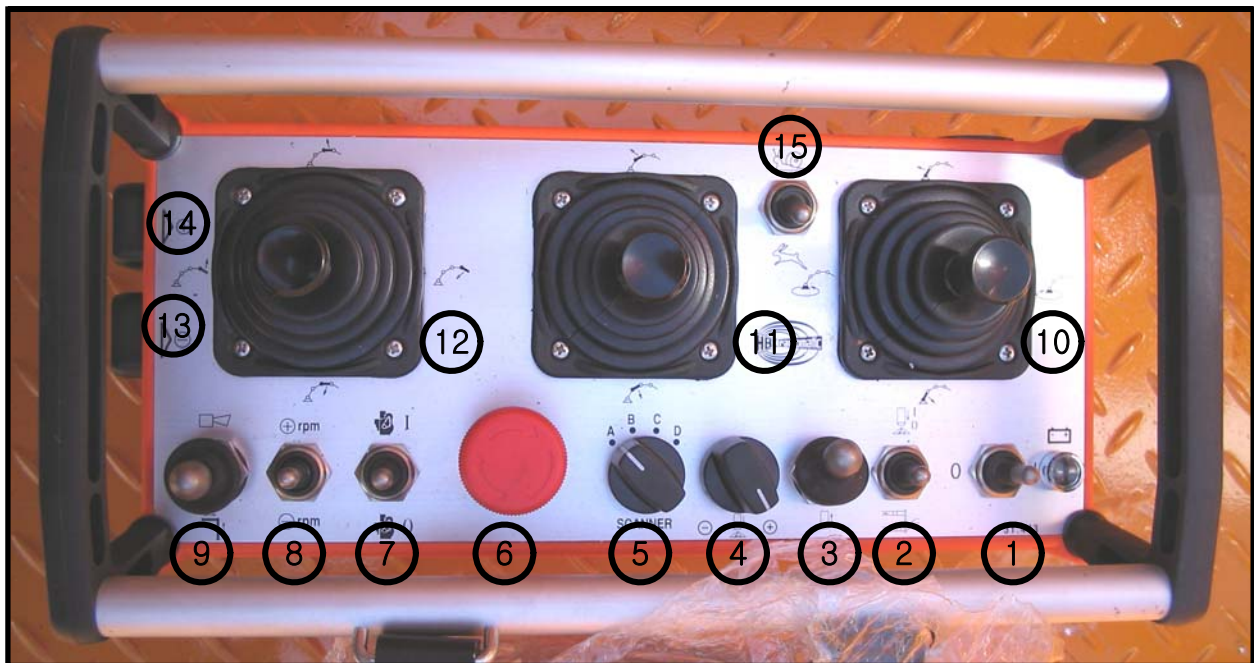


JUNJIN CONCRETE PUMP SERVICE INFORMATION



JSI - EN - 05 - 1C - 001		Date	Feb 1st, 2005
Total Pages	5	Present Page	1
Written by	IL KYU, AN	Approved by	IN JAE, HWANG
Subject	HBC radio-remote control system		

■ HBC Transmitter(4-section boom)



■ Function of each component

① Main power switch

This switch supplies the main power to the transmitter when it is on.

(0 = "OFF" , 1 = "ON")

The yellow light twinkles twice a second. In case of low battery, the red light twinkles twice a second.

② Pumping switch

Push over the switch to start concrete pumping, and do the same for stop pumping.

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③ Reverse pumping switch

Pull and down the switch for reverse pumping, and switch the pumping switch. This switch can not be engaged without pulling for safety.

④ Output volume rotary controller

⊖ : Reducing the output volume

⊕ : Increasing the output volume

※ Amperage range of output volume control valve(reducing valve)

Old type(RB431, 24V) : 0~300 mA

New type(RB922, 24V) : 0~800 mA

⑤ Frequency select knob

4 frequencies on the frequency band have been assigned to this radio remote control(735, 760 model) As soon as you turn the transmitter off, the link between the transmitter and receiver is broken. Select another band and turn the transmitter back on. At a big job site, use of walkie-talkies might interfere the frequency of the radio remote control.

⑥ E-stop switch(Emergency shut-down)

As soon as the switch is engaged, revolution of engine is automatically decreased and the operator is not allowed to operate the pump at all. You may only start the pump up again as described below.

- Release the E-stop button by turning it.
- Switch the transmitter off and back on again.
- Press the horn switch.

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⑦ Engine On-Off switch

Engine On-Off function can be done with this switch of the transmitter. Before switching the engine off, stop pumping and decrease the RPM to the idle RPM(800 RPM). Be careful not to damage the start motor of chassis when the operator starts the engine with the transmitter. Do not hold the switch more than 10 seconds.

⑧ RPM control switch

⊖ rpm : Decreasing the RPM(minimum 800 RPM, idle RPM)

⊕ rpm : Increasing the RPM(maximum 1500 - 1950 RPM)

The max. RPM of pump depends on the ratio of PTO gear box.

※ Switch the horn first before RPM up or down.

⑨ Boom / Outrigger selection switch(Horn switch)

Outrigger operation mode - Pull and down the switch

Boom operation mode - Normal position

Horn - Push over the switch at normal position

⑩ Rotary controller for main section

○ Main section boom control (up and down)

○ Main section slewing control (left and right)

○ Make sure that 2nd, 3rd and 4th boom is fully folded before lifting the main section.

⑪ Rotary controller for 2nd section

○ 2nd section boom control (up and down)

⑫ Rotary controller for 3rd and 4th section.

○ 3rd section boom control (up and down)

○ 4th section boom control (right and left)

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⑬, ⑭ Programming button for boom speed

These programming buttons do not work at normal condition. To set the customer's own speed for each boom section, refer to following procedures.

- Turn the transmitter off and turn the transmitter back on with holding both programming buttons. The yellow light flashes as twice as normal.
- Set the each boom speed using ⊕, ⊖ buttons with operating the each boom.(⊕ : speed up, ⊖ : speed down)
- Turn the transmitter off for memory and turn it back on.

⑮ Hare / Snail switch for boom speed

"Hare" mode is about twice faster than "snail" mode.(Factory setting)

■ HBC Transmitter(5-section boom)



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※ Major differences from 4-section boom transmitter

⑪ Rotary controller for 2nd, 3rd section

- 2nd boom control (up and down)
- 3rd boom control (right and left)

⑫ Rotary controller for 4th, 5th section

- 4th boom control (right and left)
- 5th boom control (up and down)

⑬ Unlock button for the air-hook on 4th section

- Open the air-hook with this button before unfolding the 4th section.

⑭ Unlock button for the air-hook on 2nd section

- Open the air-hook with this button before unfolding the 2nd section.
- Check the air-hook not to damage on the pipe.
- The operator can do the same function manually with the ball valves installed on the passenger side.
- Air-hook keeps open unless the ball valve is closed.

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Subject	Hetricon radio-remote control system		



■ Function of each component

① Main power switch

This switch supplies the main power to the transmitter when it is on.
(0 = "OFF" , I = "ON")

② Reverse pumping switch

Turn the switch down for reverse pumping, and switch the pumping switch.

③ Pumping & horn switch

- Push over the switch to start concrete pumping, and do the same for stop pumping.
- Push down the switch for horn.

JUNJIN CONCRETE PUMP

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JSI - EN - 05 - 1C - 002		Date	Feb 1st, 2005
Total Pages	3	Present Page	2
Written by	IL KYU, AN	Approved by	IN JAE, HWANG
Subject	Hetric radio-remote control system		

④ Engine On-Off switch

Engine On-Off function can be done with this switch of the transmitter. Before switching the engine off, stop pumping and decrease the RPM to the idle RPM(800 RPM). Be careful not to damage the start motor of chassis when the operator starts the engine with the transmitter. Do not hold the switch more than 10 seconds.

⑤ RPM control switch

⊖ rpm : Decreasing the RPM(minimum 800 RPM, idle RPM)

⊕ rpm : Increasing the RPM(maximum 1500 - 1950 RPM)

The max. RPM of pump depends on the ratio of PTO gear box.

※ Switch the horn first before RPM up or down.

⑥ Output volume rotary controller

⊖(0) : Reducing the output volume

⊕(15) : Increasing the output volume

※ Amperage range of output volume control valve(reducing valve)

Old type(RB431, 24V) : 0~300 mA

New type(RB922, 24V) : 0~800 mA

⑦ E-stop switch(Emergency shut-down)

As soon as the switch is engaged, revolution of engine is automatically decreased and the operator is not allowed to operate the pump at all. You may only start the pump up again as described below.

- Release the E-stop button by turning it.

- Switch the transmitter off and back on again.

- Press the horn switch.

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Subject	Hetriconic radio-remote control system		

⑧ Lamp for battery remains

The yellow light twinkles twice a second. In case of low battery, the red light twinkles twice a second.

■ Standard supplies for Hetriconic controller



- Receiver, Transmitter, 2 of batteries, Battery charger, Antenna

■ Charging battery

- Charging battery

The battery charging-kit can be plugged to the power supply of the truck.

- The battery can be used maximum 15 hours straight depending on the age.