

## POWER DOOR LOCKS

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Two relays provide power for the power door lock motors. The Unlock relay provides power for the unlock circuits while the Lock relay powers the lock circuits. Either the power door lock switches or the remote keyless entry module operate the Unlock and Lock relays.

### LOCK RELAY

Circuit M1 from fuse 9 in the fuse block powers circuit P38. When either power door lock switch is put in the LOCK position, the switch connects circuit P38 to circuit P35. If the operator uses Remote Keyless Entry (RKE), the RKE module powers circuit P35. In either case, circuit P35 supplies power to the coil side of the lock relay, causing the relay contacts to close. Circuit Z1 provides ground for the coil side of the lock relay.

When the lock relay contacts close, they connect battery voltage from circuit P37 to circuit P2. Circuit P2 then supplies battery voltage to the power door lock motors to LOCK the doors.

When the power doors LOCK, ground for the motors is on circuit P34 through the normally closed contacts in the door unlock relay to ground on circuit Z1.

### UNLOCK RELAY

Circuit M1 from fuse 9 in the fuse block powers circuit P38. When either power door lock switch is put in the UNLOCK position, the switch connects circuit P38 to circuit P36. If the operator uses Remote Keyless Entry (RKE), the RKE module powers circuit P36. In either case, circuit P36 supplies power to the coil side of the unlock relay, causing the relay contacts to close. Circuit Z1 provides ground for the coil side of the unlock relay.

When the unlock relay contacts close, they connect battery voltage from circuit P37 to circuit P34. Circuit P34 then supplies battery voltage to the power door lock motors to UNLOCK the doors.

When the power doors UNLOCK, ground for the motors is on circuit P2 through the normally closed contacts in the door lock relay to ground on circuit Z1.

### REMOTE KEYLESS ENTRY MODULE

Circuit M1 from the ignition off draw (IOD) fuse in cavity 9 of the fuse block supplies power to the Remote Keyless Entry (RKE) module. Circuit F87 from fuse 17 in the fuse block supplies power to the RKE module when the ignition switch is in the START or RUN position. Circuit Z1 provides ground for the RKE module.

The RKE module UNLOCKS the doors by energizing the unlock relay on circuit P36. Refer to Unlock Relay.

The module LOCKS the doors by energizing the lock relay on circuit P35. Refer to Lock Relay.

### HELPFUL INFORMATION

- Fuse 13 in the fuse block powers circuit P37. Circuit A7 from fuse 3 in the PDC feeds fuse 13 in the fuse block.
- Circuit A7 from fuse 3 in the PDC also feeds fuse 16 in the PDC. PDC fuse 16 powers fuse 9 in the fuse block. Fuse 9 protects the M1 circuit.

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