

SWITCH**0000-00****GENERAL INFORMATION****1. SPECIFICATIONS****► Power window main switch**

Item			Specifications
Power window main switch	Rated voltage		12 V
	Operating voltage		9 to 16 V
	Operating temperature		-30°C to +80°C
	Rated load	AUTO switch	Check contact
		Manual switch	10 A (motor load)
		Window LOCK switch	10 A (motor load)
		Door UNLOCK switch	Check contact

► Outside rearview mirror switch

Item			Specifications
Outside rearview mirror switch	Rated voltage		12 V
	Operating voltage		9 to 16 V
	Operating temperature		-30°C to +80°C
	Rated load	Outside rearview mirror switch	0.2 A (motor load)

► Power window sub switch

Item			Specifications
Power window sub switch	Rated voltage		12 V
	Operating voltage		9 to 16 V
	Operating temperature		-30°C to +80°C
	Rated load	Manual switch	10 A (motor load)

Modification basis	
Application basis	
Affected VIN	

SWITCH

TIVOLI/XLV 2016.09

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SKM

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INSTRUMENT

SWITCH

LAMP

WIPER AND

AVN

MP3 AUDIO

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ISG SYSTEM

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► Multifunction switch

Item				Specifications
Rated voltage				12 V
Operating temperature				-30 °C to +80 °C
Multifunction light switch	Rated load	Light switch		0.2 A (BCM)
		AUTO light switch		0.2 A (BCM)
		Dimmer and passing switch	Up	0.2 A (relay load)
			Down	0.2 A (relay load)
			Passing	0.2 A (BCM)
		Turn signal lamp switch		0.2 A (BCM)
		Fog lamp switch		0.2 A (relay load)
Multifunction wiper switch	Rated load	Wiper switch	AUTO	0.2 A (BCM)
			LO	0.2 A (BCM)
			HI	0.2 A (BCM)
		AUTO wiper and washer switch		5 mA (BCM)
		Front washer switch		0.2 A (BCM)
		Rear washer switch		0.2 A (BCM)
		INT		Max. 25 mA
		Rear wiper	LO	0.2 A (BCM)
			HI	0.2 A (BCM)

► Center fascia switch

Item			Specifications
Center fascia switch	Rated voltage		12 V at 50 mA
	Operating temperature		-30 °C to +80 °C
	Rated load	Rear glass/outside rearview mirror heating switch	12 V ~ 50 mA
		TRIP/RESET switch	
		Hazard warning lamp switch	
		Smart steer switch	
		Lane keeping assist system switch	

► Lower main switch

Item			Specifications
Rated voltage			12 V at 50 mA
Operating temperature			-30°C to +80°C
Lower main switch	Rated load	E-W-P switch	12 V ~ 50 mA
		ESP OFF switch	
		4WD LOCK switch	
		Steering wheel heating switch (TIVOLI)	
		AC inverter switch (XLV)	
		PAS OFF switch	
		Headlamp leveling switch	

► START/STOP switch

Item		Specifications
START/STOP switch	Rated voltage	12 V
	Operating voltage	9 to 16 V
	Operating temperature	-30°C to +80°C

► Tailgate switch

Item		Specifications
Tailgate open switch	Rated voltage	12 V at 60 mA or lower
	Operating temperature	-30°C to +80°C

► PAB OFF switch

Item			Specifications
PAB OFF switch	Rated voltage		12V
	Rated current		0.1A
	Switch operating force	Push	0.7±0.25Kgf
		Rotary	MAX 3.0Kgf

Modification basis	
Application basis	
Affected VIN	

► **Steering wheel switch**

Item			Specifications
Rated voltage			DC 5 V at 0.1 A
Rated load			DC 5 V at 0.1 A
Operating temperature			-30°C to +80°C
Item		Resistance	Operating voltage
LH steering wheel switch	Volume down	196 $\Omega \pm 1\%$	0 to 0.4 V
	Volume up	1.02 K $\Omega \pm 1\%$	0.7 to 1.1 V
	Mode	2.21 K $\Omega \pm 1\%$	1.4 to 1.8 V
	Mute	34.8 K $\Omega \pm 1\%$	4.2 to 4.6 V
	SEEK up	4.02 K $\Omega \pm 1\%$	2.1 to 2.5 V
	SEEK down	6.98 k $\Omega \pm 1\%$	2.8 to 3.2 V
	Bluetooth (hands-free) - ON	13.3 K $\Omega \pm 1\%$	3.5 to 3.9 V
	Bluetooth (hands-free) - OFF	34.8 K $\Omega \pm 1\%$	4.2 to 4.6 V
RH steering wheel switch G16DF (D16DTF)	ON/OFF	75 $\Omega \pm 1\%$	0.15 to 0.55 V
	CANCEL (RESUME)	1.2 K $\Omega \pm 1\%$	2.52 to 2.92 V
	SET+	560 $\Omega \pm 1\%$	1.6 to 2.0 V
	RES- (SET-)	220 $\Omega \pm 1\%$	0.7 to 1.1 V
	Steering wheel heating switch (XLV)	-	5V

► **Front seat heater and ventilation switch**

Item			Specifications
Front seat heater and ventilation switch	Rated voltage		DC 12 V
	Operating temperature		-40°C to +80°C
	Rated load	Driver's seat heater switch	Max. 150mA
		Driver's seat ventilation switch	
		Passenger's seat heater switch	
		Passenger's seat ventilation switch	

► Rear seat heater switch

Item		Specifications
Rear seat heater switch	Rated voltage	12 V
	Operating voltage	9 to 16 V
	Operating temperature	-30°C to +80°C
	Rated load	4 to 6 A (unit load)

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SWITCH

TIVOLI/XLV 2016.09

OVERVIEW AND OPERATING PROCESS

1. OVERVIEW

The switch system allows the driver to drive the vehicle safely and comfortably by operating the switches properly according to the driving conditions. The switch system is divided into following parts depending on the mounting location.

1. Door panel switch (driver)
2. Door panel switch (passenger)
3. Door panel switch (rear)
4. IP panel switch
5. Steering wheel switch
6. Front console switch
7. Trunk switch
8. Headlining switch

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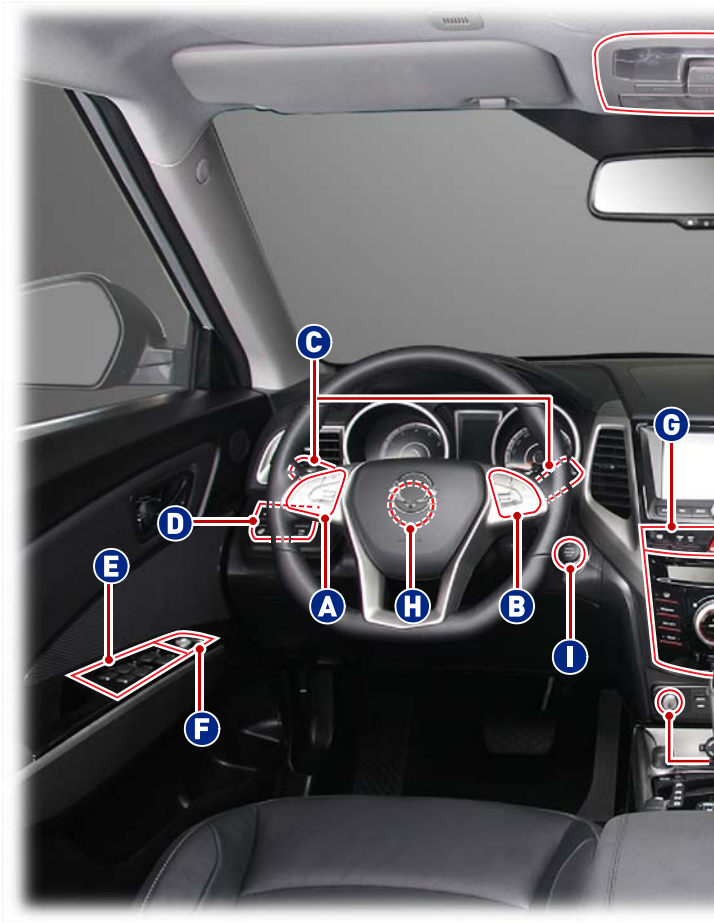
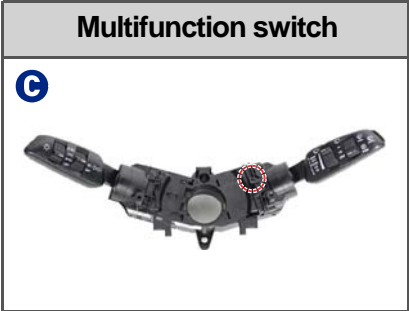
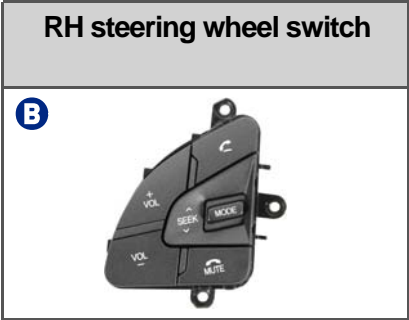
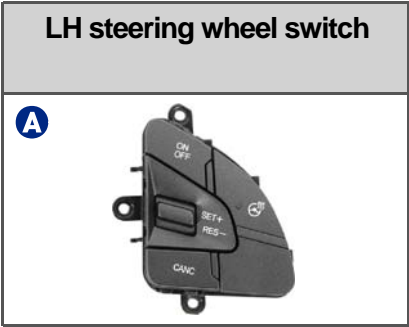
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Modification basis	
Application basis	
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2. COMPONENTS



Modification basis	
Application basis	
Affected VIN	



Front seat heater and ventilation switch	
With warmer and ventilation switch	With warmer switch
J 	



Overhead console switch
K 

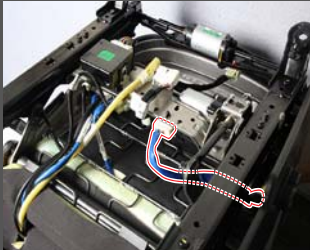



PAB OFF switch
N 

Heater and A/C control	
L 	Automatic
	Manual

Tailgate switch
 

Rear seat heater switch	Power window sub switch
	M 

Driver power seat switch
 

Modification basis	
Application basis	
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