

# TRANSMITTER PARTS LIST

Open the Transmitter pack marked with the first seven numbers 171-1983 and check the parts against the following Parts List. If you ordered a complete Radio Control System, you will also need two or more parts from Pack #8. The

numbers in parentheses are keyed to the numbers on the Transmitter Parts Pictorial (fold-out from Page 9). NOTE: Do not open the two control stick packs marked 171-2010 until instructed to do so.

PART No.	PARTS Per Kit	DESCRIPTION
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## RESISTORS

### 1/4 Watt

(1) 1-2-12	1	1000 $\Omega$ (brown-black-red)
1-4-12	1	2200 $\Omega$ (red-red-red)
1-8-12	3	4700 $\Omega$ (yellow-violet-red)
1-46-12	1	27 k $\Omega$ (red-violet-orange)
1-11-12	7	47 k $\Omega$ (yellow-violet-orange)
1-47-12	5	150 k $\Omega$ (brown-green-yellow)

### Other Resistors

(2) 1-10	1	1200 $\Omega$ 1/2 watt (brown-red-red)
1-21	1	15 k $\Omega$ 1/2 watt (brown-green-orange).
1-102	1	82 k $\Omega$ 1/2 watt (gray-red-orange)
(3) 2-208	2	111 k $\Omega$ 1/2 watt 1%
(4) 3-15-7	1	1000 $\Omega$ 7 watt

## CAPACITORS

(5) 20-102	1	100 pF mica
(6) 21-140	16	.001 $\mu$ F disc
21-46	6	.005 $\mu$ F disc
(7) 27-74	1	.01 $\mu$ F Mylar*
27-63	1	.022 $\mu$ F Mylar (small)
(8) 27-88	5	.022 $\mu$ F Mylar (large)
27-77	3	.1 $\mu$ F Mylar
(9) 25-116	1	50 $\mu$ F electrolytic

\*DuPont Registered Trademark

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## DIODES-TRANSISTORS

NOTE: Transistors will be marked with either the part number, the transistor type number, or both the part number and the type number.

(10) 56-27	8	Silicon diode (GES160)
(11) 57-27	1	Silicon rectifier (1N2079)
(12) 417-91	5	2N5232A/2N3391A transistor
417-118	2	2N3393 transistor
417-201	3	X29A829

## SWITCH-SOCKETS-CONNECTORS

(13) 60-35	1	Slide switch
(14) 434-88	1	Pilot lamp socket
(15) 432-101	1	4-terminal socket
(16) 432-106	1	4-pin plug with cap
(17) 432-104	1	4-pin flat connector

## LINE CORD-WIRE

89-38	1	Line cord
134-189	1	Wire harness
344-50	1	Black solid wire
344-52	1	Red solid wire
344-90	1	Black stranded wire
344-92	1	Red stranded wire
346-35	1	Small black sleeving
346-20	1	Medium-size black sleeving
346-3	1	Large black sleeving

PART No.	PARTS Per Kit	DESCRIPTION	PART No.	PARTS Per Kit	DESCRIPTION
<b>METAL PARTS</b>			<b>GENERAL</b>		
(18)90-427	1	Cabinet back	10-222	5	50 k $\Omega$ control
(19)90-428	1	Cabinet front	10-273	1	5000 $\Omega$ control
(20)100-801	2	Side bracket	(25)75-93	1	Fiber insulator
(21)204-102	2	Support bracket	85-187-3	1	Encoder circuit board
(22)204-920	1	Control mounting bracket	142-113	1	Antenna
(23)204-922	1	Meter mounting bracket	(26)260-16	2	Alligator clip
(24)205-729	1	Cabinet bottom plate	(27)407-116	1	Meter
			(28)412-47	1	Pilot lamp (#1820)
			(29)413-15	1	Pilot lamp jewel
			100-960	1	Battery assembly (9.6 volt nickel-cadmium)
			(30)462-299	1	Thumb knob
			(31)266-145	1	Switch stop
			(32)490-5	1	Nut starter
			(33)490-110	1	Wrench
			597-405	1	FCC License form and regulation packet
					Solder

**\* TRANSMITTER RF**

**CIRCUIT BOARD ASSEMBLY**

NOTE: Only one of the following transmitter RF circuit board assemblies is supplied with this kit. CAUTION: The transmitter circuit board assembly has been pretested and pre-aligned. Do not change the setting of any coil on this circuit board, as this will decrease performance and void the Warranty.

Assembly Part No.	Transmitted Frequency (MHz)	Transmitter Crystal (MHz)	Matching Receiver Crystal (MHz)	
181-26	26,995	26,995	26,542	
181-27	27,045	27,045	26,592	
181-28	27,095	27,095	26,642	
181-29	27,145	27,145	26,692	
181-30	27,195	27,195	26,742	
181-430	53,100	53,100	26,3235	
181-431	53,200	53,200	26,3735	
181-432	53,300	53,300	26,4235	
181-433	53,400	53,400	26,4735	
181-434	53,500	53,500	26,5235	
181-435	72,080	36,040	36,2665	
181-436	72,240	36,120	36,3465	
181-437	72,400	36,200	36,4265	
181-438	72,960	36,480	36,7065	
181-439	75,640	37,820	37,5935	

The following parts are supplied with the transmitters indicated.

**\* 27 MHz Band Transmitter**

(34)205-649	1	Cabinet top plate
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**\* 53 MHz Band Transmitter**

(35)64-39	1	Pushbutton switch assembly
(36)205-711	1	Cabinet top plate
(37)254-5	1	Control lockwasher
344-91	1	Brown stranded wire
27-64	1	.033 $\mu$ F Mylar capacitor

**\* 72 MHz Band Transmitter**

205-726	1	Cabinet top plate
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NOTE: All transmitters contain the following parts.

**HARDWARE**

**#3 Hardware**

(38)250-49	2	3-48 x 1/4" screw
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**#4 Hardware**

(39)250-163	14	4-40 x 5/16" self-tapping screw
(40)250-285	4	4-40 x 1/4" screw
(41)250-312	2	4-40 x 3/4" screw
(42)252-2	6	4-40 nut
(43)254-9	11	#4 lockwasher
250-477	2	4-24 x 3/4" self-tapping screws

\*These parts will be packed in Pack #8 if you ordered a complete Radio Control System.



PART No.	PARTS Per Kit	DESCRIPTION	PART No.	PARTS Per Kit	DESCRIPTION
<b>#6 Hardware</b>			<b>Control Stick Parts (cont'd.)</b>		
(44)250-276	9	6-32 x 3/8" black screw	205-683	2	Control mounting plate (#2 stamped on part)
(45)252-3	5	6-32 nut	(56)238-58	2	Control stick housing
(46)254-1	5	#6 lockwasher	(57)214-82	4	Control front cover
(47)259-1	1	#6 solder lug	(58)214-83	4	Control back cover
<b>Other Hardware</b>			(59)214-84	2	Ball housing
(48)252-7	1	Control nut	(60)253-124	4	Teflon washer
(49)253-100	1	Antenna fiber flat washer	(61)255-100	2	Nylon spacer
(50)253-101	1	Antenna fiber shoulder washer	(62)265-16	4	Hinge pin
(51)253-103	1	1/4" fiber washer	(63)266-121	2	Gimbal #1
(52)254-4	1	Control lockwasher	(64)266-122	2	Gimbal #2
(53)255-29	2	3/16" spacer	(65)266-123	2	Control stick
<b>CONTROL STICK PARTS</b>			(66)266-125	2	Chrome cup
NOTE: The control stick parts are in two containers. Each container holds a complete set of parts that has a group part number of 171-2010. The quantities listed below are the total Parts Per Kit for both containers.			(67)455-77	2	Adjustable bearing
CAUTION: Do not mix together the parts from the container now or during assembly. Also, please note that numbers stamped on certain parts may be printed backwards.			(68)456-24	2	Control stick coupler
			(69)456-25	4	Gimbal coupler
			(70)462-300	4	Trim plate
			(71)462-301	2	Control stick knob
			<b>Control Stick Hardware</b>		
(54)11-114	4	5000 $\Omega$ control	(72)250-355	8	2-32 x 3/16" sheet metal screw
(55)205-682	2	Control mounting plate (#1 stamped on part)	(73)250-420	8	2-32 x 1/4" sheet metal screw
			(74)250-421	2	2-56 x 3/8" screw
			(75)250-422	8	2-56 x 5/16" screw
			(76)208-17	4	Spring clip
			(77)252-7	4	Control nut
			(78)253-119	8	Control washer
			(79)258-103	4	Centering spring
			(80)266-124	8	Dog stop
			(81)455-78	4	Brass bushing

# TRANSMITTER PARTS PICTORIAL

