





Product:	E-Clutch Actuator SSMD (ECO SSMD)		
Affected Part-IDs:	212-0xx-xxx		
Affected S/N:	<input checked="" type="checkbox"/> all	<input type="checkbox"/>	from S/N: _____ to S/N: _____
Date:	2024-01-09		
Ref.:	TB-212-0xx-#001.		
Recipients:	<input checked="" type="checkbox"/> OEMs	<input type="checkbox"/>	Race teams
Autor:	csc		
Approved by:	fun		

Definition of required action level:		
		
Immediate Action Required	To be applied during next runtime service	For Information only

Ref.	Description	Action level
	<p>Through constant quality controls, MEGA-Line RACING ELECTRONIC works to continually improve its products. It has been determined that incorrect operation can lead to a depth discharge of the internal battery of the ECO SSMD. To address this and increase the robustness of the component, a firmware release 3.01 is available from now onwards. The following scenarios can lead to a depth discharge in firmware versions <3.01:</p> <ul style="list-style-type: none"> a) Two button marshal system is used Marshal ON button pressed Clutch opened Marshal OFF button never pressed Car supply deactivated b) Antistall activated Antistall not released Car parked, gear not "Neutral" Car supply deactivated c) Aux supply activated Car supply deactivated <p>From firmware version 3.01 onwards, the following advanced functions for battery monitoring are available:</p> <ul style="list-style-type: none"> a) Battery voltage in critical area (mlo_ias_battery_state == 2) Actions: <ul style="list-style-type: none"> - ECP Error 108 activated - No more AUX supply possible - No more marshaling functionality possible - No more Battery supply support for clutch functionalities - Clutch will be closed immediately when in battery mode ⇨ System will try to load the battery when possible 	

	<p>b) Battery voltage reaches dead level (mlo_ias_battery_state == 1) Actions:</p> <ul style="list-style-type: none">- No more AUX supply possible- No more Marshal functionality possible- No more battery supply support for clutch functionalities- Clutch will be closed immediately when in battery mode<ul style="list-style-type: none">⇒ System will NOT load the battery again⇒ Service bit will be set⇒ Device has to be sent to MEGA-Line for service <p>c) Battery voltage in overvoltage area (mlo_ias_battery_state == 6) Actions:</p> <ul style="list-style-type: none">- No more AUX supply possible- No more Marshal functionality possible- No more battery supply support for clutch functionalities- Clutch will be closed immediately when in battery mode<ul style="list-style-type: none">⇒ System will NOT load the battery again⇒ Service bit will be set⇒ Device has to be sent to MEGA-Line for service⇒ It is strictly recommended to NOT use the device any longer. <p>MEGA-LINE RACING ELECTRONIC GmbH strictly recommends to immediately update ECO SSMD units.</p> <p>Please contact MEGA-Line RACING ELECTRONIC GmbH via support@mega-line.de for support on updating firmware if required.</p>	
--	---	--

Technical Contact:	
Name:	Christian Koch
eMail:	support@mega-line.de
Fon:	+49 9441 68 66 77