







**Zero Voltage Check (Two-Pole Volt Meter)**

		Actual Values for High Voltage Battery or Y Harness	Test Voltage:	
		Voltage	Safe	Danger
<b>Vehicle Shut Down 13a</b>	HV + to HV -		†	†
	HV + to GND		†	†
	HV - to GND		†	†
<b>Vehicle Shut Down 13b</b>		Actual Values for High Voltage Connector to Inverter (No Y Harness Used)	Test Voltage:	
		Voltage	Safe	Danger
	HV + to HV -		†	†
	HV + to GND		†	†
	HV - to GND		†	†



# I-CAR BEST PRACTICE – HV SAFETY PROTOCOL

Physical Inspection				
	Safe	Danger	Not Accessible	Comments
Orange HV cable damages	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Corrosion on bonding point of HV components	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
HV connectors damages or contamination	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All potential equalization (bonding) cables are present and functional	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Other Comments

## Potential Equalization Check (Bonding)

		Test Current of Measuring Equipment:						
(Vehicle Initialization 1a -1f) Reference Value 1m Ω / meter (3 feet)	From	To	1 Actual Value mΩ	2 Actual Value mΩ	3 Actual Value mΩ	Safe	Danger	
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/>	<input type="checkbox"/>

Insulation Resistance					
		Actual Values for Battery Side		Test Voltage:	
		Resistance	Voltage	Safe	Danger
(Vehicle Initialization 3a - 3b)	HV + to GND			<input type="checkbox"/>	<input type="checkbox"/>
	HV - to GND			<input type="checkbox"/>	<input type="checkbox"/>
		Actual Values for Inverter		Test Voltage:	
		Resistance	Voltage	Safe	Danger
(Vehicle Initialization 4a - 4c)	HV + to GND			<input type="checkbox"/>	<input type="checkbox"/>
	GND to HV +			<input type="checkbox"/>	<input type="checkbox"/>
	HV - to GND			<input type="checkbox"/>	<input type="checkbox"/>
	GND to HV -			<input type="checkbox"/>	<input type="checkbox"/>



## Test Interlock with Diagnostic Tool when Available

Interlock	Test Point / PID	Safe	Danger
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>

## Evaluation and Test Comments


Danger Move to Quarantine Area

## Recommendation for Release from HV Expert

Suitable for Release	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Signature of High-Voltage Expert		
Date of Test		

## Release from Customer Workshop

Suitable for Release	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Signature of Workshop Representative		
Date of Test		