Manuals+ — User Manuals Simplified.

FORTIN 90981 All-In-One Data Interface Remote Starter Installation Guide

Contents

FORTIN 90981 All-In-One Data Interface Remote Starter

WIRING / CONNECTION GUIDE

(20-PIN) SECONDARY CONNECTOR

	(+) Foot Brake	Black	IN	IN	Yellow	(+) BYPASS IGNITION	
750mA	(-) Parking lights	Pink	OUT	OUT	Purple	(-) LOCK	750mA
750mA	(-) Trunk Release/AUX	Yellow/Black	OUT	OUT	Purple/White	(-) UNLOCK	750mA
	(-) Hand Brake	Brown/White	IN	OUT	Green	(-) IGNITION	750mA
	(-) Hood/Door	Pink/Black	IN	OUT	White	(-) START	750mA
	Bypass config.	Purple/Yellow	⊖	OUT	Orange	(-) DISARM	750mA
	Bypass config.	Green/White	⊖	OUT	Orange/Black	(-) HORN/SIREN	2 Amp
	Bypass config.	Green/Red	⊖	OUT	Dk.Blue	(-) GWR/PROGRAMMABLE	750mA
	Bypass config.	White/Black	OUT	IN	Red/Blue	BYPASS CONFIG.	
	Bypass config.	Lt.Blue	⊖	⊖	Lt.Blue/Black	BYPASS CONFIG.	

750 mA MAXIMUM OUTPUT. DO NOT EXCEED THE MAXIMUM CURRENT OR PERMANENT DAMAGE TO THE MODULE WILL OCCUR THAT WILL NOT BE COVERED UNDER WARRANTY.
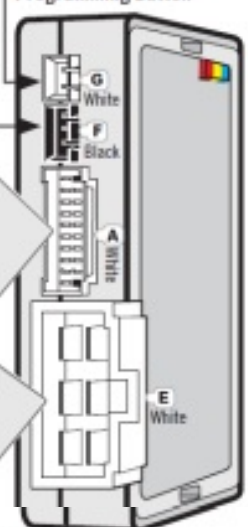
(6-PIN) POWER CONNECTOR

Ground	Black	IN	OUT	White	(+) PARKLIGHTS/IGN2/ACC/START	PROGRAMMABLE OUTPUT (FUNCTION 2 & 31)
(+) Ignition	Pink	OUT	OUT	Orange	(+) ACC / IGN2	PROGRAMMABLE OUTPUT (FUNCTION 2 & 31)
(+) Starter	Yellow	OUT	IN	Red	(+) 12V	

LED Blue	CAN ACTIVITY
LED Yellow	IGNITION ON
LED Red	BYPASS DATA

CUT LOOP FOR AUTOMATIC TRANSMISSION MODE.
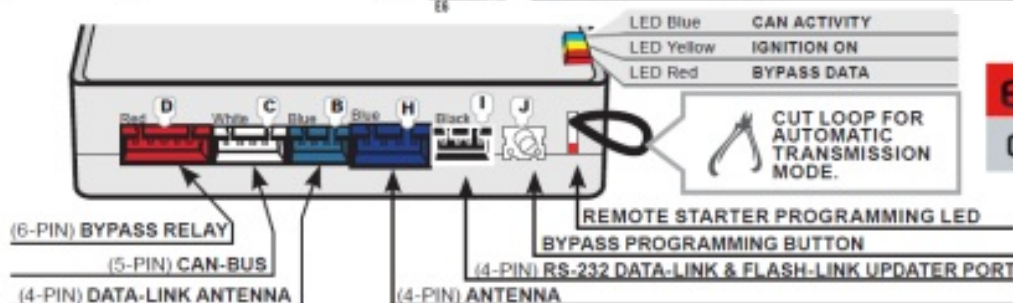
(3-PIN) SHOCK SENSOR
(2-PIN) Valet/Programming Button

G White
F Black
A White
E White

(6-PIN) BYPASS RELAY
(5-PIN) CAN-BUS
(4-PIN) DATA-LINK ANTENNA

REMOTE STARTER PROGRAMMING LED
BYPASS PROGRAMMING BUTTON
(4-PIN) RS-232 DATA-LINK & FLASH-LINK UPDATER PORT
(4-PIN) ANTENNA

EVO ONE

DOWNLOAD THE SPECIFIC VEHICLE INSTALLATION GUIDE AT:
WWW.FORTIN.CA

PAGE 1

PROGRAMMING REMOTE TRANSMITTER(S)

The system can learn up to a maximum of 4 transmitters.
Any transmitters can be stored in more than 1 memory slot.
When a 5th transmitter is learned the 1st remote is erased (FIFO).

STEP 1		STEP 2	STEP 3	STEP 4		STEP 5	STEP 6
	WITH IGNITION SWITCH	Turn the Ignition OFF.	Turn the Ignition ON. The LED will turn ON.	Press and release the brake pedal four times. x4		HOLD → 🔒 On each Transmitter press and release the 📡 button then press and hold the 🔒 button, release when the green Led on the remote turn ON. The LED will stop flashing for a second confirming programming.	OFF Turn the Ignition OFF to exit programming.
Turn the Ignition ON.	WITH VALET SWITCH*	Press and hold the valet switch* until the parking lights turn ON, the horn/siren will chirp.	Press and release the valet switch* five time. The parking lights will flash and the horn/siren will chirp each time to confirm. x5	Press and release the brake pedal once. x1	The LED will flash rapidly.		

ERASES ALL REMOTES THAT HAVE BEEN PROGRAMMED AND RESETS ALL FUNCTIONS BACK TO DEFAULT.

	STEP 1	STEP 2	STEP 3	STEP 4	STEP 5	STEP 6
Disarm the system (The antenna led must not be flashing, see enter/ exit valet mode p.6).	Turn the Ignition ON. Within 5 sec. →	OR — Press and hold the valet switch* or the antenna button until the Parking lights turn ON, the horn/siren will chirp.	OR — Press and release the valet switch* or the antenna button 23 TIMES.	X1 Press and release the brake pedal once.	OR — Press and hold the valet switch* or the antenna button for 5 seconds. The Parking lights will flash to confirm.	Turn the Ignition OFF to exit programming. The Parking lights will flash 4 times.

FUNCTION PROGRAMMING

FUNCTION PROGRAMMING

|	STEP 1	STEP 2		STEP 3	STEP 4	STEP 5	STEP 6
Disarm the system (The antenna led must not be flash-ing, see enter/ exit valet mode p.6).	Turn the Ignition ON. Within 5 sec. →	OR — Press and hold the valet switch* or the antenna button until the Parking lights turn ON, the horn/siren will chirp. 🔧 *Valet switch sold separately	The LED will flash rapidly.	OR — Press and release the valet switch or the antenna but-ton X time for the desired function. The Parking lights will flash and the horn/siren will chirp each time to confirm.	X1 Press and release the brake-pedal once.	MODE 1 - 🔒 LOCK MODE 2 - 🔓 UNLOCK MODE 3 - 🔑 1 SEC. → 🔑 3 SEC. START MODE 4 - 🔑 (3 SECONDS) MODE 5 - 🔑 → 🔒 LOCK MODE 6 - 🔑 → 🔓 UNLOCK Press the BUTTON on a programmed remote to select the mode (X). The Parking lights will flash 1-6 times to confirm. ← Return to step 3 to programmed the next option	Turn the Ignition OFF to exit program-ming. The Park-ing lights will flash 4 times.
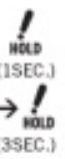
#	FUNCTION	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
1	—	—	—	—	—	—	—
2	Programmable Output (+) Ign/Acc/Start (FUNCTION 31 MODE 4)	White (+)Ignition2 Orange (+)Accessory Pink (+)Ignition Yellow (+)Start	White (+)Accessory2 Orange (+)Accessory Pink (+)Ignition Yellow (+)Start	White (+)Start2 Orange (+)Accessory Pink (+)Ignition Yellow (+)Start	White (+)Start Orange (+)Ignition2 Pink (+)Ignition Yellow (+)Start2	—	—
3	Tachless sensitivity	Increase crank time ∞	+++++	++++ (By default)	+++	++	∞ Decrease crank time
4	Remote car starter runtime	Gas: 15 minutes Diesel: 30 minutes	Gas: 7 minutes Diesel: 14 minutes	Gas: 3 minutes Diesel: 6 minutes	—	—	—
5	Add Remote on FMH antenna series	Add Remote	—	—	—	—	—
6	Doorlock option	No	Unlock before remote-start & Lock after remote-start.	Lock after remote-start.	Unlock and relock after shut-down.	Relock 10 sec.after shut-down.	Disarm before shut down.
7	Ignition Doorlock option	No	Lock after foot-brake & unlock after key is turned OFF.	Unlock after key is turned OFF.	Doorlock Output at Ignition only.	—	—
8	Unlock Pulse Time	Single 0.25 sec	Double 0.25 sec	Single 4.0 sec	Single 2.5 sec	Single 1.5 sec	Single 0.75 sec
9	Active or Passive Alarm & Starter Kill	Active Press LOCK to activate the Alarm and starter-kill.	Passive (Lock disabled) Arm alarm activate starter-kill 30(MODE 4), 60(MODE5), or 120(MODE6) sec. after the door is closed.	Passive (Lock enabled) Arm alarm, activate starter-kill and lock doors 30(MODE 4), 60(MODE5), or 120(MODE6) sec. after the door is closed.	Passive arm 30 seconds (by default if MODE 2 or 3 is activated.	Passive arm 60 seconds. (If MODE 2 or 3 is activated.	Passive arm 120 seconds. If MODE 2 or 3 is activated.
10	Starter Kill Output, Required function 32 mode 4. - Dk.Blue (A8) = starter-kill.	Starter-kill &anti-grind	Anti-grind only	Relay normally open	—	—	—

#	FUNCTION	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
11	Sound Confirmation & LED antenna Antidémarreur	1st LOCK/UNLOCK silent 2nd LOCK/UNLOCK sound Antenna LED active.	LOCK/UNLOCK sound always.	Antenna LED disabled.	Antenna LED disabled with ignition.	Confirmation sound at LOCK only.	Panic mode disabled
12	Output horn/siren configuration	Horn() only.	Siren(+) Output (E1) white.	Siren(+) Output (E1) white and Horn(-)	Siren(-) only (A7)	—	—
13	Confirmation Pulse	Long	Short	—	—	—	—
14	Alarm ON/OFF Starter ON/OFF	Alarm OFF Remote-starter ON	Alarm ON Remote-starter ON.	Alarm ON Remote-starter OFF	—	—	—
15	Smart Arming Smart Doorlock Smart Lock pulse	Disable	(Unlock signal) Automatically LOCK and rearm alarm if door(s) are not opened after 30 seconds.	Automatic Lock when starter kill arms.	Lock pulse only when its Unlock	—	—
16	Cold Start Timer	3 hours at -5°C/Runtime	1.5 hours at -5°C/Runtime	3 hours at -5°C/5 minutes	1.5 hours at -5°C/5 minutes	Cold time OFF	—
17	—	—	—	—	—	—	—
18	Diesel Mode	Disable	Enable (20 seconds) Delay between ignition power up and Starter (crank).	Enable (10 seconds) Delay between ignition power up and Starter (crank).	Enable No delay between ignition power up and Starter (crank).	Enable (5 seconds) Delay between ignition power up and Starter (crank).	—
19	Turbo timer	Disable	Run 2 minutes.	Run 4 minutes.	—	—	—
20	Engine supervision: -Tachless - analog tach- -Tach Data-Link-	Tachless on crank and supervision Tach Data-Link.	Tachless only. (vehicles with automatic transmission only)	Start (Crank) 20 sec + Supervision by Data-Link Tach	Start (crank) 8 seconds on Tachless. (vehicles with automatic transmission only)	Start (Crank) 8 sec + Supervision by Data-Link Tach	Tach Data-Link only
21	Start Attempts	2	1	3	—	—	—
22	—	—	—	—	—	—	—
23	Master RESET	RESET all programming options by default. (Retains already programmed remote.)	—	—	—	—	—
24	—	—	—	—	—	—	—
25	Yellow/Black (A13) - !HOLD --> LOCK	0.5 seconds & disarm alarm	0.5 seconds	10 sec latch or until a button is pressed	20 sec latch or until a button is pressed	30 sec latch or until a button is pressed	Latch until shutdown
26	Hybrid mode	Gas / Diesel vehicle	Hybrid vehicle	—	—	—	—
27	—	—	—	—	—	—	—
28	—	—	—	—	—	—	—
29	Alarm Duration	30 seconds	60 seconds	120 seconds	—	—	—
30	Valet code	Ignition ON Valet button x3 times.	Ignition ON Valet button x3 times and x1 times 3 seconds.	Ignition ON Valet button x4 times and x1 times 3 seconds.	Ignition ON Valet button x5 times and x1 times 3 seconds.	Ignition ON Valet button x6 times and x1 times 3 seconds.	Ignition ON Valet button x7 times and x1 times 3 sec.
31	Special application Programmable output (+)	No special application Priority on function 2	Special application - Function 2 (all option) not available. White wire (E1) - Enable all ground out, disable with vehicle ignition OFF.	White wire (E1) - Trunk Output	White (+) Parking Lights Orange (+) Accessory Pink (+) ignition Yellow (+) Start	White (+) Parking Lights Orange Ign.2 Pink Ign.1 Yellow (+) Start	White.(+) Parking Lights Orange.(+) Parking lights Pink.(+) ignition Yellow.(+) Start

#	FUNCTION	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
32	Ground Out	Dk.Blue (Ground out): Shut-down 1 second after remote start run time.	Dk.Blue (Ground out): Shut-down 3 seconds after remote start run time.	Dk.Blue (Ground Out): Shutdown After	D.k Blue (Ground Out): Starter-Kill	D.k Blue (Ground Out): Arm / Rearm	Controlled by CAN learning
33	Manual transmission function	Manual transmission completed by door closed.	Automatically activated by hand-brake and Foot Brake	Manual sequence completed by locking the doors	Cancel ready mode when trunk open.	—	—
34	Trunk output	Pulse 0.5 seconds	Pulse 2.5 seconds	Unlock before trunk pulse 0.5sec	Trunk Output at ignition only	—	—
35	Door unlock Special application	No special application	Activate vehicle ignition at unlock.	Activate vehicle ignition and accessory at unlock.	—	—	—
36	Activation/desactivation remote Valet Mode	—	by remote : !HOLD --> LOCK + UNLOCK or valet button	By Valet button only	—	—	—
37	Security Remote car starter Special application	No special application	Security ON: Shutdown Engine if the door is opened before UNLOCK is pressed. (Door trigger required).	—	—	—	—
38	System control by OEM Remote	Disable	Press 3x Lock to remote start	Start/Stop on trigger shock sensor	Alarm control by OEM Remote.	Press Lock, Unlock Lock to remote start	—
39	Temperature option	Disable	Enable : AUX1 activated at 5°c when remote started (see function 25)	—	—	—	—

LEGEND: FUNCTION BY DEFAULT

MANUAL TRANSMISSION SEQUENCE FOR COMPATIBLE VEHICLES ONLY

MANUAL TRANSMISSION SEQUENCE ⚠ FOR COMPATIBLE VEHICLES ONLY						
STEP 1	**STEP 2**	**STEP 3**	**STEP 4**	**STEP 5**	**STEP 6**	**STEP 7**
Make sure that all doors are closed and the transmission is in the NEUTRAL position.	Press the brake	While the engine is running. Engage the parking brake.	Release the brake pedal	HOLD (1SEC.) → HOLD (3SEC.)	Press *! HOLD* 1 sec release and press the *! HOLD* again 3 sec. The Parking lights will flash once and then remain on.	Remove the key from the ignition barrel. The vehicle will remain running with the Remote-Starter.	Exit the vehicle and close all of the doors.The Remote-Starter will stop running once all the doors are closed.

WILL DISABLE MANUAL TRANSMISSION SEQUENCE

STANDARD
• Open any door(s)

• Open the hood
• Disengage the parking brake

Note : If the Parking lights flash 3 times when Remote-Starting, Ready Mode is not enabled.

DISARM / ENTER / EXIT VALET MODE

DISARM / ENTER / EXIT VALET MODE			STEP 1	STEP 2				
				OR				
to disarm the system		System armed : DEL flash		3x	3x	Within 10 seconds press and release the Valet switch or the antenna button **3 TIMES.**		System disarmed : LED is OFF
to enter and exit valet mode		System disarmed : LED is OFF	Insert the key and turn it to the ignition (ON/RUN) position.					System disarmed and in valet mode : LED is ON.

REMOTE START DIAGNOSTICS

Parking Lights flashes (before starting) :

- 3x Ready mode disabled
- 4x Valet mode activated (The LED is on)
- 5x Hood open

Parking Lights flashes (after Shutdown) :

- 1x: Normal stop (Brake, Park Brake)
- 3x: Runtime expired or shut down by the transmitter
- 4x: No tachometer signal
- 5x: Hood open
- 6x: Over crank threshold (8 seconds)

ALARM DIAGNOSTICS

Parking Lights flashes (after disarm) :

- 3x: Door open – zone 3
- 4x: Shock sensor – zone 4
- 5x: Hood open – zone 5

- 6x: Trunk open – zone 6

WARNING

NOTICE

The manufacturer will accept no responsibility for any electrical damage resulting from improper installation of the product, including either damage to the vehicle itself or to the remote-starter module. This module must be installed by a certified technician including all of the supplied safety devices. Please note that this guide has been written for trained professional technicians, a certain level of skills and knowledge is therefore assumed. Please review the Installation Guide carefully before beginning any work.

WARNING

By default, this system is set up for vehicles with a manual transmission. For vehicles with an automatic transmission, the safety wire loop on the main unit must be cut. Before proceeding to the installation, make sure that the vehicle does not attempt to start when the vehicle is in the "drive" or "reverse" position. If an automatic transmission vehicle starts when the transmission is in gear, ensure that the safety wire loop on the unit is not cut. Once the safety wire loop is cut, the system is considered an automatic transmission remote-starter indefinitely. Once a loop is cut all warranties, guarantees, and liability is immediately void if the unit is installed on a manual transmission vehicle. Neither the manufacturer or distributor of this module is responsible of damages of any kind indirectly or directly caused by this module, except for the replacement of this module in case of manufacturing defects. This module must be installed by a qualified technician. This instruction guide may change without notice. To download the installation guide, user guide, or the latest quick installation guide, visit: **WWW.FORTIN.CA**

Technical support: TEL: 514-255-4357 / 1-877-336-7797
Copyright © 2014-2021, FORTIN AUTO RADIO INC ALL RIGHTS RESERVED MADE IN CANADA

Documents / Resources
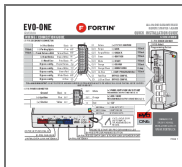
	FORTIN 90981 All-In-One Data Interface Remote Starter [pdf] Installation Guide 90981 All-In-One Data Interface Remote Starter, 90981, All-In-One Data Interface Remote Starter

References

- 🌐 **Fortin | Bypass modules, remote starters and alarm systems**

Manuals+,