

# SUZUKI



UNLOCKING  
TECHNOLOGY



**ADVANCED  
DIAGNOSTICS**



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# APPLICATIONS

## SUZUKI - ADS109

				1234		PRO 		AD100 
ALTO	ALL	✓	×	✓	✓	ADC151	D	ADC128
BALENO	ALL	✓	×	✓	✓	ADC151	D	ADC128
CARRY 1.3	ALL	✓	×	✓	✓	ADC151	D	ADC128
GRAND VITARA	ALL	✓	✎	✓	✓	ADC151	D	ADC128
XL7	ALL	✓	✎	✓	✓	ADC151	D	ADC128
IGNIS	ALL	✓	✎	✓	✓	ADC151	D	ADC128
JIMNY	ALL	✓	×	✓	✓	ADC151	D	ADC128
LIANA	ALL	✓	×	✓	✓	ADC151	D	ADC128
SAMURAI	ALL	✓	×	✓	✓	ADC151	D	ADC128
SWIFT	⇨2005	✓	×	✓	✓	ADC151	D	ADC128
VITARA	ALL	✓	✎	✓	✓	ADC151	D	ADC128
WAGON-R	ALL	✓	×	✓	✓	ADC151	A	ADC110-B
X-90	ALL	✓	×	✓	✓	ADC151	D	ADC128

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# A

## APPLICATIONS

### SUZUKI CAN/PROXIMITY - ADS162\*

								
SWIFT (CAN) ZC11S	2005⇒	✓	×	✓	✓	ADC151	A	×
SWIFT (PROX) ZC21S / ZC31S	2005⇒	✓	×	✓	✓	ADC151	A	×
TRACKER	2005⇒	✓	×	✓	✓	ADC151	A	×
AZTEK	2005⇒	✓	×	✓	✓	ADC151	A	×
SX4 (CAN)	2005⇒	✓	×	✓	✓	ADC151	A	×
SPLASH (CAN)	2005⇒	✓	×	✓	✓	ADC151	A	×

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\* PRO ONLY

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# DIAGNOSTIC SOCKET LOCATIONS

## SUZUKI



BALENO



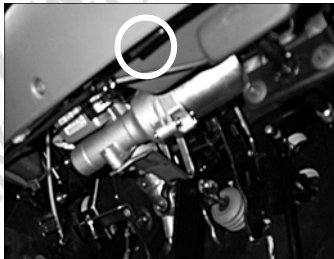
IGNIS



JIMNY



VITARA



Wagon R



SWIFT



ALTO



NEW SWIFT



CARRY



SX4



# SPECIAL FUNCTIONS

## SUZUKI (Non CAN)

### KEY PROGRAMMING

#### VEHICLE SELECTION

- + ALTO
- + BALENO
- + BALENO DHW
- + GRAND VITARA
- + GRAND VITARA XL-7
- + IGNIS

SWITCH IGNITION ON

PRESS ENTER KEY

#### ECU IDENTIFICATION

SUZUKI

PRESS ENTER KEY

#### DIAGNOSTIC MENU

- ECU IDENTIFICATION
- FAULT CODES
- > SPECIAL FUNCTIONS

PRESS ENTER KEY

#### DIAGNOSTIC MENU

- CLEAR KEYS
- PROGRAM KEYS
- > KEYS PROGRAMMED
- RESET

PRESS ENTER KEY

#### SECURITY ACCESS

ACCESS GAINED

#### KEYS PROGRAMMED

KEYS PROGRAMMED: 2

PRESS ENTER KEY

#### DIAGNOSTIC MENU

- > CLEAR KEYS
- PROGRAM KEYS
- KEYS PROGRAMMED
- RESET

PRESS ENTER KEY

CLEAR KEYS ONLY NEEDS TO BE PERFORMED IF YOU WANT TO DELETE ALL EXISTING KEYS.  
IF YOU ONLY WANT TO ADD A KEY THEN GO TO 'PROGRAM KEY' MENU SELECTION.

#### CLEAR KEYS

SWITCH IGNITION OFF

PRESS ENTER KEY

#### CLEAR KEYS

PLEASE WAIT  
ELAPSED TIME: 02

#### CLEAR KEYS

PROCEDURE COMPLETE  
SWITCH IGNITION OFF  
DISCONNECT TESTER  
FROM VEHICLE

#### IMPORTANT

WHEN INSTRUCTED ENSURE THE TESTER IS TURNED OFF AND DISCONNECTED FROM THE VEHICLE

EACH KEY NEEDS TO BE PROGRAMMED INDIVIDUALLY. THIS PROCEDURE NEEDS TO BE REPEATED FOR EACH KEY. AFTER ALL KEYS PROGRAMMED, SWITCH IGNITION OFF, DISCONNECT TESTER AND CYCLE ALL KEYS (DO NOT START ENGINE)

MAX 4 KEYS

#### DIAGNOSTIC MENU

- CLEAR KEYS
- PROGRAM KEYS
- > KEYS PROGRAMMED
- RESET

PRESS ENTER KEY

#### SECURITY ACCESS

ACCESS GAINED

#### PROGRAM KEYS

PLEASE WAIT  
02

#### PROGRAM KEYS

PROCEDURE COMPLETE  
SWITCH IGNITION OFF  
DISCONNECT TESTER  
FROM VEHICLE



# SPECIAL FUNCTIONS

## SUZUKI (Non CAN)

### RESET

ON CERTAIN VEHICLES IF THE BATTERY HAS BEEN DISCONNECTED OR GONE FLAT THE KEYS WILL NOT WORK or THE IMMO LIGHT IS FLASHING AFTER KEY PROGRAMMING THEN USE THE RESET FUNCTION.

### REMOTE PROGRAMMING

PROGRAMMING REMOTES IS A MANUAL PROCEDURE.  
PLEASE REFER TO REMOTE PROGRAMMING SECTION

**DIAGNOSTIC MENU**

CLEAR KEYS  
PROGRAM KEYS  
KEYS PROGRAMMED  
> RESET

PRESS ENTER KEY

RESET

DATE RECORDED

PRESS ENTER KEY

RESET

PROCEDURE COMPLETE

PRESS ENTER KEY



# SPECIAL FUNCTIONS

## SUZUKI CAN/PROX

### KEY PROGRAMMING

#### VEHICLE SELECTION

- + IGNIS
- + JIMNY
- + LIANA
- + SAMURAI
- + SWIFT**
- + VITARA

#### VEHICLE SELECTION

- > 2005
- 2005 >**
- 2008 PROXIMITY
- XL7

REMOVE MECHANICAL KEY FROM FOB.  
INSERT THE MECHANICAL KEY AND  
TURN ON WHEN INSTRUCTED.

SWITCH IGNITION ON

PRESS ENTER KEY

#### ECU IDENTIFICATION

SUZUKI SWIFT

PRESS ENTER KEY

#### DIAGNOSTIC MENU

- ECU IDENTIFICATION
- > SPECIAL FUNCTIONS**

PRESS ENTER KEY

#### DIAGNOSTIC MENU

- > KEYS STORED**
- PROGRAM KEYS

#### KEYS PROGRAMMED

KEYS STORED: 03

PRESS ENTER KEY

#### DIAGNOSTIC MENU

- KEYS STORED
- > PROGRAM KEYS**

#### CLEAR KEYS

ALL KEYS WILL  
BE CLEARED

CONTINUE

YES= ENTER NO=BACK

#### PROGRAM KEYS

PLEASE ENSURE  
IGNITION ON  
WITH VALID KEY

PRESS ENTER KEY

#### PROGRAM KEYS

CLEAR KEYS  
SUCCESS

PRESS ENTER KEY

ENTER MONTH

--

1	2	3	4	5
6	7	8	9	0

#### WEB SECURITY

08



ENTER YEAR

--

1	2	3	4	5
6	7	8	9	0

#### WEB SECURITY

2008



#### PROGRAM KEYS

PLEASE WAIT  
02

#### PROGRAM KEYS

PLEASE WAIT  
10





# SPECIAL FUNCTIONS

## SUZUKI CAN/PROX

### KEY PROGRAMMING

**PROGRAM KEYS**  
 KEY PROGRAMMED  
 PROGRAM  
 NEXT KEY  
 YES= ENTER NO=BACK  
 PRESS ENTER KEY

REPEAT THE PROCEDURE FOR PROGRAMMING MORE KEYS.  
 REMOVE KEY FROM IGNITION.  
 INSERT THE NEXT MECHANICAL KEY AND TURN ON WHEN INSTRUCTED.  
 MAX 4 KEYS

**PROGRAM KEYS**  
 KEY PROGRAMMED  
 PROGRAM  
 NEXT KEY  
 YES= ENTER NO=BACK  
 PRESS ENTER KEY

### REMOTE PROGRAMMING

PROGRAMMING REMOTES IS A MANUAL PROCEDURE.  
 PLEASE REFER TO REMOTE PROGRAMMING SECTION

**PROGRAM KEYS**  
 TURN IGNITION ON  
 WITH NEXT KEY  
 AND PRESS ENTER

**PROGRAM KEYS**  
 PLEASE WAIT  
 02

**PROGRAM KEYS**  
 PLEASE WAIT  
 10

PLEASE WAIT  
 TRYING TO COMMUNICATE



# TIPS & HINTS

## SUZUKI (NON CAN)

1. Up to 5 keys can be "registered"
2. You will receive the "fail" message if you try to program an existing key that is already stored within the Immobiliser control unit.
3. The immobiliser control unit is located around the key barrel and uses 2 fused feeds, one directly from the fuse box and one indirectly from the engine control unit.
4. Communication is on pins 7 (blue) and 9 (Yellow) of the diagnostic socket (engine and immobiliser)
5. There are two earth points for the immobiliser circuit (pin 4 of the immobiliser control unit, splits into two wires) and they are on the steering column support and in the O/S kick panel.
6. If you get an ERROR message during programming, this can be caused by the number of keys already programmed being the maximum allowed (5 is maximum). Clear the existing keys before programming the new keys will overcome this.

## SUZUKI CAN/PROX

1. Up to 4 keys can be "registered"
2. The remotes need to be programmed manually.
3. At the end of the procedure start the vehicles using the actual key to complete the programming procedure

### SUZUKI SX4

If remote controller or keyless start control module is replaced with a new one or additional remote controller is necessary, register ID code(s) of remote controller.

- 1) Sit in driver seat and close all doors.
- 2) Check that door lock of driver seat is unlocked.
- 3) Insert ignition key (1) into ignition key cylinder.
- 4) Perform Steps (a) through (f) described below within 25 seconds after Step (3).
  - a) First push manual door lock switch toward lock side and then push it toward unlock side.
  - b) Repeat Step a) 2 more times.
  - c) Push lock side of manual door lock switch.
  - d) Remove ignition key from ignition key cylinder once and then insert it again.
  - e) Repeat Step d) 3 more times.
  - f) Start engine and wait for 3 seconds.
- 5) Turn ignition switch to OFF position.  
When ignition switch is turned to OFF position, buzzer sounds twice and door lock is activated from lock position to unlock position. This operation indicates that keyless start control module has entered registration mode.
- 6) Push lock or unlock button of remote controller within 30 seconds after Step 5) to be registered.

When lock or unlock button of remote controller is pushed, buzzer sounds twice, door lock is activated to lock position and then to unlock position. This operation indicates that remote controller ID code has been registered in keyless start control module. If an additional remote controller needs to be registered, repeat the procedure of Step 6) within 30 seconds after Step 5).

- 7) To end registration mode, remove ignition key from ignition key cylinder or turn it to ON position.  
In case of vehicle equipped with immobilizer control system, if engine start function of keyless start system does not work after registration, check ECM if DTC P1615 is detected. If it is detected, go to DTC P1615: Steering Lock Unit Communication Error. If it is not detected, perform registration procedure again.



# REMOTE PROGRAMMING

## SUZUKI (NON CAN)

### VITARA

#### Procedure

1. Switch ignition OFF and close all doors.
2. Open drivers door and switch ignition on
3. Switch ignition OFF
4. Press and release drivers door ajar switch 3 times
5. Switch ignition ON and then OFF
6. Press and hold each button of the remote in turn for 5 seconds each
7. Central locking should activate
8. Press remote control lock button
9. Maximum of 2 remotes possible

### AERIO GRAND VITARA XL-7

If a remote or BCM (included in junction block assembly) is replaced with a new one or additional remote(s) is necessary, program remote code(s).

#### Procedure

1. Confirm that all doors are closed and ignition key is out of ignition key cylinder.
2. Open driver side door.
3. Turn ignition switch to ON position, and then remove ignition key from ignition key cylinder within 10 seconds after that.
4. Push and release driver side door switch (1) at 3 times by hand within 20 seconds after removing ignition key from ignition key cylinder.
5. Turn ignition switch to ON position, and then drawn ignition key from ignition key cylinder within 10 seconds after that. All doors automatically lock and unlock once. With this, registration mode.
6. Push "UNLOCK" button (2) on transmitter (3) within 20 seconds after Step 5. All doors automatically lock and unlock once. With this, code registration is completed.
7. If an additional transmitter, needs to be programmed repeat the procedure of Step 1.

# REMOTE PROGRAMMING



## IGNIS

### Procedure

1. Confirm that IG switch is OFF position.
2. Remove DOOR LOCK fuse and install it again.
3. Press the button on the remote one time toward the receiver within 30 sec
4. If two transmitters are registered, repeat step 1) to 3) with other remotes

- Notes:
- a. Two transmitter codes can be registered.
  - b. When a 3rd/new remote is registered, the oldest one will be cleared.

## SUZUKI Can/PROX

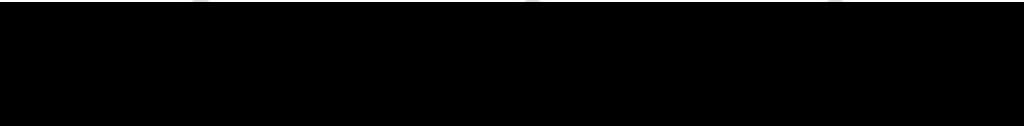
## SWIFT (RS413 and RS415)

### Procedure

- 1 Sit in driver's seat, close all doors, all doors unlocked.
- 2 Insert ignition key (emergency blade) into ignition
- 3 Press door locking switch (in the driver's door panel) to lock
- 4 Press door locking switch (in the driver's door panel) to unlock
- 5 Press door locking switch (in the driver's door panel) to lock
- 6 Press door locking switch (in the driver's door panel) to unlock
- 7 Press door locking switch (in the driver's door panel) to lock
- 8 Press door locking switch (in the driver's door panel) to unlock
- 9 Press door locking switch (in the driver's door panel) to lock
- 10 Remove the key from ignition
- 11 Insert key in ignition
- 12 Remove the key from ignition
- 13 Insert key in ignition
- 14 Remove the key from ignition
- 15 Insert key in ignition
- 16 Remove the key from ignition
- 17 Insert key in ignition
- 18 Start engine and wait for 3 seconds
- 19 Turn the ignition OFF
- 20 Buzzer sounds and door locks are activated
- 21 Press a button on the remote - a buzzer will sound and the doors will lock and unlock
- 22 Doors will lock and unlock
- 23 Turn ignition ON

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