#0576 PUSH/PULL CONVERSION FOR PLASTIC SERVO TRAY #0575

#0576 CONTENTS

Quantity	Description
2	#0575-3 Servo spacer blocks with (3) small holes. Size 20.0 x 8.0 x 9.0mm
1	#0560-6 Control Arm w/2 #0560-5 Ball Bearings Installed
1	#0560-7 Pivot Stud
1	#0107 Hex Ball
4	#0361 Balls
1	#0019 M3 Locknut
1	#0171 Collar
1	#0051 M3 x 3 Socket Set Screw
2	#0133 Long Ball Links
4	#0135 Short Ball Links
3	#0313 Short Pushrods
2	#0044 M2 x 12 Grade 8.8 Slotted Machine Screws
8	#0015 M2 Nuts
2	#0027 M2.2 x 9.5 Phillips Tapping Screws
2	#0043 M2 x 10 Slotted Machine Screws

INSTALLATION

Insert (1) #0560-7 pivot stud down through the reinforced hole provided on the upper servo tray between the collective and roll servo positions. Secure below with (1) M3 Locknut.

Install the collective servo using (2) #0575-3 spacer blocks onto the servo using original servo hardware. Allow proper case clearance. Position the servo into the opening with the output spline to the rear. Apply cyano to the block mating surfaces and secure from below with (2) #0027 M2.2 x 9.5 Phillips Screws.

Examine the drawing to determine which side of the #0560-6 control arm is the top side. Select (1) #0107 hex ball and install it with Loctite up into the underside of the control arm in the M3 threaded outermost hole provided. Install (1) #0361 ball onto (1) #0044 M2x12 slotted screw followed by (1) M2 nut. Install this from above into the top of the control arm followed by Loctite and an M2 nut below. Repeat for the other hole. Follow this with (1) #0171 collar and set screw.

SET UP

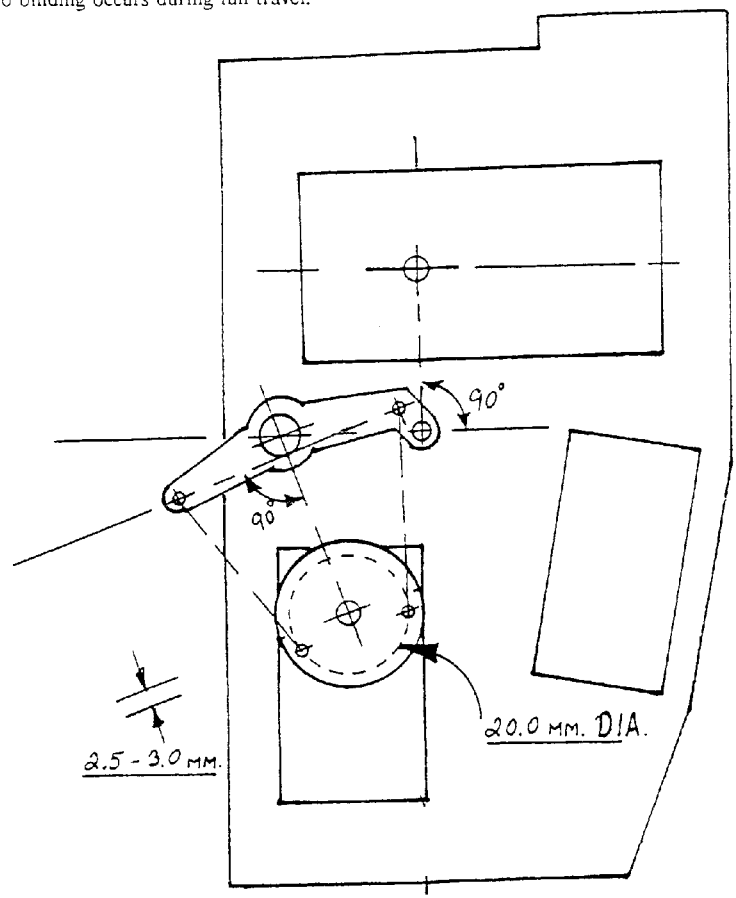
Study the drawing to understand the proper servo set up. This is most important to insure against any binding or interferance during operation.

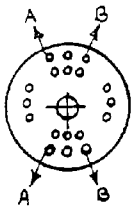
Basically, the following relationship is required:

1). Roll servo exactly vertical
2). A line drawn from the pivot stud center point through the #0107 hex ball is exactly parallel with the lengthwise centerline of the roll servo and the roll servo cut out.
3). A line drawn through each #0361 ball atop the bellcrank is exactly perpendicular top a line drawn from the pivot stud center to the servo spline center.
4). At your option, the servo wheel is installed so that a line 2.5mm behind the servo spline center drawn through (2) 2.0mm holes (drilled on a 20.0mm diameter circle) is exactly parallel with a line drawn through the #0361 balls atop the control arm, at hover point or zero pitch. Study

the drawing to further clarify this relationship.

Connections between the servo and the control arm are made using (1) #0133 long link and (1) #0135 short link on each side. Use (1) #0043 M2x10 slotted screw with #0361 balls and M2 nut atop each side of the servo wheel with (1) M2 nut below. The connection from control arm to roll servo is made using (2) #0135 short links an a short pushrod. The exposed threaded rod between each link will be about 2.0mm. Adjust each servo rod so that no binding occurs during full travel.





Typical J.R. Wheel
Usable Positions = A-A or B-B
(not A-B or B-A)