SuperDroid Robots
AUTONOMOUS ROBOT DEVELOPMENT AND SALES

Camera Pan and Tilt Assembly

1. Start by mounting the servo arm from the standard servo on the bottom of the scanner base as shown in Figure 1. Use #2-56 x 5/16" screw and secure with a washer, lock washer and nut. The middle holes are drilled out to accept the #2 screws.

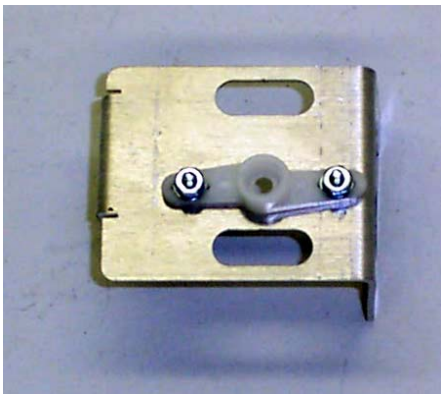

Figure 1

2. Next mount the servo arm from the miniature servo on the scanner arm as shown in Figure 2. Use #2-56 x 5/16" screw and secure with a washer, lock washer and nut. The middle holes are drilled out to accept the #2 screws.

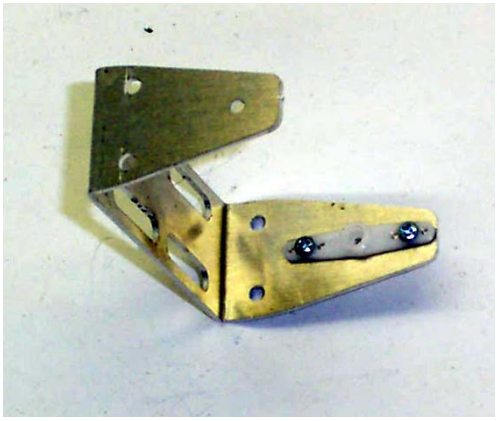

Figure 2

3. Mount the miniature servo to the scanner base as shown in Figure 3. Use #2-56 x 5/16" screw and secure with a washer, lock washer and nut. The mounting holes for the servo are drilled out to accept the # 2 screws. Make sure the servo is positioned as shown in the figure (the pivot arms are lined up).

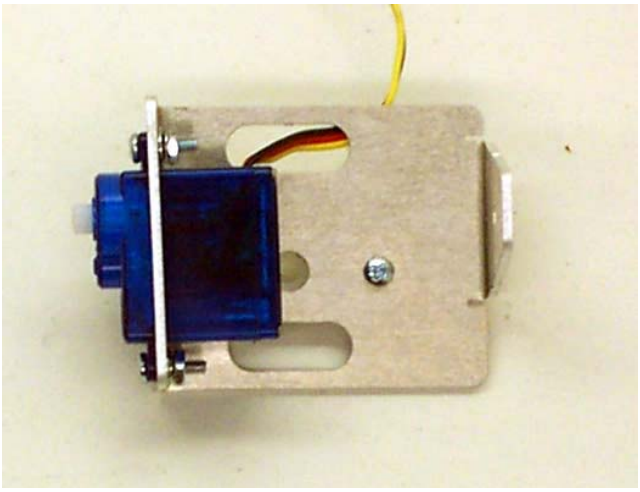

Figure 3

4. Place the #2-56 1/2" screw in the pivot hole as shown in Figure 4. Use a washer on each side and secure with a nut.

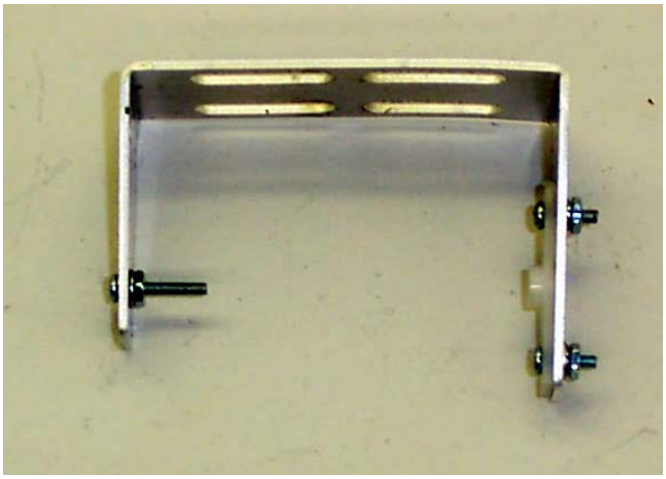

Figure 4

5. Place the pivot screw into the pivot hole in the base of the scanner. Apply slight pressure without yielding the metal to allow the servo arm to go over the servo mount. Let the servo arm snap onto the servo mount. You can manually rotate the arm. Adjust the travel by moving it its stop then pull the arm off the servo and

position the arm where you want it. The servo arm should have about 180 degrees of movement. Fasten the servo arm with the small screw supplied with the servo.

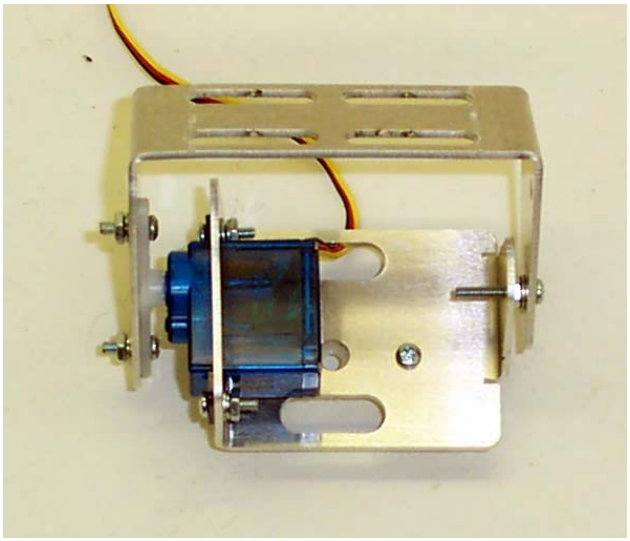

Figure 5

6. Mount the scanner to the large servo and adjust placement so desired travel is achieved. 180 degrees of movement is achievable with servo. Fasten the scanner with the screw supplied with the servo.

The finished product should look like Figure 6.

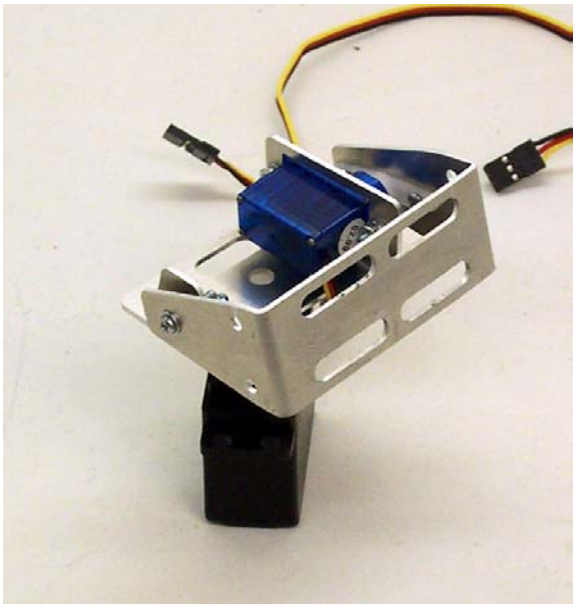

Figure 6

7. If scanners are being mounted mount the bracket as shown in Figure 7.

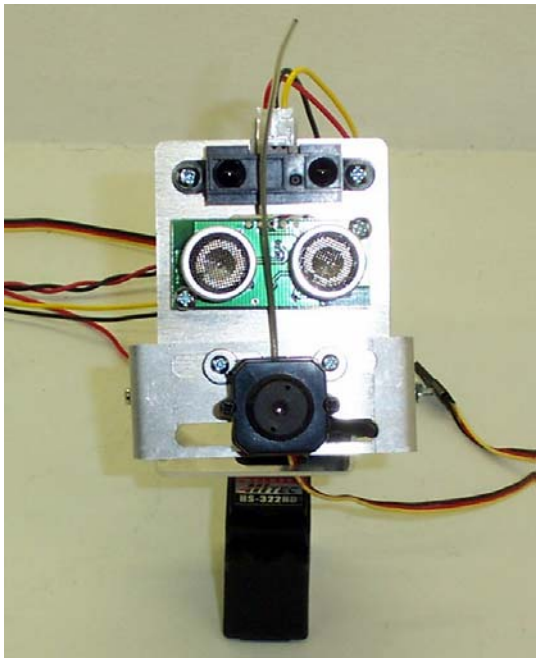

Figure 7