IdleLogic™ Diagnostic Checklist

Required for Warranty Claim Review Field Diagnostics

Field	Detail				
Dealer Name					
Fechnician Name					
Customer / Fleet Name					
Date of Installation					
Claim Submission Date	e				
BPU Serial Number Fruck Year					
Make					
Model					
Last 8 of VIN					
FleetSavvy TM Status	☐ Active ☐ Inactive	□ Fau	lts DT	Cs	
† STEP 1: VI	□ Active □ Inactive SUAL & PHYSIC. Dection Item				ON Notes
† STEP 1: VI	SUAL & PHYSIC	AL IN	NSPI	ECTIO	
STEP 1: VI Insp BPU housing intact and	SUAL & PHYSIC	AL IN	NSP] Fail	ECTI(
STEP 1: VI Insp BPU housing intact and	SUAL & PHYSIC Dection Item securely mounted n, and free of corrosion or but	AL IN	NSP] Fail	ECTION/A	
FOR STEP 1: VI Insp BPU housing intact and All wiring secured, clear	SUAL & PHYSIC. Dection Item securely mounted n, and free of corrosion or but ter in place and intact	AL IN Pass □ rns □	NSP] Fail	ECTION/A	
Insp BPU housing intact and All wiring secured, clear Main fuse and DC break	SUAL & PHYSIC. Dection Item Securely mounted In, and free of corrosion or but ter in place and intact Insulated	AL IN Pass rns	NSP] Fail	ECTION/A	

STEP 2: VOLTAGE, CCA & LOAD TESTING

.... Truck Batteries – Individual CCA Load Test (Engine OFF)

Battery	Voltage	Rated CCA	Tested CCA	% of Rated	Pass/Fail	Notes
Battery 1 _	V			%	\square / \square	
Battery 2 _	V			%	\square / \square	
Battery 3 _	V			%	\square / \square	
Battery 4 _	V			%		

Batteries under 70% of rated CCA should be considered failing, even if voltage is above 12.5V.

Alternator & Voltage Drop Test (Engine ON)

Test	Measured Voltage	Pass/Fail	Notes
Alternator output at alternator terminal	V	\square / \square	
Voltage at truck batteries harness terminal	V	\square / \square	
Voltage at BPU charge input (DC-DC charger)	V	\square / \square	
Voltage drop from alternator to BPU input	V		Should be < 0.5V

! IdleLogic BPU – LiFePO₄ Battery Voltage Test

Test Point	Voltage	Pass/Fail	Notes
BPU resting voltage (total system)	\overline{V}		Expect 26.4V-27.2V
BPU voltage under load (HVAC or inverter active)	V		Should remain > 25.0V
Charge input (engine running)	\overline{V}		Expect 27.0V-29.2V
BPU Battery A (12.8V nominal LiFePO ₄)	\overline{V}		~13.2V
BPU Battery B (12.8V nominal LiFePO ₄)	V		~13.2V

STEP 3: THERMAL & ENVIRONMENTAL CHECK

	Pas	s Fail	N/A	\	Notes
No swelling, overheating, or heat discoloration \Box					
BPU cool to touch after startup cycle					
No liquid, venting, or odor present □ BPU location properly ventilated □					
System mounted within acceptable cabin temp zone □				0-50°	C range
STEP 4: TELEMATICS &	FIR	MW	AR	E CI	HECK
Item		Pass	Fail	N/A	Notes
FleetSavvy TM portal is accessible and reporting	I				
Last 7 days of data shows normal or relevant fault logs					
•		_	_		
Firmware version is current (auto-checked via po	rtal)			Ш _	
OTA update history (if applicable) reviewed		⅃ □			
Firmware version is current (auto-checked via po OTA update history (if applicable) reviewed STEP 5: FUNCTIONAL TI Function					Notes
OTA update history (if applicable) reviewed STEP 5: FUNCTIONAL T Function	EST				Notes
OTA update history (if applicable) reviewed STEP 5: FUNCTIONAL T Function	EST Pass	Fail	N/A		
OTA update history (if applicable) reviewed STEP 5: FUNCTIONAL T Function System powers up and initializes IdleLogic BPU supplies power to inverter/loads	EST Pass	Fail	N/A		
OTA update history (if applicable) reviewed STEP 5: FUNCTIONAL T Function System powers up and initializes IdleLogic BPU supplies power to inverter/loads DC-DC charger activates with engine on	EST Pass	Fail	N/A		
OTA update history (if applicable) reviewed STEP 5: FUNCTIONAL T Function System powers up and initializes IdleLogic BPU supplies power to inverter/loads DC-DC charger activates with engine on Breaker not tripped / internal fuse intact	EST Pass	Fail	N/A		

- ☐ Screenshot or PDF of FleetSavvyTM logs (last 7 days)
- \square Proof of install date (invoice or dealer work order)
- \square Screenshot of firmware version (if applicable)

TECHNICIAN SIGN-OFF

I certify that I have completed all required tests and inspections listed above, and that the information provided is accurate and complete.

Technician Name:	
Signature:	
Date:	