

# E400

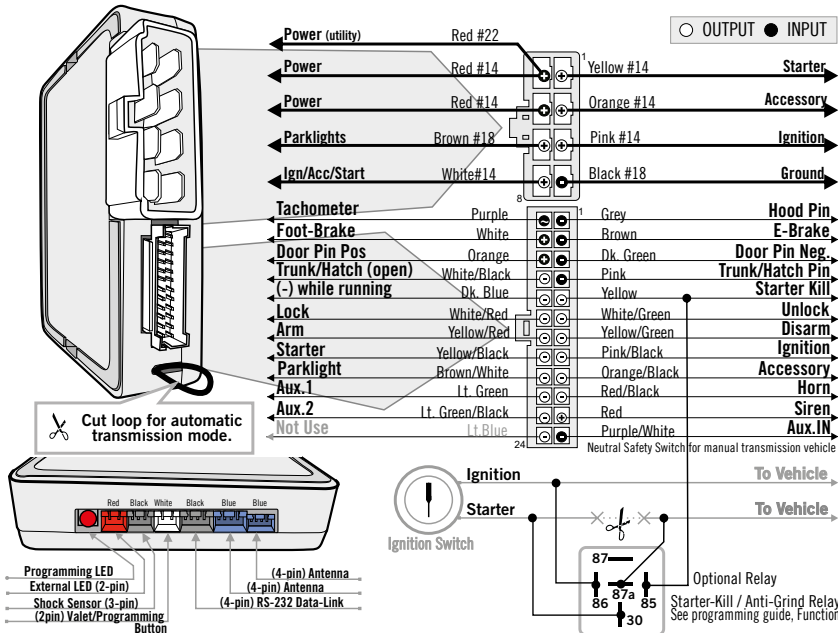
RFK942

## WIRING / CONNECTION GUIDE














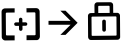
## AUTOMATIC & MANUAL TRANSMISSION REMOTE STARTER & ALARM QUICK INSTALLATION GUIDE

GUIDE # 69641












## PROGRAMMING REMOTE TRANSMITTER(S)



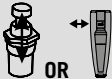











The system can learn up to a maximum of 4 transmitters.  
Any transmitters can be stored in more than 1 memory slot.  
When a 5<sup>th</sup> transmitter is learned the 1<sup>st</sup> remote is erased (FIFO).









STEP 1	STEP 2	STEP 3	STEP 4	STEP 5	STEP 6
 WITH IGNITION SWITCH Turn the Ignition ON.	 Turn the Ignition OFF.	 Turn the Ignition ON.	 The LED will turn ON.  X4 Press and release the brake pedal four times.	 The LED will flash rapidly.	 Turn the Ignition OFF to exit programming.
 WITH VALET SWITCH Turn the Ignition ON.	Press and hold the valet switch until the parking lights turn ON, the horn/siren will chirp.	 X5 Press and release the valet switch five times. The parking lights will flash and the horn/siren will chirp each time to confirm.	 X1 Press and release the brake pedal once.	 The LED will stop flashing for a second confirming programming.	
				 →  On each Transmitter press and release the [+] button then press and release the [ ] button.	

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









Disarm the system (The antenna led must not be flashing, see enter/exit valet mode p.7).	<b>STEP 1</b>  Turn the Ignition ON. Within 5 sec. →	<b>STEP 2</b> OR  →  Press and hold the valet switch or the antenna button until the Parking lights turn ON, the horn/siren will chirp.	<b>STEP 3</b> OR  ←  23X 23X Press and release the valet switch or the antenna button 23 times.	<b>STEP 4</b>  X1 Press and release the brake-pedal once.	<b>STEP 5</b> OR  →  Press and hold the valet switch or the antenna button for 5 SECONDS. The Parking lights will flash to confirm.	<b>STEP 6</b>  Turn the Ignition OFF to exit programming. The Parking lights will flash 4 TIMES.
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## FUNCTION PROGRAMMING

STEP 1	STEP 2	STEP 3	STEP 4	STEP 5	STEP 6
<p>Disarm the system (The antenna led must not be flashing, see enter/exit valet mode p.7).</p>  <p>Turn the Ignition on.</p> <p>Within 5 sec.</p>	<p>Press and hold the valet switch or the antenna button until the Parking lights turn ON, the horn/siren will chirp.</p>  <p>OR</p> <p>The LED will flash rapidly.</p>	<p>Press and release the valet switch or the antenna button X time for the desired function. The Parking lights will flash and the horn/siren will chirp each time to confirm.</p>  <p>OR</p>	<p>Press and release the brake pedal once.</p>  <p>X1</p>	<p>Press the <b>BUTTON</b> on a programmed remote to select the mode (X). The parklights will flash 1-6 times to confirm.</p>  <p>MODE 1 -  LOCK            MODE 2 -  UNLOCK            MODE 3 -  START (3 SECONDS)            MODE 4 -  FUNCTION (3 SECONDS)            MODE 5 -  FUNCTION →  LOCK            MODE 6 -  FUNCTION →  UNLOCK</p>	<p>Turn the Ignition off to exit programming. The parklights will flash 4 times.</p> 
<p>Return to step 3 to programmed the next option</p>					

	FUNCTION	MODE 1  DEFAULT	MODE 2 	MODE 3 	MODE 4 	MODE 5  → 	MODE 6  → 			
1	—	—	—	—	—	—	—			
2	Programmable Output (+) Ign/Acc/Start/Park-Light	2 <sup>nd</sup> Ignition	2 <sup>nd</sup> Accessory	2 <sup>nd</sup> Starter	Pink	Ignition	Pink	Ignition	Pink	Ignition
					Orange	2 <sup>nd</sup> Ignition	Orange	Accessory	Orange	Accessory
					White	Starter	White	2 <sup>nd</sup> Ignition	White	Starter
					Yellow	2 <sup>nd</sup> Starter	Yellow	Starter	Yellow	2 <sup>nd</sup> Starter
					Brown	Park-Light (+)	Brown	2 <sup>nd</sup> Accessory	Brown	2 <sup>nd</sup> Ignition
			Aux. 1	Park-Light (-)	Aux. 1	Park-Light (-)				
3	Tachless sensivity	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	Lock/Unlock control	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.	—		

	FUNCTION	MODE 1  DEFAULT	MODE 2	MODE 3	MODE 4	MODE 5  →	MODE 6  →
7	Ignition Lock/Unlock control	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 (MODE 5), or 120 (MODE 6) sec. after the door is closed.	Passive (Lock enabled) Arm alarm, activate starter-kill and lock doors 30 (MODE 4), 60 (MODE 5), or 120 (MODE 6) 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	Starter-kill & anti-grind	Anti-grind only	Relay normally open	—	—	—
11	Sound confirmation & LED antenne	1 <sup>st</sup> LOCK/UNLOCK silent - 2 <sup>nd</sup> 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	Horn/Siren confirmation	Horn(-) only.	Siren(+) only	Siren(+) & Horn(-)	During alarm siren(+) will pulse and horn(-) is constant.	—	—
13	Confirmation Pulse	Long	Short	—	—	—	—
14	Alarm ON/Off Starter ON/Off	Alarm OFF Remote-starter ON	Alarm ON Remote-starter ON (Unlock signal)	Alarm ON Remote-starter OFF	—	—	—
15	Smart Arming Smart Doorlock Smart Lock pulse	Disable	Automatically LOCK and rear 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	Domelight Delay	Disable	Enable Ignore door trigger (dome light) when arming or Remote-starting	—	—	—	—

	FUNCTION	MODE 1  DEFAULT	MODE 2 	MODE 3 	MODE 4 	MODE 5  → 	MODE 6  → 	
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).	—	—	
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 or analogic after	Tachless only. (⚠️ vehicles with automatic transmission only)	Analog Tach learning (see p.8 for programming)	Start (crank) 8 sec on tachless. (⚠️ vehicles with automatic transmission only)	Start (crank) 8 sec + Supervision by Data-Link Tach (Data interface required)	Tach Data-Link only (Data interface required)	
21	Start Attempts	2	1	3	—	—	—	
22	—	—	—	—	—	—	—	
23	Master RESET	RESET all programming options by default. (Retains already programmed remote.)	—	—	—	—	—	
24	Special application	Disable	Application 1	Application 2	Application 3	—	—	
25	Auxiliary 1 Output Function AUX--> 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	Auxiliary 2 Output-Function AUX--> UNLOCK	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	—	
28	Manual transmission Neutral safety switch Special Application	No application	Enable (see p.4)	For manual transmission vehicles equipped with neutral safety switch. DO NOT CUT THE LOOP. Connect the auxiliary IN (Purple/White) to the neutral safety switch of the vehicle.				
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.				—	—
			Enable at ground out, disable with vehicle ignition off	White wire (5 <sup>th</sup> relays): Trunk output(+)	White wire (5 <sup>th</sup> relays): (+)Parking light output			

	FUNCTION	MODE 1  DEFAULT	MODE 2	MODE 3	MODE 4	MODE 5  →	MODE 6  →
32	Configuration Dk.Blue (Pin17) Yellow/Red (Pin19) wire	Dk.Blue (Ground out, Pin17): Shut-down 1 second after remote start run time. ----- Yellow/Red (Pin19)=Arm	Dk.Blue (Ground out, Pin17): Shut-down 3 seconds after remote start run time.	Yellow/Red (Pin19) (Arm): Shutdown after	—	—	—
33	Manual transmission function	Activated by the remote starter remote. See page 4.	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 0.5 sec	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/ deactivation remote Valet Mode	—	by remote : AUX FUNCTION --> 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	Enable (Press 3x Lock to remote start) (Bypass module required)	—	Enable Alarm controlled by OEM Remote.	Enable (Press Lock, Unlock Lock to remote start) (Bypass module required)	—
39	AUX1 CONTROLLED BY Temperature	Disable	Enable : AUX1 activated at +5°C when remote started (see function 25)	—	—	—	—









LEGEND: FUNCTION BY DEFAULT



THE ENGINE'S TACHOMETER SIGNAL MUST BE DETECTED BY THE REMOTE STARTER TO OPERATE IN A MANUAL TRANSMISSION. TACHOMETER IS CONNECTED DIRECTLY TO THE VEHICLE:

OPTION 20: MODE 1 OR 3  
- OR -  
TACHOMETER IS OBTAINED THROUGH THE INTERFACE MODULE EVO-ALL OR EVO-CHR.OPTION 20: MODE 1 OR 6

## READY MODE

STEP 1	STEP 2	STEP 3	STEP 4	STEP 5	STEP 6	STEP 6
 <p>Make sure that all doors are closed and the transmission is in the NEUTRAL position.</p> 	 <p>Press the brake pedal.</p>	 <p>While the engine is running. Engage the parking brake.</p>	 <p>Release the brake pedal.</p>	 <p>Push the START button (3sec.). The Parking lights will flash once and then remain on.</p> <p><b>NOTE</b> If the parking lights flash 3 times: Verify the Tachometer signal.</p>	 <p>Remove the key from the ignition barrel. The vehicle will remain running with the Remote-Starter.</p>	 <p>Exit the vehicle and close all of the doors. The Remote-Starter will stop running once all the doors are closed.</p>

## TO DISABLE READY MODE

### STANDARD

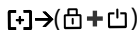
- Open any door(s)
- Open the hood
- Disengage the parking brake

### WITH NEUTRAL SAFETY SWITCH

- Transmission not in neutral position
- Open the hood
- Disengage the parking brake

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

## TO ENABLE COLD START MODE










Press and release the FUNCTION button, within 12 seconds simultaneously press and hold the LOCK and START buttons for 1 second. The parking lights will flash once.

## TO DISABLE COLD START MODE

Press and release the FUNCTION button, within 12 seconds simultaneously press and hold the LOCK and START buttons for 1 second. The parking lights will flash twice.

- Put the Remote-Starter/alarm into Valet
- Remote-Start the vehicle
- Open the hood
- Press the brake pedal
- Turn the key to the ignition position.
- Disable Ready Mode (manual transmission).

## DISARM / ENTER / EXIT VALET MODE

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

## READY MODE FOR NEUTRAL SAFETY SWITCH

### STEP 1



Make sure that the transmission is in the NEUTRAL position.

### STEP 2



Engage the parking brake.

### STEP 3



Remove the key from the ignition barrel. The vehicle is ready to start. (and not running)

NOTE: This feature will be functional only if the Tach is detected by a bypass module or connected directly to the vehicle.

## ANALOG TACH LEARNING (PURPLE WIRE)

### STEP 1



Start the engine with the key.

### STEP 2



Press and hold the valet switch until the Parking lights turn ON, the horn/siren will chirp.

### STEP 3



Press and release 20 times the valet-switch. The park-lights will flash and the horn/siren will chirp once to confirm.

### STEP 4



Press and release the brake-pedal once.

### STEP 5



Press the START button (3sec.) the horn/siren will chirp 3 times to confirm tach learning.

A long chirp indicates tach learning failed. If the procedure fails or to re-learn the tach setting, re-start the procedure.

## REMOTE START DIAGNOSTICS

Parking Light flashes (before starting) :

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

Parking Light flashes (after Shutdown) :

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

## ALARM DIAGNOSTICS

Parking Light flashes (after disarm) :

- 3x Door open – zone 3
- 4x Shock sensor – zone 4
- 5x Hood open – zone 5
- 6x Trunk open – zone 6

## WARNING

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.

By default this system is setup 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, guaranties, and liability is immediately void if the unit is install 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 install by 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](http://www.fortin.ca)

Technical support: TEL: 514-255-4357 / 1-877-336-7797

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