2000 Transponder Application Guide

Includes:

- *Automobile Make, Model & Year*

- *Transponder Key Application*

- *Programming Method*

- *On-Board Programming Procedures*

HILLMAN

THE Key Center

APPLICATION CHART

	RW-2 Required		ON-Board Programming		*Models with Transponders as optional equipment for some model years
					**Models require additional equipment to program the key

Make	Model	Year(s)	Master EZ #	Valet	Chip Mfg.	Programming Method
Acura	CL & TL	1999-00	HD-106PT5	HD-107PT5	Megamos	RW-2
	NSX	1997-00	HD-106PT5	HD-107PT5	Megamos	RW-2
	RL 3.5	1997-00	HD-106PT5	HD-107PT5	Megamos	RW-2
Audi	A4, A6, A8, S4 Cabriolet, TT	1996-00	HU-66AT6		Megamos	See Dealer**
BMW	All Models	1995-00	Special		Philips	See Dealer
Buick	LeSabre	2000	B-99PT5	B-100PT5	Megamos	RW-2
	Park Avenue	1997-00	B-97PT5	B-98PT5	Megamos	RW-2
Cadillac	Catera	1997-00	HU-46T2		Philips	RW-2
	Deville, STS	2000	B-99PT5	B-100PT5	Megamos	RW-2
	Seville	1998-00	B-99PT5	B-100PT5	Megamos	RW-2
Chevrolet	Venture Van	1999-00	B-97PT5		Megamos	RW-2
Chrysler	Cirrus	1999-00*	Y-160PT		Texas Instr.	Use Program F
	Concorde	1998-00	Y-160PT		Texas Instr.	Use Program F
	LHS	1998-00	Y-160PT		Texas Instr.	Use Program F
	300M	1998-00	Y-160PT		Texas Instr.	Use Program F
	Sebring Convert.	1998-00	Y-160PT		Texas Instr.	Use Program F
Daewoo	Nubira	1998-00	DW-04RT5		Megamos	RW-2
	Lanos	1998-00	DW-05RT5		Megamos	RW-2
	Leganza	1998-00	DW-05T5		Megamos	RW-2
Dodge	Intrepid	1998-00*	Y-160PT		Texas Instr.	Use Program F
	Neon	2000	Y-160PT		Texas Instr.	Use Program F
	Stratus	1999-00*	Y-160PT		Texas Instr.	Use Program F
	Viper	2000	Y-160PT		Texas Instr.	Use Program F
Eagle	Vision	1998-00*	Y-160PT		Texas Instr.	Use Program F
Ford	Contour V6 LX	1999-00	H-73PT		Texas Instr.	Use Program C
		1998	H-73PT		Texas Instr.	Use Program B
	Crown Victoria	1998-00*	H-72PT		Texas Instr.	Use Program C
	LTD	1998-00*	H-72PT		Texas Instr.	Use Program C
	Excursion	2000	H-72PT		Texas Instr.	Use Program C
	Expedition	1999-00	H-72PT		Texas Instr.	Use Program C
		1997-98	H-72PT		Texas Instr.	Use Program B
	Explorer	1998-00*	H-72PT		Texas Instr.	Use Program C
	Focus	2000	H-86PT		Texas Instr.	Use Program C
	F150, 250	1999-00	H-72PT		Texas Instr.	Use Program C
	Mustang - All	1998-00	H-72PT		Texas Instr.	Use Program C
		1996-97*	H-72PT		Texas Instr.	Use Program B
	Ranger Pickups	1999-00	H-72PT		Texas Instr.	Use Program C
	Taurus - All	2000	Special		Texas Instr.	See Dealer
	Taurus LX, SHO	1998-99	H-72PT		Texas Instr.	Use Program C
		1996-97*	H-72PT		Texas Instr.	Use Program B
	Windstar	1998-00*	H-72PT		Texas Instr.	Use Program C
	Heavy Trucks	2000	H-72PT		Texas Instr.	Use Program C
Honda	Accord	1998-00	HD-106PT5	HD-107PT5	Megamos	RW-2
	Insight	2000	HD-106PT5	HD-107PT5	Megamos	RW-2
	Odyssey	1998-00	HD-106PT5	HD-107PT5	Megamos	RW-2
	Prelude	1997-00	HD-106PT5	HD-107PT5	Megamos	RW-2
	S2000	2000	HD-106PT5	HD-107PT5	Megamos	RW-2
Infiniti	Q45	1997-00	Special		Texas Instr.	See Dealer
	QX4	1999-00	Special		Texas Instr.	See Dealer
	I30	1999-00	Special		Texas Instr.	See Dealer
	G20	2000	Special		Texas Instr.	See Dealer
Jaguar	XLS, KK8	1998-99	TBE-1T5		Megamos	RW-2
	XJ,XK	1997-00	Special		Megamos	See Dealer
Jeep	CJ5, CJ7	1999-00*	Y-160PT		Texas Inst.	Use Program F
	Cherokee	1998-00*	Y-160PT		Texas Inst.	Use Program F
	Grand Cherokee	1998-00*	Y-160PT		Texas Instr.	Use Program F
	Wrangler	1998-00*	Y-160PT		Texas Instr.	Use Program F
Lexus	LS400	1998-00	TOY-48BT4		Texas Instr.	Use Program E
		1997	TOY-40BT4		Texas Instr.	Use Program E

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APPLICATION CHART

RW-2
Required

ON-Board
Programming

*Models with Transponders as optional equipment for some model years
**Models require additional equipment to program the key

Make	Model	Year(s)	Master EZ #	Valet	Chip Mfg.	Programming Method	
Lexus (Con't)	GS300 / 400	1998-00	TOY-48BT4		Texas Instr.	Use Program E	△
	ES300	1998-00	TOY-40BT4		Texas Instr.	Use Program E	△
	SC300 / 400	1998-00	TOY-40BT4		Texas Instr.	Use Program E	△
	RX300	1999-00	TOY-48BT4		Texas Instr.	Use Program E	△
	LX450	1998-00	TOY-40BT4		Texas Instr.	Use Program E	△
	LX470	1999-00	TOY-40BT4		Texas Instr.	Use Program E	△
Lincoln	Continental	1998-00	H-72PT	H-82PT	Texas Instr.	Use Program C	△
	LS6, LS8	1998-00	H-74PT		Texas Instr.	Use Program C	△
	Mark VIII	1997-00	Special		Texas Instr.	See Dealer	
	Navigator	1998-00	H-72PT	H-82PT	Texas Instr.	Use Program C	△
	Town Car	1998-00	H-72PT	H-82PT	Texas Instr.	Use Program C	△
Mazda	626ES/LX	2000	Special		Philips	See Dealer	
		1998-99	MAZ-24RT5		Philips	RW-2	▱
	MPV	2000	Special		Texas Instr.	See Dealer	
	3000/4000 Pickup	1999-00	H-72PT		Texas Instr.	Use Program C	△
Mercedes	All Models	1997-00	Special		Philips	See Dealer	
Mecury	Cougar	1999-00	H-73PT		Texas Instr.	Use Program C	△
	Grand Marquis	1999-00	H-72PT	H-82PT	Texas Instr.	Use Program C	△
	Mystique LS	1999-00	H-73PT		Texas Instr.	Use Program C	△
		1998	H-73PT		Texas Instr.	Use Program B	△
	Sable GS / LS	2000	Special		Texas Instr.	See Dealer	
	Sable GS	1999	H-73PT		Texas Instr.	Use Program C	△
	Sable LS	1998-99	H-72PT		Texas Instr.	Use Program C	△
		1996-97	H-72PT		Texas Instr.	Use Program B	△
	Mountaineer	1998-00	H-72PT	H-82PT	Texas Instr.	Use Program C	△
Mitsubishi	Diamante	2000	Special		Texas Instr.	See Dealer	
	Eclipse	2000	Special		Texas Instr.	See Dealer	
	Galante	2000	Special		Texas Instr.	See Dealer	
	Montero Sport	2000	Special		Texas Instr.	See Dealer	
Nissan	Altima	2000	Special		Texas Instr.	See Dealer	
	Maxima	2000	Special		Texas Instr.	See Dealer	
		1999	NSN-11T2		Philips	RW-2	▱
	Pathfinder	1999-00	Special		Texas Instr.	See Dealer	
	Xterra	2000	Special		Texas Instr.	See Dealer	
Oldsmobile	Silhouette	1999-00	B-97PT5	B-98PT5	Megamos	RW-2	▱
	Aurora	2000	B-99PT5	B-100PT5	Megamos	RW-2	▱
Plymouth	Breeze	2000	Y-160PT		Texas Instr.	Use Program F	△
	Neon	2000	Y-160PT		Texas Instr.	Use Program F	△
	Prowler	2000	Y-160PT		Texas Instr.	Use Program F	△
Pontiac	Bonneville	2000	B-99PT5	B-100PT5	Megamos	RW-2	▱
	Grand Prix	2000	B-103PT5	B-104PT5	Megamos	RW-2	▱
	Montana	1998-00	B-97PT5	B-98PT5	Megamos	RW-2	▱
	Trans Sport	1999-00	B-97PT5	B-98PT5	Megamos	RW-2	▱
Porsche	Boxter, 911, 912	1999-00	Special		Megamos	See Dealer	
	Boxter	1997-98	HU-66T5		Megamos	RW-2	▱
Saab	9 3, 9 5	1999-00	YM-30T5		Megamos	RW-2	▱
Toyota	Avalon XL, XLS	1998-00*	TOY-43AT4		Texas Instr.	Use Program E	△
	Celica Coupe	2000*	TOY-43AT4		Texas Instr.	Use Program E	△
	Camry LE, XLE	1998-00*	TOY-43AT4		Texas Instr.	Use Program E	△
	Solara SE, SLE	1998-00*	TOY-43AT4		Texas Instr.	Use Program E	△
	4-Runner	1999-00	TOY-43AT4		Texas Instr.	Use Program E	△
	Land Cruiser	1999-00	TOY-43AT4		Texas Instr.	Use Program E	△
	Sienna Van	1999-00*	TOY-43AT4		Texas Instr.	Use Program E	△
Volkswagen	Beetle, Passat	2000	HU-66T6		Megamos	See Dealer**	
	Golf, Jetta	2000	HU-66T6		Megamos	See Dealer**	
Volvo	All Models	1999-00	Special		Megamos	See Dealer	

On-Board Programming

Programming Procedures...

Listed on the following pages are five On-Board Programming Procedures for Read-Only Transponder keys. These procedures allow a new transponder key to be added to the memory of certain cars and trucks. Refer to the Transponder Auto Application Guide for the proper programming procedure to use for the make, model and year of the vehicle. They are lettered A, B, C, E, and F.

Included with each procedure are instructions on how to originate a new master key in the event the original keys are lost or stolen. The vehicle's on-board computer is programmed to recognize the unique electronic code of each key originally assigned to the vehicle at the factory. These procedures will allow you to erase those keys from the memory, which will prevent them from being used if found.

Note: Those vehicle's that use procedures C & F require two original keys to program any new keys. Without two originals the vehicle owner will have to go to a car dealership to get additional keys.

A

Buick & Cadillac

Originate New Master Key

1. Insert new Key into ignition cylinder and turn it to the ON (RUN) position. The security light on the dash will illuminate and stay on for ten minutes.
2. When the security light goes out, you have one minute to start the next step. Turn the ignition cylinder to OFF and then back to the ON position. The security light on the dash will illuminate and stay on for ten more minutes.
3. When the security light goes out, you have one minute to start the next step. Turn the ignition cylinder to OFF and then back to the ON position. The security light on the dash will illuminate and stay on for ten more minutes.
4. After the security light has gone off for the third time, the key has been programmed into the vehicle's computer and will operate the car. It has replaced ALL the previous electronic key codes and is the ONLY key programmed into the vehicle's computer.

Add Duplicate Key

1. Insert an existing key and turn the ignition cylinder to ON (Run) and then back to OFF.
2. Within fifteen seconds remove the existing key, insert the new key and turn it to ON.
3. The security light will light up for two seconds to indicate successful programming of the key into the vehicle.

B

Ford, Lincoln & Mercury

Originate New Master Key

1. Insert new key into ignition cylinder and turn it to the ON (RUN) position. The security light on the dash will flash for 15 minutes.
2. When security light stops flashing, you have five minutes to start the next step. Turn the ignition cylinder to OFF and then back to the ON position. The security light on the dash will flash for 15 more minutes.
3. When security light stops flashing, you have five minutes to start the next step. Turn the ignition cylinder to OFF and then back to the ON position. The security light on the dash will flash for 15 more minutes.
4. After the security light stops flashing for the third time, the new key has been programmed into the vehicle's computer and will operate the car. It has replaced all the previous electronic key codes and is the ONLY key programmed into the vehicle's computer.

Add Duplicate Key

1. Insert an existing key into the ignition cylinder. Turn it to the ON (RUN) position and then back to the OFF position.
2. Within fifteen seconds remove the existing key, insert the new key and turn it to ON.
3. The security light will light up for two seconds to indicate successful programming of the key into the vehicle.

On-Board Programming

Ford, Lincoln & Mercury

Originate New Master Key
1. This requires that the vehicle be connected to special dealer equipment. There are two ten minute delays involved while this device erases all existing key programming and sets up the vehicle computer to accept new key codes. Two new keys should be ready because the system requires a minimum of two keys in the program. After the first two keys are programmed, additional keys can be entered individually by following the instructions for adding duplicate keys.

Add Duplicate Key *(Requires two existing keys)*
1. Insert an existing key and turn the ignition cylinder to ON (RUN) and then back to OFF.
2. Within five seconds remove the existing key, insert another existing key and turn it to the ON position and then back to OFF.
3. Within ten seconds insert the new key and turn to the ON position. Leave it ON for one second and then back to OFF.
4. The security light will light up for three seconds to indicate that the new key has been successfully programmed.

Toyota & Lexus

The Toyota Electronic Control Module does not have programming modes without a pre-programmed key. If there is no key available that is already programmed into the module, the module must be replaced.

To delete all but one key from the unit
1. Simultaneously depress and release brake and accelerator pedals 1 time.
2. Insert existing master key into ignition. Do not turn the key from the OFF (LOCK) position.
3. Within 15 seconds of inserting the key, depress and release the accelerator pedal six times.
4. Within 10 seconds of completing the above step, depress and release the brake pedal seven times.
5. The security light will flash, indication all keys other than the one being used have been deleted.
6. Remove the key from the ignition cylinder within ten seconds. It will be the only key still programmed to work.

Add Duplicate Key
1. Simultaneously depress and release brake and accelerator pedals 1 time.
2. Insert existing master key into ignition. Do not turn the key from the OFF (LOCK) position.
3. Within 15 seconds of inserting the key, depress and release the accelerator pedal five times.
4. Within 20 seconds of completing the above step, depress and release the brake pedal six times and remove the key.
5. Within 10 seconds, insert the new key into the ignition.
6. Within 10 seconds, depress and release the accelerator pedal one time.
7. After 80 seconds the new key is registered and the security light will go off.
8. Remove new key and depress and release the brake pedal 1 time.

On-Board Programming

Originate New Master Key
1. This Requires that vehicle to be connected to special dealer diagnostic equipment.

Add Duplicate Key *(Requires two existing keys)*
1. Insert one of the two existing keys into the ignition lock and turn to the ON (Run) position.
2. After the key has been in the ON position for at least five seconds but not more than 15 seconds turn the lock back to OFF.
3. Remove the key and insert the second existing key and turn to the ON position within 15 seconds.
4. A theft alarm light should illuminate after ten seconds and a single chime sound will indicate entry into the "Customer Programming Mode."
5. Turn the key to the OFF position within 60 seconds and remove the valid key.
6. Insert a new key and turn it to the ON position.
7. After approximately ten seconds, a single chime will sound and the theft alarm light will stop. Wait five seconds and turn the key to the OFF position.
8. The above steps must be repeated for additional keys.

Chrysler, Dodge & Jeep

RW-2

The RW-2 is a multifunctional tool that can read the electronic code and duplicate that code onto another key. If the code is known, it can be entered into the keyboard and transferred onto the replacement key. The mechanical cuts of the key can be made on a standard Hillman key machine. Plus, the vehicle does not have to be present to generate a new key.

TD3A

This is a simple reader that allows you to detect if a key has a transponder chip in the head of the key. Many Transponder keys look identical to traditional rubber head keys therefore it may be difficult to see any visible difference between them. Without this detector you could make the mistake of creating a key that works mechanically but will not start the car. Using the TD3A will help prevent loss of customer goodwill and a key blank.