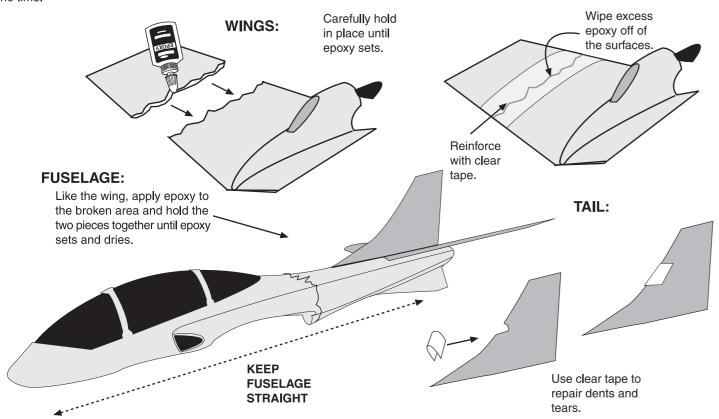
TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Motors will not turn on or operate	 Plane not charged Plane was not set to 'OFF' during charging Tx / Charger was not set to 'OFF' during charging Tx Battery power is drained Tx has been left 'ON' longer than 2 minutes Plane not turned 'ON' 	Charge plane for a complete charge cycle Set fuselage to the 'OFF' position prior to charging The Tx / Charger must be in the charge position (this would be the Tx 'OFF' position) Replace the Tx/Charger batteries after 4 30-minute charges Switch Tx 'OFF' then 'ON' Turn plane switch 'ON'
Plane is flying too high	Need to decrease power	Move the Motor Control Stick to middle position to reduce motor speed or release the Motor Control Stick
Plane is flying too low	Plane not fully charged The six 'AA' batteries in the Tx / Charger need to be replaced Need to increase power	Charge plane for a complete charge cycle Install new batteries Press the Motor Control Stick upward all the way
Plane will not turn	Tx / Charger is not turned 'ON' Tx / Charger antenna is not extended all the way. Flying in too strong of wind You have exceeded the 2 minute Flight Optimizer period	Set the Tx / Charger to the 'ON' position Fully extend the antenna prior to flying Do not fly in adverse wind conditions or wind in excess of 5 mph (8 kph) Turn Tx 'OFF' then 'ON' again

EASY REPAIRS YOU CAN DO YOURSELF

Plane parts are made of foam for impact strength and durability. Even so, some parts may break during a crash. Foam parts may easily be repaired using household tape and glue. Clear packing tape works well for most repairs, however, larger breaks may require glue and tape for best results. To make your own repairs, use 5 minute epoxy or household white glue (sold separately) and follow the steps below. While we don't recommend you crash your plane, sometimes it happens. Simple home repairs will get you back in the air and flying in



PLEASE DO NOT RETURN YOUR PLANE TO THE STORE - they are not trained to help you like Estes flight techs are! So... before you pack your plane away, visit our troubleshooting guide at www.estesrockets.com or give us a call at 1-800-525-7561.

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www.estesrockets.com ESTES-COX CORP. 1295 H Street Penrose, CO 81240 Printed in China

MWARNING: Choking/Cutting Hazard-small parts, sharp propeller. Not for children under 8 yrs.



Radio Control Model Airplane INSTRUCTIONS

KEEP FOR FUTURE REFERENCE



#4160

Order parts on-line at www.estesrockets.com, click on 'Estes Store' then 'R/C Plane Parts'. OR

Call Estes Customer Service at 1-800-525-7561

Monday - Friday, 8:00 am -4:00 pm Mountain Time.

Item # Description 061786 Wing Assembly Spare

Part Set*

061779 Fuselage w/Rx Spare Part Set*

061920 Propellers (2 per bag) 061794 Transmitter (Tx)/Charger Antenna & Antenna

'TAP' (push and

Read **Important**

before using.

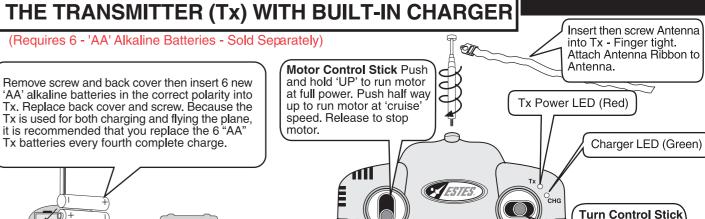
Flying Tips before

release) Left or Right to steer the plane during flight.

Ribbon

*Label sheets included with each spare part set.





BACK COVER SCREW

CAUTION: Do not mix old, new, or other battery types. Use only ALKALINE batteries in the Sky Cruisers®

IMPORTANT TIPS:

Switch 'ON' For flying. 'OFF' For charging.

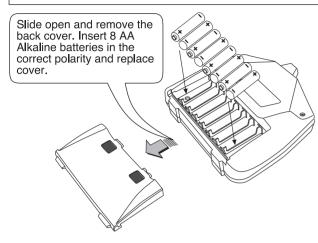
> This radio has been equipped with an auto shut-off circuit. Tx will automatically turn off Motor Control after 2 minutes of continuous flying. To reset the Motor Control, switch Tx 'OFF' then back 'ON'. See 'Flight Optimizer' page for more details.

transmitter/charger.

THE SPY SQUADRON™ CONTROLLER

(Requires 8 - AA Alkaline Batteries - Sold Separately)

CAUTION: Do not mix old, new or other battery types. Use only ALKALINE batteries. Remove batteries from unit when storing for long periods.



Video/Picture Taking Button See Camera Operation (page 6) before flying.

Attach Ribbon to Antenna and screw Antenna into controller.

Speed Control Stick

See Know Your Controller SPY-SQL ADRON (page 4) before flying.

ON/OFF **SWITCH** **Turn Control** Stick See Know

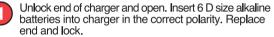
Your

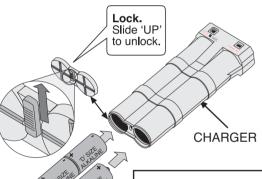
Controller

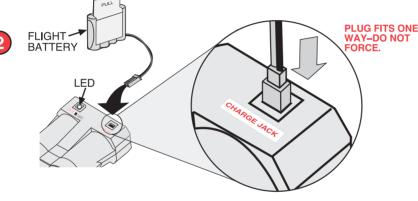
before flying.

(page 4)

USING THE CHARGER







- 1. Fully discharge Flight Battery by running the motor until it stops. 2. Remove Flight Battery from plane. NOTE: If Flight Battery is very
- warm, let it cool before charging.

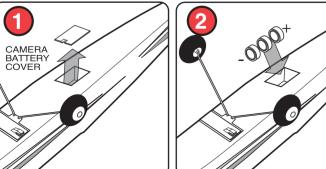
 3. Plug Flight Battery into Charger. Charger LED will turn solid.

 4. Charge the Flight Battery until the Charger LED blinks.
- NOTE: If flight battery gets hot during charge, remove from Charger immediately and let cool.

NOTE: Charge time will get longer the more times the Flight Battery is charged since the D batteries in the charger lose power. After 20 charges replace the batteries in the charger.

INSTALLING THE CAMERA BATTERIES

CHARGING GUIDELINES



Remove Camera Battery Compartment cover.

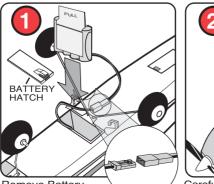
· Always remove Flight Battery from airplane before charging. If Flight Battery is HOT, allow it to cool before charging or using.
 Never charge Flight Battery if Charger or Flight Battery is wet.

· ALWAYS unplug Flight Battery from Charger when not in use.

 Never leave Flight Battery unattended when charging. DO NOT charge Flight Battery if it shows leakage or corrosion.

Insert 3 button cell batteries (included) in correct polarity as shown, and then replace cover.

INSTALLING THE FLIGHT BATTERY



Remove Battery Hatch. Connect Flight Battery to plane. PLUG



compartment followed by Flight Battery. Be sure Flight Battery is all the way in the battery compartment. Replace Battery Hatch.

DOWNLOAD PICTURES FROM CAMERA

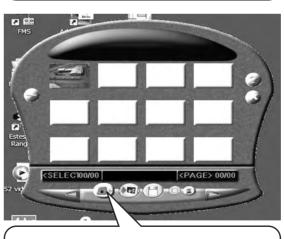
IMPORTANT:

DO NOT turn camera switch OFF - doing so will erase the pictures stored in the camera,

- 1. Connect USB cable to the computer, then to the camera pod as shown.
- 2. Follow the steps below to download and save your pictures.

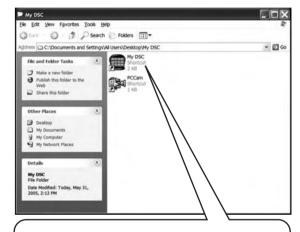


A. Open 'My DSC 2' folder on the desktop.

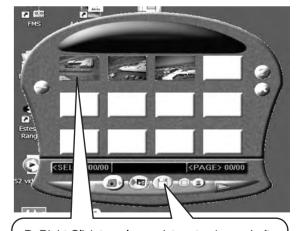


C. Click the 'Load Pictures' icon.





B. Click on 'My DSC 2' to open.



D. Right Click to enlarge picture to view or Left Click to Highlight (Red Box), then click the 'Save' icon below.

Camera may be turned off after pictures have been downloaded and saved on your computer.

IMPORTANT USER INFORMATION

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.

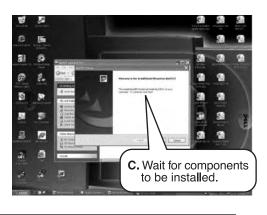
 Consult Estes-Cox Corp. for help. PAGE 2

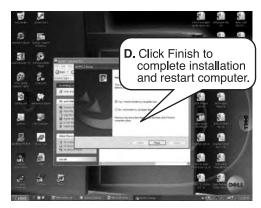
LOAD THE SOFTWARE (My DSC 2)

1. Insert CD in CD Drive. Important: Close other programs before installation. You will need to restart your computer after installation. If program does not begin automatically, you will need to click START and then MY COMPUTER and double click the CD drive.

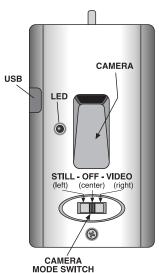








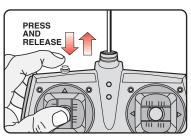
CAMERA OPERATION

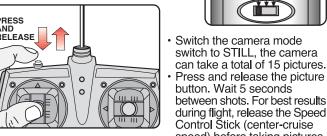


PRE-FLIGHT CAMERA SETUP

- 1. The camera turns ON by turning the camera mode switch to STILL or VIDEO. If switched to VIDEO, camera can take up to 14 seconds of video. If switched to STILL, camera can take up to 15 pictures.
- 2. The LED indicates the camera is ON, it works as follows:
- If Camera is turned ON before the Plane and Controller, LED will flash twice. After Controller and Plane are turned ON, LED will turn solid indicating Camera is ready.
- If Camera is turned ON after the Plane and Controller, LED will flash once, and then turn solid indicating Camera is ready.
- The LED will go OFF when Camera is turned OFF.

TAKING STILL PHOTOS

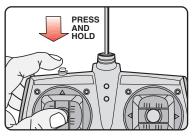




between shots. For best results during flight, release the Speed Control Stick (center-cruise speed) before taking pictures.

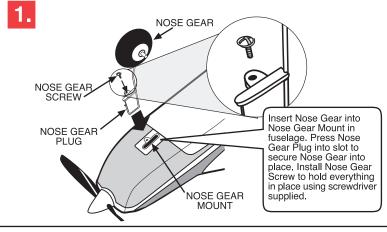
STILL - OFF - VIDEO

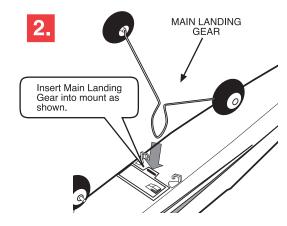
TAKING VIDEO MOVIES

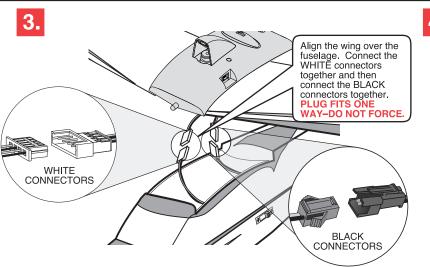


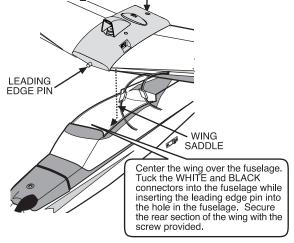
- Switch the camera mode switch to VIDEO, the camera can record a total of 14 seconds of video.
- Press and hold the video button to take the entire length of video in one shoot, or press and release the video button to take random lengths of video. Wait 5 seconds between shots. For best results during flight, release the Speed Control Stick (center-cruise speed) before video.

AIRPLANE ASSEMBLY

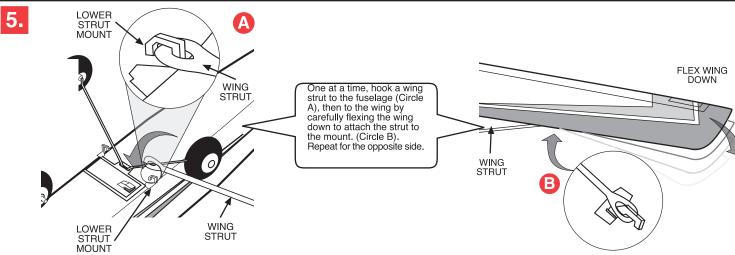


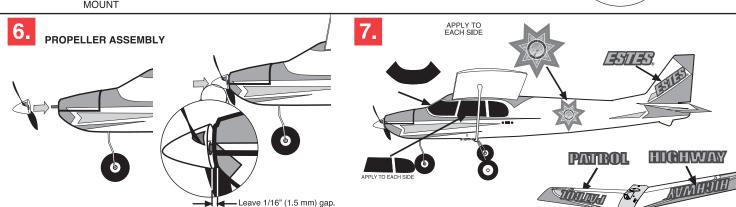






WING





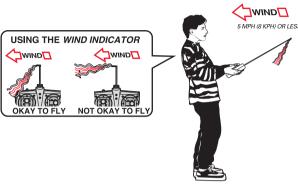
IMPORTANT NOTES:

- DO NOT switch camera OFF or from STILL to VIDEO or vice versa before downloading to a PC. Doing so will ERASE all pictures/video from camera.
 Camera will only take pictures or videos when plane's motor is running.
- Allow 5 seconds between each picture/video for camera to reset.
- Replace the camera batteries when camera starts failing to take consistent video or pictures.
- 5. After pictures/video are downloaded switch camera OFF when not in use.

FLYING YOUR PLANE - READ AND STUDY THESE INSTRUCTIONS BEFORE YOU FLY!

PRE-FLIGHT CHECKLIST

- 1. Have a fully charged battery installed in plane.
- 2. Fully extend controller antenna.
- 3. Check wind speed and direction using wind indicator
- 4. Turn controller switch ON. 5. Turn plane switch ON.
- 6. Check controls by tapping each control button.

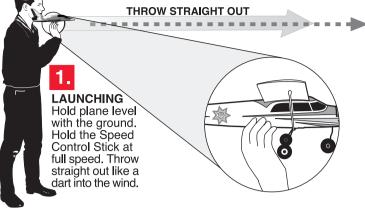


SAFETY PRECAUTIONS:

- 1. ALWAYS fly over soft grassy fields, like a soccer field. DO NOT fly in parking lots or streets.
- 2. NEVER fly near power lines, trees, houses or buildings.
 3. DO NOT fly in winds over 5 MPH (8kph).
 4. ALWAYS keep hands, face and clothing away from propeller.
- 5. ALWAYS have spectators stand behind the pilot during flight.







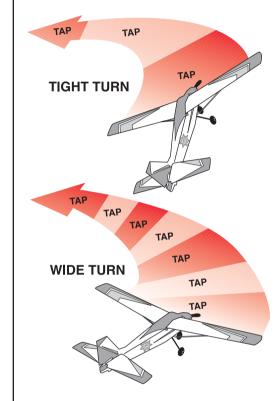






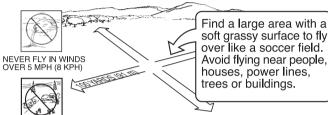
DO NOT continuously hold the Turn Control Stick. This over-steering may cause your Highway Patrol™ plane to get into a tight spiral turn, resulting in a crash.

The longer you hold the Turn Control Stick the tighter the turn. Longer taps for tight turns, shorter taps for wide turns.



- Only tap the Turn Control Stick enough to bank the wing for a turn, then stop tapping. Once the wing is banked the plane will continue to turn, you DO NOT have to hold the Turn Control
- Tap the Turn Control Stick in the opposite direction of the turn to level wings and fly straight.

CHOOSE A GOOD FLYING SITE:



PREPARE TO LAND Release the Speed Control Stick

to reduce speed. Tap Left or Right if needed to level wings.

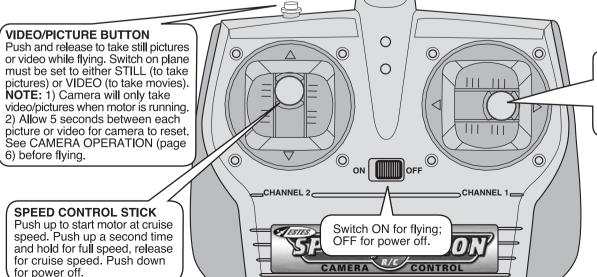


LANDING

Press Speed Control Stick down to turn power off. Press the Speed Control Stick up then down when needed to keep the nose up during landing until touch down.



KNOW YOUR CONTROLLER



TURN CONTROL STICK Tap LEFT to bank wings and turn plane left. Tap RIGHT to bank wings and turn plane right. See STEERING YOUR PLANE before flying.

ADVANCED FLYING TECHNIQUE

Takeoff From the Ground: When taking off from the ground it is important to take off from a smooth surface, such as the infield of a baseball field or a smooth and straight sidewalk.

END RIGHT TURN Tap Turn Control Stick Left to level wing.

CONTROLLING THE PLANE FLYING TOWARDS YOU!

BEGIN RIGHT TURN

Tap Turn Control Stick

Right to bank wing.

When the plane is flying towards you while watching it from the ground, to turn the plane to **your** LEFT you need to tap RIGHT. To Turn RIGHT tap LEFT.

IMAGINE YOU ARE CONTROLLING FROM THE COCKPIT!

