

CHAPTER 31

AUXILIARY MACHINERY

31-2 RAMP & BOW DOORS:-
(PLATES VII & VIII)

The Ramp is a built up section of steel plates and beams.

It is strong enough to handle the equipment carried aboard these vessels. The heaviest tank on board is approximately 49 tons.

An electric winch supplies the power to operate the ramp. If one wire is damaged or parted, winch will operate ramp with remaining wire.

For arrangement of sheaves and wire ropes and instructions see PLATE VIII.

The Bow Doors are made to open to permit the lowering of the ramp. The lower sections of the bow doors are hinged so that when open the lower sections pull up and when the doors close the sections drop.

A hydraulic system operates the doors. For arrangement and operation see PLATE VII.

31-3 ANCHOR WINDLASS AND CAPSTAN:-
(PLATE VIII)

The windlass consists of a wildcat and capstan mounted concentrically on a vertical shaft and driven by an electric motor through reduction gearing. The windlass is equally operable in both directions and is capable of hoisting an anchor weighing 750 pounds from a depth of 60 fathoms on a 1-inch stud link chain at a rate of 30 feet per minute.

The capstan is capable of heaving in a 6-inch rope at about 60 feet per minute. It is arranged to be used while the wildcat is held stationary by means of a hand brake. An electric brake is also provided.

Power is supplied by a 440 volt, alternating current, electric motor, designed for reversing service and driving the mechanism through gearing.

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