battery positive or vehicle ignition

Continue to Step 7.

6. On the vehicle, locate the high beam wire. Join the vehicle high beam wire to the harness High Beam wire Ⓑ, use one of the supplied crimp splices to join the wires.
   For some vehicles, ARB CANDEC or a headlamp adaptor loom is required to obtain the high beam signal. For these vehicles, crimp the supplied terminal onto the harness High Beam wire Ⓑ and house into the upper position of the supplied white 2-way connector as shown. Insert the 2-way connector into the ARB CANDEC loom mating connector or headlamp adaptor loom mating connector.



7. Connect the System Active wire Ⓒ with the vehicle front clearance light wire (parker), use one of the supplied crimp splices to join the wires. Alternatively, this can connect with the illumination circuit within the cabin or ARB CANDEC parker output.
8. Connect the Chassis grounds Ⓓ to a suitable ground point on the vehicle body or chassis. Do not connect directly to battery negative.
9. Connect the Driving light connectors to the Solis driving lights Ⓔ. Ensure the locking tab fully engages, an audible click is heard when the connectors are secure. Check all connections and fasten all cables with supplied cable ties.
10. Connect the two Positive terminals Ⓕ to the vehicle start battery positive terminal.
11. Reconnect the positive (+ve) terminal, then the negative (-ve) terminal to the battery(s).
12. Check correct operation of the Solis driving lights as per table below.

Vehicle Parkers	Vehicle High Beam	Solis Touchpad	Solis Lights
OFF	OFF	OFF	OFF
ON	OFF	OFF *(ARB button - Red)*	OFF
ON	OFF	ON *(ARB button - White)*	OFF
ON	ON	OFF *(ARB button - Red)*	OFF
ON	ON	ON *(ARB button - White)*	ON

Copyright © 2016 ARB Corporation Limited. All Rights reserved, this document must not be reproduced without the express authority of ARB Corporation Limited.