



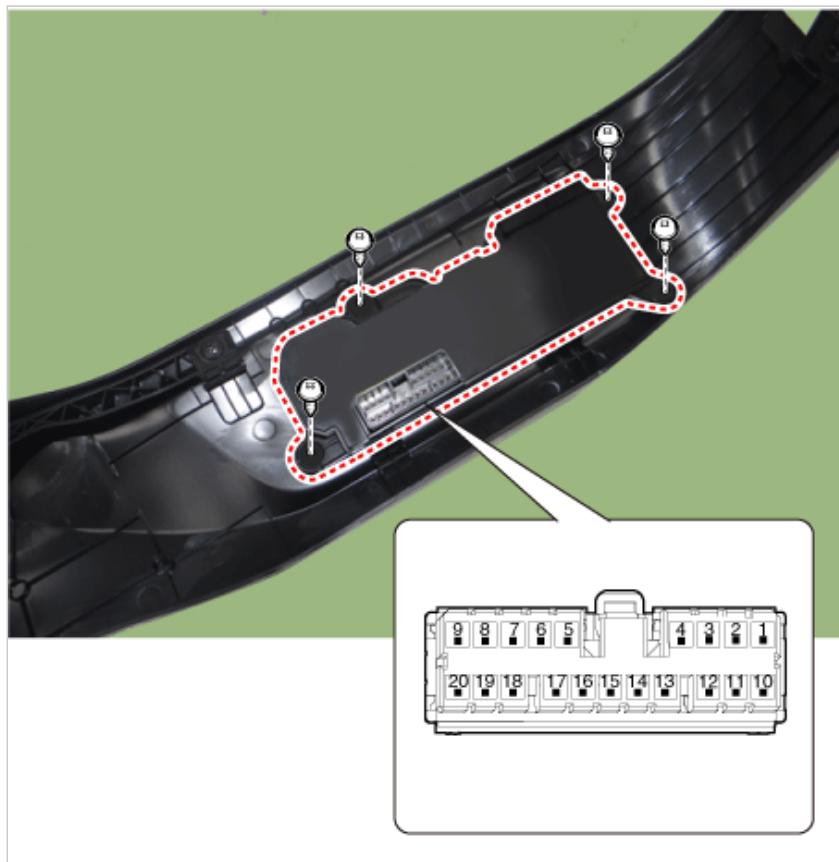
Inspection

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

[14Way (EXT) Type]

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

[12Way Type]

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

[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 | | | | | Height | | | | | |
| 17 | | | | | | | | | | | | | Ground (-) |
| 18 | | | | | | | | | | | | | Front height motor (Up) |
| 9 | | | | | | | | | | | | | Front height motor (Down) |
| 15 | | | | | | | | | | | | | Slide motor (Forward) |
| 7 | | | | | | | | | | | | | Slide motor (Backward) |
| 6 | | | | | | | | | | | | | Rear height motor (Up) |
| 8 | | | | | | | | | | | | | Rear height motor (Down) |
| 16 | | | | | | | | | | | | | Reclining motor (Forward) |
| 5 | | | | | | | | | | | | | Reclining motor (Backward) |
| 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 | Tilt | Sbe | FWD | BWD | Up | Down | N | Height | FWD | BWD | Up | Down | FWD | BWD | | | |
| | | | | | | Slide | | | Height | Recline | Recline | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | | | Battery (+) |
| 15 | | | | | | | | | | | | | | | | | | | | | | | Ground (-) |
| 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 | Side | | | | | Height | Recline | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | Battery (+) | |
| 15 | | | | | | | | | | | | | | | | | | | | | Ground (-) | |
| 10 | | | | | | | | | | | | | | | | | | | | | Front height motor (Up) | |
| 11 | | | | | | | | | | | | | | | | | | | | | Front height motor (Down) | |
| 19 | | | | | | | | | | | | | | | | | | | | | Slide motor (Forward) | |
| 20 | | | | | | | | | | | | | | | | | | | | | Slide motor (Backward) | |
| 2 | | | | | | | | | | | | | | | | | | | | | Rear height motor (Up) | |
| 3 | | | | | | | | | | | | | | | | | | | | | Rear height motor (Down) | |
| 5 | | | | | | | | | | | | | | | | | | | | | Reclining motor (Forward) | |
| 16 | | | | | | | | | | | | | | | | | | | | | Reclining motor (Backward) | |
| 7 | | | | | | | | | | | | | | | | | | | | | Reclining limit-Forward (Ground) | |
| 8 | | | | | | | | | | | | | | | | | | | | | Reclining limit-Backward (Ground) | |
| 9 | | | | | | | | | | | | | | | | | | | | | Lumber support motor (Up) | |
| 6 | | | | | | | | | | | | | | | | | | | | | Lumber support motor (Down) | |
| 18 | | | | | | | | | | | | | | | | | | | | | Lumber support motor (Forward) | |
| 17 | | | | | | | | | | | | | | | | | | | | | Lumber support motor (Backward) | |
| 12 | | | | | | | | | | | | | | | | | | | | | Lumber support motor (Backward) | |
| 13 | | | | | | | | | | | | | | | | | | | | | | |

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

Assist's Seat / Non-IMS Type

[12Way (Walk-In) 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 | |
| | Tilt | Side | | | | Height | Recline | | | | | | | | |
| 8 | ○ | ○ | | | | ○ | ○ | | | | ○ | ○ | ○ | ○ | Battery (+) |
| 9 | | | ○ | ○ | | | | | | | | | | | Ground (-) |
| 17 | | | | ○ | ○ | | | ○ | ○ | | | | | | |
| 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]

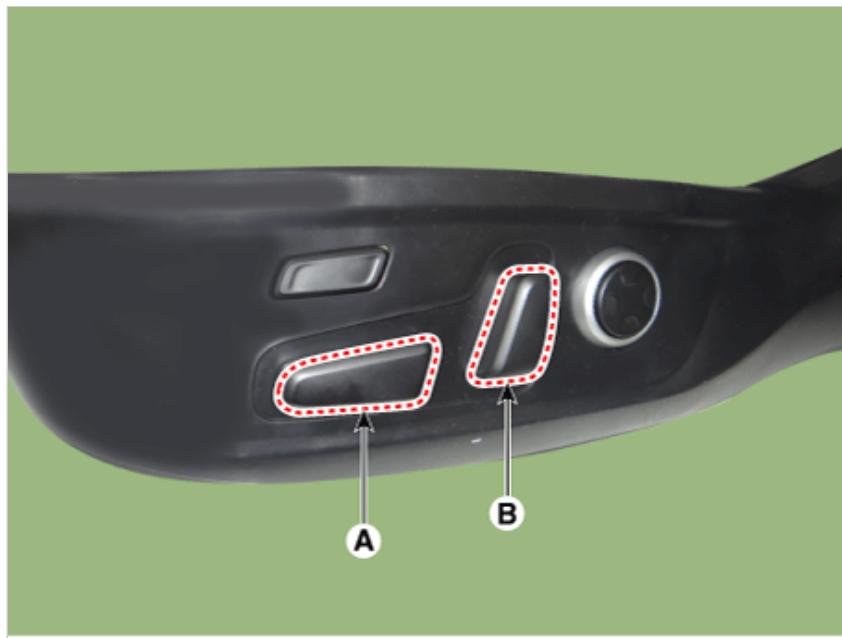
| Assist's | Front Height Switch | | Slide Switch | | Rear Height Switch | | Reclining Switch | | Lumber Support Switch | | | | | Pin Name | | |
|----------|---------------------|------|--------------|---------|--------------------|----|------------------|---|-----------------------|-----|----|------|-----|----------|---|-----------------------------------|
| | 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 | | ○ | ○ | | | | | | | | | | | | | 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]

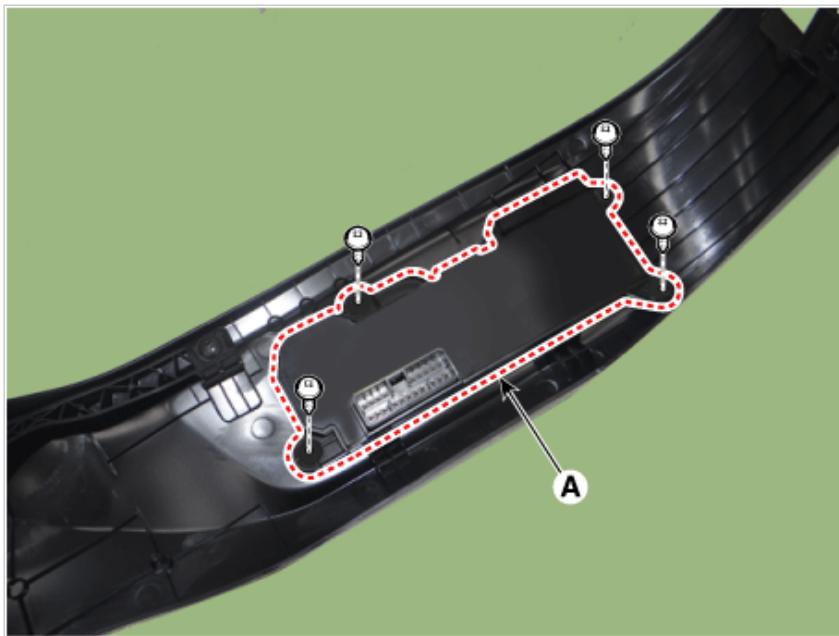
| Assist's | Front Height Switch | | | Slide Switch | | Rear Height Switch | | | Reclining Switch | | | Pin Name | |
|----------|---------------------|------|------|--------------|-----|--------------------|------|--------|------------------|-----|-----|-----------------------------------|--|
| | Up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

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.