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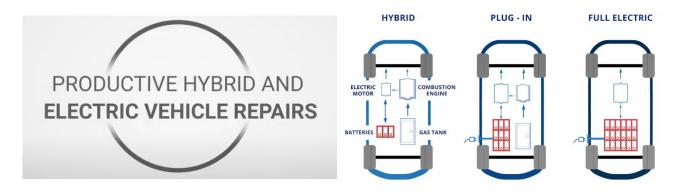
Electric / Hybrid Vehicles

Technical Bulletin

05/03/2021

DESCRIPTION

The growth of electric and hybrid electric vehicles continues to increase in the automotive sector, which is also being driven by the introduction of government legislation. Vehicle manufacturers are transitioning away from internal combustion engines fuelled by diesel and petrol to meet the demands from legislation but also consumer demands. As repairers begin to see more of these type of vehicles being damaged and subsequently repaired, precautions have to be considered to execute an effective repair without causing damage to the electrical components.



CONSIDERATIONS

These guidelines are generic and detailed information on the make and model should be acquired from the relevant OEM to ensure safe repair at all times so as to prevent damage and or injury.

Risk assessment has must be conducted by the repairer to ensure all requirements are met for their equipment, environment and the type of vehicle being repaired to ensure a safe repair

Carry out pre and post diagnostics and note all error codes prior to carrying out any type of repair, reset and or make the vehicle owner aware of any relevant error codes that could cause an issue with the repair

Always check with the specific OEM and Model for repair methods - this is the ultimate guideline(s)

Some vehicle manufacturers may give advice to remove the main battery prior to any repair or drying cycle

Technician should make all electric and high voltage systems safe to work before entering the bodyshop and or paintshop, consult relevant OEM for further information

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Internal battery temperature should be lower than 30°C before entering the spraybooth and or drying cycle, consult relevant vehicle manufacturer for further information	
Some vehicles require a minimum charge of 45% in the battery before drying to ensure the vehicle will run after drying, consult relevant vehicle manufacturer for further information	
Some vehicles the battery charge is not applicable as it will charge once the engine has been started, consult relevant vehicle manufacturer for further information	
Keys should be removed, and ignition switched off to prevent any cooling systems for the battery systems being initiated during the repair or drying cycle	3
Recommendation on drying temperature is not to exceed 80°C for no longer than 60 minutes, some vehicle manufacturers state maximum 60°C, consult relevant vehicle manufacturer for further information	e
Infra red guidelines is 18kw for no longer than 18 minutes, always consult relevant vehicle manufacturer for further information	ı
Always protect all high-voltage components from direct infra red radiation when IR drying.	

PRODUCTS

Select the products from the below list that suit best your conditions and type of repair

Primer - Surfacer						
		2K PU Primer 488				
30°C	Dry to sand	1.5 hours				
60°C	Dry to sand	30 minutes				
IR drying Medium wave	Dry to sand	(Low) + (High) power (6) + (10)minutes				

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Topcoat					
			2K Topcoat MM320 2K Hardener 728C		
20°C	Dust dry		30 minutes		
20 C	Dry to handle		3.5 hours		
60°C	Dust dry		5-10 minutes		
00 0	Dry to handle		20-25 minutes		
IR drying Medium wave	Dry to handle	(Low) + (High) power (5) + (10) minutes			
Clearcoat					
		2K Xpress Clearcoat 261	2K Clearcoat 288HS	HG Clearcoat 211-C	
		2K Hardener 728C	2K Hardener 728C		
20°C	Dust dry	15 minutes	20 minutes	8 minutes	
200	Dry to handle	7 hours	5 hours	2 hours	
30ºC	Dust dry	13 minutes	-	6 minutes	
	Dry to handle	4 hours	-	2 hours	
60°C	Dust dry	6 minutes	5 minutes	5 minutes	
	Dry to handle	25 minutes	30 minutes	20 minutes	
IR drying Medium wave	Dry to handle	(Low) + (High) power (4) +(8)minutes	(Low) + (High) power (4) +(8)minutes	(Low) + (High) power (4) + (8) minutes	

* For "short wave" IR drying times refer to Infrared curing TDS.

Additional Information

Electric vehicle definitons:

BEV	Battery Electric Vehicle
EV	Electric Battery
HEV	Hybrid Electric Vehicle
PHEV	Plug-in Hybrid Electric Vehicle
MHEV	Mild Hybrid Electric Vehicle



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FOR PROFESSIONAL USE WITH SUITABLE HS&E EQUIPMENT

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. All products agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advices given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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