

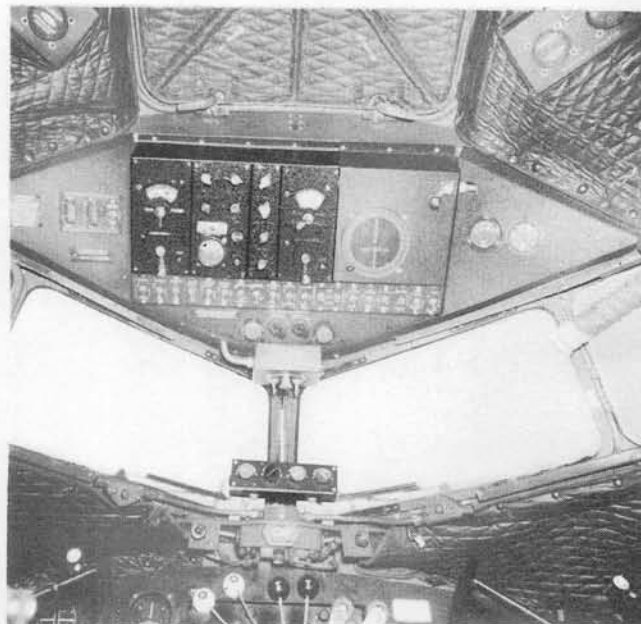
Control Assembly AN/ARA-10 is an airborne auxiliary assembly combining all radio communications and navigation control functions of the pilot-operated radio equipment in ATC airplanes. These functions are performed by five control panels (Control Panels C-177/ARA-10, C-178/ARA-10, C-179/ARA-10, C-180/ARA-10, and C-181/ARA-10) and the associated junction box (Junction Box J-89/ARA-10).

With the increasing number of aircraft being assigned to Air Transport Command and the increasing variety of radio and radio-navigational equipment becoming available for installation in aircraft, a standard complement of radio equipment for heavy transports became necessary.

Present standard equipment complement for heavy transports is: Transmitting Set AN/ART-13, Radio Set AN/ARC-9, Radio Compass AN/ARN-11, AN/ARN-7, Radio Receiving Equipment RC-103, AN/ARN-5, AN/ARN-8, Radio Set AN/APN-1, Static Discharger Assembly AN/ASA-1, Radio Set AN/APN-4, and Interphone Equipment AN/AIC-3.

A consolidated radio control panel was developed to meet the requirements, incorporating in one unit all of the radio controls which must be available to the pilot and co-pilot of heavy transports. In the C-46 and C-87 aircraft it is mounted overhead on the ceiling of the cockpit; and separate small panels are provided, one containing the sensitivity controls for the AN/ARN-7 and AN/ARN-11, the other containing the meter sensitivity control for the AN/ARN-11 and the volume control for the AN/ARC-9. These small panels are mounted on the pedestal for maximum accessibility.

The main panel is constructed in four sections of identical dimensions, connected to the aircraft wiring by means of locknut terminal strips. It is thus possible to arrange the four sections in any manner best suited to the particular aircraft installation. Approximate dimensions of the main panel are 17 inches long by 8 inches wide by 4 inches deep, and the small panels are 4 inches long by 2 inches wide by 3 inches deep.



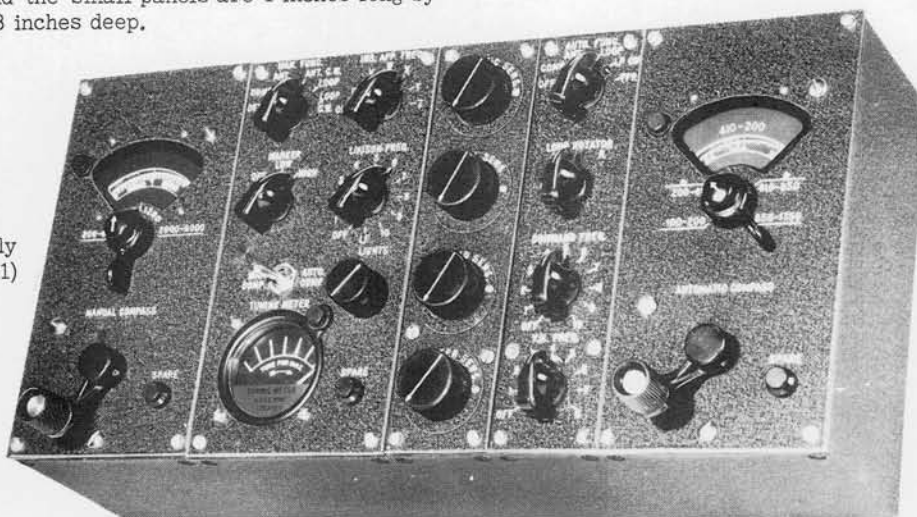
Installation of Control Assembly AN/ARA - 10 Pilot's Position C-48-A.

Present estimates indicate that aircraft produced during February 1945 should contain this installation.

No special test equipment is required for maintenance.

Army Supply Program requirements as of 26 December 1944 were 2,000 for the calendar year 1944 and 2,334 for 1945.

Control Assembly AN/ARA-10(XA-1)



CONTROL ASSEMBLY AN/ARA-10

TOTAL WEIGHT 50 LBS.

Component	Nomenclature	Size	Weight
Control Panel	C-177/ARA-10	8" x 5" x 4"	4 Lbs.
Control Panel	C-178/ARA-10	8" x 5" x 4"	4 Lbs.
Control Panel	C-179/ARA-10	8" x 3" x 4"	2 Lbs.
Control Panel	C-180/ARA-10	8" x 3" x 4"	2 Lbs.
Control Panel	C-181/ARA-10	8" x 5" x 4"	4 Lbs.
Junction Box	J-89/ARA-10	53" x 5" x 1"	27 Lbs.

and includes set of installation components

March 1945