

**Subject: Re: NHVWDJ441 comments**

**Date:** Wed, 29 Jan 2003 17:59:18 +0900

**From:** ykoyama@a-pex.co.jp

**To:** Dennis Ward <dennis@yosemite.net>

**CC:** iwasay@a-pex.co.jp

Dear Dennis,

Thank you very much for your contact on the above application. I make a reply as follow:

1. Please see the file "Internal photo2". Page3 shows the circuit board under the shield. Is this acceptable?

2. Contents of Antenna is common among 7 antennas though their shapes are bit different.

Each drive circuit of the C/U is basically connected to an independent antenna, respectively. Therefore, one drive circuit only drives one antenna.

The communication procedure of the system is as follows;

When a user wears a portable unit and pushes a switch (named as request switch) next to a door knob of an automobile with his hand, an LF antenna connected to the door knob transmits 125 kHz signals. Then, when the portable unit worn with the user receives the LF signals, the portable unit transmits RF signals with the ID code. The transmitted ID code is received by a tuner in a control unit installed in the automobile and confirms if the decoded code is identical to the registered code. If the code is identical, the closed door is opened or the opened door is closed.

In addition the confirmation operation same as the door open is started, when the engine is activated by using an engine key. Furthermore, when the user locks the door from outside remaining his portable unit inside the automobile, this system operates not to make the door lock.

Best regards,

Yukie Koyama

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--Original Message 2003/01/25 6:18:22--

Please see comments

Thanks

Dennis

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