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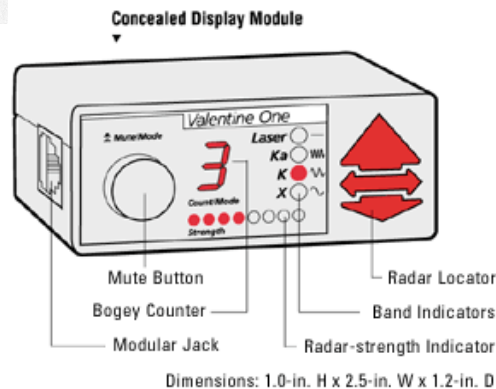
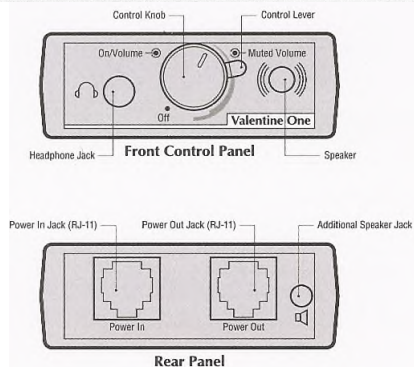
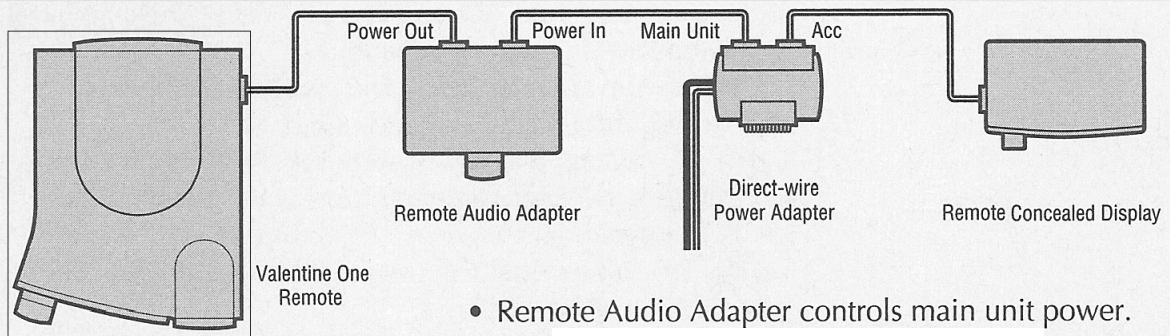
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V1 Install Instructions, V1 & Valentine 1 Programming, November 2007

V1 Remote Installation Instructions

1. Use J Hooks hardware to install Remote Kit behind grille of vehicle, on top of Ski Rack, or just under the bumper, or in the bumper (if a fiberglass bumper is available). The higher the better the performance. Drill holes on the outer flanges of the aluminum enclosure, left and right sides, use J Hooks to hold package to desired surface. A bracket is provided.
2. If your vehicle is an SUV or pickup truck or larger, you can install under the bumper. If the install location is good (typically just under the height of the bumper and approximately 18" back), the V1 will detect radar to the front with excellent sensitivity and to the rear with reasonable sensitivity. Do not install too low due to potential road damage to the V1 Remote, when parking or going over parking lot bumps.
3. The cable protruding from the Remote Kit is the rear of the kit facing the engine compartment.
4. If installed behind the grille, rear radar detection will be significantly reduced. Ensure no metal is in front of the V1 Remote, and ensure V1 Remote is kept away from radiator to prevent heat damage. If installed inside a front, foam core bumper, ensure no metal is in front of the V1 Remote.
5. Run the 14 foot cable into the cockpit and hook up according to electrical layout highlighted below. If the cabling is ran differently than shown above, there will be no display on the Remote Concealed Display.
6. Call TLP on any questions you have or to order remote electronic display, audio control and cabling. The Valentine One inside is a die-cast Magnesium enclosure, surrounded by a very sturdy Aluminum outer enclosure.

Install according to the following diagram:



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How To Change V1 Remote and Valentine One Programming. Call us at 303-678-9101 if you want help in changing your V1 modes of operation. **Change Modes at your own risk!**

I. How to enter the Programming Mode.

- Starting with the Control Knob in the "off" position, Press and hold-in Knob and at the same time turn the Knob "on;" continue holding in the Knob until all front-panel lights are on (takes about 5 seconds).
- Release the Control Knob.



II. How to determine your software version.

- Press and immediately release the Control Knob (shown at right) to display software version. The software-version number is four digits that display one digit at a time in the Bogey Counter-example: 2.869.
- Note your software number, then see the tables on the following pages on features programmable in your unit.
- Press and immediately release the Control Knob to exit software-version display and go to Step 1 programming.



III. How to program your desired features.

- The feature character is indicated in the "Bogey Counter" (1, 2, 3, 4, 5, 6, 7, 8, A, b, C, d, E, F, G, H, J, or u).
- To select the next Feature Character in the sequence, press and immediately release the Control Knob.
- The Feature State is indicated by direction arrows on the Radar Locator. The Feature State is changed by pressing and holding the Control Knob until the arrow switches to the opposite direction (takes about 3 seconds). NOTE: If you need to return to an earlier Character in the sequence above, we recommend you switch off the power momentarily, then restart at step I above. **The numerical program modes of interest are as follows:**

- US/Canadian/HK** Frequency: #1 (X band **ON** =  **OFF** = ) **Don't change any other mode on US/Canada!**
- EUROPE / AU** Frequency #1 (X band **OFF** = )
- EUROPE / AU** Frequency #2 (K = 24.125GHz : **ON** = )
- EUROPE / AU** Frequency #3 (Ka band **ON** = )
- EUROPE / AU** Band #4 (Laser **ON** = )
- EUROPE / AU** Frequency #4 #H (Ku **ON** = )
- EUROPE / AU** Frequency #J (POP3 **ON** = )
- EUROPE / AU** Frequency #U (Euro Ka = 34.2GHz, Narrowband Ka **ON** = )

Do not change any other mode!

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IV. How to exit the Programming Mode.

- Switch power off, or unplug. The changes you programmed will be retained in memory.

V. How to tell if V1 has been changed from factory settings.

- If the unit has been changed, P will appear briefly in the Bogey Counter soon after V1 is switched on (after the lamps-on test, but before the Mode indicator appears.)
- On V1s with serial numbers ending in 0600 or higher, a flashing red LED just to the right of the Bogey Counter during the sequence above indicates that Ku coverage has been activated.

Feature Character (See Bogey Counter)	Arrow Direction	Description	Software Version										Factory Setting	
			2.850 - 2.855	2.859	2.869	2.879 - 2.899	2.899 - 3.002	3.012 - 3.013	3.016 - 3.017	3.018 - 3.019	3.021 and higher			
This section allows you to turn off coverage of each radar band and laser.														
1	▲	X band on.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	▼	X band off.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2	▲	K band on.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	▼	K band off.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3	▲	Ka band on.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	▼	Ka band off.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4	▲	Laser on.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	▼	Laser off.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to adjust the response of the signal-strength meter for Ka band only. V1's radar and laser sensitivity will not be changed.														
5	▲	Normal.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	▼	More Responsive.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to switch off the False-Alarm Guard or Ka band.														
6	▲	Guard on.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	▼	Guard off.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to switch on a feature that automatically mutes K-band alerts under certain circumstances. Feature Characters b, C, d, E, F, and G set the specifications of those circumstances. This automatic muting will happen in L and L modes only. Enable this feature only when planning long-term operation in an area with frequent K-band false alarms.														
7	▲	Features b thru G inactive.	n/a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	▼	Features b thru G enabled.	n/a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to suppress the warning sound completely when you press to mute.														
8	▲	Muted vol. set by Control Lever	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	▼	Muted volume set to zero.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to change volume of any Bogey Lock Tones that occur after you press Mute.														
A	▲	Volume is set by Control Knob.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	▼	Volume is set by Control Lever	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Feature Character b	Feature Character C	Feature Character d	Factory default	Seconds								K-band Initial Mute Period (seconds)	
				n/a	3	10	10	10	10	10	10		10
▲	▲	▲	n/a	3	10	10	10	10	10	10	10	10	K-band Initial Mute Period (seconds)
▼	▼	▼	n/a	4	9	30	30	30	30	30	30	30	
▲	▲	▲	n/a	5	8	20	20	20	20	20	20	20	
▼	▼	▼	n/a	6	7	15	15	15	15	15	15	15	
▲	▲	▲	n/a	7	6	7	7	7	7	7	7	7	
▼	▼	▼	n/a	8	5	5	5	5	5	5	5	5	
▲	▲	▲	n/a	9	4	4	4	4	4	4	4	4	
▼	▼	▼	n/a	10	3	3	3	3	3	3	3	3	

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Euro K band is at 24.125GHz. Wideband Ka is turned off when Euro Ka is turned on. Ku is used in UK, Netherlands, Northern France, Taiwan, Belgium, but not in the USA as of Jan07.

The Euro Mode and Ku band are separate features and require separate activation. Euro Mode is a narrowband Ka used in Europe and Australia on photo speed traps.

When Euro Mode has been activated, upon power up you will see the sequence "E," "u," "r" appear in the Bogey Counter. When the power-up sequence is complete, the Bogey Counter will show either "U" or "u." Pressing the Control Knob will toggle between them.

Select "U" to enable both K and narrowband Ka (Photo) bands. Select "u" to enable only narrow Ka band.

Euro Ka (Big U) mode detects:

Ka POPIII 33.8GHz
KA Narrowband 33.97GHz to 34.65GHz after July 2006 (Rev 3.8.5.1 and later
KA Narrowband 34.2GHz to 34.45GHz before July 2006
K 24.125GHz and K POPIII radar
X turned off

Euro Ka (little u) mode detects:

Ka POP 33.8GHz
KA Narrowband 33.97GHz to 34.65GHz after July 2006 (Rev 3.8.5.1 and later
KA Narrowband 34.2GHz to 34.45GHz before July 2006
All K turned off
All X turned off

Euro Ku: 13.45 GHz

Feature Character (See Glossy Counter)	Arrow Direction	Description	Software Version										Factory Setting	
			2.887 - 2.895	2.899	2.899	2.899 - 2.899	3.819 - 3.802	3.812 - 3.813	3.816 - 3.817	3.818 - 3.819	3.827 and higher			
This section allows you to set an automatic override of the muting time you set in b, C, and d; if K-band strength exceeds four LEDs on the Signal Strength Meter at the onset of the er counter, there will be no muting.														
E	↕	Unmute at four lights.	n/a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	↕	Stay muted at four lights.	n/a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to set an automatic override of the muting time you set in b, C and d; if K-band strength slowly rises to six LED's on the Signal Strength Meter, sound will unmute.														
F	↕	Unmute at six lights.	n/a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	↕	Stay muted at six lights.	n/a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to automatically mute all K-band alerts when they are behind you.														
G	↕	Don't mute rear K-band.	n/a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	↕	Mute rear K-band.	n/a	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to turn on coverage of Ku band.														
H	↕	Ku off.	n/a	n/a	n/a	n/a	✓	✓	✓	✓	✓	✓	✓	✓
	↕	Ku on.	n/a	n/a	n/a	n/a	✓	✓	✓	✓	✓	✓	✓	✓
This section allows you to turn factory test on and off.														
I	↕	factory test off.	n/a	n/a	n/a	n/a	n/a	✓	n/a	n/a	n/a	n/a	✓	✓
	↕	factory test on.	n/a	n/a	n/a	n/a	n/a	✓	n/a	n/a	n/a	n/a	✓	✓
This section allows you to turn POP on and off.														
J	↕	POP on.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	✓	✓	✓	✓	✓
	↕	POP off.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	✓	✓	✓	✓	✓
This section allows you to turn European Mode on and off.														
U	↕	Euro off.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	✓	✓	✓
	↕	Euro on.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	✓	✓	✓

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