

(E.) A LIST OF SHIPS FITTED OR TO BE FITTED FOR WIRELESS TELEGRAPHY, SHOWING THOSE SUPPLIED WITH JACKSON'S AND THOSE SUPPLIED WITH MARCONI'S SETS. 31ST DECEMBER 1900.

Channel.

*" Majestic."	*" Furious."	†" Jupiter."
*" Diadem."	" Pelorus."	*" Arrogant."
" Pactolus."	†" Hannibal."	
*" Magnificent."	*" Niobe."	

Mediterranean.

†" Ramillies."	" Vindictive."	(†)*" Vulcan."
†" Theseus."	*" Canopus."	" Gladiator."
*" Renown."	*" Andromeda."	

Reserve Squadron.

" Camperdown."	*" Alexandra."	" Galatea."
*" Melampus."	*" Sans Pareil."	

Training Squadron.

*" St. George."	*" Hyacinth."	*" Juno."
*" Minerva."		

China Squadron.

" Glory." Also three† sets of Jackson's apparatus, and two other sets of Marconi's apparatus. The ships these sets are appropriated to not known.

Fleet Reserve.

" Edgar."	" Ariadne."	" Blenheim."
" Gibraltar."	" Amphitrite."	" Retribution."
" Hawke."	" Blake."	
" Powerful."	" Brilliant."	

Torpedo Schools.

" Defiance," 2†, 2*.	" Vernon," 2†, 2*.
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Shore Stations.

*Malta.	Culver Cliff.	Roche's Point.
*Gibraltar.	Rame Head.	*Portland (temporarily in
Dover.	Scilly.	" Minotaur").

Five* sets laid aside in Portsmouth Dockyard waiting completion of stations.

In addition to the above sets of Wireless Telegraphy apparatus there are four sets of spare gear,† allocated to—

China, 1.	" Vernon," 1.
Mediterranean, 1.	" Defiance," 1.

N.B.—† Signifies Jackson's, and * Marconi's apparatus.

(F.)—A LIST OF THE INSTRUMENTS AND STORES COMPRISING EACH SYSTEM OF
WIRELESS TELEGRAPHY.
Gunners Naval Stores, Section I.

Pattern Number.	Species of Stores.	Deno- mination of Quality.	Service Sets.		Marconi Sets.		Remarks.
			Part Instal- lation.	Spare.	Part Instal- lation.	Spare.	
	Insert new pages 91A and 91B. Heading: List of stores to be supplied to ships, fitted with wireless telegraphy. Apparatus wireless telegraphy.						
1776	Gear for:— Accumulators, portable, 4 cells in teak boxes.	No.	2	2	—	—	For use when electric power is available.
1223	Batteries, test, 1" cell - - -	"	—	1	—	1	For shore station.
452	Boxes, wood, torpedo work - - -	"	—	1	—	1	" "
1780	Bell, electric, shunted - - -	"	—	—	1	—	
	Buzzer - - - - -	"	1	—	1	—	
	Box for jigger - - - - -	"	1	—	—	—	Mounted in receiver.
23	Bottles, glass, stoppered, quarts -	"	—	4	—	2	For shore stations and ships not otherwise supplied.
705	Balauze, Wheatstone's - - -	"	1	—	1	—	Only to ships not otherwise supplied and shore stations.
1055	Bits, copper, soldering - - -	"	—	1	—	1	For shore stations.
1779	Box, receiver, mahogany, brass cased	"	2	—	—	—	
1784	Coil, induction, 10" spark, in case -	"	1	1	1	1	
	Cells, dry, Obach, M type - - -	"	100	—	100	—	For shore stations for use when electric power is not available.
1655	" " " Q " - - - - -	"	22	11	4	11	
1785	Coils, test, for relay, 30,000 ohms -	"	1	—	1	—	
1786	" " " 20,000 " - - -	"	1	—	—	—	
1782	Cases, packing, lined, zinc - - -	"	—	—	2	—	
326	Files, smooth, half round - - -	"	2	—	—	2	
307	Hammer, hand or bench, 2 lbs. - -	"	—	1	—	1	For shore station.
934	Galvanometer, astatic, 1,000 ohms, in case complete, with magnet and strap.	"	—	1	—	1	" "
1199	Hydrometers, for testing acid - -	"	—	2	—	2	For shore stations and ships not otherwise supplied.
1800	Inkers, Morse, fitted with alarm bell, in case.	"	1	—	—	—	
1801	Inker, R., 500 ohms, with 1,000-ohm shunt.	"	—	—	1	—	
1807	Insulators, ebonite, long - - -	"	6	—	—	—	
1808	" " short - - - - -	"	12	—	—	—	
1809	" " varnished - - - - -	"	—	—	3	3	
1810	" " deck - - - - -	"	1	—	1	—	
1790	Jiggers - - - - -	"	2	2	2	2	Mounted in receiver in box.
1791	Keys, signalling, in cases - - -	"	1	—	1	—	
133	Measure glass, 20 ozs. - - -	"	—	2	—	2	For shore stations and ships not otherwise supplied.
9	Push bulkhead - - - - -	"	1	—	1	—	
468	Pliers, bright side, cutting - - -	"	—	2	—	2	For shore station.
	Relay, marine, improver, 1,000 ohms, with shunts.	"	1	—	—	—	
	Receiver, complete, with relay - -	"	—	—	2	—	
1794	Shunts for inker - - - - -	"	2	—	—	—	
1795	Switch, 2 way, for inker - - -	"	1	—	1	—	
665	Turnscrew, beech handle, 8½" - -	"	—	1	—	1	For shore station.
1797	Tapper, vibrating, with shunts and standard for coherers.	"	1	—	1	—	Mounted in receiver.
	Tuner for receiver - - - - -	"	21	—	—	—	
1802	Voltmeter, portable, Weston's, reading 0 to 15 volts.	"	1	—	1	—	
	Tubes, copper, seamless, ¼" int. -	Ft.	20	—	—	—	
1777	Bell alarm - - - - -	No.	1	—	—	—	
1499	Galvanometers - - - - -	"	1	—	—	—	

Pattern Number.	Species of Stores.	Denomination of Quality.	Service Sets.		Marconi Sets.		Remarks.
			Part Installation.	Spare.	Part Installation.	Spare.	
2	Acid, sulphuric - - *	Lbs.	10	10	—	10	
1738	Contacts for coil, platinum tipped **	Pairs	2	—	—	2	
1789	Contacts for keys, signalling - **	"	1	—	—	1	
	Coherers, complete, with connecting wires (in boxes of 6). **	Boxes	1	—	—	—	
1783	Coherers, tested and guaranteed (in boxes of 20). **	"	1	—	1	—	
	Coils, choking - - - **	No.	2	—	—	—	
1781	Clamps, slate, to take aerial wire and guys. **	"	1	—	1	—	
1816	Cable, for aerial wire - - **	Yds.	200	—	200	—	
1480	Cable, electric, braided, with steel wire. **	"	15	—	15	—	
154	Copper, sulphate - - - **	Lbs.	—	$\frac{1}{2}$	—	$\frac{1}{2}$	For shore stations.
1148	Dusters, feather - - - **	No.	—	1	—	1	
	Fearnought - - - - **	Yds.	—	$\frac{1}{4}$	—	$\frac{1}{4}$	For shore stations.
1814	Copper foil - - - - **	Lbs.	—	2	—	2	
	Felt, white, $\frac{1}{2}$ " thick - - **	Sheets	4	—	4	—	
319A	Helves, hammer, hand - - **	No.	—	1	—	1	For shore stations.
	Ink for inkers in $\frac{1}{2}$ pint bottles - **	Bottles	2	—	2	—	
1811	Mounts, tube, bone - - - **	No.	—	30	—	6	
1798	Platinized back contact of hammer - **	"	—	1	—	—	
1737	Rod, ebonite, 2" diameter - **	Fleet	—	4	—	4	
	Rope, white, 2" - - - - **	Fms.	10	—	10	—	
	Sawdust, pine - - - - **	Lbs.	—	$\frac{1}{2}$	—	$\frac{1}{2}$	For shore stations.
1799	Screw, adjusting, for interruptor, with platinized point. **	No.	—	1	—	—	
1731	Sheet, ebonite, 1" - - - **	Sq. ft.	—	2	—	2	
8	Sheet, I.R., 2' x 6' x .25" - **	Sheet	—	1	—	1	
80	" 2' x 2' x .125" - **	"	—	1	—	—	
22	Skins, chamois - - - - *	No.	—	2	—	2	
	Solder, tinman's - - - - *	Lbs.	—	1	—	1	For shore station.
248	Solution, I.R., in $\frac{1}{2}$ -lb. tins - *	Tins	—	1	—	1	" "
256	Tape, I.R., $\frac{1}{8}$ " - - - - *	Lbs.	—	1	—	1	" "
	Tape paper, for inker - - - **	Rolls	24	—	24	—	
	Tubes, copper, seamless, $\frac{1}{4}$ " internal diameter. **	Feet	—	—	20	—	
258	Tubing, india-rubber. *	Yards	—	18	—	18	
7	Tools, sash, No. 2 - - - **	—	—	1	—	1	
1812	Wire, platinum, $\frac{1}{4}$ " diameter - *	Ozs.	—	$\frac{1}{4}$	—	$\frac{1}{4}$	
1813	" platinoid, 36 L.S.G. on 1-oz. reels. *	Reels	—	—	—	4	
733	" copper, unarmoured - - *	Yards.	15	—	—	15	
1803	" " cotton, covered, 18 L.S.G. - - - - *	Lbs.	$15\frac{1}{2}$	—	$15\frac{1}{2}$	—	
799A	" lead, cased, 19 L.S.G. - *	Yards	20	15	—	5	
104	" unarmoured, 16 L.S.G. - *	"	15	—	15	—	
1805	" copper, silk, double covered, 42 L.S.G. *	Lbs.	$15\frac{1}{4}$	—	$15\frac{1}{4}$	—	
1804	" copper, silk, double covered, 25 L.S.G. *	"	$15\frac{1}{4}$	—	$15\frac{1}{4}$	—	
1806	" iron, cotton covered, 20 L.S.G. *	"	—	11	—	1	
	Wax, paraffin - - - - *	"	—	$\frac{1}{2}$	—	$\frac{1}{2}$	
447	Tinfoil - - - - - **	"	—	2	—	2	
1793	Relay, with shunts - - - - *	"	—	2	—	—	
1796	Switch, 2-way, W.T., for receivers -	"	—	1	—	—	
983	Cloth, emery - - - - - *	Sheets	6	—	—	—	
984	" " - - - - - *	"	6	—	—	—	
1815	Foil, tin - - - - - *	Lbs.	—	2	—	—	
	Oil, olive - - - - - *	Pts.	1	—	—	—	

Gunners Naval Stores for Torpedo Instructional Purposes in the Torpedo Schools and Ranges.

Pattern Number.	Species of Stores.	Denomination of Quality.	Service Sets.		Marconi Sets.		Remarks.
			Part Installation.	Spare.	Part Installation.	Spare.	
1776	Accumulators, portable, 5 cells in teak boxes.	No.	2	2	—	—	
1778	Bells, electric, shunted - - -	"	—	—	1	—	
1780	Buzzer - - - - -	"	1	—	1	—	
	Box for jigger - - - - -	"	1	—	—	—	Mounted in receiver.
1779	Box, receiver, mahogany, brass cased	"	2	—	—	—	
1784	Coil induction, 10" spark, in case -	"	1	1	1	1	
1656	Cells, dry, M type, Obach - - -	"	100	—	100	—	
1655	" " Q " " - - - - -	"	22	11	4	11	
1785	Coil test for relay, 30,000 ohms -	"	1	—	—	—	
1786	" " " " 20,000 " - - - -	"	1	—	1	—	
1782	Cases, packing, lined zinc - - -	"	—	—	2	—	
1800	Inkers, morse, fitted with alarm bell in case.	"	1	—	—	—	
1801	Inkers, R., 500 ohms, with 1,000-ohm shunt.	"	—	—	1	—	
1807	Insulators, ebonite, long - - - -	"	6	—	—	—	
1808	" " short - - - - -	"	12	—	—	—	
1809	" " varnished - - - - -	"	—	—	3	3	
1810	" " deck - - - - -	"	1	—	1	—	
1790	Jiggers - - - - -	"	1	2	—	—	Mounted in receiver in box.
1791	Keys, signalling, in cases - - - -	"	1	—	1	—	
9	Pushes, bulkhead - - - - -	"	1	—	1	—	
	Relay, marine, improved, 1,000 ohms, with shunt.	"	1	—	—	—	
	Receiver, complete, with relay - -	"	—	—	2	—	
1794	Shunts for inker - - - - -	"	2	—	—	—	
1817	Shunts for testing - - - - -	Sets	—	—	—	1	
1797	Tapper, vibrating, with shunt and standard for coherer.	No.	2	—	—	—	Mounted in receiver.
1802	Voltmeters, portable, Weston's, reading 0 to 15 volts.	"	1	—	1	—	
2	Acid, sulphuric - - - - - *	Lbs.	10	10	—	10	
	Contacts for coils - - - - - **	Pairs	—	—	—	2	
	" " keys, signalling - - - **	"	—	—	—	1	
	Coherers, complete, with connecting wires (in boxes of 6).	Boxes	2	—	—	—	
1783	Coherers, tested and guaranteed (in boxes of 20).	"	1	—	1	—	
	Coils, choking - - - - - **	No.	2	—	—	—	
1781	Clamps, slate, to take aerial wire and guys. **	"	1	—	1	—	
	Copper foils - - - - -	Lbs.	—	2	—	2	
1816	Cable, for aerial wire - - - **	Yds.	220	—	220	—	
1480	Cable, electric, braided with steel wire. **	"	15	—	15	—	
	Felt, white, ½" thick - - - **	Sheets	4	—	4	—	
	Ink, for inker, in ¼ pint bottles - *	Bottles	2	—	2	—	
1811	Mounts, tube, bone - - - - - **	No.	30	—	—	6	
	Platinized back contact of hammer **	"	—	1	—	—	
1737	Rod, ebonite, 2" diameter - - - **	Ft.	4	4	—	4	
	Rope, white, 2" - - - - - *	Fms.	10	—	10	—	
1799	Screw, adjustin', for interruptor with platinized point. **	No.	—	1	—	—	
1731	Sheet, ebonite, 1" - - - - - **	Sq. ft.	—	2	—	2	
8	Sheet, ebonite, I.R., 2' x 6' x .25" **	Sheets	—	1	—	1	
8A	" " " 2' x 2' x .125" **	"	—	1	—	—	
258	Tubing, I.R. - - - - - *	Yds.	—	18	—	18	
	Tape paper for inker - - - *	Rolls.	24	—	24	—	

*List of Permanent and Consumable Stores to be maintained on Foreign Stations
to which Ships fitted with Wireless Telegraphy are attached.*

Patt. No.	Species of Stores.	Denomination of Quantity.	Quantity to be maintained for 4 or less.No. of Installations on the Station.	
			Service.	Marconi.
1776	Accumulators, portable, 5 cells, in teak box	No.	2	—
1779	Box, receiver, mahogany, brass cased	"	2	—
1778	Bells, electric, shunted	"	—	1
	Box for jigger	"	1	—
1780	Buzzer	"	1	1
1784	Coils, induction, 10-in. spark	"	1	1
1655	Cells, dry, Q-type, Obach	"	50	50
1656	" M "	"	100	100
1785	Coils, tests for relay, 10,000 ohms	"	1	—
1786	" " 5,000 "	"	1	1
1800	Inker, morse, fitted with alarm bell, in case	"	1	—
1801	" R. 500 ohms with 1,000 ohms shunt	"	—	1
1807	Insulators, ebonite, long	"	12	—
1808	" " short	"	24	—
1809	" " varnished	"	—	6
1810	" " deck	"	—	2
1790	Jiggers	"	2	—
1791	Keys, signalling, in case	"	1	1
9	Pushes, bulkhead	"	2	2
1793	Relay, marine, improved 1,000 ohms, with shunt	"	1	—
	Receiver, complete, with relay	"	—	2
1794	Shunts for inker	"	2	—
1817	Shunts for testing	Sets	—	1
1797	Tapper, vibrating, with shunt and standard for coherers	No.	1	1
1802	Voltmeter, portable, Weston's, reading 0 to 15 volts	"	1	1
	Tuner for transmitter	"	1	—
	" receiver	"	1	—
2	Acid, sulphuric	Lbs.	50	50
	Contacts for coil	Pairs	—	2
	Coils, choking	No.	2	2
	Coherers, complete, with connecting wires (in boxes of 6)	Boxes	6	—
1783	Coherers, tested and guaranteed (in boxes of 20)	"	—	2
	Contacts for keys, signalling	Pairs	—	2
1781	Clamps, slate, to take aerial wire and guys	No.	—	4
1816	Cable for aerial wire	Yds.	500	500
1480	" electric, braided, with steel wire	"	30	30
	Felt, white, 1/2" thick	Sheets	8	8
	Ink for inker in 1/2-pint bottles	Bottles	8	8
1811	Mounts, tube, bone	No.	—	12
	Platinized back contact of hammer	"	2	—
1799	Screws, adjusting, for interruptor, with platinized point	"	2	—
1731	Sheet ebonite, 1'	Sq. ft.	2	2
8	" I.R., 2' x 6' x .25"	Sheets	4	4
8A	" " 2' x 2' x .125"	"	4	—
258	Tubing, I.R.	Yds.	50	50
	Tape paper for inker	Rolls	50	50
	Wire, platinum, 1/4" diameter	Oz.	1/2	1/2
	" platinoid, 36 L.S.G. (on 1 oz. reels)	Reels	—	4
733	" copper, unarmoured	Yds.	100	100
	" " cotton covered, 18 L.S.G.	Lbs.	—	2
799A	" " lead cased	Yds.	100	100
	" " double silk covered, 38 L.S.G.	Lbs.	1	1
	" " " " 25 L.S.G.	"	1	1
104	" " " " " "	Yds.	50	50

Gunner's Naval Stores for Torpedo Instructional Purposes in the Torpedo School and Ranges.

Patt. No.	Species of Stores.	Denomination of Quantity.	Service Sets.		Marconi Sets.		Remarks.
			Part Instal-lation.	Spare.	Part Instal-lation.	Spare.	
	Tubes, copper seamless, $\frac{1}{4}$ " Int. dia. **	Feet	—	—	20	—	
	Wire platinum, $\frac{3}{32}$ " dia. - *	Ozs.	—	$\frac{1}{2}$	—	$\frac{1}{2}$	
	Wire platinoid 36 L.S.G. (on 1 oz. reel. - *	Reels	—	—	—	4	
733	Wire copper unarmoured - *	Yds.	15	—	—	—	
	" " cotton covered 18 L.S.G.*	Lbs.	—	—	$\frac{1}{2}$	—	
799a	" " lead cased 19 L.S.G. - *	Yds.	20	15	—	5	
104	" " unarmoured - *	"	15	—	15	—	
	" " silk double covered 38 L.S.G. *	Lbs.	$\frac{1}{2}$	—	$\frac{1}{4}$	—	
	" " silk double covered 25 L.S.G. *	"	$\frac{1}{4}$	—	$\frac{1}{4}$	—	
	" " iron cotton covered 20 L.S.G. *	—	—	1	—	1	

(G.)—GENERAL REMARKS.

Extra signal ratings for ships fitted with wireless.

To admit of constant attention being paid to the instruments, the signal staff of ships fitted with wireless telegraphy has been increased by two higher standard signal ratings, who have been trained in the use of the apparatus (A. L. M. 8765 of 25.8.00). And, (by A. L. N. 18,526, 24.1.01.) the peace complement of war shore stations fitted with wireless telegraphy shall be as follows :—

1 T. I.
1 H. S. signalman.
2 C. G. signalmen.

With addition in war time of :—

1 officer.
2 C. G. signalmen.

These stations always to be kept manned.

The H. S. signalman to go through special course in "Vernon."

The absence of selective tuning at present necessitates a stringent code of rules governing communication, so that all chance of mixed signals being recorded may be removed.

Marconi sets in South Africa.

During the early part of the war in South Africa, some Marconi sets of instruments were sent to the front with the Army, but, owing to lack of masts, kites, or other method of elevating the wire, they proved of no practical value.

However, the Admiralty secured three of these sets, and they were installed, with operators, in the ships of the blockading squadron at Durban; they proved extremely useful, and called forth the warm approbation of the senior officer. The report on their working is attached, see *ante*.