



Remote Entry Transmitter Programming Procedures

Programming Method and Transmitter Type (Letter indicates Programming Method, Number indicates Transmitter Type)						
Model Year:	2000	2001	2002	2003	2004	2005
Aviator				A11	A11	A11
Blackwood			A12	A12		
Continental	L,A8	L,A8	L,A8			
Contour/Mystique	I3					
Cougar	M5	M5	M5			
Crown Vic/Grand Marq	L,K ⁽³⁾ 7	L,K ⁽³⁾ 7	L,K ⁽³⁾ 7	L,K ⁽³⁾ 7	L,K ⁽³⁾ 7	L,K ⁽³⁾ 7
Econoline	A6	A6	A6	A6	A6	A6
Escape/Tribute	A6	A6	A6	A6	A6	A6
Escape (Hybrid)						A6
Escort/Tracer Coupe	A5	A5	A5	A5		
Escort/Tracer Sedan	A5	A5	A5			
Excursion	A6	A6	A6	A6	A6	A6
Expedition/Navigator	A6	A6	A6	A11,13	A11,13	A11,13
Explorer/Mountaineer	A6	A6	A ⁽²⁾ 11	A11	A11	A11
Explorer 2dr/Sport	A6	A6	A6	A6		
Explorer Sport Trac		A6	A6	A6	A6	A6
F-Series					A6	A6
F-Series (Heritage)	A6	A6	A6	A6	A6	
F-Series Heavy Duty	D6	A6	A6	A6	A6,15	A6
Focus	O5	O5	O5	O5	O5	O5
Freestar/Monterey					A6,9,14	A6,9,14
Freestyle						L,A5
Five Hundred						L,A5
LS	L5	L5	L5	L,A5	L,A5	L,A5
Mariner						A6
Montego						L,A5
Mustang	A5	A5	A5	A5	A5	A5
Ranger	A6	A6	A6	A6	A6	A6
Taurus/Sable	L,A5	L,A5	L,A5	L,A5	L,A5	L,A5
Thunderbird			L,A5	L,A5	L,A5	L,A5
Town Car	L,K5	L,K5	L,K5	L,K5	L,A5	L,A5
Villager	N 10	N 10	N 10			
Windstar	A5,6,9	A6,9	A6,9	A6,9		



Type 3



Type 5



Type 6



Type 7
Gray Color



Type 8 * Switch with #1 or #2 on Back. Gray Color



Type 9



Type 10



Type 11



Type 12



Type 13



Type 14



Type 15 Wireless RF Keypad

Remote Entry Programming Procedure - Helpful Hints

1. Electronically unlock the vehicle prior to attempting to enter Remote Entry Programming Mode.
2. If only one transmitter needs to be added or replaced, this can be accomplished via the diagnostic programming procedure using service tools (if supported) instead of erasing all transmitters from memory using the manual key cycle method.
3. If no diagnostic programming procedure is available, gather ALL remote transmitters together and program them to the vehicle during same manual programming procedure. Otherwise, the unavailable transmitters will no longer be programmed to the vehicle. In this case, customers must be notified of this fact and told to refer to their Owner's Guide for proper programming procedures. NOTE: Upon successful programming of transmitters, all previously stored devices in memory get erased.
4. In the service environment, enter program mode one vehicle at a time to avoid cross programming of transmitters. Ensure no other vehicle RKE activity is occurring while in this mode. WARNING: Some RKE systems can operate up to 164-230ft (50-70m) at certain points around the vehicle and thus transmitters from another vehicle can be inadvertently programmed.
5. A transmitter does not require programming again upon a battery replacement.
6. If any one button on a transmitter functions correctly, the device should not be reprogrammed.
7. Reprogramming transmitters will not correct a vehicle experiencing poor range performance.
8. Keep in mind, most systems only allow 4 devices to be programmed to the vehicle. For example, if a vehicle capable of accepting 4 transmitter devices is fitted with a wireless keypad, then it can only accept three other transmitter (key fob) devices.

Specific vehicle issue legend:

- (2) 02MY Explorer/Mountaineers launched prior to March 2002 without Perimeter Anti-Theft or with it disabled can only enter program mode by opening the driver's door and activating the interior power door unlock switch first.
- (3) After exiting programming mode on 99-04MY Crown Vic/Grand Marquis vehicles, one must wait at least 20 seconds before attempting to verify transmitters were successfully programmed.
- (4) 05MY Expedition/Navigator:
 - a) Do not press brake pedal during Remote Entry programming procedure as it will immediately exit you from that mode. (This is to protect against confusion with TPMS learn mode.)
 - b) It is no longer necessary to reprogram the remote transmitters when the RKE control module is replaced when using the PMI procedure. The PMI procedure now transfers transmitter data to the new module. **NOTE** - when programming the BSM using as-built data, it will still be necessary to program all the remote transmitters to the control module whenever BSM requires replacement.

Prior Model Year info is located on previous job aids which can be viewed on the Professional Technician Society (PTS) and FMCDDealer.com websites.



Remote Entry Transmitter Programming Procedures

Programming Method



A	Turn ignition from OFF to RUN 8 times within 10 seconds, with the 8th time ending in RUN. All doors will lock then unlock to confirm programming mode. Within 20 seconds, press any button on 1st remote transmitter. Door locks will cycle to confirm programming. Within 20 seconds, press any button on 2nd transmitter (up to 4 transmitters total possible). Turn ignition to OFF. Locks will again cycle to indicate end of programming mode.
D	Same as procedure A, except cycle ignition from OFF to RUN 5 times within 10 seconds.
I	Turn ignition to RUN or ACC. Momentarily jump pins in programming connector located behind glove box. The horn will chirp to confirm programming mode. Press any button on 1st transmitter. The horn will chirp to confirm programming. Press any button on 2nd transmitter (up to 4 transmitters total possible). Turn ignition to OFF. The horn will chirp one last time to indicate end of programming mode.
K	Turn the ignition from OFF to RUN 4 times within 3 seconds, with the 4th time ending in RUN. All doors will lock then unlock to confirm programming mode. Within 20 seconds, press any button on 1st remote transmitter. Door locks will cycle to confirm programming. Within 20 seconds, press any button on 2nd transmitter (up to 4 transmitters total possible). Turn the ignition OFF. Locks will again cycle to indicate end of programming mode. No exit confirmations are provided on 99-04MY Crown Vic/Grand Marquis.
L	Diagnostic method of programming transmitters: 1. Choose Service Bay Functions from the service function card (NGS) or use WDS 2. Choose Applicable Module (e.g. DDM, CSM, BSM, etc.) 3. Choose Key Fob Programming 4. Press any button on the remote entry transmitter 5. Choose Fob 1, 2, 3, or 4 and press Store 6. Repeat step 4 for additional transmitters 7. Press Cancel to get out of menu Note: If transmitters do not appear to be working after procedure is complete, disconnect vehicle battery for 5 minutes, then reconnect and try the transmitter again.
M	Turn the ignition from OFF to RUN 4 times within 6 seconds. Turn the ignition OFF. The LED in the clock/trip computer will light up continuously to confirm programming mode. Within 20 seconds, press any button on 1st remote transmitter. The LED in the clock will flash 4 times to confirm programming. Within 20 seconds, press any button on 2nd transmitter (up to 4 transmitters total possible). Turn the ignition to RUN. The LED will turn off to indicate end of programming mode.
N	Enter vehicle, close and lock all doors. Slowly insert and remove key from ignition 6 times within 10 seconds. The tail lamps will flash to indicate original code has been erased. Turn ignition to the ACC position. Press any button on 1st transmitter. Hazard lamps will flash to confirm programming. To enter additional transmitters, unlock then lock the doors using the power lock switch located on the driver door. Press any button on additional transmitter (up to 4 transmitters total possible). Hazard lamps will flash to confirm programming. Open the driver's door. Turn ignition off.
O	Turn the ignition from OFF to RUN 4 times within 6 seconds. Turn the ignition OFF. The system will chime to confirm programming mode has been entered. Within 20 seconds, press any button on 1st transmitter. The system will chime once to confirm programming. Within 20 seconds, press any button on 2nd transmitter (up to 4 transmitters total possible). Turn the ignition to RUN to exit programming mode.

Poor Operating Range Performance - Helpful Hints

If extremely poor operating range is experienced:

1. Do not change transmitter batteries. Range is not affected as the battery ages.
2. Do not replace or reprogram transmitters. Range performance is determined primarily by the receiver control module.
3. If range performance exceeds about 30 feet (10m), do not replace the fob or module. This is within design limits.
4. If range is consistently less than 10 feet (3m) from the center of the vehicle, the system can be considered "compromised" provided the following factors are first ruled out:
 - Verify external antenna is connected (if equipped – e.g. Focus and Freestar).
 - Ensure issue exists all the time versus just in specific locations. Such as by local grocery store, radio stations, TV transmitting towers or by buildings with power generators.
 - Ensure no other aftermarket or dealer installed systems are on vehicle when troubleshooting. (Examples: other RKE, remote start, perimeter alarm systems, etc.)
 - Ensure issue is consistent in nature and not just from one approaching angle from/to the vehicle.

Correct Transmitter Usage - Helpful Hints

- 1a.  Do not replace older MY remote transmitters with transmitters with the Ford Motor Company name on back housing. These transmitters are not backward compatible. They may program to the vehicle but may cause intermittent behavior. Refer to the service part number index for proper component usage.
- 1b.  Do not replace transmitters with Ford Motor Company name on back housing with older MY transmitters. These transmitters are not backward compatible. They may program to the vehicle but may cause intermittent behavior. Refer to the service part number index for proper component usage.
2. If the transmitter equipped with the vehicle is not identical to one shown on this job aid then it is not a Ford Motor Company OEM system.

Miscellaneous - Helpful Hints

1. Most new FMC RKE systems allow Lock and Unlock functions to operate with the ignition in RUN/START. However, the locking confirmations (exterior light flashes or horn chirps) are not allowed with the ignition on. This is normal design intent.
2. If you experience difficulty performing diagnostics on a receiver control module, electronically unlock the vehicle first then continue.
3. If customers complain of inadvertent activations, determine if the following is the cause:
 - a. Ask customer if they programmed their transmitters to other family vehicles. If so, inform them if a transmitter is activated within 164-230ft (50-70m) of both vehicles, it may perform the function on both vehicles. (Also, note that a trunk release button on one vehicle may be a liftgate glass release function on another vehicle.)
 - b. For Liftgate Glass release activations, check OASIS to determine if there are any SSM or TSB affecting the vehicle line you are working on. Example: 02/3MY Explorer/Mountaineers.
 - c. Transmitters being inadvertently activated in purse or pocket.