

JUNJIN CONCRETE PUMP SERVICE INFORMATION



JSI - EN - 05- 4A - 001		Date	Feb 1st, 2005
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Subject	Programming with radio-remote controller		

■ Amperage value setting

	Voltage	Volume control reducing valve		HAWE boom control valve	
		Amp. value New(square coil)	Amperage value Old(round coil)	Boom speed	Amperage value
1	24V	0 ~ 0.8A max ~ min	0~0.35A max ~ min	hare	0.3~0.70 A
				snail	0.3~0.45 A
2	12V	0~1.8A max ~ min	0~0.80A max ~ min	hare	0.3~1.20 A
				snail	0.3~0.80 A

New type of reducing valve for volume control has been used since 2004. Proper amperage value setting have to be performed when the old type valve is replaced into new one, otherwise it might cause a failure of volum control.



RB431 Reducing valve (Old)



RB922 Reducing valve (New)



DC 12V HAWE v/v coil



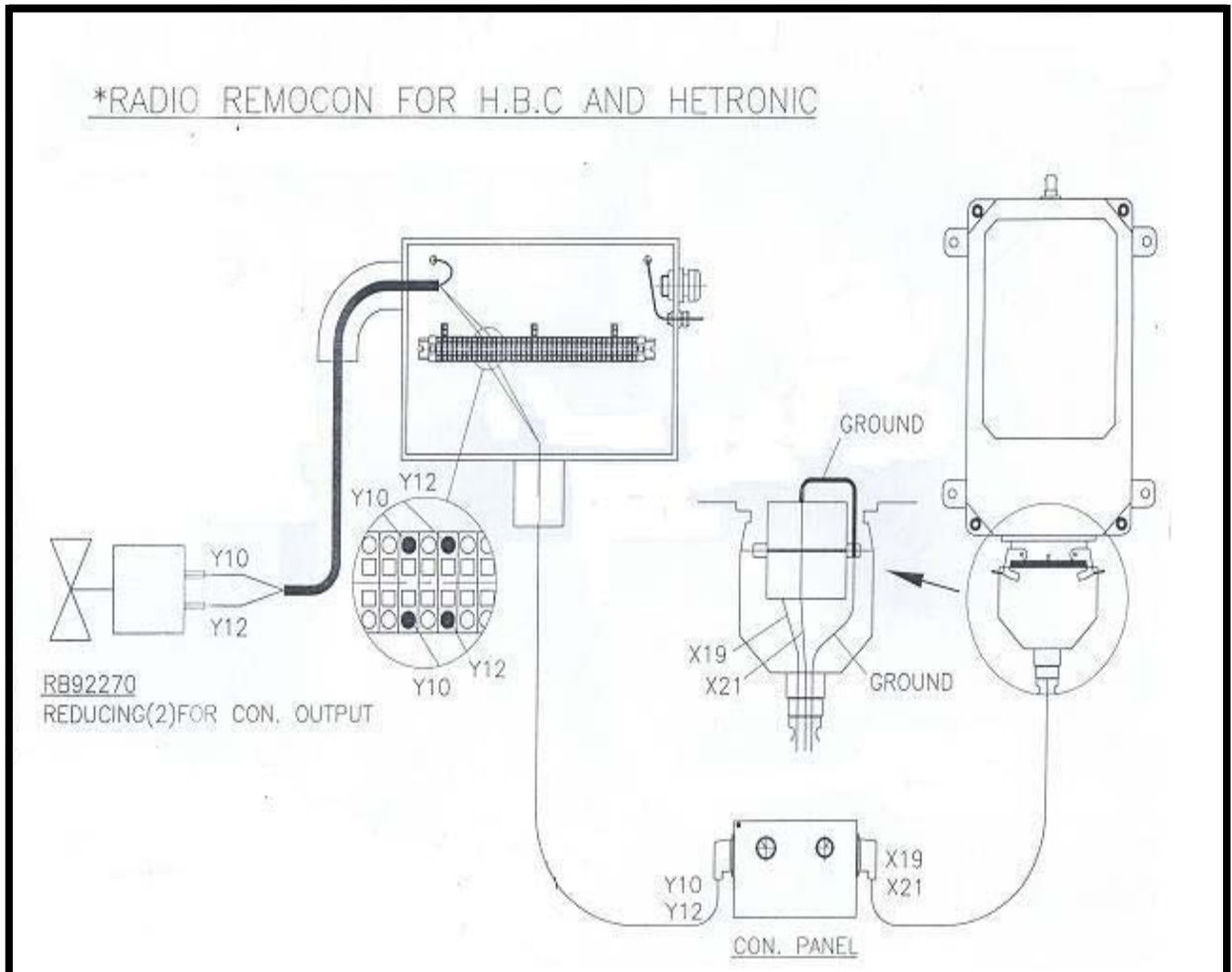
DC 24V HAWE v/v coil

■ Electric wiring change of volume control system

Y12 wire(decreasing volume) has been connected to the ground(\ominus) before 2004. (HBC)

X21 wire(decreasing volume) has been connected to the ground(\ominus) since 2004. (HBC FST735)

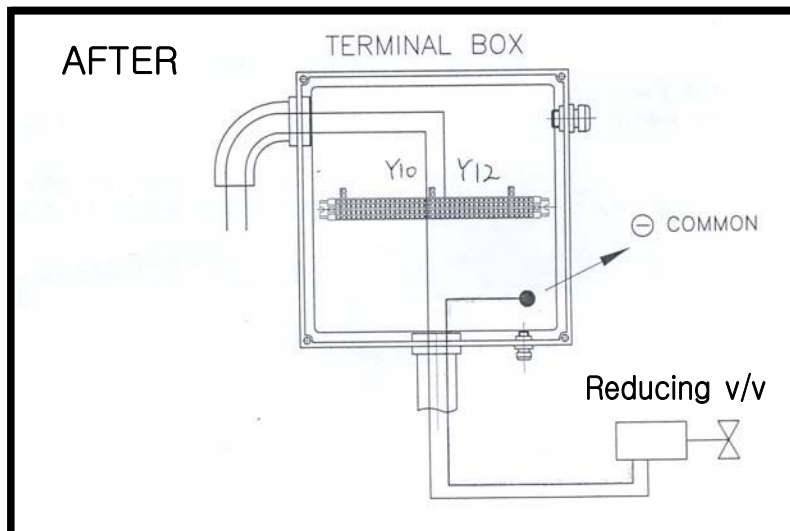
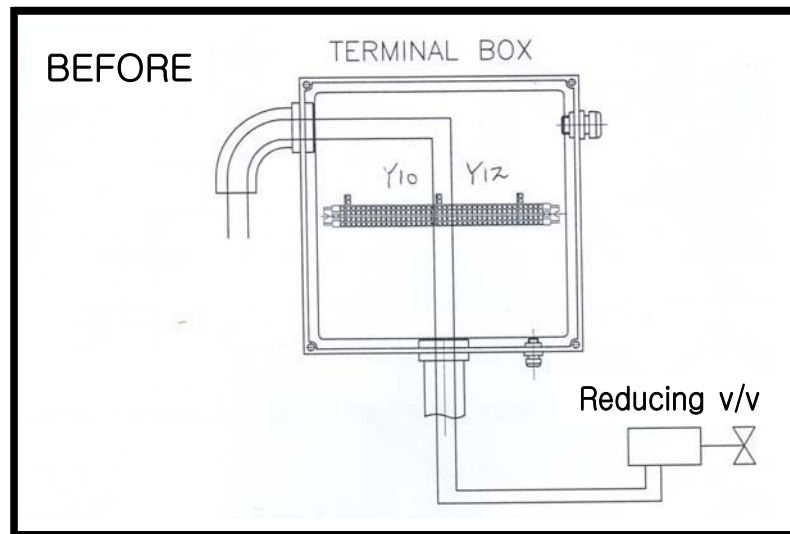
- HBC volume control : volume \oplus \rightarrow X19, volume \ominus \rightarrow GROUND
- Hetric volume control : volume \oplus \rightarrow X19, volume \ominus \rightarrow X21
- Wiring change drawing



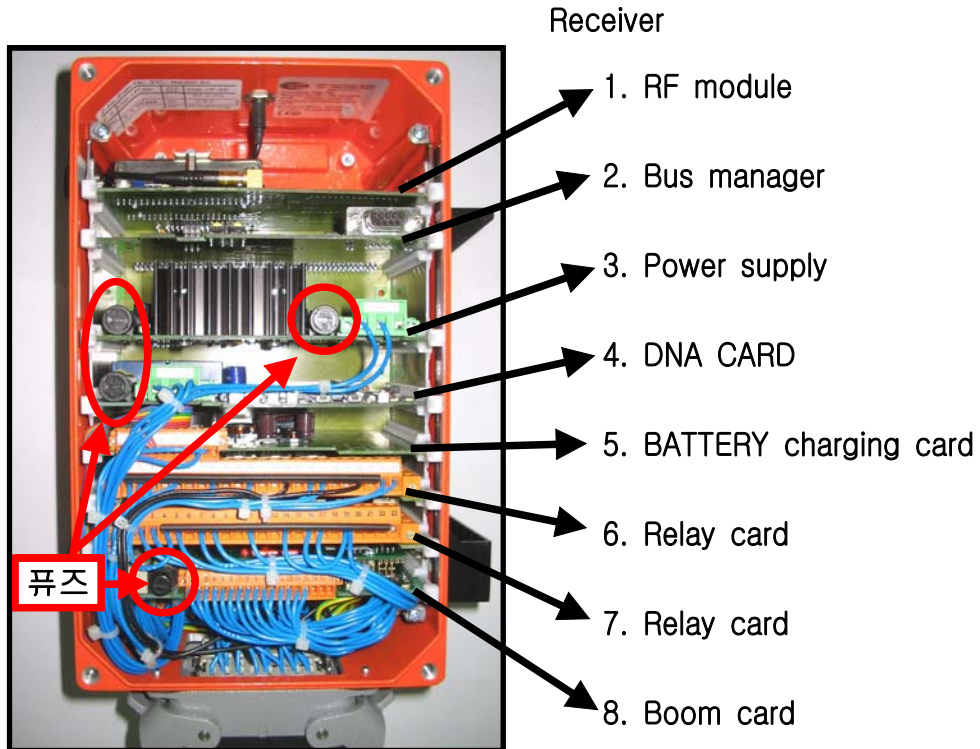
■ Volume control wiring change(April 2004)

As the main board of HETRONIC receiver had been changed to different type, volume control wiring has changed as below.

- Volume \ominus (decreasing volume) is connected to the ground in terminal box.



■ HBC Receiver



■ Amperage setting(boom speed, output volume)



- Using TTB battery
- Using the yellow button located on the bus manager of receiver
- Using the programming button next to the transmitter

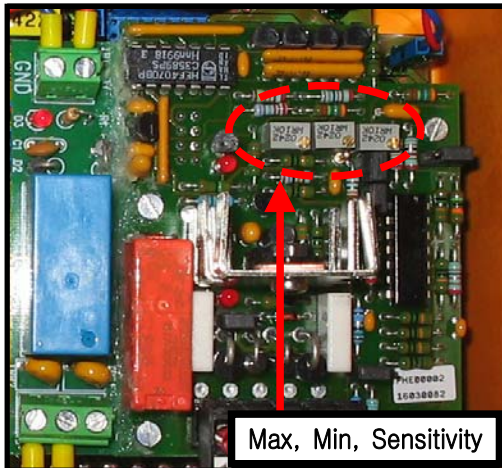
■ HETRONIC receiver



- K1 – START
- K2 – HORN
- K3 – MOTOR-ENGINE START
- K4 – MOTOR-ENGINE STOP
- K5 – RPM ⊖
- K6 – RPM ⊕
- K7 – BACK PUMPING
- K8 – PUMPING
- K9 – OUTRIGGER
- K10 – HORN
- K11 – EMERGENCY STOP
- K12 – SPARE

■ Amperage setting of output volume

Receiver board

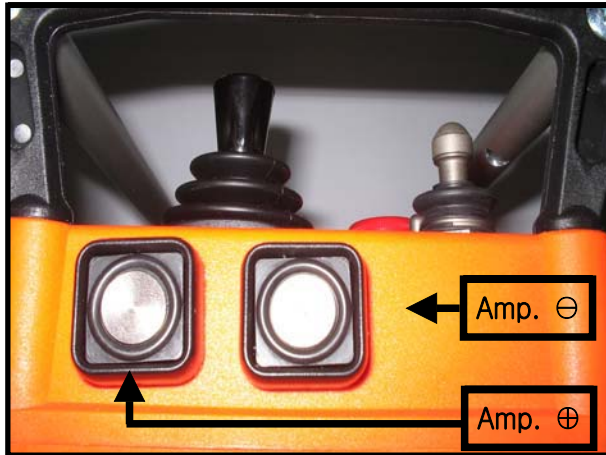


Transmitter



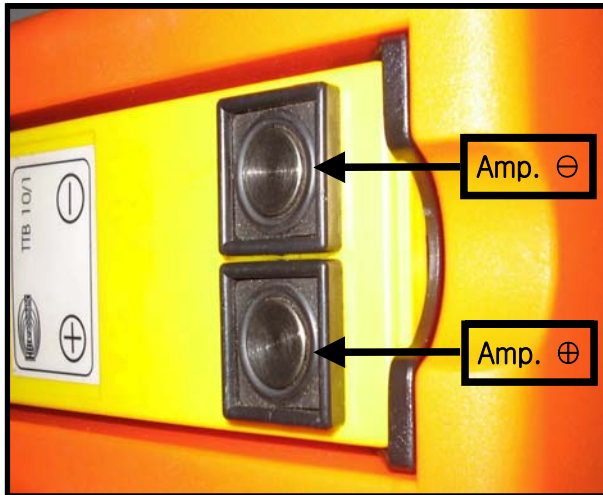
- The amperage for the volume control reducing valve can be adjusted using the set screw on the receiver board.

■ Adjusting the amp. using the transmitter(HBC)



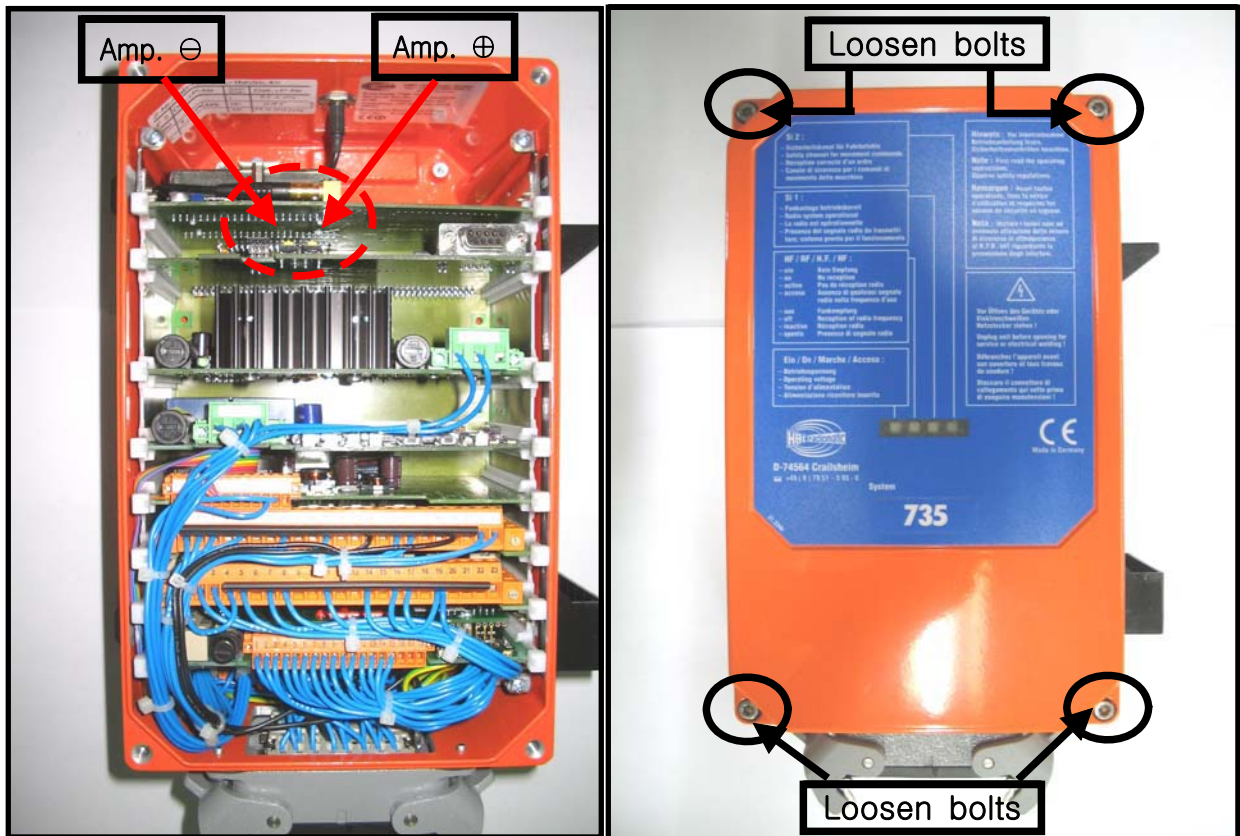
- Turn the radio remote transmitter off.
- Turn the transmitter back on holding the 2 of buttons, then the battery lamp twinkles faster than normal. (ready to be programmed)
- Set the amp. of main boom control block. (outrigger / boom selection lever) Check that the lever can be moved to its max. stroke. Set the each boom section block in the same way.
- Pushing Amp. ⊕ button increases the boom speed operating the boom. On the other hand, pushing Amp. ⊖ button decreases the boom speed.
- Turn the transmitter off after finishing programming.
- Turn the transmitter back on.

■ Adjusting the amp. using TTB battery



- Turn the transmitter off and insert TTB battery in it..
- Turn the transmitter back on holding the 2 of buttons, then the battery lamp twinkles faster than normal. (ready to be programmed)
- Set the amp. of main boom control block. (outrigger / boom selection lever) Check that the lever can be moved to its max. stroke. Set the each boom section block in the same way.
- Pushing Amp. ⊕ button increases the boom speed operating the boom. On the other hand, pushing Amp. ⊖ button decreases the boom speed.
- Turn the transmitter off after finishing programming.
- Turn the transmitter back on.

■ Adjusting the amp. using bus manager of receiver(HBC)



- Turn the transmitter on.
- Opening the cover of the receiver, 2 of yellow buttons are found as the picture above.
- Set the amp. of main boom control block. (outrigger / boom selection lever) Check that the lever can be moved to its max. stroke. Set the each boom section block in the same way.
- Pushing Amp. ⊕ button increases the boom speed operating the boom. On the other hand, pushing Amp. ⊖ button decreases the boom speed.
- Turn the transmitter off, then back on.

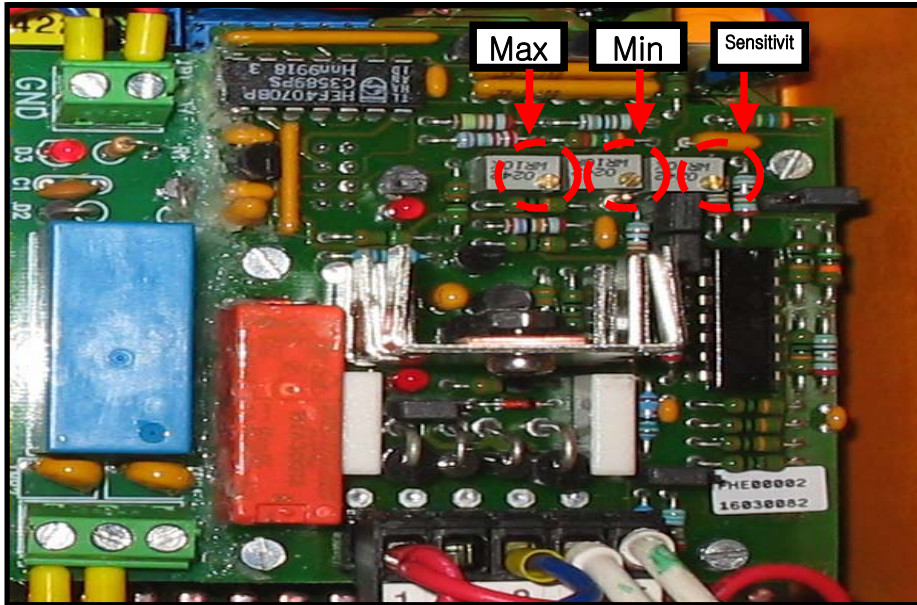
■ Adjusting the amp. using the transmitter(HETRONIC)

- Make sure that the volume control knob has to be turned off("Click" sound) when programming.



- ① Engage P.T.O and set the machine up.
- ② Remove the black key and insert the red key in it for programming.
- ③ Turn the transmitter on by turning the red key about 90° .
- ④ A buzzer responds for 3 seconds.
- ⑤ Turn the red key about 90° additionally for programming and push the START/HORN button.
- ⑥ Pushing RPM ⊕ button increases the boom speed operating the boom. On the other hand, pushing RPM ⊖ button decreases the boom speed.
- ⑦ Turn the transmitter off, then back on.

■ Adjusting the amp. using bus manager(HETRONIC)



- Turn the transmitter on.
- Opening the cover of receiver, 3 of setting screw are found as the picture above.
- Set the proper amperage using tester at max. and min. finally set the sensitivity of the amp. control.
- ※ Checking the amp. value with tester

