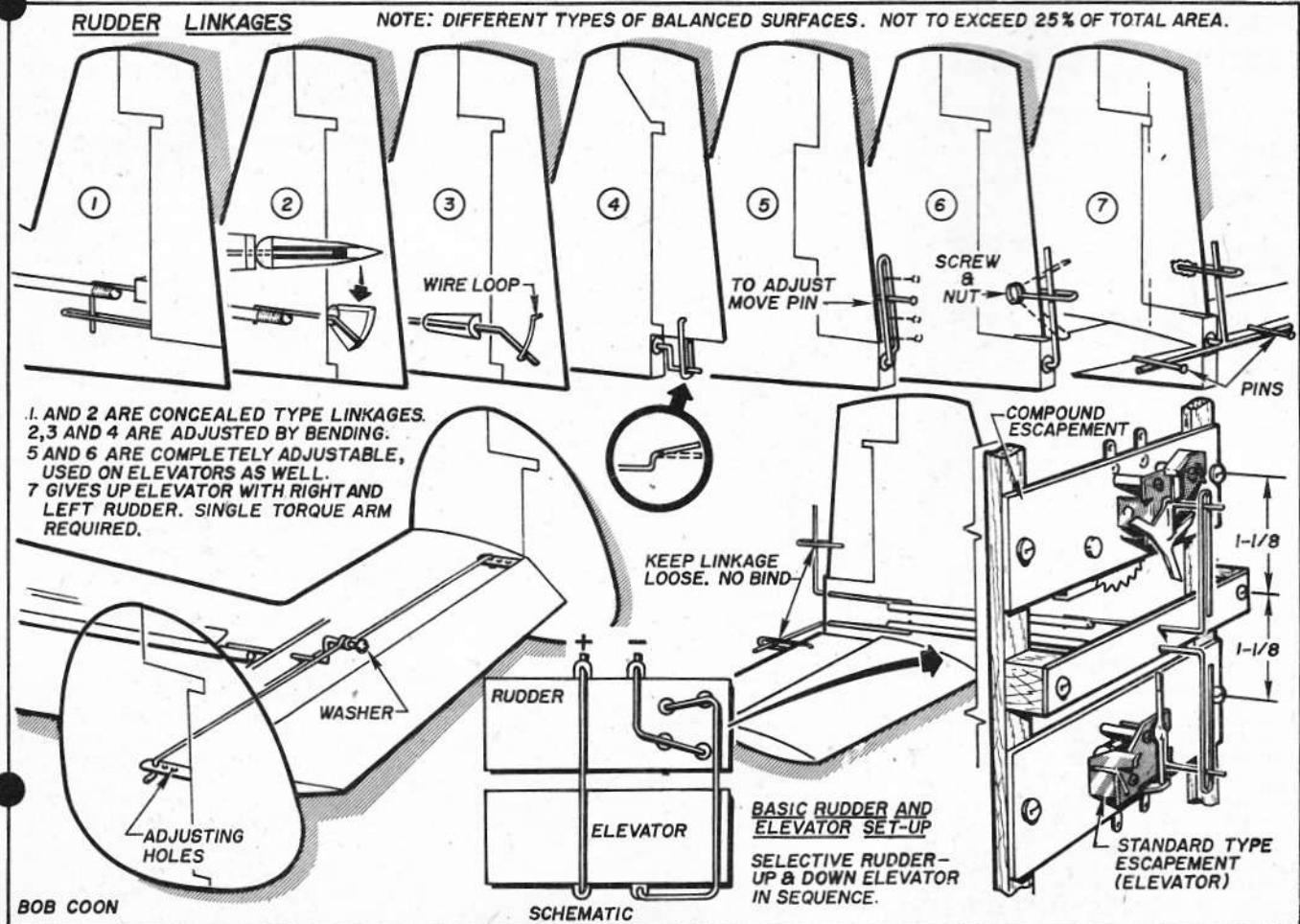
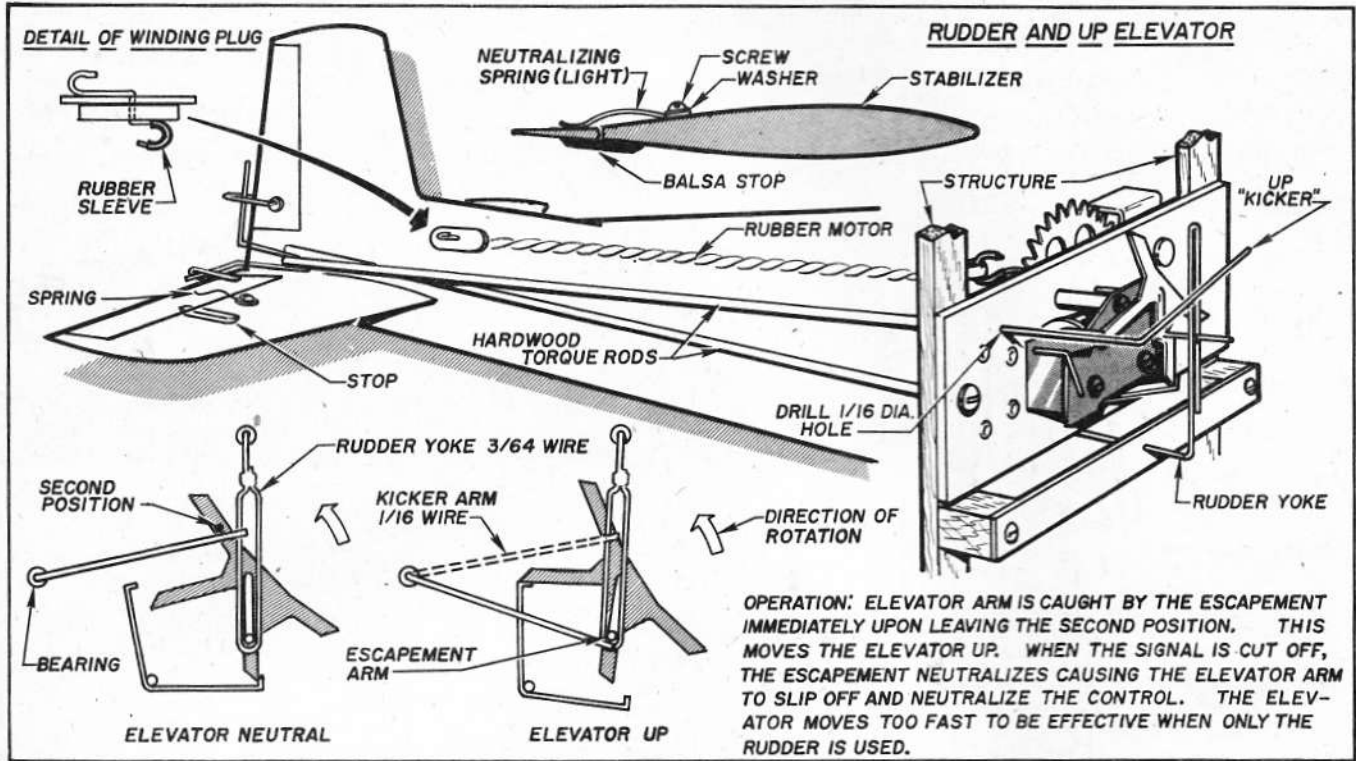
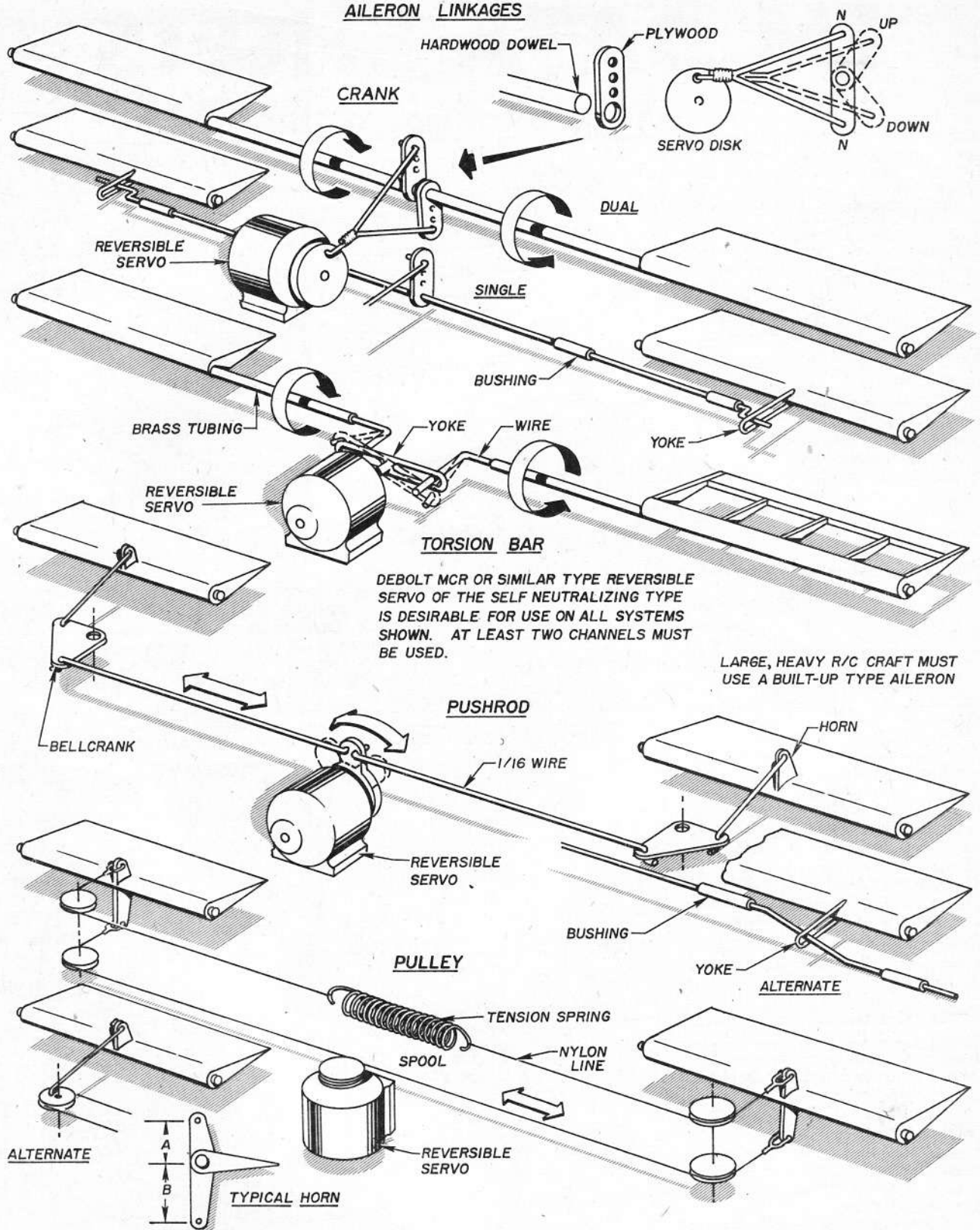


FM DATA SHEETS

#17 - R/C CONTROL SYSTEMS



AILERON LINKAGES



DEBOLT MCR OR SIMILAR TYPE REVERSIBLE SERVO OF THE SELF NEUTRALIZING TYPE IS DESIRABLE FOR USE ON ALL SYSTEMS SHOWN. AT LEAST TWO CHANNELS MUST BE USED.

LARGE, HEAVY R/C CRAFT MUST USE A BUILT-UP TYPE AILERON

AILERONS MUST BE RIGGED DIFFERENTIALLY. "A" IS SHORTER THAN "B" THEREFORE THE AILERON WILL MOVE UP FURTHER THAN IT MOVES DOWN. EQUAL MOVEMENT CAUSES A YAWING ACTION OPPOSITE TO THE DESIRED TURN. THIS IS CAUSED BY THE MORE PRONOUNCED DRAG OF THE DROOPING AILERON.

SEVEN CHANNELS WOULD BE DESIRABLE TO OPERATE A FULL COMPLEMENT OF CONTROLS, RUDDER, ELEVATOR, AILERON AND ENGINE SPEED. HOWEVER, WITH THE EXISTING FIVE CHANNEL EQUIPMENT A COMPLETE CONTROL SYS-

TEM CAN BE OBTAINED BY COMBINING THE RUDDER AND ENGINE CONTROLS WITH A COMPOUND ESCAPEMENT.

TRY ONE OF THE ABOVE FOR THOSE ADDED POINTS IN "SLOWROLLS"; "IMMELMANN'S" MAKE TURNS WITHOUT LOSING ALTITUDE, FLY INVERTED WITHOUT "FALLING OUT" AND MAKE SUPERB "CUBAN EIGHTS."

BOB COON