

Immobilizer Cross Reference

Model	Year	Immobilizer Type	DEI Interface	Programming Method	Alternative DEI Interface
ACURA					
<u>CL</u>	1998-99		555U		
	2001-02		555H		555U
	2003				
DN-X	2001		555U		
EL	2000-01		555H		555U
<u>MDX Truck</u>	2001-02		555H		555U
<u>NSX</u>	1997-01		555U		
<u>RD-X</u>	2003		555U		
<u>RL</u>	1997-02		555U		
<u>RSX</u>	2002		555I		555U
<u>TL</u>	1999-02		555H		555U
AUDI					
A4	2000-01		555U		
A6	2000-01		555U		
A8	2000-01		555U		
Allroad	2001-02		555U		
Quattro	2002		555U		
S4	2002		555U		
S6	2002		555U		
S8	2002		555U		
TT	2000-01		555U		
BMW					
All Models	1995-01	EWS	See DEI doc. 1060		555B
BUICK					
Century	1993-02	VATS	See DEI doc. 1049		
Lesabre	1992	VATS	See DEI doc. 1049		
	1993-99	VATS	See DEI doc. 1049		
	2000-02	Passkey 3	555U	A	
Park Avenue	1991-92	VATS	See DEI doc. 1049		
	1993-95	VATS	See DEI doc. 1049		
	1997-02	Passkey 3	555U	A	
	1990-91	VATS	See DEI doc. 1049		
Regal	1993-02	VATS	See DEI doc. 1049		
Rendezvous	2001-02	Passkey 3	555U	A	
Riviera	1990-93	VATS	See DEI doc. 1049		
	1994-99	VATS	See DEI doc. 1049		
Roadmaster	1993-96	VATS	See DEI doc. 1049		
Skyllark	1996-98	Paslock	555L		
CADILLAC					

Immobilizer Cross Reference

Brougham	1993		VATS	See DEI doc. 1049			
Catera	1997-98		Passkey 3	555U		RW2	
Concours	1998-01		Passkey 3	555U			
	1995		VATS	See DEI doc. 1049			
	1996-98		VATS	See DEI doc. 1049			
	2002-03		Passkey 3	555U			
CTS	1990-92, 1994-95		VATS	See DEI doc. 1049			
De Ville	1993, 1996-98		VATS	See DEI doc. 1049			
	2000-01		Passkey 3	555U		A	
	2002-03		Passkey 3	555U			
	1990-95		VATS	See DEI doc. 1049			
Eldorado	1996-98		VATS	See DEI doc. 1049			
	2001-02		VATS	See DEI doc. 1049			
	1999-02		Passlock 2	555L			
Escalade	2002		Passlock 2	555L			
Escalade EXT	2003						
	1990-92		VATS	See DEI doc. 1049			
Fleetwood	1993-96		VATS	See DEI doc. 1049			
	1990-95		VATS	See DEI doc. 1049			
	1996-97		VATS	See DEI doc. 1049			
	1998-02		Passkey 3	555U		A	
XLR	2003						
CHEVROLET							
Astro	1998-02		Passlock 2	555L		A	
Avalanche	2001-02		Passlock 2	555L		A	
Blazer	1998-02		Passlock 2	555L		A	
Camaro	1986-02		VATS	See DEI doc. 1049			
Caprice	1993-96		VATS	See DEI doc. 1049			
Cavalier	1995-96		Passlock	555L		A	
	2000-02		Passlock 2	555L		A	
Colorado	2003						
Corvette	1984-02		VATS	See DEI doc. 1049			
Express Van	1998-02		Passlock 2	555L		A	
Full Size Pick Up	1998		Passlock 2	555L		A	
New Body Pick Up	1999-03		Passlock 2	555L		A	
Impala SS	1994-99		VATS	See DEI doc. 1049			
	2000-02		Passlock 2	555L		A	
Limina	1993-00		VATS	See DEI doc. 1049			
Malibu	1997-02		Passlock 2	555L		A	
Monte Carlo	1995-99		VATS	See DEI doc. 1049			
	2000-02		Passlock 2	555L		A	
Prizm	2002						
S-10 Pick Up	1998-02		Passlock 2	555L		A	

Immobilizer Cross Reference

Suburban	1998-02		Passlock 2	555L	A		
Tahoe	1998-02		Passlock 2	555L	A		
Tracker	2002						
Trailblazer	2001-02		Passlock 2	555L	A		
Venture	1999-02		Passkey 3	555L	A		
CHRYSLER**							
300M	1998-02		Immobilizer	555C	F	555U	
Cirrus	1999-00		Immobilizer	555C	F	555U	
Concorde	1998-02		Immobilizer	555C	F	555U	
Concorde Lxi	2000-02		Immobilizer	555C	F	555U	
LHS	1998-01		Immobilizer	555C	F	555U	
Neon	2001		Immobilizer	555C	F	555U	
New Yorker	1998-01		Immobilizer	555C	F	555U	
Pacifica	2003						
Prowler	2002		Immobilizer	555C	F	555U	
PT Cruiser	2001-02		Immobilizer	555C	F	555U	
Sebring Sedan	1998-02		Immobilizer	555C	F	555U	
Sebring Coupe	2001		Immobilizer	555U	F		
Sebring JX	1998-01		Immobilizer	555C	F	555U	
Sebring Jxi Conv.	2000-02		Immobilizer	555C	F	555U	
Sebring LTD Conv.	2001-02		Immobilizer	555C	F	555U	
Sebring LXI Conv.	2001-02		Immobilizer	555C	F	555U	
Town & Country	2001-02		Immobilizer	555C	F	555U	
Voyager	2001-02		Immobilizer	555C	F	555U	
DAEWOO							
Lanos	2001						
Leganza	2001						
Nubira	2001						
DODGE**							
Caravan	2001-02		Immobilizer	555C	F	555U	
Dakota	2001-02		Immobilizer	555C	F	555U	
Durango	2001-02		Immobilizer	555C	F	555U	
Intrepid	1998-02		Immobilizer	555C	F	555U	
Neon	2000-02		Immobilizer	555C	F	555U	
Pt Cruiser	2001-02		Immobilizer	555C	F	555U	
Ram Pick Up	2001-02		Immobilizer	555C	F	555U	
Stratus Sedan	2001-02		Immobilizer	555C	F	555U	
Stratus Coupe	2001-02		Immobilizer	555U	F		
Viper	2002						
EAGLE							
Vision	1998						
FORD*							
Contour	1998		PATS	555F	B	555U	

Immobilizer Cross Reference

		1999-00	PATS	555F	C	555U	
Crown Victoria		1998-01	PATS	555F	C	555U	
		2002	SECURILOCK	555F		555U	
Escape		2001-02	SECURILOCK	555S	C	555U	
Escort		2002					
E-Series		2002	PATS	555F		555U	
Excursion		2000-02	PATS	555F	C	555U	
		2003	SECURILOCK	555U			
Expedition		1997	PATS	555F	B	555U	
		1998-02	SECURILOCK	555F	C	555U	
Explorer		1996-00	PATS	555F	C	555U	
		2001-02	SECURILOCK	555U			
Five Hundred		2004					
Focus		2000-02	SECURILOCK	555S	C	555U	
F-Series		1999-02	PATS	555F	C	555U	
Heavy Trucks		2000-02	PATS	555F	C	555U	
KA		2003					
Mustang		1996-97	PATS	555F	B	555U	
		1998-02	PATS	555F	C	555U	
Ranger		1999-00	PATS	555F	C	555U	
		2001-02	SECURILOCK	555U			
Sport-Trac		2001-02	SECURILOCK	555U			
Taurus		1996-97	PATS	555F	B	555U	
		1998-99	PATS	555F	C	555U	
		2000-02	SECURILOCK	555U			
Thunderbird		1997	PATS	555F			
		2002	SECURILOCK	555U			
Windstar		1998-00	PATS	555F	C		
		2001-02	SECURILOCK	555U			
ZX2		2002					
GMC							
Denali		1999-01	Passlock 2	555L			
Envoy, XL		1999-02	Passlock 2	555L			
Full Size Pick Up		1998-03	Passlock 2	555L			
New Body Pick Up		1999-01	Passlock 2	555L			
Jimmy		1998-01	Passlock 2	555L			
Safari		1998-02	Passlock 2	555L			
Sonoma		1998-02	Passlock 2	555L			
Savanna Van		1998-02	Passlock 2	555L			
Suburban		1998-02	Passlock 2	555L			
Yukon		1998-02	Passlock 2	555L			
Yukon LX		2000-02	Passlock 2	555L			
HONDA							

Immobilizer Cross Reference

Accord	1998		Immobilizer	555U			
	1999-02		Immobilizer	555H		555U	
Civic	2001-02		Immobilizer	555I		555U	
CR-V	2002						
Element	2003						
EV Plus	2002						
Insight	2000-02		Immobilizer	555U			
Odyssey	1999-02		Immobilizer	555H		555U	
Passport	2002						
Pilot	2003						
Prelude	1997-01		Immobilizer	555U			
S2000	2000-02		Immobilizer	555U			
X	2003						
HYUNDAI							
Accent	2002						
Elantra	2002		Immobilizer	555U			
Santa Fe	2002						
Sonata	2002						
Tiburon	2003		Immobilizer	555U			
XG300	2001		Immobilizer	555U			
XG350	2002		Immobilizer	555U			
INFINITI							
FX45	2003						
G20	1999-02		Immobilizer	555U			
G35	2002		Immobilizer	555U			
I30	1999-01		Immobilizer	555U			
I35	2002		Immobilizer	555U			
M45	2003						
Q45	1997-02		Immobilizer	555U			
QX4	1999-02		Immobilizer	555U			
ISUZU							
Ascender							
Axiom	2002						
Hombre	1998-01		Passlock 2	555L			
Rodeo	2002						
Rodeo Sport	2002						
Trooper	2002						
VehiCross	2002						
JAGUAR							
XJ/XK/S-TYPE	2000-02		Immobilizer	555U			
	1998-99		Immobilizer	555U			
JEEP**							
Cherokee	1998-01		Immobilizer	555U	F	555U	

Immobilizer Cross Reference

Grand Cherokee	1998-02		Immobilizer	555U	F	555U	
Liberty	2002		Immobilizer	555U	F	555U	
TJ	2002				F		
Wrangler	1998-02		Immobilizer	555U	F	555U	
LAND ROVER							
Discovery 2	2002		Immobilizer	555U			
Freelander	2002		Immobilizer				
Range Rover	1995-02		Immobilizer	555U			
LEXUS							
ES-300	1998-01		Immobilizer	555U	E		
	2002		Immobilizer	555F		555U	
GS-300	1998-02		Immobilizer	555U	E		
GS-400	1998-00		Immobilizer	555U	E		
GS-430	2001-02		Immobilizer	555U	E		
IS-300	2001-02		Immobilizer	555U	E		
LS-400	1997-00		Immobilizer	555U	E		
LS-430	2001-02		Immobilizer	555U	E		
LX-450	1996-97		Immobilizer	555U	E		
LX-470	1998-02		Immobilizer	555U	E		
RX-300	1999-02		Immobilizer	555U	E		
SC-300	1998-00		Immobilizer	555U	E		
SC-400	1998-00		Immobilizer	555U	E		
SC-430	2002		Immobilizer	555U	E		
LINCOLN*							
Aviator							
Blackwood	2001-02		SECURILOCK	555U	C		
Continental	1998-02		PATS	555F	C	555U	
LS	1999-02		SECURILOCK	555S	C	555U	
Mark Series	1997-98		Immobilizer	555U			
Navigator	1998-99		PATS	555F	C	555U	
	2000-02		SECURILOCK	555U	C		
Town Car	1998-02		PATS	555F	C	555U	
MAZDA							
626	1998-99		Immobilizer	See DEI doc. 1061			
	2000-02		Immobilizer	See DEI doc. 1061			
Trucks	1999-00		PATS	555F	C	555U	
	2001-02		Immobilizer	555U			
Miata	2001-02		Immobilizer	555U			
Millenia	1998-02		Immobilizer	555U			
MP3				See DEI doc. 1061			
MPV Van	2000-02		Immobilizer	See DEI doc. 1061			
MX5 Miata	2002						
Protégé							

Immobilizer Cross Reference

Protégé 5									
Tribute	2001-02		SECURILOCK	555S		C		555U	
MERCEDES BENZ									
C Class	1997-02		w/Smart key	N/A					
	1997-02		w.o. /Smart key	555U					
CL Class	1998-01		w/Smart key	N/A					
	1998-01		w.o. /Smart key	555U					
CLK Class	1998-01		w/Smart Key	N/A					
	1998-01		w.o. /Smart key	555U					
E Class	1997-01		w/Smart Key	N/A					
	1997-01		w.o. /Smart key	555U					
G Class	2002								
M Class	1998-01		Immobilizer	555U				555U	
S Class	1997-99		Immobilizer	555U				555U	
	2000-01		w/Smart key	N/A					
SL Class	1997-01								
SL55 AMG	2003								
SLK Class	1998-01		Immobilizer	555U					
MERCURY*									
Contour	1997, 1999-01		PATS	555F		C		555U	
Cougar	1999-02		PATS	555F		C		555U	
Grand Marquis	1998-02		PATS	555F		C		555U	
Marauder	2002								
Mountaineer	1998-00		PATS	555F		C		555U	
	2001-02			555U					
Mystique	1998		PATS	555F		B		555U	
Mystique	1999-00		PATS	555F		C		555U	
Sable LS	1996-97		PATS	555F		B		555U	
Sable LS	1998-99		PATS	555F		C		555U	
Sable GS	1999		PATS	555F		C		555U	
Sable GS/LS	2000-02		SECURILOCK	555U					
Villager									
MITSUBISHI***									
Diamante	2000-02			555U					
Eclipse	2000-02		Immobilizer	555U					
Eclipse Spider	2002			555U					
Galant	2000-02		Immobilizer	555U					
Lancer	2002								
Lancer Evolution	2003								
Mirage	2002								
Montero	2000-02		Immobilizer	555U					
Montero Sport	2000-02		Immobilizer	555U					
Outlander	2003								

Immobilizer Cross Reference

NISSAN						
350Z	2002			555U		
Altima	2000-02	Immobilizer		555U		
Frontier	2002					
Maxima	1999	Immobilizer		555U		
	2000-02	Immobilizer		555U		
Murano	2003					
Pathfinder	1999-02	Immobilizer		555U		
Quest	2002					
Sentra	2000-02	Immobilizer		555U		
Skyline GT-R	2004					
Xterra	2000-02	Immobilizer		555U		
OLDSMOBILE						
Achieva	1996-98	Passlock		555L		
Alero	1999-02	Passlock 2		555L		
Aurora	1995-00	VATS		See DEI doc. 1049		
	2001-02	Passkey 3		555U	A	
Bravada	1998-02	Passlock 2		555L		
Cutlass	1997-99	Passlock 2		555L		
Cutlass Supreme	1994-97	VATS		See DEI doc. 1049		
Eighty-Eight	1991-92	VATS		See DEI doc. 1049		
	1993-98	VATS		See DEI doc. 1049		
Intrigue	1998-02	Passlock 2		555L		
Ninty-Eight	1992	VATS		See DEI doc. 1049		
	1993-96	VATS		See DEI doc. 1049		
Silhouette	1999-02	Passkey 3		555U	A	
Toronado	1990-92	VATS		See DEI doc. 1049		
Touring Sedan	1991	VATS		See DEI doc. 1049		
Trofeo	1990-92	VATS		See DEI doc. 1049		
PLYMOUTH**						
Breeze	2000	Immobilizer		555C	F	555U
Neon	2000-01	Immobilizer		555C	F	555U
Prowler	2000	Immobilizer		555C	F	555U
PONTIAC						
Aztek	2001-02	Passkey 3		555U	A	
Bonneville	1992	Passkey		See DEI doc. 1049		
	1993-98	Passkey 2		See DEI doc. 1049		
	2000-02	Passkey 3		555U	A	
Firebird	1986-02	Passkey		See DEI doc. 1049		
Grand Am	1996-98	Passlock		555L		
	1999-02	Passlock 2		555L		
Grand Prix	1991-97	Passkey		See DEI doc. 1049		
	2000-02	Passkey 3		555U	A	

Immobilizer Cross Reference

Montana	1999-03		Passkey 3	555U	A		
Sunfire	1995-99		Passlock	555L	A		
	2000-02		Passlock 2	555L	A		
Transport	1999-00		Passkey 3	555U	A		
Vibe	2002						
PORSHE							
Boxter	1997-01		Immobilizer	555U			
Carrera GT	2003						
911	1999-01		Immobilizer	555U			
SAAB							
9-3	1999-01						
9-5	1999-01						
SATURN							
Ion	2003						
L Series	2000-02		Passlock 2	555L			
S Series	2000-02		Passlock 2	555L			
Vue	2002			555L			
SUBARU							
Forester	2002						
Impreza	2002						
Impreza WRX	2002						
Legacy	2002						
Outback	2002						
SUZUKI							
Aeio	2002						
Esteem	2002						
Grand Vitara	2002						
SX	2002						
Vitara	2002						
XL-7	2002						
TOYOTA***							
4 Runner	1998-02		Immobilizer	555F	E	555U	
Avalon	1998-02		Immobilizer	555F	E	555U	
Camry	1998-02		Immobilizer	555F	E	555U	
Celica Coupe	2000-01		Immobilizer		E		
Corolla	2002						
Echo	2002						
Highlander	2001-02		Immobilizer	555F	E	555U	
Landcruiser	1998-02		Immobilizer	555F	E	555U	
Matrix	2002						
MR2	2000-02		Immobilizer	555F	E	555U	
Prius	2001-02		Immobilizer		E		
Rav4	2001-02		Immobilizer	555F	E	555U	

Immobilizer Cross Reference

Scion	2003						
Sequoia	2001-02	Immobilizer	555F	E	555U		
Sienna	1999-02	Immobilizer	555F	E	555U		
Solara	1999-02	Immobilizer	555F	E	555U		
RSC	2002						
Tacoma	2002						
Tundra	2002						
VOLKSWAGEN							
Beetle	1999-02	Immobilizer	555U				
Cabrio	2002						
Cabriolet	2000	Immobilizer	Call DEI Tech				
Eurovan	2001-02	Immobilizer	555U				
Golf	200-01	Immobilizer	555U				
GTI	2002						
Jetta	2000-01	Immobilizer	Call DEI Tech				
Passat	1999-02	Immobilizer	555U				
VOLVO							
C70	1998-01	Immobilizer	555U				
S40	2000-02	Immobilizer	555U				
S60	2001-02	Immobilizer	555U				
S70	1998-00	Immobilizer	555U				
S80	1999-02	Immobilizer	555U				
S90	1997-98	Immobilizer	555U				
V40	2000-02	Immobilizer	555U				
V70	1998-02	Immobilizer	555U				
V90	1997-98	Immobilizer	555U				
XC	2002						

NOTES: * All 98 and newer cars with PATS will need two valid keys to learn the 555F

** The cars with the immobilizers all have gray key heads on the key

*** Not all cars have the immobilizer

Vehicles in shaded area need further research.

NOTE: The above reference material is being provided free of charge on a "as is" basis, without any representation or guarantee. It is your responsibility to verify any circuit before interfacing with it, using a digital multi-meter. Directed Electronics, Inc. assumes no liability and accepts no responsibility with regards to the accuracy or currency of the above information. Proper installation in every case is and remains the responsibility of the installer, and DEI assumes no liability or responsibility resulting from an improper installation, even in reliance upon this information.

Immobilizer Cross Reference

Programming Methods

When no other working key for the car is available

Type A

1. Put the newly cut Master key into the keyway and turn it to the ON (RUN) position. A "security" indicator light on the dashboard will stay on for 10 minutes.
2. Within 1 minute after the indicator light goes off, turn the ignition to "OFF", then return to the ON (RUN) position. The indicator light again will stay on for 10 minutes (Do not remove the key.)
3. Again, within 1 minute after the indicator light goes off, turn the ignition to "OFF", then return to the ON (RUN) position. The indicator light again will stay on for 10 minutes. (Do not remove the key.)
4. When the light goes off the third time, the new key is programmed into the computer and will start the car. Remove the key and then re-insert it into the ignition lock and start the car.

All previously stored codes will be erased. To stop the process at any time, simply remove the key and use an existing key to start the car.

For Cars where you want to just create a spare key:

1. Place an already programmed key in the keyway.
2. Cycle the ignition from OFF to ON (RUN) to OFF.
3. Within 15 seconds, insert the new, properly cut Transponder key in the ignition. Turn the key to ON (RUN) or START. The "security" indicator light will go on and off. Turn the key "OFF".
4. The car will now start the car.
5. Repeat the second step for each new key to be programmed.

Type B

To originate a new key

1. Insert new key into ignition cylinder and turn it to the ON (RUN) position. The "security" light on the dashboard 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 the OFF then back to the ON position. The security light on the dash will flash for 15 more minutes.
3. When the 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.

Immobilizer Cross Reference

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 15 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.

Type C

Originate New Master Key

1. This requires that the vehicle be connected to special dealer equipment. There are two ten minute delays involve 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.

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 accelerator 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.

Type E

Immobilizer Cross Reference

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.

Originate New Master Key

Type F

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 the 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.