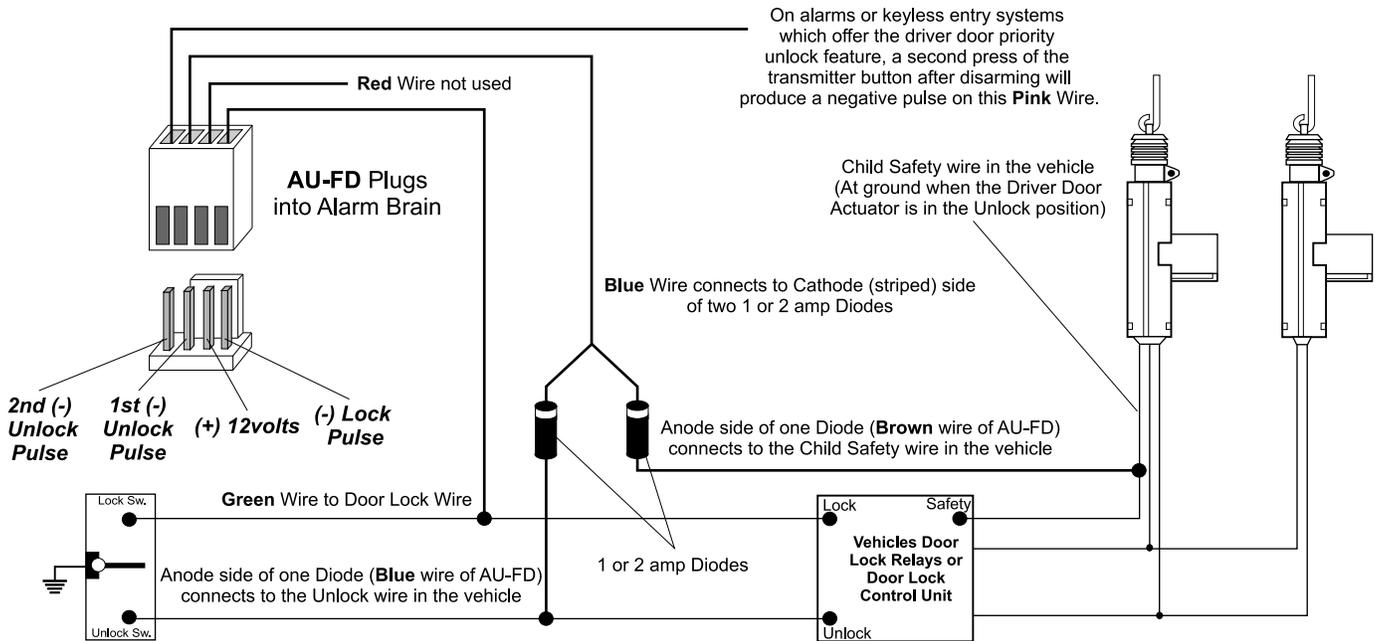


## Note #209 - Child Safety Door Lock Circuit

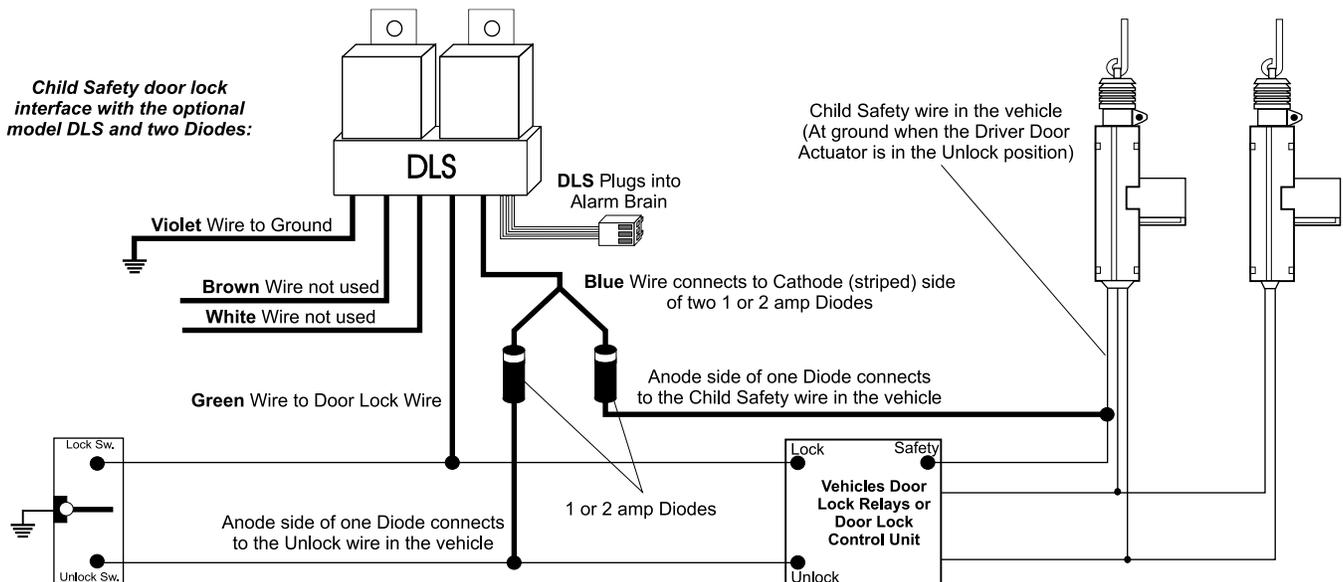
- Some vehicles are equipped from the factory with a Child Safety door lock system which, when activated, prevents the door lock switches from operating the door lock system. The system is activated by the driver door being locked by the key cylinder switch or by being locked by the door lock switch in the driver door while the door is open. Once the system is activated, the door lock control module monitors the "Child Safety" wire which is the link between the actuator in the driver door and the door lock control module. Once the Child Safety is activated, the door lock switches will not work until the driver door actuator is returned to the unlock position which puts a ground on the Child Safety wire.

- This Child Safety door lock system can cause problems when using an alarm or keyless entry to operate the door locks. The Child Safety system can be turned off in these vehicles to prevent problems with the door locks or, preferably, applying a ground to the Child Safety wire at the same time the ground is applied to the switch wire to unlock the doors will prevent any problems with the Child Safety system.

- Notice that the unlock wire and the child safety wire in the vehicle must receive a negative pulse when unlocking the doors to prevent any problems with the child safety circuit. In this case the optional harness ,AU-FD (which is a 4-pin 6-wire plug-in harness with the diodes pre-wired into the harness) can be used or the three or four pin blank connector and terminals that are included may be used to utilize the negative output of the alarm or keyless entry to operate the door lock system in the vehicle. Some doorlock systems, however, require more than the 250 ma. ground output that the security system's control module accommodates. In these cases the optional model DLS and two relays must be used.



**CONNECTION:** The diagram above shows how to connect the optional model "AU-FD" or the (-) lock and unlock outputs to a Child Safety type door lock system. The Diodes are needed to isolate the "split" unlock outputs from the alarm or keyless entry which will prevent any backfeed between the factory circuits. The AU-FD is a pre-wired harness with the diodes pre-wired into the harness.



**CONNECTION:** The diagram above shows how to connect the optional model "DLS" to a Child Safety type door lock system. The Diodes are needed to isolate the "split" unlock outputs from the DLS which will prevent any backfeed between the factory circuits. If the relays are going to be wired directly without the optional model "DLS", then use the "DLS" wiring diagram NOTE #200 to see how the relay coils are wired to the alarm brain outputs & how the wires from the relay contacts are wired to interface with the door lock system.