



Inspection

Diagnosis With KDS

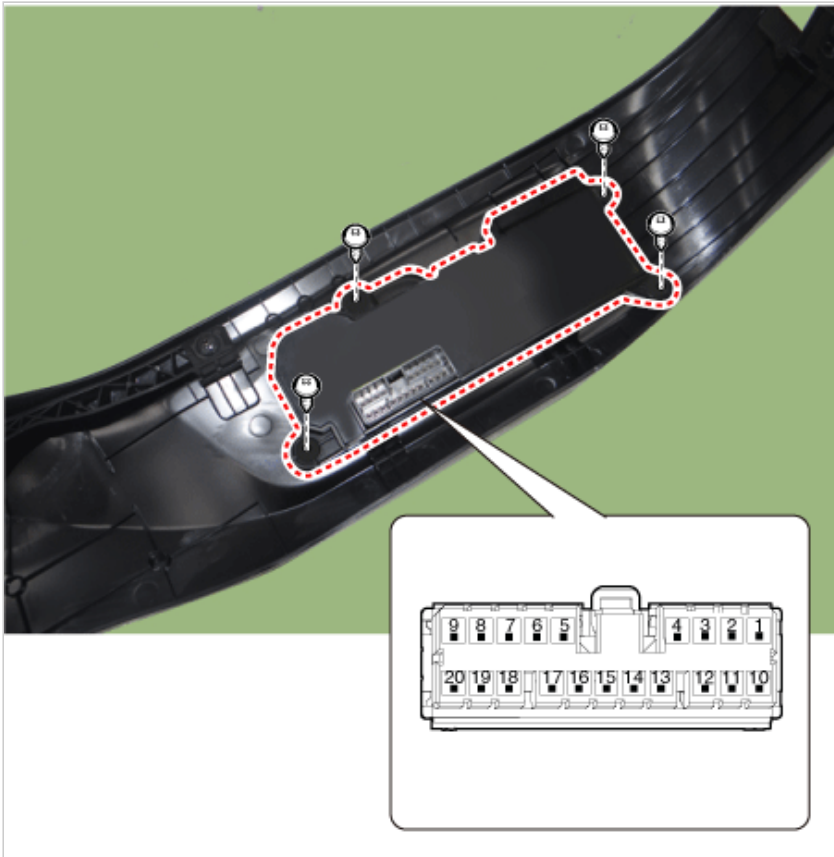
1. The body electrical system can be quickly diagnosed for failed parts by using the vehicle diagnostic system (KDS).

The diagnostic system (KDS) provides the following information.

- (1) Self diagnosis : Checks and displays the failure code (DTC).
 - (2) Current data : Checks the system input/output data state.
 - (3) Actuator test : Checks the system operating condition.
 - (4) Additional function : Other controls such as the system option and zero point adjustment.
2. Select the "Car model" and the system to be checked in order to check the vehicle with the tester.
 3. Select the "Power seat module (PSM)" to check the power seat module (PSM).
 4. Select the "Current data" menu to check the current state of the input/output data.
- The input/output data for the sensors corresponding to the power seat module (PSM) can be checked.

Seat Control Switch

1. With the power seat switch in each position, make sure that continuity exists between the terminals below. If continuity is not as specified, replace the power seat switch.



Driver's Seat / IMS Type

[16Way (EXT + Bolster) Type]

Driver's	Cushion Extension Switch			Front Height Switch		Slide Switch		Rear Height Switch		Reclining Switch		Lumber Support Switch					Bolster			Pin Name		
	Up	Down	N	Up	Down	N		FWD	BWD	Up	Down	N		FWD	Down	FWD	BWD	N	N		INF	DEF
						Tilt	Side					Height	Recline									
17																						Ground (-)
18	○	○		○	○			○	○	○	○			○	○	○	○			○	○	
20	○																					Cushion extension motor (Up)
19		○																				Cushion extension motor (Down)
9				○																		Front height motor (Up)
15					○																	Front height motor (Down)
7								○														Slide motor (Forward)
6									○													Slide motor (Backward)
8										○												Rear height motor (Up)
16											○											Rear height motor (Down)
5												○		○								Reclining motor (Forward)
12													○									Reclining motor (Backward)
1															○							Lumber support motor (Up)
2																○						Lumber support motor (Down)
11																	○					Lumber support motor (Forward)
10																		○				Lumber support motor (Backward)
3																				○		Bolster - INF
14																					○	Bolster - DEF

[14Way (EXT) Type]

Driver's	Cushion Extension Switch			Front Height Switch			Slide Switch		Rear Height Switch		Reclining Switch			Lumber Support Switch					Pin Name			
	Up	Down	N	Up	Down	N		FWD	BWD	Up	Down	N		FWD	BWD	Up	Down	FWD		BWD	N	
						Tilt	Side					Height	Recline									
13																	○	○	○	○		Battery (+)
4																						
17	○	○		○	○			○	○	○	○			○	○						○	Ground (-)
18	○	○		○	○			○	○	○	○			○	○						○	
20	○			○																		Cushion extension motor (Up)
19		○		○																		Cushion extension motor (Down)
9				○																		Front height motor (Up)
15					○																	Front height motor (Down)
7								○														Slide motor (Forward)
6									○													Slide motor (Backward)
8										○												Rear height motor (Up)
16											○											Rear height motor (Down)
5													○									Reclining motor (Forward)
12														○								Reclining motor (Backward)
1																	○			○		Lumber support motor (Up)
2																		○			○	Lumber support motor (Down)
11																		○			○	Lumber support motor (Forward)
10																			○		○	Lumber support motor (Backward)


















[14Way (SLB) Type]

Driver's	Front Height Switch		Slide Switch			Rear Height Switch		Reclining Switch			Lumber Support Switch					Bolster			Pin Name
	Up	Down	N	FWD	BWD	Up	Down	N	FWD	BWD	Up	Down	FWD	BWD	N	N	INF	DEF	
17																			Ground (-)
18	○	○				○	○				○	○	○	○			○	○	
9	○																		Front height motor (Up)
15		○																	Front height motor (Down)
7						○													Slide motor (Forward)
6							○												Slide motor (Backward)
8							○												Rear height motor (Up)
16							○												Rear height motor (Down)
5										○									Reclining motor (Forward)
12											○								Reclining motor (Backward)
1												○							Lumber support motor (Up)
2													○						Lumber support motor (Down)
11														○					Lumber support motor (Forward)
10														○					Lumber support motor (Backward)
3																○			Bolster-INF
14																	○		Bolster-DEF

[12Way Type]

Driver's	Front Height Switch		Slide Switch			Rear Height Switch		Reclining Switch			Lumber Support Switch								Pin Name
	Up	Down	N	FWD	BWD	Up	Down	N	FWD	BWD	Up	Down	FWD	BWD	N				
13																			Battery (+)
4																			
17																			Ground (-)
18	○	○				○	○				○	○	○	○			○	○	
9	○																		Front height motor (Up)
15		○																	Front height motor (Down)
7						○													Slide motor (Forward)
6							○												Slide motor (Backward)
8							○												Rear height motor (Up)
16							○												Rear height motor (Down)
5										○									Reclining motor (Forward)
12											○								Reclining motor (Backward)
1												○							Lumber support motor (Up)
2													○						Lumber support motor (Down)
11														○					Lumber support motor (Forward)
10														○					Lumber support motor (Backward)

[8Way Type]

Driver's	Front Height Switch		Slide Switch				Rear Height Switch		Reclining Switch				Pin Name
	Up	Down	N		FWD	BWD	Up	Down	N		FWD	BWD	
			Tilt	Slide					Height	Recline			
17													Ground (-)
18													
9													Front height motor (Up)
15													Front height motor (Down)
7													Slide motor (Forward)
6													Slide motor (Backward)
8													Rear height motor (Up)
16													Rear height motor (Down)
5													Reclining motor (Forward)
12													Reclining motor (Backward)

Driver's Seat / Non-IMS Type

[14Way (EXT) Type]

Driver's	Cushion Extension Switch			Front Height Switch		Slide Switch				Rear Height Switch		Reclining Switch			Lumber Support Switch					Pin Name
	Up	Down	N	Up	Down	N		FWD	BWD	Up	Down	N	FWD	BWD	Up	Down	FWD	BWD	N	
						Tilt	Ste													
14																				Battery (+)
15	○	○		○	○			○	○	○	○			○	○	○	○	○		
10						○	○	○	○			○	○						○	○
11			○	○		○	○	○	○			○	○						○	○
4	○			○		○	○	○	○			○	○							Cushion extension motor (Up)
1		○		○																Cushion extension motor (Down)
19				○		○	○	○	○			○	○							Front height motor (Up)
20					○	○	○	○	○			○	○							Front height motor (Down)
2						○	○	○	○			○	○							Slide motor (Forward)
3							○	○	○			○	○							Slide motor (Backward)
5									○	○		○	○							Rear height motor (Up)
16										○	○		○	○						Rear height motor (Down)
7												○	○	○						Reclining motor (Forward)
8													○	○	○					Reclining motor (Backward)
9													○	○	○					Reclining limit-Forward (Ground)
6													○	○	○					Reclining limit-Backward (Ground)
18															○	○		○		Lumber support motor (Up)
17																○			○	Lumber support motor (Down)
12																	○		○	Lumber support motor (Forward)
13																		○	○	Lumber support motor (Backward)

[12Way Type]

Driver's	Front Height Switch		Slide Switch				Rear Height Switch		Reclining Switch				Lumber Support Switch					Pin Name
	Up	Down	N		FWD	BWD	Up	Down	N		FWD	BWD	Up	Down	FWD	BWD	N	
			Tilt	Slide					Height	Recline								
14																		Battery (+)
15																		
10																		Ground (-)
11																		
19																		Front height motor (Up)
20																		Front height motor (Down)
2																		Slide motor (Forward)
3																		Slide motor (Backward)
5																		Rear height motor (Up)
16																		Rear height motor (Down)
7																		Reclining motor (Forward)
8																		Reclining motor (Backward)
9																		Reclining limit-Forward (Ground)
6																		Reclining limit-Backward (Ground)
18																		Lumber support motor (Up)
17																		Lumber support motor (Down)
12																		Lumber support motor (Forward)
13																		Lumber support motor (Backward)

[8Way Type]


































































































































Driver's	Front Height Switch		Slide Switch				Rear Height Switch		Reclining Switch				Pin Name
	Up	Down	N		FWD	BWD	Up	Down	N		FWD	BWD	
			Tilt	Slide					Height	Recline			
14													Battery (+)
15													
10													Ground (-)
11													
19													Front height motor (Up)
20													Front height motor (Down)
2													Slide motor (Forward)
3													Slide motor (Backward)
5													Rear height motor (Up)
16													Rear height motor (Down)
7													Reclining motor (Forward)
8													Reclining motor (Backward)
9													Reclining limit-Forward (Ground)
6													Reclining limit-Backward (Ground)

Assist's Seat / Non-IMS Type

[12Way (Walk-In) Type]

	Front Height Switch				Slide Switch		Rear Height Switch		Reclining Switch		Lumber Support Switch					Pin Name			
Assist's	Up	Down	N		FWD	BWD	Up	Down	N		FWD	BWD	Up	Down	FWD		BWD	N	
			Tilt	Side					Height	Recline									
8	○	○						○	○				○	○	○	○		Battery (+)	
9																			
17			○	○		○	○		○	○		○					○	○	Ground (-)
18																			
11	○		○																Front height motor (Up)
10		○		○															Front height motor (Down)
3						○													Slide motor (Forward)
4							○												Slide motor (Backward)
2								○		○									Rear height motor (Up)
1									○										Rear height motor (Down)
13												○							Reclining motor (Forward)
14													○						Reclining motor (Backward)
19														○				○	Lumber support motor (Up)
5															○			○	Lumber support motor (Down)
20																○			Lumber support motor (Forward)
6																	○		Lumber support motor (Backward)

[12Way Type]

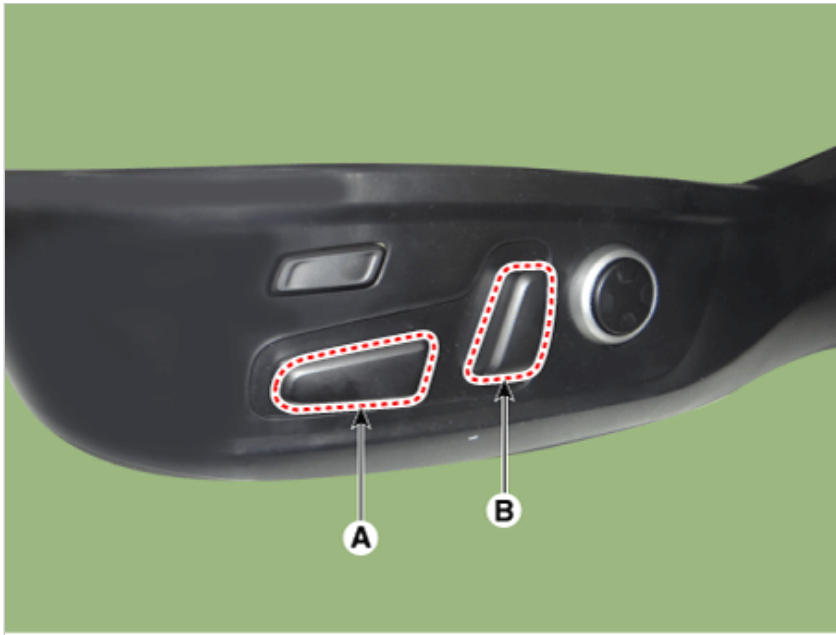
Assist's	Front Height Switch		Slide Switch		Rear Height Switch		Reclining Switch		Lumber Support Switch					Pin Name							
	Up	Down	N		FWD	BWD	Up	Down	N		FWD	BWD	Up		Down	FWD	BWD	N			
			Tilt	Side					Height	Recline											
14																		Battery (+)			
15																					
10																					Ground (-)
11																					
19																					Front height motor (Up)
20																					
2																					Slide motor (Forward)
3																					
5																				Rear height motor (Up)	
16																					
7																				Reclining motor (Forward)	
8																					
9																				Reclining limit-Forward (Ground)	
6																					
18																				Lumber support motor (Up)	
17																					
12																					Lumber support motor (Forward)
13																					

[8Way Type]

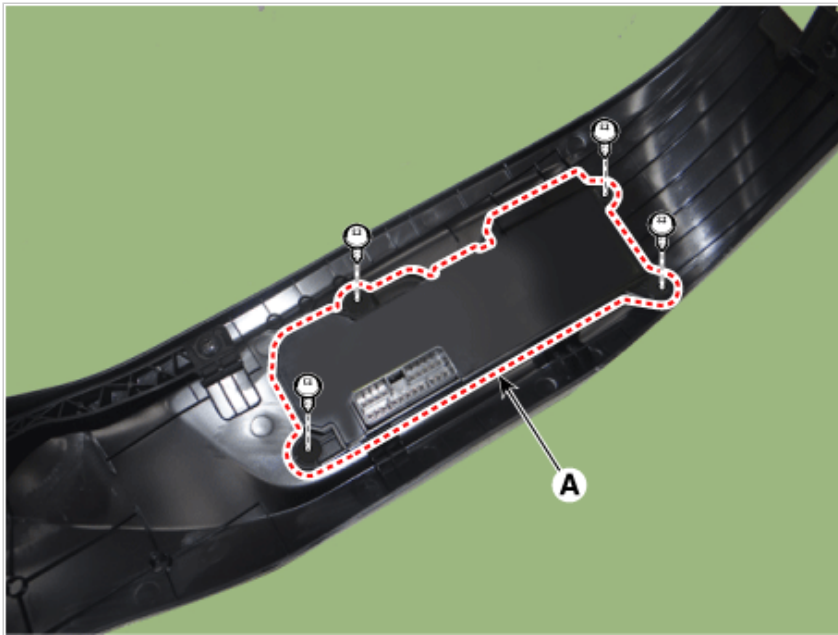
Assist's	Front Height Switch		Slide Switch				Rear Height Switch			Reclining Switch			Pin Name
	Up	Down	N		FWD	BWD	Up	Down	N		FWD	BWD	
			Tilt	Slide					Height	Recline			
14													Battery (+)
15													
10													Ground (-)
11													
19													Front height motor (Up)
20													Front height motor (Down)
2													Slide motor (Forward)
3													Slide motor (Backward)
5													Rear height motor (Up)
16													Rear height motor (Down)
7													Reclining motor (Forward)
8													Reclining motor (Backward)
9													Reclining limit-Forward (Ground)
6													Reclining limit-Backward (Ground)

Removal

1. Disconnect the negative (-) battery terminal.
2. Remove the front seat outer shield cover.
(Refer to Body - "Front Seat Outer Shield Cover")
3. Remove the slide knob (A) and reclining knob (B).



4. Remove the power seat control switch (A) after loosening the mounting screws.



Installation

1. Install the power seat control switch.
2. Install the slide knob and reclining knob.
3. Install the front seat outer shield cover.
4. Connect the negative (-) battery terminal.