2017 CM7 FEATURE UPDATES

1. We now provide an ARM/Disarm siren/horn output (timing based on features 3-08 and 3-09) when controlling from OEM remote through data.

2. We have moved feature 4-06 options to our PIC group settings and re label AUX 1 input to PIC # 6 (should be the same as the CM7300)

3. We have moved feature 4-07 options to our PIC group settings and re label AUX 2 input to PIC #7 (should be the same as the CM7300) **** SEE PIC settings table**

4. We delayed the timing 300mS between Unlock/Disarm output (analog/data) and AUX/Sliding door output to allow the vehicle to be disarmed/unlocked before receiving the sliding door command through data.

5. We have made changes to the defrost activation control

   a. It is now possible to activate defrost function with AUX 1 command (if this option is selected we will disable any other AUX 1 functions, AUX 1 command should activate the defrost output based off feature 3-14 time setting

   b. It is now possible to adjust the defrost activation temperature with the OP500 in 1 degree increments from 32-60 degrees F (with op500 software update if needed, we currently offer a version that displays in Celsius and one that displays in Fahrenheit)

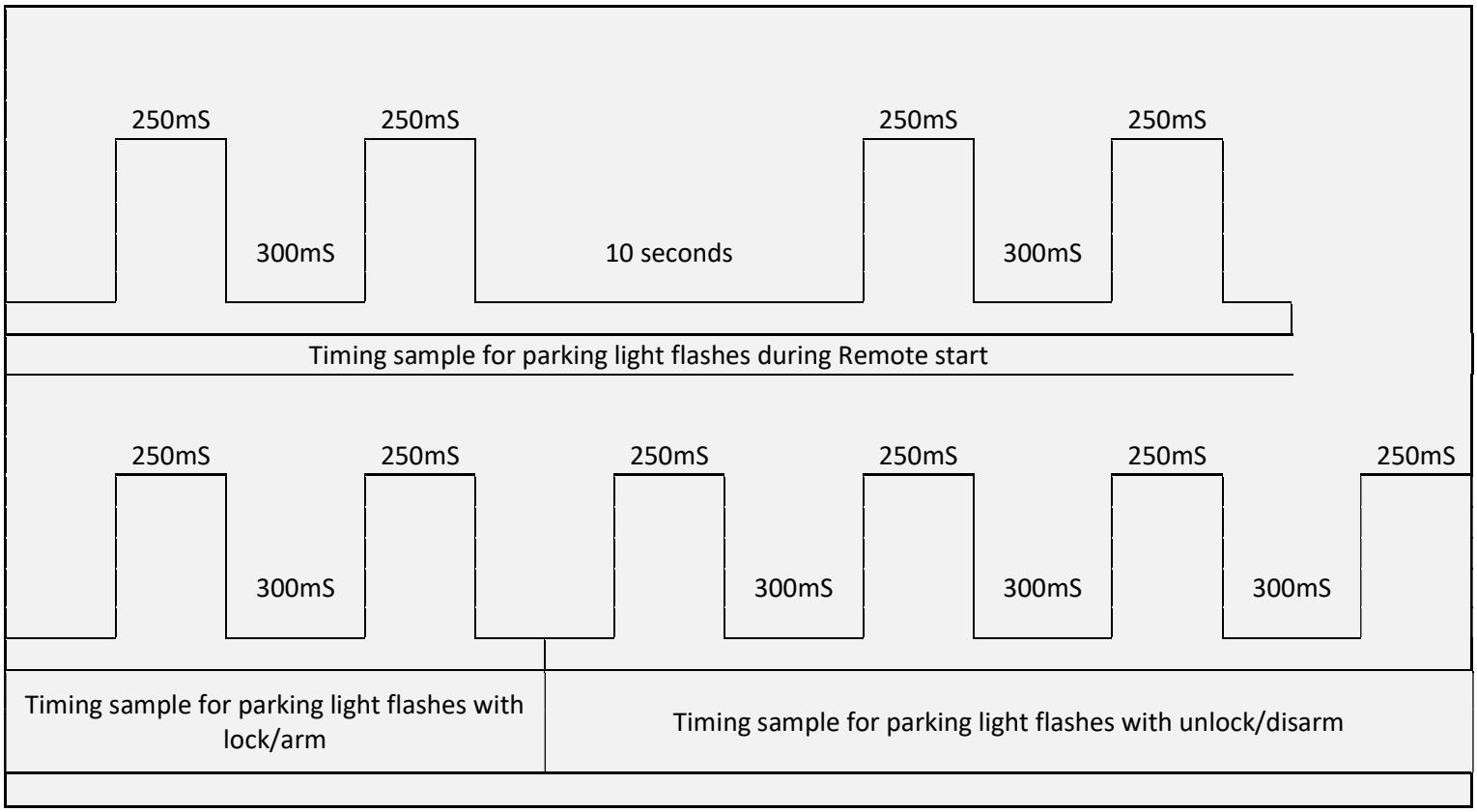
3-13	Defroster Temperature Control	Standard	Only below 32 degrees F	PROG 0°C/32°F ~ 13°C/55°F below 6°C/42°F default	AUX 1

6. We would like to create a programmable runtime using feature 2-07 option 4 as shown below.

2-7	Remote Start Runtime	15 Min	25 Min	45 Min	PROG. 3 ~ 45 mins 3 min (default)

7. Create a POC function to control hazard (emergency parking lights) lights during remote start. (this function will be explained in more detail) **** see modified POC table**

The output timing is shown below: The same timing could be used to flash parking lights for arm/disarm/diagnostics and remote start



8. We have changed the **RED/WHT** door input wire to act as a Programmable input PIC(-)

When the door status jumper is set to negative (-) input. **** SEE PIC settings table**

9. It is now possible to customize reservation mode “enter with” and “sets with” feature 2-14 and 2-15

2-14	Reservation "Enter with": (Manual transmission)	Parking brake is set	Parking brake set + Hold start button for 2.5 sec	Parking brake: set → Release → (within 7 seconds) set	
2-15	Reservation "set with": (Manual transmission)	last door closed (locks before shut down)	Last door closed **AND** Lock command	10 Seconds After the Last Door is Closed **OR** Lock Command	Last door is closed (Locks after shut down)

10. We have added an “Ignition input only” Input option using feature 4-10 which will allow users to have an ignition input only without disabling the ignition output feature which we saw caused a problem with some BLADE AL operation.

4-10	Trigger Start System Input	(+) Trigger Start input	(+) Ignition input	(+) keysense input	(+) Glow Plug Input

11. We now offer a “voltage check” when using assumed running engine sense option **ONLY** if feature 2-11 “advanced tachless” is enabled (set to option 2). This will enable the CM to check the voltage 2 minutes after RS confirmation, if the voltage is at or below 12.5 volts it will shut down.

2-10	Engine Sensing	Tach	Alternator	No Connection (Voltage sensing, Automatic Transmission only)	No Connection (3.0sec Start -Assume Running, Automatic Transmission only)
2-11	Advanced Tachless	Off	On		

12. Is it possible to make the hot/cold start temperature options programmable. (this may require an OP500 update) when features 2-08 and 2-09 are set to option 4

2-8	Temperature of Cold Starting	-10°C / 14°F	-20°C / -4°F	-5°C / 23°F	PROG. -30°C ~ 0°C / -22°F ~ 32°F (-15°C / 5°F default)
2-9	Temperature of Hot Starting	25°C / 77°F	30°C / 86°F	35°C / 95°F	PROG. 20°C ~ 40°C / 68°F ~ 104°F (40°C / 104°F default)

13. We have added the option to shut off the LED flash on the RPS touch while armed when feature 3-16 is set to option 3

3-16	RPS	FT-RPS Touch	FT-RPS 2	FT-RPS Touch (No LED flash while arm)	

14. We now provide individual zone trigger LED diagnostics for security: The LED will flash the zone diagnostic until the next key cycle. **PLEASE see table below for zones identification****

2 Flash	Door Input
3 Flash	Shock stage 1
4 Flash	Shock stage 2
5 Flash	Tilt
6 Flash	Ignition on
7 Flash	Hood Input
8 flash	Trunk Input
9 Flash	Aux sensor stage 1
10 Flash	AUX sensor stage 2

15. It is now possible for either standard key or PTS vehicle remote programming procedures to be used without making a feature change.

16. We now provide a horn/siren confirmation during remote programming

17. It is now possible to have the remote start shut down with door open.

    a. This option will only shut the Remote start down once it has been successfully remote started to avoid complications with reservation mode.

(We would also need to allow the CM to see a door input momentarily after remote start success in case rearm output is used to pulse the vehicle door)

2-16	Shutdown by Door Open after Remote Start	Off	On		

18. We now offer a "silent alarm" feature:

a. When enabled by the user this feature would allow the customer to have the siren and parking light functions disabled during full alarm, but still alert any 2way LCD, 2Way LED, or Drone device that may be connected to the CM. Basically they would like a silent alarm so the thief will not know they have triggered a security system all while still alerting the owner to the break in.

=>We have added it to feature 1-16 as shown in the table below which would allow the user to enable silent alarm when they activate the "Mute" feature with their remote.

1-16	Siren/Horn Mute Control on Remote	Disabled	Enabled	Silent Alarm	

19. We have added a remote start “auto re-start” feature:

    This feature when enabled will automatically re start 10 seconds after the initial runtime has timed out, but it will **only re start 1 time**. This would address many requests we receive for extended runtimes over an hour. Currently the ADS interface modules have a 45-minute runtime and will shut off automatically at 45 minutes even if we offer a continuous runtime of more than 45 minutes. With this feature shutting down and re stating to extend the runtime will re-start the timer on the ADS interface module so we can effectively double our runtime with no concerns.

4-16	Auto Re-Start	OFF	ON		

20. We have added “Disarm with 1 press” option to feature 3-15. This feature will completely disarm the CM while its sounding with 1 unlock press including factory alarm disarm output and unlock output

3-15	Soft Disarm	Off	On	Disarm 1 Press	

21. The CM will now check the thermistor before Ignition/ACC power up during remote start to make sure we get the most accurate temp reading during the RS sequence.

22. We have added AUX 1 trigger input to our PIC setting values and re assigned 4-03 option 4 to “Input Trigger”: This input would activate AUX 1 output (based on feature 4-01 setting when it receives a pulsed or latched negative input on the selected PIC wire) ****Please see PIC table for options**

4-3	Aux 1 output Control	By Remote	Arm	Disarm	Input Trigger

23. We have added AUX 2 trigger input to our PIC setting values and re assigned 4-04 option 4 to “Input Trigger”: This input would activate AUX 1 output (based on feature 4-02 setting when it receives a pulsed or latched negative input on the selected PIC wire) ****Please see PIC table for options**

4-4	Aux 2 output Control	By Remote	Arm	Disarm	Input Trigger

24. We have added the “Starter Kill” output function to the POC settings table. (setting value 29)

S-#2	Feature	POC Setting Value Table			
	Programmable (-) Output Connector	Optional			
1	POC #1 (Default: Starter-kill)	2nd LIGHT [1]	DOME LIGHT [9]	Defrost [17]	Lock [25]
2	POC #2 (Default: Horn)	2nd START [2]	Aux1 [10]	GWA [18]	Unlock [26]
3	POC #3 (Default: Lock)	2nd IG1 [3]	Aux2 [11]	Status-2 [19]	Priority Unlock [27]
4	POC #4 (Default: Unlock)	2nd ACC [4]	Aux3 [12]	Siren-2 [20]	Trunk Release [28]
5	POC #5 (Default: Disarm)	STATUS [5]	Aux4 [13]	Defrost-2 [21]	Starter Kill [29]
6	POC #6 (Default: Rearm)	REARM [6]	Aux5 [14]	VAC [22]	Hazard light [30]
7	POC #7 (Default: Trunk Release)	DISARM [7]	Aux6 [15]	Deleted	
8	POC #8 (Default: Status)	HORN [8]	Aux7 [16]	Aux3 (EZ-GO Unlock) [24]	

S-#3	Feature	PIC Setting Value Table			
	Programmable (-) Input Connector	Optional			
1	PIC #1 (Default: (-) E-Brake Input)	(-) E- Brake Input [1]	(-) Disable Arm/Disarm/Trigger Start when Wire triggered Same Time [8]	(-) Arm Input [15]	
2	PIC #2 (Default: (-) Trunk Input)	(-) Trunk Input [2]	(N/C) Trunk Input [9]	(-) Disarm Input [16]	
3	PIC #3 (Default: (-) Keysense input)	(-) Key Sense Input [3]	(N/C) Key Sense Input [10]	(-) IGN & Sensor Bypass Input [17]	
4	PIC #4 (Default: (-) door input)	(-) Hood Input [4]	(N/C) Hood Input [11]	(-) AUX 1 trigger input [18]	
5	PIC #5 (Default: (-) Hood)	(-) Door Input [5]	(N/C) Door Input [12]	(-) AUX 2 trigger input [19]	
6	PIC #6 (Default: (-) Pre-warn)	(-) Trigger Start Input [6]	(-) Pre-warn Input [13]		
7	PIC #7 (Default: (-) Instant Trigger)	(-) Glow Plug Input [7]	(-) Instant Trigger Input [14]		