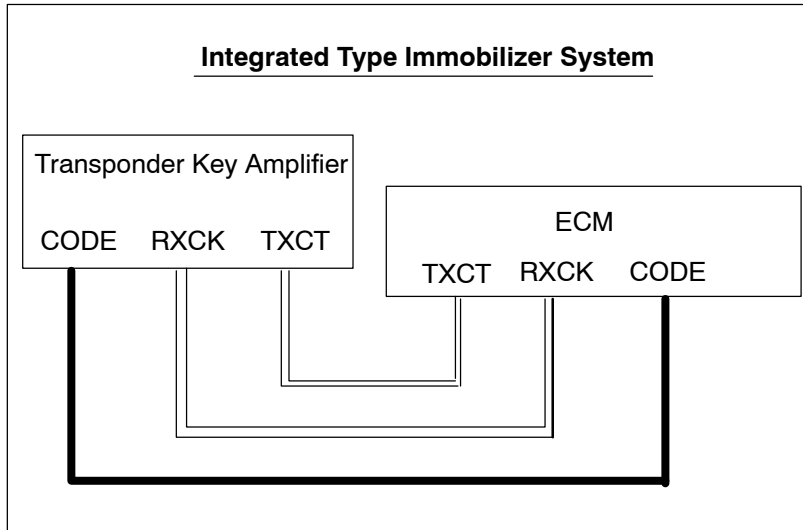
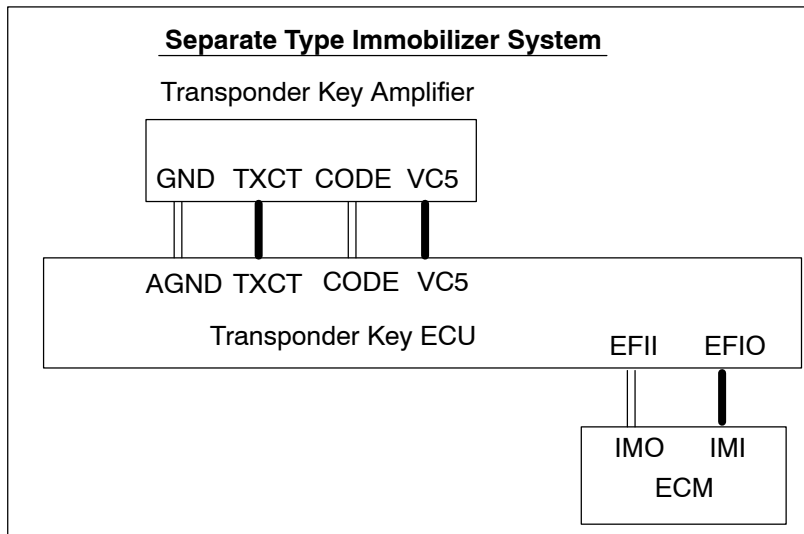


1. IMMOBILIZER SYSTEM

Immobilizer systems fitted into TOYOTA vehicles produced after August, 1998 (except Corolla WZE 110) can be divided into 2 different types.



For an integrated type immobilizer system, the transponder key ECU is integrated into the ECM. Direct communication exists between the key coil amplifier and ECM.



For a separate type immobilizer system, a separate transponder key ECU (often called an immobilizer ECU)* is between the key coil amplifier and ECM. The ECM receives permission or prohibition signals through the EFII and EFIO terminal.

For details about different models, please refer to the table described in "KEY CODE REGISTRATION TABLE" on page 4.

2. TRANSPONDER KEY CODE REGISTRATION FUNCTIONS

The transponder key code registration function consists of an initial (automatic) registration, additional registration, and deletion.

The master key registered in the ECU is used to perform additional registration and deletion.

(a) Initial registration of key code

This is a system to automatically register a new transponder key code (master key code and sub-key code) when the ECU is replaced.

After the ECU is replaced, turning the ignition switch ON makes the security indicator lamp blink. In this condition, inserting the master key and sub-key in the ignition key cylinder automatically registers the transponder key code in the ECU.

HINT:

In the initial (automatic) registration mode, the transponder key code can be registered for up to 3 or 4 keys. The last registration (the third or fourth key) is performed at the sub-key registration mode.

After the initial registration, on some models it may take approximately 30 minutes to match the communication ID between the transponder key ECU and the ECM.

(b) Registration of additional key code

This is a function to perform the additional registration of a new transponder key code (master key code and sub-key code) with the transponder key code registered in the ECU.

HINT:

Additional registration can also be performed using a hand-held tester.

The number of transponder key codes that can be registered in the immobilizer system varies depending on the system type.

(c) Erasure of key code

This is a function to erase all transponder key codes except for the master key code that is used to complete the erasure. Without the master key, the erasure is impossible.

(d) The difference between master key and sub-key

2 or 3 master keys and a sub-key are set in the ignition keys for the engine immobilizer system. Registration and erasure of the key can be performed only by the master key. Therefore, to register the sub-key, the master key is necessary. The setting of the master key and sub-key is also classified according to the registration methods.

3. KEY CODE REGISTRATION TABLE

No.	Model Name	Model Code	Production period	System type (ECU)	Automatic registration	Additional master key codes	Additional sub-key codes	Key code erasure	Registration communication ID	# of key codes (master / sub)
1	Avensis MMC	ZZT22#	2000/06 - 2002/12	Integrated	A-1	M-1	S-1	E-1	Not needed	7 / 3
2	Avensis MMC	AZT220	2000/06 - 2002/12	Integrated	A-1	M-1	S-1	E-1	Not needed	7 / 3
3	Avensis MMC D4D	CDT220	2000/06 - 2002/12	Separate	A-1	M-3	S-3	E-2	ID-1	4 / 2
4	Avensis T250	ZZT25#, AZT250 CDT250	2003/01 -	Separate	A-1	MS-1		E-1	ID-1	5 / 3
5	Avensis T250	AZT251	2003/09 -	Separate	A-1	MS-1		E-1	ID-1	5 / 4
6	Avensis T250	CDT250 W/D-CAT	2003/09 -	Separate	A-1	MS-1		E-1	ID-1	5 / 3
7	Avensis Verso	ACM20	2001/05 -	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
8	Avensis Verso	CLM20	2001/05 -	Separate	A-1	M-3	S-3	E-2	ID-1	5 / 3
9	Avensis Verso	ACM21	2003/10 -	Separate	A-1	M-3	S-3	E-2	ID-1	5 / 3
10	Corolla TMUK	ZZE11#	1999/12 - 2001/10	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
11	Corolla TMUK	ZZE12#	2001/11 -	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
12	Corolla TMUK	CDE120	2001/11 -	Separate	A-1	M-3	S-3	E-2	ID-1	4 / 2
13	Corolla TMUK	CDE120 HP3 inj.	2003/04 -	Separate	A-1	M-3	S-3	E-2	ID-1	4 / 2
14	Corolla TMC	ZZE12#	2001/10 -	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
15	Corolla TMC	CDE120	2001/10 -	Separate	A-1	M-3	S-3	E-2	ID-1	4 / 2
16	Corolla TMMT	ZZE12#	2002/01 -	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
17	Corolla TMMT	CDE120	2002/01 -	Separate	A-1	M-3	S-3	E-2	ID-1	4 / 2
18	Corolla Verso	ZZE12#	2001/09 -	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
19	Corolla Verso	CDE120	2001/09 -	Separate	A-1	M-3	S-3	E-2	ID-1	4 / 2
20	Celica	ZZT23#	1999/08 -	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
21	Camry	ACV31, MCY30	2001/08 -	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
22	Hiace	RCH1# 2#	2001/08 -	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
23	Hiace	KLH1# 2#	2001/08 -	Separate	A-1	M-3	S-3	E-2	Not needed	4 / 2
24	Hilux	LN14# 15#, 16#, 17#	1999/07 - 2002/08	Separate	A-1	M-3	S-3	E-2	Not needed	4 / 2
25	Hilux	RZN14#, 15#, 16#, 17#	1999/07 - 2002/08	Separate	A-1	M-3	S-3	E-2	Not needed	4 / 2
26	Hilux	KDN145, 150, 165, 170, 190	2001/08 -	Separate	A-1	MS-4		E-2	Not needed	4 / 2

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No.	Model Name	Model Code	Production period	System type (ECU)	Automatic registration	Additional master key codes	Additional sub-key codes	Key code erasure	Registration communication ID	# of key codes (master / sub)
27	Land Cruiser 100	UZJ100	1998/01 - 2003/08	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
28	Land Cruiser 100	UZJ100	2003/08 -	Separate	A-1	MS-1		E-1	Not needed	4 / 2
29	Land Cruiser 100	HDJ100	1998/01 -	Separate	A-1	M-3	S-3	E-2	Not needed	4 / 2
30	Land Cruiser 90	VZJ9#	1999/06 - 2002/08	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
31	Land Cruiser 90	KZJ9#	1999/06 - 2000/08	Separate	A-1	M-3	S-3	E-2	Not needed	4 / 2
32	Land Cruiser 90	KDJ9#	2000/08 - 2002/09	Separate	A-1	M-3	S-3	E-2	Not needed	4 / 2
33	Land Cruiser 120	GRJ12#,KDJ12#	2002/09 -	Separate	A-1	MS-1		E-1	ID-1	5 / 3
34	MR2	ZZW30	1999/12 -	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
35	Previa	ACR30	2000/02 - 2003/03	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
36	Previa	CLR30	2001/02 - 2003/03	Separate	A-1	M-3	S-3	E-2	ID-1	4 / 2
37	Previa MMC	ACR30,CLR30	2003/04 -	Separate	A-1	MS-1		E-1	ID-1	4 / 2
38	Prius	NHW11	2000/05 - 2003/06	Separate	A-1	M-3	S-3	E-2	ID-1	4 / 2
39	Prius	NHW20(W/O SMART)	2003/08 -	Separate	A-1	MS-2		E-3	ID-2	5 / 0
40	Prius	NHW20(W/ SMART)	2003/08 -	Separate	A-1	MS-2		E-3	ID-3	5 / 0
41	RAV4	ACA2#,ZCA2#	2000/05 - 2003/07	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
42	RAV4	CLA20,21	2001/05 - 2003/07	Separate	A-1	M-3	S-3	E-2	ID-1	4 / 2
43	RAV4 MMC	ACA2#	2003/08 -	Separate	A-1	MS-1		E-1	ID-1	4 / 2
44	RAV4 MMC	ZCA2#	2003/08 -	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
45	RAV4 MMC	CLA2#	2003/08 -	Separate	A-1	MS-1		E-1	ID-1	4 / 2
46	Yaris TMC	SCP10	1999/01 - 2002/12	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
47	Yaris TMC	NCP1#	1999/08 - 2003/02	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
48	Yaris TMC	NLP10,2#	2001/01 - 2003/02	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
49	Yaris TMMF	SCP10,20	2001/01 - 2003/02	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
50	Yaris Verso	NLP2#	1999/08 - 2003/02	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3
51	Yaris Verso	NCP2#	1999/08 - 2003/02	Integrated	A-1	M-2	S-2	E-1	Not needed	7 / 3

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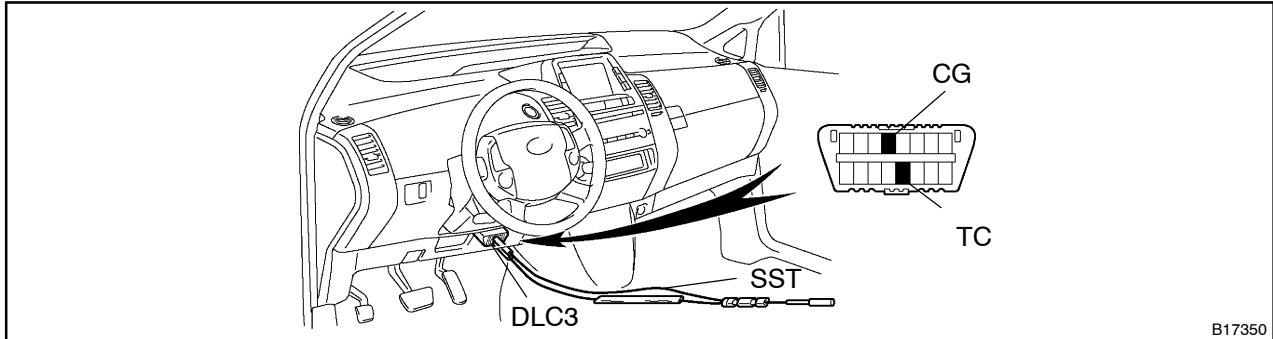
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7. ECU COMMUNICATION ID REGISTRATION

ID-1

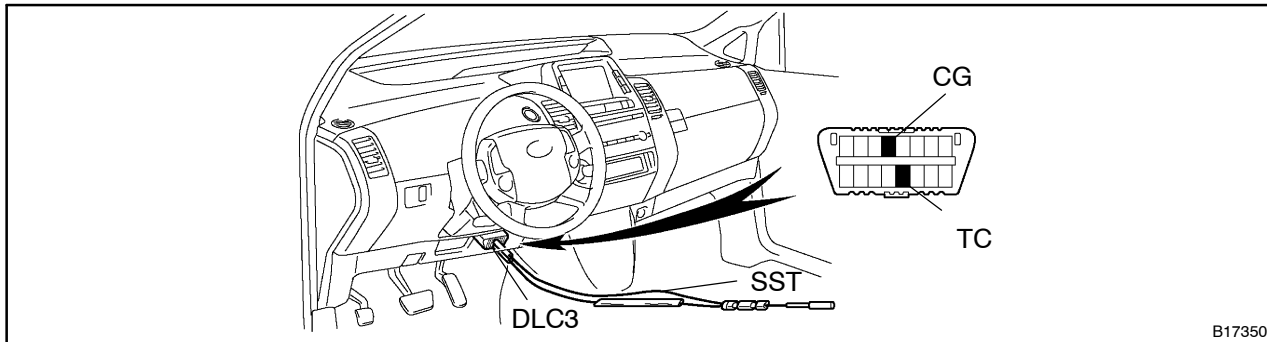
- (1) Register the ECU communication ID.



- Using SST, connect terminals TC and CG of the DLC3.
- SST 09843-18040
- Turn the power switch ON (IG) (do not start the engine) and leave it as is for 30 minutes.
 - Turn the power switch OFF and disconnect terminals TC and CG.
 - Check that the hybrid vehicle control system starts.

ID-2

- (1) Register the ECU communication ID.



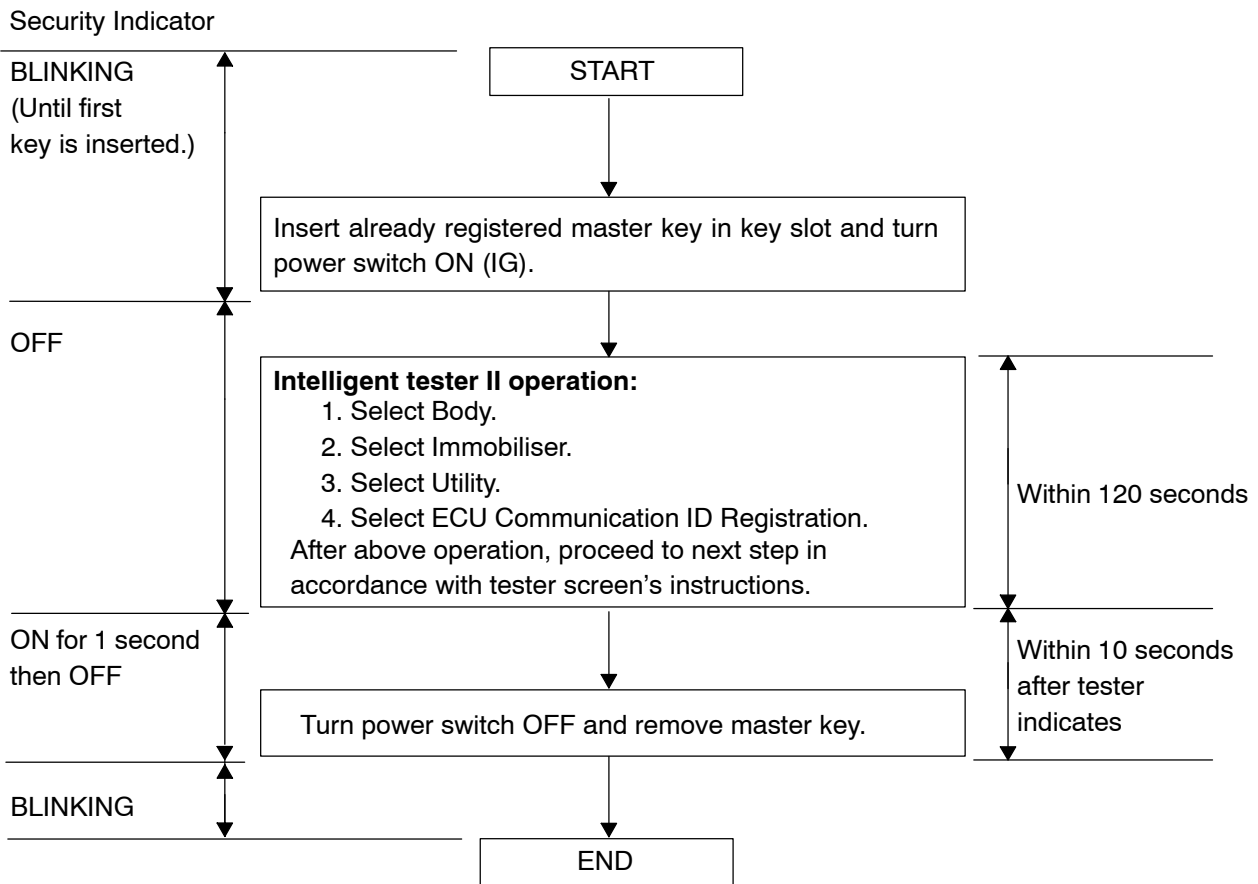
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- Using SST, connect terminals TC and CG of the DLC3.

SST 09843-18040

- Turn the power switch ON (IG) (do not start the engine) and leave it as is for 30 minutes.
- Turn the power switch OFF and disconnect terminals TC and CG.
- Check that the hybrid vehicle control system starts.

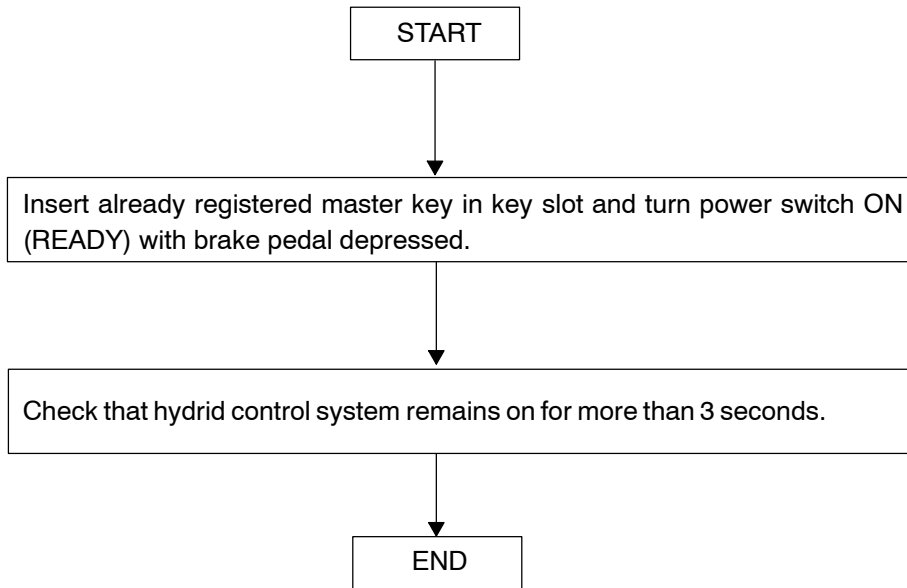
(2) ECU Communication ID Registration



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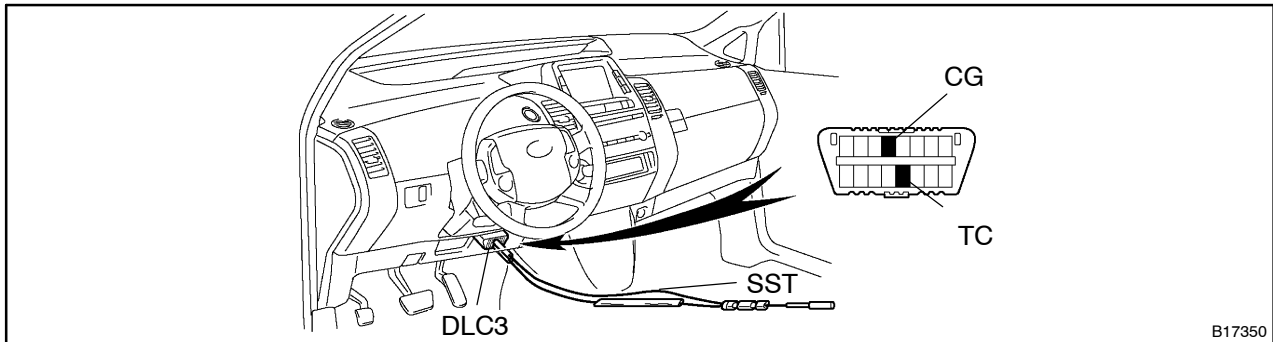
- A brief outline of procedures for key code registration is shown on this page. For more detailed information, please refer to the intelligent tester II screen's instructions.
- When the immobilizer system is operating normally and the key is pulled out, the security indicator blinks continuously.

(3) ECU Communication ID Registration



ID-3

- (1) Register the ECU communication ID.



- Using SST, connect terminals TC and CG of the DLC3.
- SST 09843-18040
- Turn the power switch ON (IG) (do not start the engine) and leave it as is for 30 minutes.
 - Turn the power switch OFF and disconnect terminals TC and CG.
 - Check that the hybrid control system starts.

- (2) ECU Communication ID Registration

