

Quantum Radio Slave 4i

Operating Instructions



This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC ID CEX8EH-505S
FCC ID CEX8EH-505R

Adendum: The Sender's Local switch must be ON for the Remote's Status LED to light after receiving a signal from the Sender.

If the Local switch is OFF, Radio Slave 4i will still operate but the Status LED will not function.

New Features of the Radio Slave 4i:

Battery life increased by 5 times

Remote unit:

400 hours (alkaline AA's), and 800 hours (lithium AA's)

Sender unit:

1-2 years.

Look, no antenna

Remote operates to 200' (60m) with the antenna down!

Longer Range

With the antenna extended (only 9", 23cm)

range increases to 350' (110m)!

Faster sync speeds

Radio Slave already allows you to use up to 1/250 (focal plane) or 1/500 (leaf) shutter speeds. Now, with the RS4i you can double those sync speeds with newer high speed synchronized cameras!

Mounting foot with hot shoe contacts

The Sender unit mounts directly onto a hot shoe and syncs without PC wires! For cameras without hot shoes, you can mount the Sender on a bracket using a dead shoe, or in a variety of other ways.

Due to the Radio Slave design, interference with its operation is highly unlikely.

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Mounting Foot with Hot Shoe Contacts

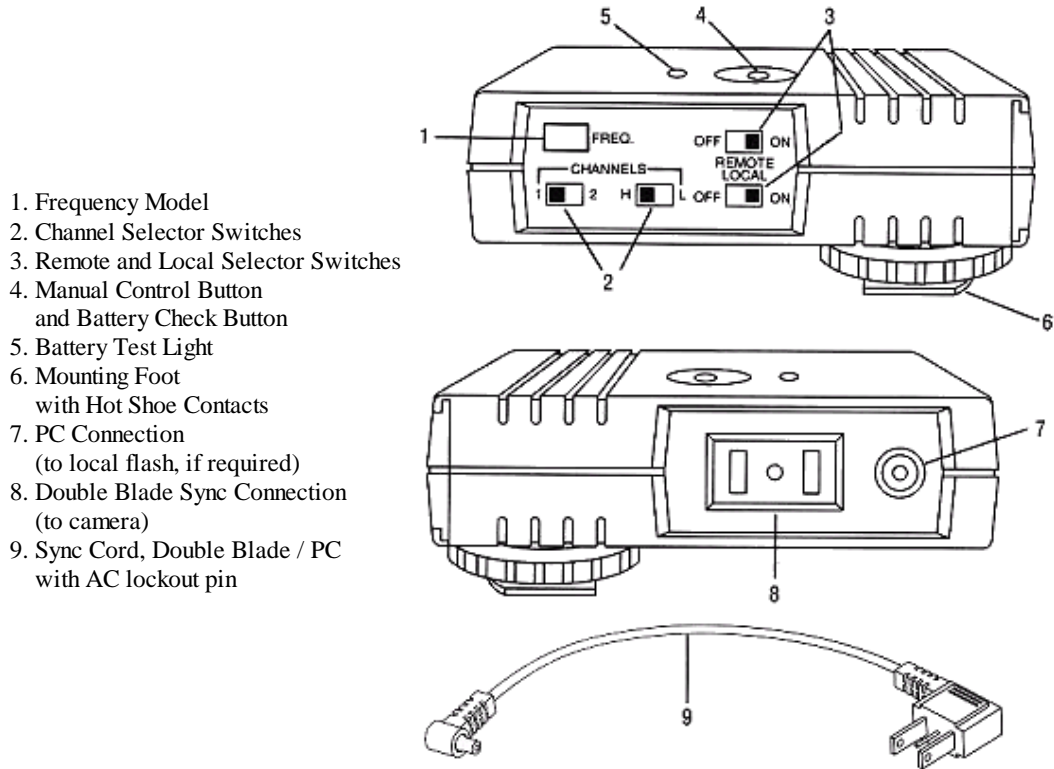
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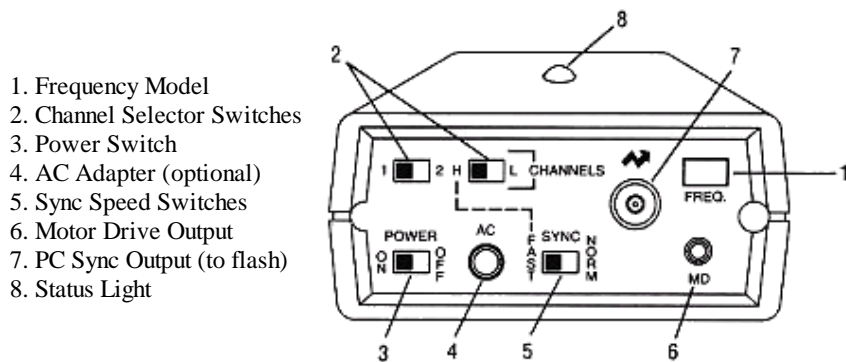
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SENDER: FEATURES AND CONTROLS



- 1. Frequency Model
- 2. Channel Selector Switches
- 3. Remote and Local Selector Switches
- 4. Manual Control Button and Battery Check Button
- 5. Battery Test Light
- 6. Mounting Foot with Hot Shoe Contacts
- 7. PC Connection (to local flash, if required)
- 8. Double Blade Sync Connection (to camera)
- 9. Sync Cord, Double Blade / PC with AC lockout pin

REMOTE: FEATURES AND CONTROLS



- 1. Frequency Model
- 2. Channel Selector Switches
- 3. Power Switch
- 4. AC Adapter (optional)
- 5. Sync Speed Switches
- 6. Motor Drive Output
- 7. PC Sync Output (to flash)
- 8. Status Light

GENERAL INFORMATION

Frequency: A or B or C or D

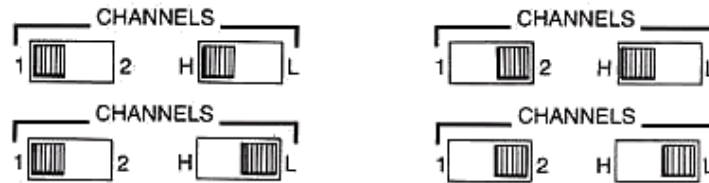
The Radio Slave 4i is available in 4 different frequencies. The Sender and Remote must be the same frequency for the system to operate.

The frequency is indicated on the control panel of both the Sender and Remote.

One Sender will trigger as many Remotes as required provided they are all the same frequency. When ordering extras be sure to indicate the frequency required for your system.

Channels

Four channel options are available with the Radio Slave 4i System. The Sender and Remote must be set to the same channel for the system to operate. Channels 1H, 2H, 1L, and 2L. Channel options shown below.



All channels will allow the use of shutter speeds up to 250th second for focal plane and a 500th second for leaf shutters. However, the shutter speed used cannot exceed your camera's maximum flash sync speed. Consult the camera's manual.

New High Speed Sync

Radio Slave 4i can sync twice as fast on channels 1H and 2H. This is useful for fast moving subjects, or for faster shutter sync speeds (for cameras that allow it).

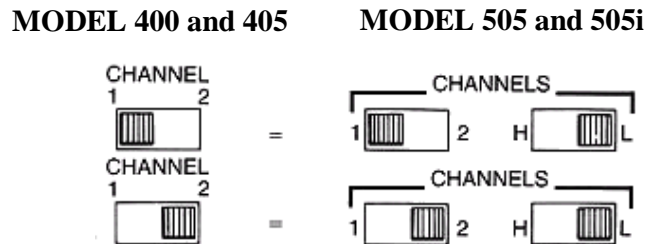
Set the "SYNC" switch to "FAST" to enable the high speed sync. You will notice the channel selector will move to the "H" channel (1H or 2H). Setting the SYNC to NORM allows you to select any of the four channels.

The FAST sync can only be used in conjunction with RS4/RS4i Sender units (models 505S or 505Si).

Technical note: The maximum delay time for NORM sync is 500 micro-seconds (1/2000). The maximum delay time for FAST sync is 250 micro-seconds (1/4000).

For Owners of Radio Slave Models 400 and 405

Radio Slave 4/4i Models 505/505i are compatible with older Radio Slave Models 400/405. When using either Model 400 or 405 with Radio Slave 4/4i Models, set the channels as shown below.



Accessories included with the Sender and Remote

Included with 505i Sender:

Sync Cord, double blade/pc with AC lockout pin (model #539)

Belt Clip (model #538)

Dead Shoe, with screw (for bracket mounting) (model #512)

Velcro™

Mounting Plate

Included with 505i Remote:

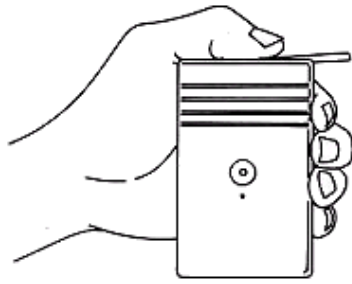
Mounting Foot / 2 mounting screws

Pole Mount, 2 piece extended range 3/8" to 1-3/4" / 2 mounting screws

Velcro™

SENDER:

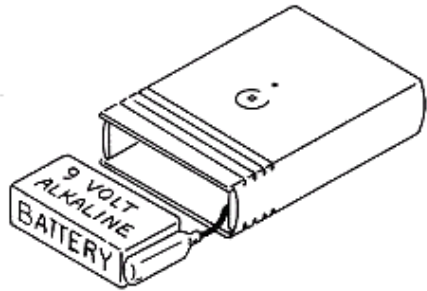
Installing the Battery



Hold the Sender firmly in your hand.

Press down on the center of the battery door.

Slide the battery door off.

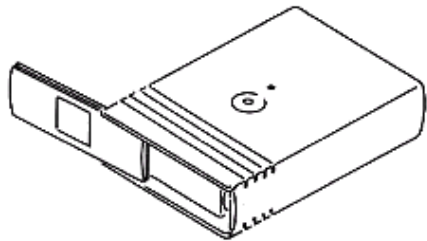


Snap the battery contact onto a 9 volt alkaline battery.

Use caution when handling the battery contact so as not to stress the battery wires.

Use only alkaline batteries.
(Standard carbon/zinc or "heavy-duty" batteries will give poor performance and short battery life).




Do not use rechargeable batteries in the Sender.

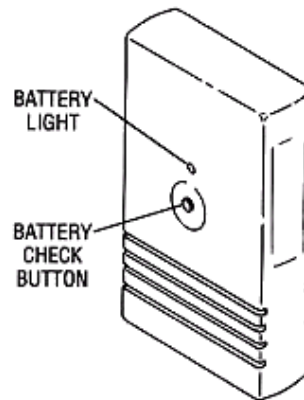


Place the battery inside the battery compartment carefully tucking the wires out of the way.

Battery Check

To check the battery capacity, press the Battery Check Button.
The battery light will display the following:

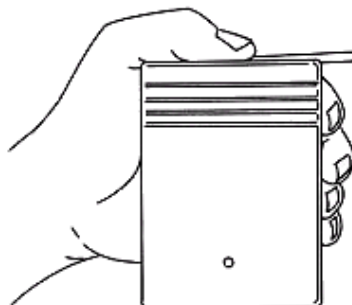
-  BRIGHT LIGHT - GOOD BATTERY
-  DIM LIGHT - REPLACE BATTERY
-  NO LIGHT - REPLACE BATTERY



Battery life will be approximately one to two years with normal use.

REMOTE:

Installing the Batteries



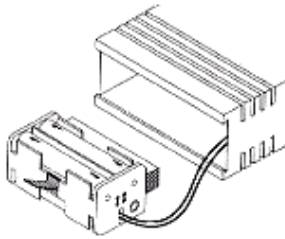
Set the Power Switch to OFF.

Hold the Remote firmly in your hand.

Press down on the center of the battery door.

Slide the battery door off.

Place 4 batteries into the battery holder. Battery life will vary depending upon use and type of battery. Approximate duration shown below:



Alkaline 1.5 volt AA cells: 400 hours

Lithium 1.5 volt AA cells: 800 hours

Do not use carbon/zinc cells. They will give poor performance and short battery life.

Place battery holder inside the battery compartment with pull tab facing outward, carefully tucking the wires out of the way.

Slide the battery door into place.

Status Light

The Status Light works only when the Power Switch is turned ON.

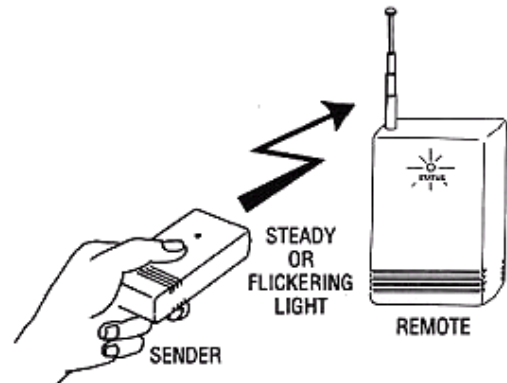
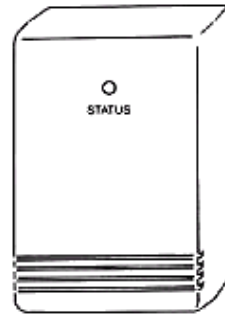
Power ON - Status Light blinks approximately once every five seconds.

Low Battery - Status Light blinks rapidly, (approximately 2 times per second). Replace batteries.

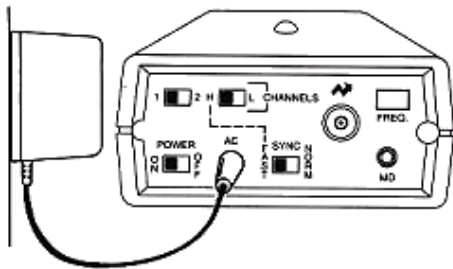
Auto Shut Down - When the Status Light does not light the batteries are too weak to operate the unit.

Reset after replacing the batteries. Turn the power switch off for 2 seconds and then turn it on.

The Status Light will light when receiving a radio signal from the sender.



AC OPERATION



AC (mains) operation using 515 adapter

Use only the 515 ADAPTER (purchased separately) for the 120 volt AC operation of the Remote unit.

When using an adapter the batteries are disconnected and the Remote unit operates on the power from the adapter.

Nicads: The Adapter will not charge Nicad batteries. Nicads can be charged separately, outside the unit, with any standard nicad charger. Nicads will give much shorter battery life and are not recommended as a first choice for the Remote unit. Nicads are not recommended at all for the Sender unit.

MOUNTING HARDWARE

Velcro™ - Sender and Remote

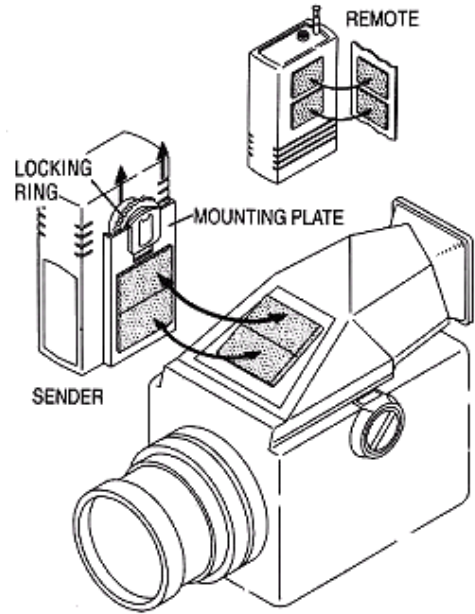
The Sender and Remote can both be mounted with Velcro. Always apply Velcro to a clean dry surface - allow 24 hours for maximum adhesion.

Remote - Apply Velcro to the back of the case and to the mounting surface.

Sender - The Sender can be Velcro mounted to a camera or bracket by using the Mounting Plate (enclosed).

Slide the Mounting Plate onto the Sender's mounting foot - secure with the locking ring.

Apply Velcro to both the camera (or bracket) and the Mounting Plate.

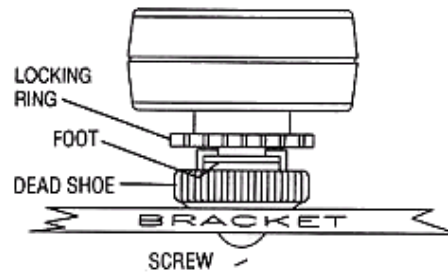


Sender: Dead Shoe for Bracket Mounting

Secure the Dead Shoe to the bracket, with the slotted screw provided.

Slide the Sender's Foot onto the Dead Shoe.

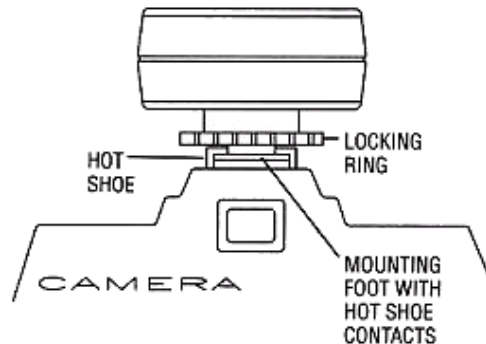
Turn the Locking Ring to secure the Sender to the shoe.



Sender: Mounting Foot with Hot Shoe Contacts

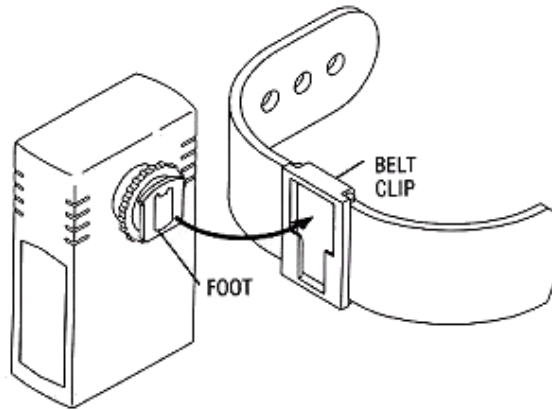
Slide the Sender's Mounting Foot into the camera's hot shoe.

Turn the Locking Ring to secure the Sender to the camera.



Sender: Belt Clip Mounting

Slide the Belt Clip onto your belt (as shown).
Place the Sender's foot into the slot in the belt clip.
Let the Sender's foot slide down into the clip.
Secure by turning the locking ring.



Remote: Mounting Foot for Camera and Bracket

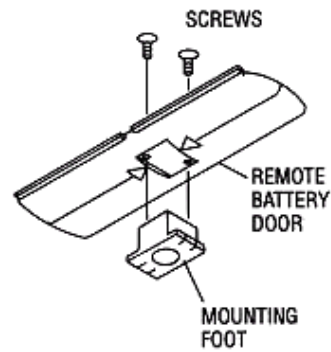
The Mounting Foot can be positioned on the battery door only one way.

Place the Mounting Foot on the battery door.

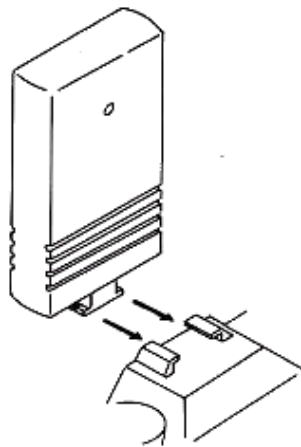
Line up 2 of the 4 holes in the Foot with the 2 holes in the battery door.

Fasten the Mounting Foot to the battery door with 2 of the screws provided in the accessory package.
Fasten, but **do not overtighten**.

Place the battery door onto the unit.

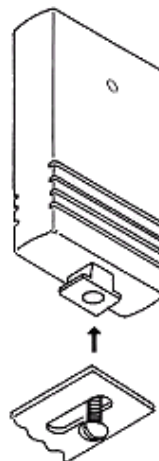


The Remote can now be mounted directly onto the camera.

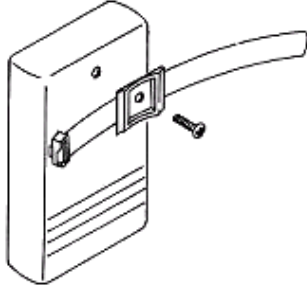


The Remote can also be bracket mounted.

Fasten the bracket screw securely to the Mounting Foot.

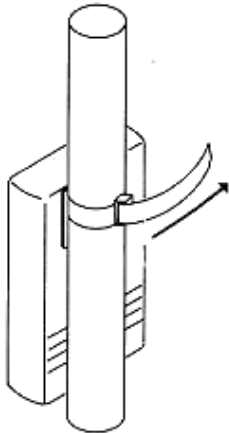


Remote: Pole Mount Adapter



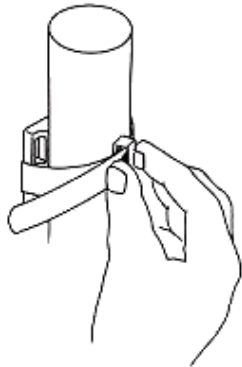
Included in the accessory package are 2 Pole Mounts and a screw for mounting. Each Pole Mount fits a different size pole, one mount fits poles 3/8" to 1-1/8" the other 1" to 1-3/4". Select the correct mount required for the size pole being used.

Fasten the Pole Mount to the back of the Remote using the screw provided.



Fasten the strap securely around the pole by pulling the strap back.

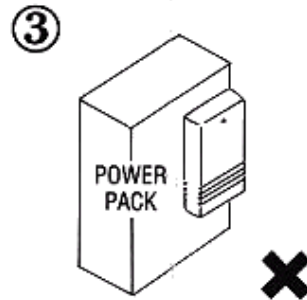
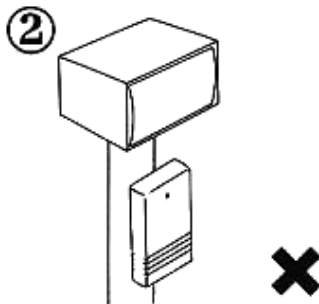
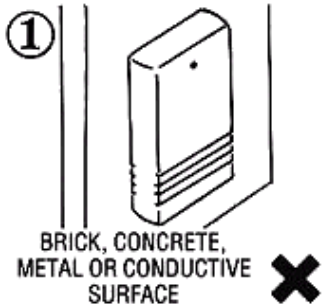
Note: To prevent sliding, wrap a piece of tape around the pole just below the pole mount.

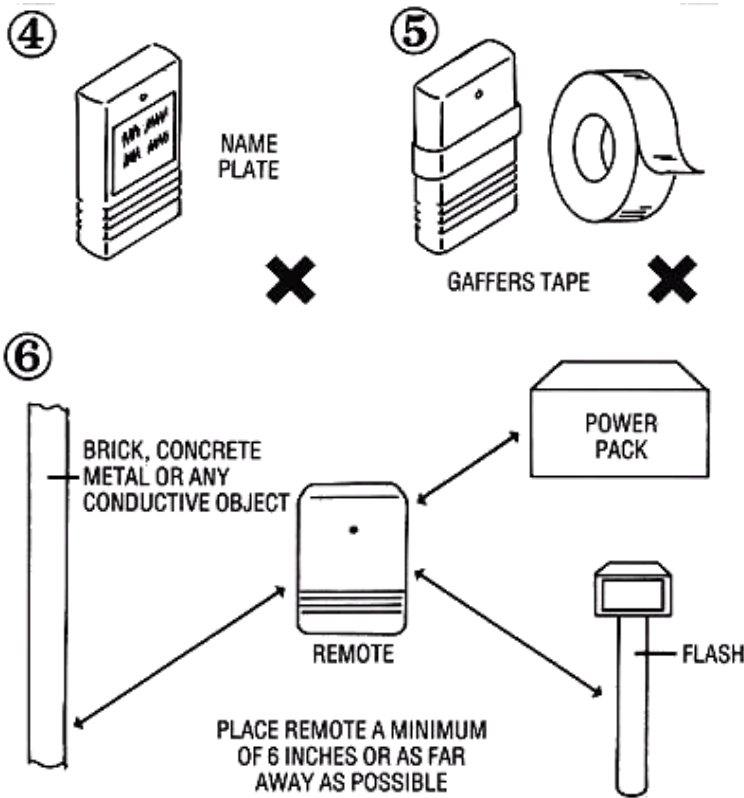


Release the strap by pinching the two tabs on the Pole Mount and sliding the strap out.

A Pole Mount Kit (model 510), with a three piece extended range, is available for sizes 3/8" to 2-1/4".

DO'S AND DON'T'S





1. DO NOT mount the remote on brick, concrete, metal, or any conductive surface. This will affect the range of the Remote.

2. & 3. DO NOT mount the Remote to a flash or Power Pack. This could cause the Remote to malfunction.

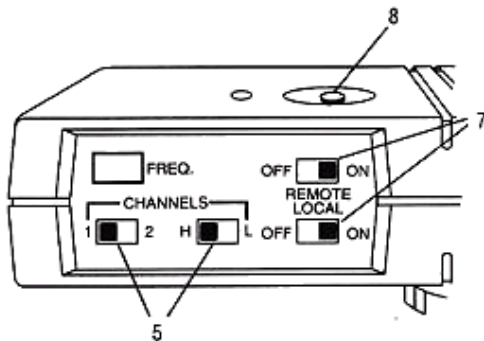
4. DO NOT place anything such as a nameplate on the front surface of either the Remote or Sender. This will cause the unit to malfunction.

5. DO NOT use any type of "Gaffers" tape that may contain aluminum on either the Remote or Sender. This will cause the unit to malfunction.

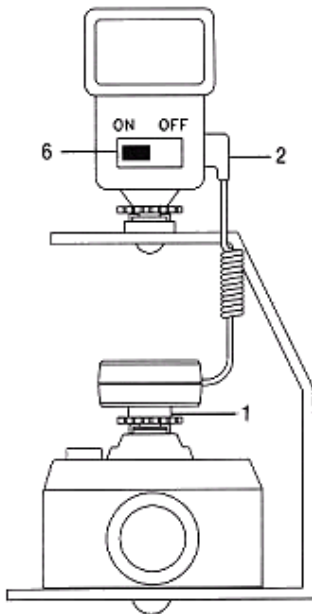
6. DO place the Remote a minimum of 6 inches (15cm) or as far away as possible from any conductive objects, power packs, or flashes.

FLASH SYNC SYSTEM

Sender

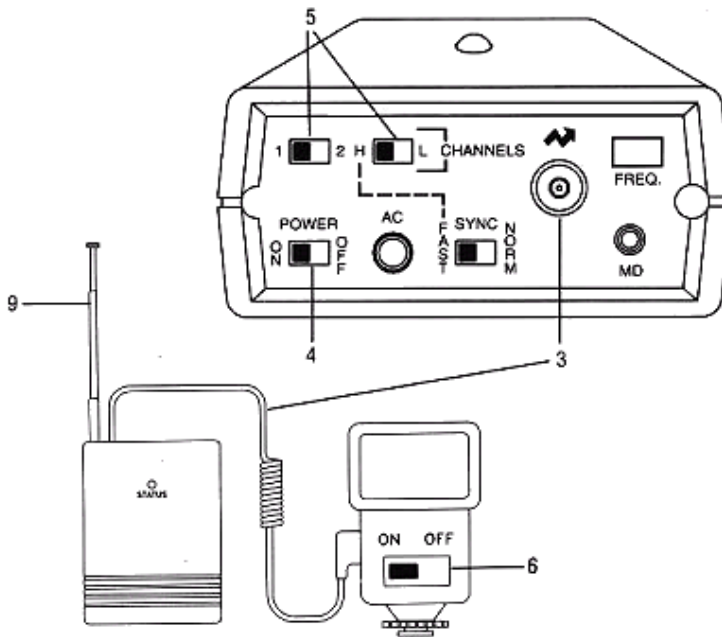


Sender



1. Connect the Sender to the Camera.
 - a. If a sync connection is required, use the supplied Sync Cord #539 .
 - b. If the Sender can be mounted on the camera's hot shoe, no sync cord is required.
 - c. Sometimes it is possible to increase Radio Slave's range by connecting Sync Cord #539 to the Sender, even when it is not required to be connected to the camera (as in b above).
2. Connect the local flash (optional) to the PC Output on the Sender using the sync cord from the flash.
3. Connect the remote flash to the PC Output on the Remote using the Sync cord from the flash.
4. Turn the Remote Power Switch to ON.

Remote



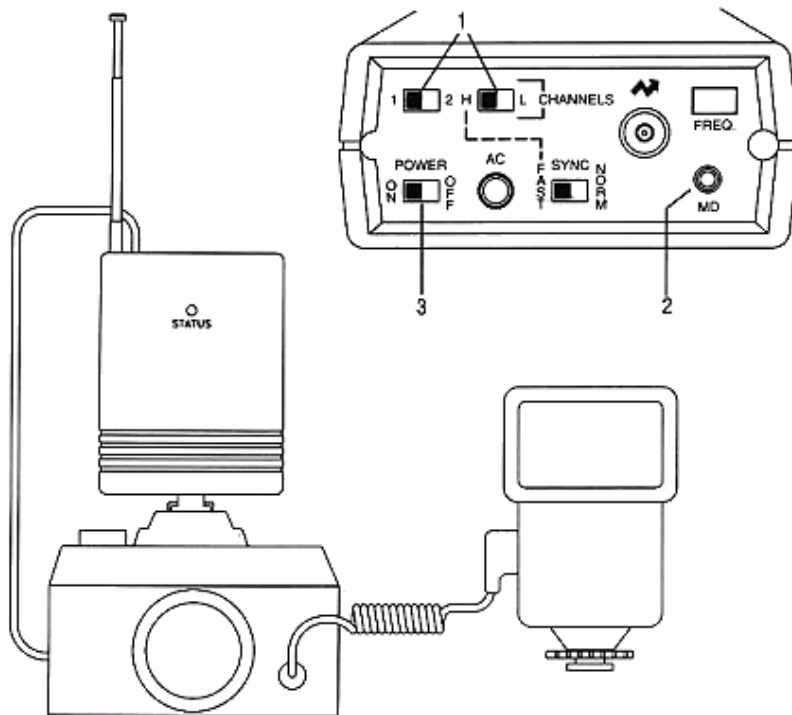
5. Set the Sender and Remote to the same Channels. For Fast sync, select only channels 1H or 2H.
6. Turn local and remote flashes on.
7. On the Sender, set the Local and Remote Switches to the ON position depending upon the flash or flashes required.

8. Check the range and operation by pressing the Manual Control Button on the Sender.

9. Pull up the antenna to increase the range if necessary.

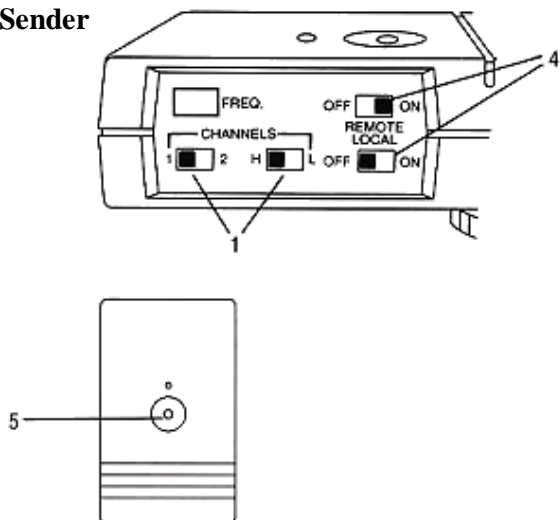
MOTOR DRIVE TRIPPING SYSTEM

Remote



1. Set Sender and Remote to the same Channels.
2. Using the Motor Drive Cord (purchased separately) selected for your camera, connect the camera's motor drive to the MD (Motor Drive) Socket on the Remote.
3. Turn the Power Switch on the Remote to ON.
4. Turn the Remote Switch located on the Sender to ON and turn the Local Switch to OFF.
5. Pressing the Manual Control Button on the Sender will trigger the camera to shoot.

Sender



MOTOR DRIVES WITH CONTINUOUS POSITION:

If this mode is selected the camera will continue to fire for as long as the Manual Control Button is pressed.

USING WITH A FLASH:

For proper synchronization the flash or flashes must be connected directly to the camera.

RANGE:

Nominal range, depending upon surroundings, is up to 200 feet (60m).

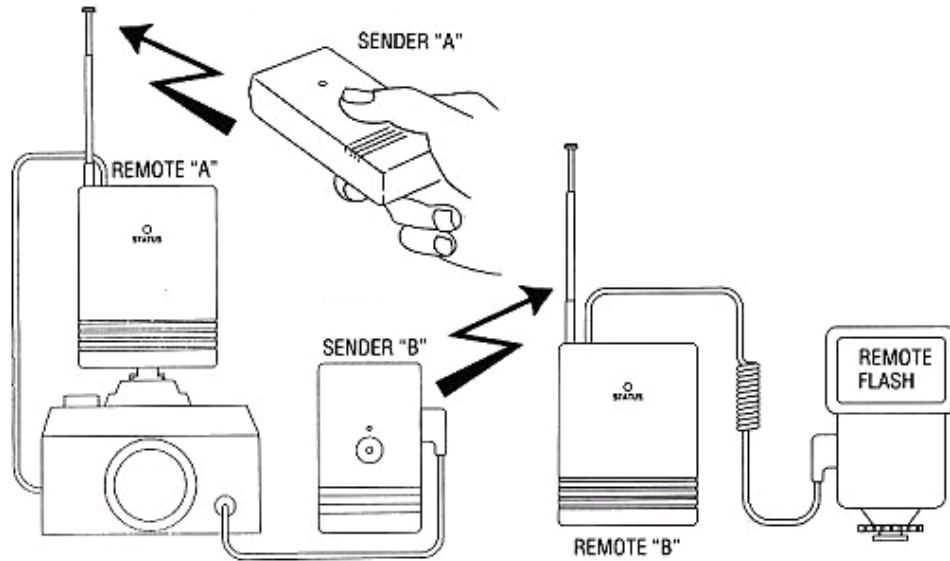
Maximum line of sight range is 350 feet (110m) with antenna up.

REMOTE FLASH AND MOTOR DRIVE

Two Radio Slave systems are required.

The systems may be the same or of different frequencies.

The two systems are shown here as Remote "A" / Sender "A" and Remote "B" / Sender "B".



Set up Remote "A" and Sender "A" as described in the Motor Drive Tripping System (see above).

Connect Sender "B" to the camera using the (double blade) Sync Cord.

Optional local flash may be connected to Sender "B" using the sync cord from the flash.

Connect Remote "B" to the flash using the Sync Cord from the flash.

Set Sender / Remote "A" to a different channel than Sender / Remote "B".

TROUBLESHOOTING GUIDE

Symptom	Refer to Note(s) (below):
Remote will not fire remote flash, status light does not light.	A,C,E,F,G,K,L,M,U,W,Y
Sender will not fire local flash.	A,B,C,H,J,L,M,V
Will not fire remote and / or local flash.	A,B,C,E,F,G,H,J,L,M,V
Remote flash, only, fires intermittently.	B,D,E,L,M,N,O,U,W,Y
Local flash, only, fires intermittently.	B,C,E,J,L,M
Both flashes fire intermittently.	B,C,E,J,L,M
Local flash fires by itself.	B,C,E,J,L,M
Remote flash fires by itself.	B,C,D,E,L,M,O,Q,R,W
All works but range is poor.	O,W

Remote status light is blinking fast.	A
Remote does not fire flash, status light does light steadily.	B,D,M
Sender always transmitting.	C
Does not work on AC.	N
Motor drive doesn't work, status light lights steadily.	E,T

NOTES

A	Bad Battery or Batteries.
B	Connecting cord between flash and Remote defective.
C	Connecting cord between Sender and camera defective.
D	Flash not on, defective, or flash power source needs to be replaced.
E	Battery making poor connection or loose.
F	Sender and Remote not set to same channel or not the same frequency.
G	Remote switch not on.
H	Local switch not on.
J	Connecting cord between Sender and flash defective.
K	Remote power switch not on.
L	PC connector on camera defective.
M	PC connector on connecting cord needs tightening. Be sure to bend center pin slightly off center.
N	AC adaptor (515) defective or wrong device, no voltage at outlet.
O	Metallic substance against top surface of Remote.
Q	Mounted on or too close to the flash - change its position.
R	Someone else is transmitting within range - try changing channel.
T	Defective motor drive cord.
U	Range between Remote and Sender too great.
V	Reverse household connector if so equipped.
W	Strong broadcast station or RF noise generating source nearby.
Y	Radio signal absorbing material (eg. brick, concrete, steel) separating Sender and Remote.

ADDITIONAL INSTRUCTIONS

p/n 458 - Minolta 7000 & 9000

p/n 459 - Canon T90, 620EOS

The enclosed cord will allow remote electronic shutter control of the camera. However, due to the camera manufacturer's design, the enclosed cord will work as theirs does -- the automatic focus and exposure systems WILL NOT FUNCTION. The focus and exposure settings must be MANUALLY set during remote/camera installation.

ATTENTION OWNERS OF HASSELBLAD CAMERAS WITH "C" SERIES LENS & QUICK FOCUSING HANDLE

Due to the unique design of some older model C-lenses, a standard sync cord may obstruct the quick focusing handle as it approaches the sync jack. Sometimes this problem can be corrected by adjusting the quick focusing handle in relation to the focusing ring. If no adjustment can be made, a special sync cord is

required. You may either exchange your standard cord or purchase the special type. In order to receive a free exchange, you must return your standard Quantum sync cord with this completed form. To purchase the special cord send \$15.00. Don't forget to check off which cord you require!

Name _____

Address _____

Model 470 for use with Radio Slave 2 / Hasselblad with "C" series lens.

Model 570 for use with Radio Slave 4 / Hasselblad with "C" series lens.

Method of payment (check one)

Free exchange. (My standard Radio Slave sync cord enclosed)

Check for \$15.00 enclosed. (New York residents add \$1.28 local sales tax)

Charge to:

Visa

Mastercard

Exp. Date ____/____

Account # _____

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