

Land Rover Standard Operating Procedure

Aluminium coating process for new replacement parts

Aluminium Parts

Increasing numbers of Land Rover vehicles have aluminium body panels that require careful handling when being replaced or repaired. New parts are delivered with a protective coating (e-coat) which should not be removed. The following processes **MUST** be used. Failure to use the correct process will invalidate the warranty of the part and vehicle. Always refer to the product Technical Data Sheets (TDS) where applicable.

01.	New <u>non-damaged</u> replacement part preparation	 Clean part according to TDS.	 Use a lint free cloth to clean the part. Do not allow product to dry on the surface.	 Wipe dry with a clean lint free cloth.	 Sand the part according to TDS.	 Do not break through the e-coat. If the e-coat is broken through go to step 02.	 Clean according to TDS. Go to step 05.
02.	New <u>damaged</u> replacement part preparation Part A	 Clean part according to TDS.	 Use a lint free cloth to clean the part. Do not allow product to dry on the surface.	 Wipe dry with a clean lint free cloth.	Identify the extent of the damage. For dents, scratches or breaks in the e-coat prepare with tools dedicated to aluminium processing.	 Prepare and clean the damaged area according to TDS. Go to step 03.	
03.	New <u>damaged</u> replacement part preparation Part B	Caution Do not apply polyester stopper or body filler direct to aluminium.	All exposed bare aluminium must be coated with an approved Epoxy Primer Before applying stopper or filler.	 Mix Epoxy Primer and apply to the damaged area according to TDS.	 Dry and sand the Epoxy Primer according to TDS. Do not break through. For polyester repairs go to step 04.	 Clean according to TDS. Go to step 05.	
04.	New <u>damaged</u> replacement part preparation Part C	 Clean part according to TDS.	 Mix and apply the polyester material to the sanded primer.	 Caution Do not apply the polyester stopper or body filler direct to aluminium.	 Dry and sand the polyester material according to TDS.	 Clean according to TDS. Go to step 05.	
05.	New or <u>repaired</u> replacement part <u>priming</u>	Repaired or new parts with sanded e-coat can be primed with an approved 2K primer or surfacer.	 Mix 2K primer or 2K surfacer and apply to the entire part or repair zones.	 Dry and sand the primer according to TDS.	 Clean the primer according to TDS. Reinstall sealer as required. Go to step 06.		
06.	Basecoat colour for <u>primed</u> and <u>sanded blend</u> areas	 Clean according to TDS.	Primed and sanded parts can now be painted with approved basecoat material.	 Mix and apply the basecoat colour according to the TDS.	 Dry according to TDS. Go to step 07.		
07.	Clear coat for <u>base coated</u> or fine <u>sanded blend</u> areas	After drying the base coat the approved clear coat can be mixed and applied.	 Mix and apply the clear coat according to TDS.	 Dry according to TDS.			