Hyundai Technical Training Step 2 Body Electrical 2009

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Body Electrical



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System functions and variations



The electronic time and alarm control system (ETACS) is a special control system for time and alarm related functions such as:

- Delay of room lamp switch off
- Ignition key hole illumination
- Ignition key reminder function
- Central door lock function
- Auto door lock by vehicle speed
- Door unlock operation by ignition off or crash signal
- Keyless entry function
- Anti theft function
- Power window timer
- Seat belt warning function
- Parking brake warning
- Washer and wiper control
- Wiper interval control according to the vehicle speed
- Defogger operation time including heated outside mirrors
- Tail lamp auto cut function



These are just samples for possible functions of ETACS in general; depending on the actual vehicle and market not all of them may be applicable. Which function is available depends on the actual vehicle and market. As indicated there is a variety of systems available: a relatively simple system, providing only ETACS functions, then combined with keyless entry, alarm system and latest development several devices and controls combined in the so called body control module. Due to variety, refer to the always to the related workshop manual (and probably to the owners manual) for the related functions. Despite the fact that there is some relation between the immobilizer system and the keyless entry system in terms of code saving, the immobilizer system is a independent system and described separately.

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Function application table

	ETACS FUNCTION	LC	EF	XG	FO	SM	XD	REMARK
ETACSCM	Washer & Wiper Control	0	o	0	0	0	0	1
	Intermittent Wipe Control	0	0	0	0	0	0	⊙: control by VSS
	Park'g Brake Warning start (GEN. only)					0		
	Defogger Time Control	0	0	0	0	0	0	
	Seat Belt Warning Time	0	0	0	0	0	0	X
	Room Lamp Delay out & K/less Unlock delay	0	0	0	0	0	0	⊚:TX Unlock Button receive
	IG. Key Hole Illumination	0	0	0	0	0	0	
	Power Window Timer	0	0	0	0	0	0	
	IG. Key Operated Warning (except EC)	0	0	0	0	0	0	
	IG. Key Reminder	0	0	0	0	0	0	
	Lamp Auto Cut			0	0	0	0	o : control by ETACS CM
	Auto Door Lock (GEN. only)			0	0	0		o : control by VSS
	Auto Door Unlock (GEN. only)			\diamond	٠	٠		 ◇: by shock sensor ♦: by A/BAG CM
	Unlock Control after Key removed (GEN. only)	0 6		0		0		
	Rear Fog Lamp Auto Cut Control (EC only)	5 m - m						■ : control by ETACS CM
	Trunk Room Lamp "ON" maintenance	8)				3) 3	0	o: for 10 minutes
	Central Door Lock Control (Keyless Entry)	0	0	0	o	o	o	Keyless + Anti-theft function
	Anti-theft Function - Arm Function - Disarm Function - Alarm Function	0	0	0	o	o	o	Keyless + Anti-theft function

The chart indicates which functions are available for different models. (The related wiring diagrams can be found in the ETM and the timing charts for the operation of the individual system are described in the workshop manual, referring to the owners manual is also recommended).