

Secas #36.



Wilker Auto Conversions

Doc No. PF 009
Date: 27th of Feb 2013
Issue No. 01

FINAL INSPECTION ELECTRICAL

SEC-20-065-03

Revision 1 09.09.2021

Chassis No. ZFA250000 025 91253

Unique Number: 17241 ✓

Customer: SECAS Van Conversion

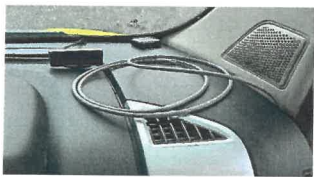
Vehicle job no 22343

Date of check 9.11.2021

Vehicle build no 36

Comments

Item No	Detail of check required	Pass	Needs Attention	Pass	Comments
Batteries and split/shoreline charging/230V					
1	Check battery banks: that connections are tight, that clamps are tight, poles are sprayed with blue terminal spray, cables are secure, date of installation wrote with permanent marker	✓		✓	
2	Battery bank 1: cranking battery Voltage		14.2 volt		
3	Battery bank 2: aux battery bank Voltage		14.2 volt		
4	Battery bank 3: comms bank Voltage		14.2 volt		
5	Check split charge system operation	✓		✓	
6	Check split charge system connections are tight, that correct fuses are fitted, that cables are secure and tidy and that charging rates are correct	✓		✓	
7	Check B2B connections	✓		✓	
8	Check B2B supply and activation from AT64	✓		✓	
9	Check cab 230V consumer unit	✓		✓	
10	Check 230V Ludo	✓		✓	
11	Check 12V Ludo LED for operation	✓		✓	
12	Check charger for installation	✓		✓	
13	Check charger 230V and 12V connections	✓		✓	
14	Check charger settings vs battery type, set to Lithium ION	✓		✓	
15	Check charger ON 230V Relay	✓		✓	
16	Check that When Shoreline is plugged in the ATSR system will stay live and not go into LPM.	✓		✓	
17	Check Inverter for installation and operation	✓		✓	
18	Check Inverter 230V and 12V connections	✓		✓	
Heater					
19	Check heater installation and function of heater, check heater switching, check thermostat, check time delay, check air ducting.	✓		✓	
20	Check heater warranty documents	✓		✓	
21	Check heater fuel pump positioning and operation	✓		✓	
22	Check heater inlet pipe	✓		✓	
23	Check heater exhaust is it safely run	✓		✓	
Air conditioning					
24	Check air conditioning wiring connections	✓		✓	
25	Check functionality of the climatronic control unit, air conditioning must operate with saloon doors closed and switch off when any saloon door opens	✓		✓	
Aerials and Comms power supplies					
26	Check all aerials earth point	✓		✓	
	Check aerials are securely fitted on the saloon roof	✓		✓	
27					
28	~MIMO x 2	✓		✓	
29	~GPS PUK x 1	✓		✓	
30	~AVL x 1	✓		✓	
31	~M8 x 2	✓		✓	
32	Check 2-way radio power cables are fused, tidy and in correct position in the front O/S comms locker. Check power, ignition and earth	✓		✓	
33	Check 2 core comms cable location between comms locker and behind drivers seat base	✓		✓	
34	Ensure the comms board is fitted correctly and can be removed and left up on the RF seat for maintenance access. Ensure cables are correct length for this	✓		✓	

CUSTOMER: SECAS VAN CONVERSION		Vehicle build no			Comments
Item No	Detail of check required	Pass	Needs Attention	Pass	
Cab					
35	Check 2 way radio wiring behind driver seat, coil up	✓		✓	
36	Check that jump (assured) start switch is operative and that paralleling of battery banks occur	✓		✓	
37	Check run-lock signals at PCB.	✓		✓	
38	Check CANM8 connection, LED should flash green when CAN is OK	✓		✓	
39	Check V- Lock signal to the central locking switch	✓		✓	
40	check CAN clamp in place and connected correctly	✓		✓	
41	Check handbrake switch for operation	✓		✓	
42	Check handbrake warnings, cab buzzer should sound for rear and sliding door. Sp3 buzzer should sound for all doors. When handbrake is dropped and any door open, check that the Sp3 buzzer sounds with a delay of no more than 5 seconds.	✓		✓	
43	Check fitment of MDT monitor bracket and wiring on the dash	✓		✓	
44	MDT screen cable - run from dash back to locker space adjacent to RF seat on offside front. 2 twin cores to be fitted with this.	✓		✓	
45	check cooler box	✓		✓	
46	~it powers up	✓		✓	
47	~can it be set to different temperatures both hot and cold	✓		✓	
48	check diesel alert ; open flap and voice alarm should come on	✓		✓	
49	Check extra cab lights (1 no. red and 2no. white)	✓		✓	
50	Check stereo for operation, aerial fitted & quality of reception	✓		✓	
51	Check hand held lamps: they function?	✓		✓	
52	Check hand held lamps: they charge up ?	✓		✓	
53	Check SP3 panel is fitted correctly	✓		✓	
54	Check SP3 panel functionality is correct to specification. Sp3 should revert back to default screen after 15 seconds of inactivity. Set volume to maximum.	✓		✓	
55	Set dash clock	✓		✓	
56	Check central locking working ok	✓		✓	
57	Check central locking during run lock mode	✓		✓	
58	check saloon view button(green)	✓		✓	
59	check bull horn	✓		✓	
60	check intercom button	✓		✓	
61	check USB socket in cab (charge something)	✓		✓	
62	check that 5 core 22AWG cable is present : run from terrafix screen to this location for connection to the garmen when it is being fitted. Left about 300mm at the base of the o/s A pillar on the dash , and a coil in the comms locker. Garmen screen will be fitted post shipment.	✓		✓	
63	Check all OEM switches for operation	✓		✓	
Road lighting					
64	Check vehicle lights for fitment and operation	✓		✓	
65	Check parking lights front, rear, side and pods	✓		✓	
66	Indicators N/S & O/S front, side, rear and pods	✓		✓	
67	Headlights: dim and full	✓		✓	
68	Fog lights: front & rear	✓		✓	
69	Brake lights 2 OEM and 3 high level	✓		✓	
70	Combined LEDs to rear - stop/tail/indicator	✓		✓	
71	Reverse lights	✓		✓	
72	Check reverse back chat	✓		✓	
73	Check each reverse sensor	✓		✓	
74	Check reverse sensor display for each sensor display	✓		✓	
75	Check reverse sensor display for installation	✓		✓	
76	Supply and fit Reverse proximity sensor and display system : location to be exactly as shown 	✓		✓	

Customer: SECAS van conversion		Vehicle build no			Comments
Item No	Detail of check required	Pass	Needs Attention	Pass	
CCTV					
77	Check fitment of CCTV	✓		✓	
78	Check reverse camera for fitment	✓		✓	
79	Check reverse camera for image on monitor	✓		✓	
80	Check front saloon camera for fitment	✓		✓	
81	Check body N/S camera for fitment	✓		✓	
82	Check body O/S camera for fitment	✓		✓	
83	Check cab FF camera for fitment	✓		✓	
84	Check GPS aerial on the dash	✓		✓	
85	Check reverse monitor for installation	✓		✓	
86	Check reverse monitor switching	✓		✓	
87	System software setting check :	✓		✓	
88	· DVR time out 60 min when ignition switched OFF	✓		✓	
89	· Reverse mirror monitor to display reverse camera view when reverse gear selected	✓		✓	
90	· Reverse mirror monitor to display for 10seconds saloon view when dash button pressed	✓		✓	
91	· Reverse mirror monitor to display for 10seconds saloon view when saloon panic button pressed	✓		✓	
92	· DVR to record N/S side camera constantly with ignition switched ON and 60 min after ignition switched OFF	✓		✓	
93	· DVR to record O/S side camera constantly with ignition switched ON and 60min after ignition switched OFF	✓		✓	
94	· DVR to record Forward Facing camera constantly with ignition switched ON and 60min after ignition switched OFF	✓		✓	
95	· DVR to record Saloon camera constantly with ignition switched ON and 60min after ignition switched OFF	✓		✓	
96	· DVR to record reverse camera constantly with ignition switched ON and 60min after ignition switched OFF	✓		✓	
Emergency lighting and Siren					
97	Check the Gatso blue LED on the rear door when in 999 mode, steady burn	✓		✓	
98	Check all emergency lights for fitment & operation	✓		✓	
99	Check spec on emergency lights, type, switching configuration, synchronisation etc.,	✓		✓	
100	Check siren and speaker: fitment & connection	✓		✓	
101	Check siren reducer unit	✓		✓	
102	Check grill lights	✓		✓	
103	Check front POD lights	✓		✓	
104	Check rear POD lights. Red lights operate only in arrive scene	✓		✓	
105	Check wing blues	✓		✓	
Auxiliary external lighting					
106	Check alley lights: fitment & switching operate with handbrake down	✓		✓	
107	Check all scene lights: N/S, O/S & rear - operate with handbrake up	✓		✓	
108	Check no. plate light	✓		✓	
109	Check O/S rear door edge LEDs x 2	✓		✓	
110	Check N/S rear door edge LEDs x 2	✓		✓	
111	Check Airport Beacon for instalation and switching	✓		✓	

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Item No	Detail of check required	Pass	Needs Attention	Pass	
Saloon					
112	Check operation of the panic strips/buttons	✓		✓	
113	Location; 1 No on Attendants panel adjacent to RF seat,	✓		✓	
114	Location 2; 1 No on att panel adjacent to rearward jany	✓		✓	
115	Location 3:1 No on the trauma wall at rear end on same panel as the double 12V socket panel	✓		✓	
116	SG Tech Ramp sign off - Ramp deployed light on Switch panels	✓		✓	
117	~ switched operation working in manual and powered mode.	✓		✓	
118	~ brake check 1. release open button and when ramp is past vertical position; ramp should fall slowly . Same in close mode	✓		✓	
119	~ brake check 2. hand pressure applied to ramp should stops its movement even though the button is still pressed	✓		✓	
120	VB Air System check	✓		✓	
121	~Air Suspension switch : handbrake must be pulled to lower. When lowered, dropping the HB results in the Air suspension automatically rising up to ride height	✓		✓	
122	Check winch hand controls on the rear N/S door	✓		✓	
123	Check winch brake	✓		✓	
124	check USB socket in saloon works [1 No double USB, panel mounted at front end of T wall (below 12V sockets x 2)]	✓		✓	
125	Check DVR Panic signal activation	✓			
126	Check ATT panel switching. N/S and O/S.	✓		✓	
127	Check side step for operation, warnings on switch panels	✓		✓	
	Check Saloon speakers:				
128	Intercom	✓		✓	
129	Check intercom system: adjust Volume	✓		✓	
130	Check soldered connections at intercom	✓		✓	
	Check all power points:				
132	Emergency time manager clock	✓		✓	
133	Check Trauma Wall 12V sockets power	✓		✓	
134	Check Incubator terminals power	✓		✓	
135	Check LSU power	✓		✓	
136	Check Defib power at bulkhead	✓		✓	
137	Check aerator vent system operation including intake and extract	✓		✓	
138	Check saloon lighting: white led full and dim, spot lights, quantity, position and operation	✓		✓	
139	Side and rear door fridge lights on plinths , 1 No at rear door, centre mounted in ceiling, 1 No at side door , centre mounted in ceiling in relation to side door open.	✓		✓	
140	~side door fridge light operates with side door open and vehicle lights on	✓		✓	
141	~rear door fridge light operates with rear door open and vehicle lights on	✓		✓	
142	Check PIR fitment and operation, test PIR Input to the ECU, Note: When movement detected Input should be OFF	✓		✓	
143	Check saloon lights for timing out	✓		✓	
144	check manger elk station socket for power	✓		✓	
145	Check stretcher charger is working and wiring is correct.	✓		✓	
146	Check Reverse Safe switches, see attached note	✓		✓	
147	Check Saloon 230V sockets	✓		✓	
148	Check Saloon Inverter switching	✓		✓	
149	Check attendants N/S switch panel for operation	✓		✓	
150	Check attendants O/S switch panel for operation	✓		✓	
151	Check fuse board label and 4 way fuse holder label	✓		✓	
152	Check ECU board, make sure all components are correctly fitted	✓		✓	
153	Check ECU board components connections	✓		✓	
154	Check Isolatable fuse block	✓		✓	
155	Check NoN Isolatable fuse block	✓		✓	
156	Check COMMS fuse block	✓		✓	
157	Check if fuse blocks are fed from correct battery bank	✓		✓	
158	Check AT64 IN and OP	✓		✓	

Customer: SECAS Van Conversion		Vehicle build no			Comments
Item No	Detail of check required	Pass	Needs Attention	Pass	
ATSR AVI, Driver ID Visual Inspection only					
159	Check driver ID for installation	✓		✓	
160	Check AVI Installation	✓		✓	
161	Check CDO Buzzer in cab, check wiring at AVI	✓		✓	
162	Check Fiat Gate way module is fitted and connected inside driver step	✓		✓	
Notes:					
A	Signed Electrical Lead Person: _____ Date: _____				Notes: _____
	Signed Electrical Lead Person: _____ Date: _____				Notes: _____
B	Signed Final Inspection/Warranty: _____ Date: _____				Notes: _____
	Signed Final Inspection/Warranty: _____ Date: _____				Notes: _____

Issued raised by SECAMB		
Issue	Action Needed	
Bonnet loom entry to vehicle	Fit split loom on loom and beading around entry hole in vehicle bulkhead	✓
Reverse Safe Switch	Both Switches must illuminate red when pressed and illuminate on SP3 Panel, must have decals	✓
Intercom	Check soldering at plug/connection points	✓
Bullhorn mixed with emergency start	Check bull horn and emergency start operation independently	✓
Ramp deployed signal	Check ramp deployed signal at SP3. Must be on when ramp deployed and off when stowed	✓
SP3 bezel and panel fitting	Check for half moon at the left side of SP3 panel. Countersunk hole for mounting screw to face into cab	✓
SP3 Volume	Set slider to max in SP3 option, 4th tab.	✓
SP3 Side Buttons	Check buttons on SP3 do not stick and function correctly. Must have click sound when pressed.	✓
Battery V-Senses	Check all V-Senses, must not have battery low warning on SP3 when operating correctly.	✓
Fuse Labels	Must have fuse Label on V-Sense fuse holder.	✓
CDO Buzzer	Must be wired to plug JIO1 on AVI. Red on output 5, black on ground.	✓
Aerial Inspection Covers	Connections to Mimo must be accessible from the access panel.	✓