

RESTRICTED

NAVORD OD 4608  
SECOND REVISION

# ORDNANCE EQUIPMENT LIST FOR SUBMARINES



A BUREAU OF ORDNANCE PUBLICATION

15 OCTOBER 1945

DECLASSIFIED  
Authority NND 34869  
By [Signature] NARA Date 3/19/11



5 THIS O.D. IS APPLICABLE TO THE FOLLOWING SHIPS:

10 ACTIVE STATUS

SS214, 229, 230, 270, 285-288, 291, 319-331, 333, 334, 336-352, 390-410, 423-426,  
435-437, 475-490, 516, 522-525.

15 RESERVE STATUS

SS212, 213, 217, 220-222, 224, 225, 228, 231, 234-236, 239-247, 249, 251-256, 258-269,  
271, 272, 274, 276, 280-283, 292, 293, 295-305, 307-313, 315, 317, 318, 335, 362-  
20 368, 370, 372-378, 381-389, 411-422.

ORDNANCE EQUIPMENT LIST FOR SUBMARINES

(A) Sheet No.	(B) Title	(C) Total Weight	(D)
4	5"/25 CALIBER BATTERY . . . . .	25,200	
5	40-MM ANTI-AIRCRAFT BATTERY . . . . .	4,880	
6	20-MM ANTI-AIRCRAFT BATTERY . . . . .	1,768*	
6	CALIBER .50 BATTERY . . . . .	420	
5 7-8	FIRE CONTROL EQUIPMENT . . . . .	4,609	
9	SMALL ARMS AND INFANTRY EQUIPMENT . . . . .	292	
9	MISCELLANEOUS EQUIPMENT . . . . .	2,790	
10	PYROTECHNICS - SHIPS' . . . . .	470	
11	DEMOLITION EQUIPMENT . . . . .	223	
10 12	AMMUNITION FOR SHIPS MOUNTING 2-5"/25 CAL. GUNS, 2-40-MM SINGLES, 4-CAL..50 GUNS .	16,833	
13	AMMUNITION FOR SHIPS MOUNTING 1-5"/25 CAL. GUNS, 1-40-MM SINGLE, 1-20-MM TWIN, 2 CAL..50 GUNS. .	16,312*	
14	AMMUNITION FOR SMALL ARMS . . . . .	395	
15 15-17	TORPEDOES AND EQUIPMENT (PLAN I) FOR SS212-214, 217, 220-225, 228-231, 234-236, 239-247, 249, 251-256, 258-272, 274, 276, 280-283, 285-288, 291-293, 295-305, 307-313, 315, 317-331, 333-351, 352, 362-368, 370, 372-378, 381-416, 425, 426 . . . . .	77,536	
15-17	TORPEDOES AND EQUIPMENT (PLAN I) FOR SS417-424, 435-437, 475-490, 516, 522-525 . . . . .	90,324	
20 18	TORPEDOES AND EQUIPMENT (PLAN II) FOR SS212-214, 217, 220-225, 228-231, 234-236, 239-247, 249, 251-256, 258-272, 274, 276, 280-283, 285-288, 291-293, 295-305, 307-313, 315, 317-331, 333-351, 352, 362-368, 370, 372-378, 381-416, 425, 426 . . . . .	73,159	
19	TORPEDOES AND EQUIPMENT (PLAN II) FOR SS417-424, 435-437, 475-490, 516, 522-525 . . . . .	85,353	
20-21	MINES AND TORPEDOES (ALTERNATIVE EQUIPMENT) . . . . .	85,099*	
25 22-25	SPARE PARTS, TOOLS AND ACCESSORIES . . . . .	2,756	
26	DISTRIBUTION LIST		
	TOTAL - ORDNANCE WEIGHT		
30	(PLAN I) FOR SS212-214, 217, 220-225, 228-231, 234-236, 239-247, 249, 251- 256, 258-272, 274, 276, 280-283, 285-288, 291-293, 295-305, 307-313, 315, 317-331, 333-351, 352, 362-368, 370, 372-378, 381-416, 425, 426 . . . . .	136,404	
	(PLAN I) FOR SS417-424, 435-437, 475-490, 516, 522-525 . . . . .	149,192	
35	(PLAN II) FOR SS212-214, 217, 220-225, 228-231, 234-236, 239-247, 249, 251- 256, 258-272, 274, 276, 280-283, 285-288, 291-293, 295-305, 307-313, 315, 317-331, 333-351, 352, 362-368, 370, 372-378, 381-416, 425, 426 . . . . .	132,027	
	(PLAN II) FOR SS417-424, 435-437, 475-490, 516, 522-525 . . . . .	144,221	
40	* Not included in TOTAL ORDNANCE WEIGHT.		

ORDNANCE EQUIPMENT LIST

FOR SUBMARINES

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	
Ordnance Publication	List of Drawings (Sk No.)	General Arrangement Drg No.	Title	Mk.	Mod	Number Req'd	Unit Weight	Total Weight			
			<u>5"/25 CALIBER BATTERY</u>								
O.D.4707			5"/25 Single S.P. Gun and Mount Assembly Similar to -								
5	108355	253584-7 253588**	Assembly No. 1325 . . . . .			2	12,600E	25,200			
			consisting of -								
	108639	375143	Gun . . . . .	17	0	2	2,163	*			
	108351	253486	Housing . . . . .	9	0	2	2,525	*			
10	O.D.1029		Mount . . . . .	40	0						
	108362	253484	Carriage. . . . .	33	0	2	2,500	*			
	108363	253485	Slide . . . . .	29	0	2	2,285	*			
	108361	253475	Stand . . . . .	19	0	2	1,950	*			
	108356	253404	Sight. . . . .	42	0	2	380	*			
15			Elevating Gear. . . . .	16	0	2	480	*			
	108360	253431	Training Gear . . . . .	16	0	2	400	*			
	O.P.1398	130023	Telescope . . . . .	91	0	4	42	#,*			
20			TOTAL - 5"/25 CALIBER BATTERY. . . . .						25,200		

40 E Estimated Weight.  
 \* Weight included in weight of Gun and Mount Assembly.  
 \*\* Working Circle.  
 # This instrument is included on Page No. 8.

ORDNANCE EQUIPMENT LIST

FOR SUBMARINES

(A) Ordnance Publication	(B) List of Drawings (Sk No.)	(C) General Arrangement Drg No.	(D) Title	(E) Mk.	(F) Mod	(G) Num- ber Req'd	(H) Unit Weight	(I) Total Weight	(J)	(K)	
			<u>40mm ANTI-AIRCRAFT BATTERY ##</u>								
			40mm Single Gun and Mount								
5	107714	342575	Assembly No. 615 . . . . .			2	2,440	4,880			
	165436		consisting of-								
			Gun Barrel . . . . .	M-1		2	275	*			
	139700		Machine Gun Mechanism. . . . .	533	633	2	740	*			
			Mount . . . . .	533	633	2	1,030	*			
10			Carriage . . . . .	533	633	2	190	*			
			Stand. . . . .	533	633	2		*			
	O.P. 1398	415277	Sight. . . . .	8	10	2		*			
	130023		Telescope. . . . .	91	Mod	4	42	#			
15			TOTAL - 40mm ANTI-AIRCRAFT BATTERY . . . . .						4,880		

\* Weight included in weight of Gun and Mount Assembly.  
 ## If one (1) 20mm Twin Mount is installed, only one (1) 40mm Single Mount will be furnished.  
 # Weight included in Fire Control Equipment on Page No. 8.

**ORDNANCE EQUIPMENT LIST FOR SUBMARINES**

(A) Ordnance Publication	(B) List of Drawings (Sk No.)	(C) General Arrangement Drg No.	(D) Title	(E) Mk.	(F) Mod	(G) Num- ber Req'd	(H) Unit Weight	(I) Total Weight	(J)	(K)
			<u>20-MM ANTI-AIRCRAFT BATTERY</u>							
	138012	492472	20-mm A.A. Twin Gun and Mount Assembly No.333 . . . . .			1	1,000E	1,000E		
5	O.P. 826 O.P. 911	100343 138004 138008	consisting of - Gun Barrel. . . . . Machine Gun Mechanism . . . . . Hand Grips, and Should.Rest. Mount . . . . .	4 4 8 24	1 1 0 6	2 2 1	46 98 20	* * *		
10		138006 138007 138005 100336 100332 109641	Carriage . . . . . Cradle . . . . . Stand. . . . . Sight. . . . . Magazines (R.H.) . . . . . Magazines (L.H.) . . . . .	18 14 7 4 4 5	0 0 23 1 0 0	1 1 1 1 12 12	155 177 335 12 32 32	* * * * 384 384		
			TOTAL - 20-MM ANTI-AIRCRAFT BATTERY . . . . .					1,768#		
			<u>CALIBER .50 BATTERY</u>							
20			Caliber .50 Pipe Stem Gun and Mount Assembly No.68 . . . . .			4	80	320		
25	SNL A-38	297034 294222	consisting of - Gun, Machine, Cal. .50, Browning M2 Aircraft Base Flash Eliminator . . . . . Mount . . . . . Carriage . . . . . Adapter, Type E-11 . . . . . Ammunition Box, M2. . . . .	1 32 23	0 0 0	4 4 4 4 20	64 1 3 12 5	* * * * 100		
30		395997								
			TOTAL - CALIBER .50 BATTERY . . . . .					420		

40 E Estimated Weight.  
\* Weight included in weight of Gun and Mount Assembly.  
# For informational purposes only. Weight not included in Total Ordnance Weight.

**ORDNANCE EQUIPMENT LIST FOR SUBMARINES**

(A) Ordnance Publication	(B) List of Drawings (Sk No.)	(C) General Arrangement Drg No.	(D) Title	(E) Mk.	(F) Mod.	(G) Num- ber Req'd	(H) Spares on Board	(I) Unit Weight	(J) Total Weight	(K) Location	(L)	
<b><u>FIRE CONTROL EQUIPMENT</u></b>												
<b><u>Torpedo Control Equipment</u></b>												
5	O.P. 1442	93816-21)	Torpedo Data Computer . . . . .	4	Mod	1		1,850	1,850	Conning Tower		
	O.P. 1169	93823-27) 91491	Gyro-Setting Indicator-Regulator*	1	2	2		750	1,500	Fwd. and Aft. Torpedo Rooms		
	O.D. 453	13497	Submarine Attack Course Finder. .	1	3	2		1	2	Portable		
10	O.D. 3518	58278	Torpedo Angle Solver. . . . .	8	0	1		20	20	Portable		
	O.P. 959	91126	Range Conversion Scale. . . . .	1	0	1		1	1	Portable		
	O.P. 1189	109056	Target Bearing Transmitter. . . .	8	0	1		225	225	Bridge, Aft.		
	O.P. 1448	107193	Target Bearing Transmitter. . . .	9	0	1		235	235	Bridge, Fwd.		
	O.P. 1398	130023	Telescope . . . . .	91	0	2		42	84	Target Bearing		
15	O.P. 1398	130020	Telescope . . . . .	90	Mod		1	36	36	Transmitters)		
	O.S. 3538	91371	Bearing and Range Indicator . . . .	4	0	2		50	100	Conn. Tower and Control Room		
	O.P. 1563	107197	Bearing Transmitter . . . . .	11	0	2		150	300	Conning Tower on Periscopes		
20	<b>Total - Torpedo Control Equipment . . . . .</b>								<b>4,353</b>			

\* 88312-352, 361-378, 381-416, 425-428, 435-437, to be issued Gyro-Setting Indicator Regulator Mark 1 Mod 3. Weight is same. Sketch List of Drawings 93565.



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<b>FIRE CONTROL EQUIPMENT (Cont.)</b>												
<u>Optical and Miscellaneous Equipment</u>												
5	O.P.1398	130023	415277	Telescope. . . . .	.91	0	4		42	**	2-ea. 5"/25 Mount	
	O.P.1398	130023	415277	Telescope (in Box) . . . . .	.91	0		50	50			
	O.P.1398	130023	415277	Telescope. . . . .	#91	Mod	4	1	42	168	40mm Mounts	
	O.S.2214	62682	233261	Telescope. Boresight . . . . .	.75	0	1		10	10	Portable	
10		163748	108244	Universal Drafting Machine . . . . .	7	0	1		10	10	Conning Tower	
		254211		Binocular. . . . .	.37	0	2		4	8	Portable	
				Binocular. . . . .	.39	0	1		3	3	Portable	
	O.D.4392	301036		A.A. Range Indicators. . . . .	1	0	2		1	2	Portable	
15				Stop Watches. . . . .					0.2	1	Portable	
				Kodak Timer . . . . .			4		1	4	Portable	
				Total - Optical and Miscellaneous Equipment. . . . .							256	
20				TOTAL - FIRE CONTROL EQUIPMENT. . . . .							4,609	

\*\* Weight included in weight of major unit on which mounted.  
# If one (1) 40mm mount is replaced by one (1) 20mm Twin, only two (2) Telescopes Mark 91 Mod will be furnished.

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		<u>SMALL ARMS AND INFANTRY EQUIPMENT *</u>							
5	Ord. List 20449 Rev. C SNL B-28*	Carbines, Cal..30, M1. . . . .			6	5.2	31		
	SNL B-6	Pistols, Cal..45, Colt Automatic, M1911A1. . . . .			12	2.5	30		
	SNL A-32	Submachine Guns, Cal..45 Thompson, M1A1 . . . . .			2	10	20		
	SNL B-17	Rifles, Cal..22, Gallery Target, M2. . . . .			1	9.3	9		
	SNL B-32	Pistols, Cal..22, High Standard. . . . .			1	2.5	3		
10	SNL B-9	Shotguns, Riot, 12-Gauge, M97. . . . .			2	7.6	15		
	342241	Knives, Sheath . . . . . **			44	1	44		
	Sk120399	Steel Helmets. . . . . **			24	3.25	78		
	SNL A-6	Machine Gun, Cal..30, Browning, M1919A4. . . . .			2	31	62		
15		TOTAL - SMALL ARMS AND INFANTRY EQUIPMENT. . . . .						292	
		<u>MISCELLANEOUS EQUIPMENT</u>							
20	Ord. List 1230 Rev. D	Cal..45 Line Throwing Guns and Equipment . . . . .			2	60	120		
	Neg. 8808 N.G.F.	Rewinding Machine. . . . .			1	20	20		
	Ord. List 19742 Rev. B	Lubricants for Ordnance Equipment. . . . .			1	2,020	2,020		
25	Col. 5 Ord. List 19740 Rev. C	Miscellaneous Supplies, Tools and Accessories. . . . .			1	630	630		
	Col. 3								
30		TOTAL - MISCELLANEOUS EQUIPMENT. . . . .						2,790	

\* As a result of the cessation of hostilities, Small Arms and Infantry Equipment Allowances will be revised to provide such arms to approximately 30% of the total complement.  
 \* Standard Nomenclature Lists (SNL) are published by the War Department and are distributed by the Bureau of Ordnance, Navy Department.  
 \*\* Based on Ship's Complement of 66.

## ORDNANCE EQUIPMENT LIST

## FOR SUBMARINES

(A) Ordnance Publication	(B) General Arrangement or Stowage Drg No.	(C) Title	(D) Mk.	(E) Mod	(F) Number Required	(G) Number Per Box	(H) Number of Boxes	(I) Unit Wt. or Wt. Per Box	(J) Total Weight	(K)
		<b>PYROTECHNICS - SHIPS' 0</b>								
		<u>Emergency Identification Equipment:</u>								
5	Ord. List 17388 Rev. F	204180 Single Star (12 each, Red, Green, Yellow) . . . . .		3 Mods	36	12	3	76	228	
		344570 Pistol Rocket Signals, Comet, (12 each Red, Green, Yellow) . . . . .		1	36	12	3	20	60	
		Submarine Rocket Pistol . . . . .		1	2	2	1	2	2	
10		<u>Night Signaling Equipment:</u>								
		245786 Service Box . . . . .			1	1	1	18	18	
		containing -								
15	O.P.1177	242692 Signal Pistol . . . . .		5	2					
		244560 Holster for Signal Pistol . . . . .			2					
		243899 Cartridge Belt . . . . .		1	2					
	O.S. 2903	344562 Very's Signal Lights (40 Red, 20 White, 20 Green) . . . . .		2	80					
20		<u>Distress Signaling:</u>								
		O.S. 2668 253299 Lights, Hand, Red (6 for each lifeboat)		1	6	1	6	3	18	
		Abandon Ship Signaling Kit . . . . .			1					
		containing -								
		Sk99750 Stowage Can, Steel . . . . .			1					
		Sk99749 Container, Plastic . . . . .			1					
	O.S. 1416	388751 Hand, Projector . . . . .		4	1					
	O.S. 2903	344562 Very's Signal Lights (4 each, White, Red, Green) . . . . .		2	12					
30	O.P. 1464	False Target Can . . . . .		2	0	24		6	144	
		TOTAL - PYROTECHNICS - SHIPS' . . . . .							470	

⊙ See Note on Page No.12.  
\* Stowage dimensions of can - 19#3 Length x 3.0 Diameter.

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(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
Ordnance Publication	Stowage Drawing	General Arrangement Drg No.	Title	Mk.	Mod	Number Req'd	Spares on Board	Number Per Box or Gal. Per Can	Number of Boxes or Cans	Unit Weight	Total Weight	
Ord. List 19723			<u>DEMOLITION EQUIPMENT</u>									
			<u>Demolition Outfit:</u>									
5 O.P. 1012			Demolition Outfit, complete . . . . .*	108		1						
		393658	consisting of -									
			Timer and Battery Box. . . . .	3		1				14	14	
			containing -									
			Mechanical Timer . . . . .			1						
			Ammeter. . . . .			1						
			Switches . . . . .			2						
			Battery Connectors . . . . .			7						
O.P. 714	90997	328794	Demolition Charge. . . . .	2		3				65	195	
15 O.S. 1376		330074	each consisting of -									
			Cast TNT-TETRYL, 1/2-lb. blocks,	4		1						
			or									
O.S. 1214		281778	Pressed TNT, 1/2-lb. Blocks. . .	3		1						
	394760	393653	Type-B Electric Blasting Caps. . .			8		8	1	9	9	
		330119	Cork Plugs. . . . .			3				0.2	1	
20 O.S. 718			Copper Wire (18-22) (B & S) .(feet)			600		200	3	1.3	4	
			 Total - Demolition Outfit . . . . .								223	
25			 TOTAL - DEMOLITION EQUIPMENT. . . . .								223	

\* The eight dry cells for use in each outfit are to be obtained by each ship prior to start of each patrol.

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<u>AMMUNITION</u>										
<u>FOR SHIPS MOUNTING 2-5"/25 CALIBER GUNS, 2-40-MM SINGLES, 4-CAL..50 GUNS 0,+</u>										
<u>Service:</u>										
5	Sk120142	5"/25 Cal. Cartridges, H.C. with Nose Plug, in Tanks, Mk.3 Mod 3. . . . *	36	Mod	100			96	9,600	
10	Sk120142	5"/25 Cal. Cartridges, Illuminating, in Tanks Mark 3 Mod 3. . . . #	45	&/or	#			96	#	
	394814	5"/25 Cal. Short Cartridges, in Tanks Mark 16 . . . . .	27	Mod	#					
	249581	Point Detonating Fuzes for A.A. Common Cartridges. . . . .			2			30	60	
15	Sk96989	40-mm Cartridges, in Boxes, Mark 1 and Mark 2. . . . .**	29	Mods	100			2	200	
	Sk96989	40-mm Cartridges, B.L.& P., in Boxes Mark 1 and Mark 2 . . . . .			800*	16	50	113	5,650	
	58469	Cal..50 Cartridges. . . . .			16	16	1	113	113	
20					3,850	350	11	110	1,210	
<u>Drill:##</u>										
25	Sk120142	5"/25 Cal. Cartridges, Dummy, Wooden, in Tanks Mark 3 Mod 3. . . . *	6	0	4			89	356	
	117257	5"/25 Cal. Test Cartridge Cases(empty) 45-sec. Dummy Time Fuzes. . . . .	4	0	2			14	28	
	50503	Primers, Lock, Drill . . . . .			5			2.6	13	
	Sk96989	40-mm Cartridges, Dummy in Box, Mark 1. . . . .			240	24	10	3	30	
30	58469	Cal..50 Cartridges, Dummy. . . . .			16	16	1	106	106	
					100	10/ctn.	10	2.5	25	
TOTAL - AMMUNITION FOR SHIPS MOUNTING 2-5"/25 CAL. GUNS, 2-40-MM SINGLES, 4-CAL..50 GUNS. . . .									16,833	
35	0	The pages listing ammunition are not Allowance Lists. Ships should obtain ammunition in accordance with current Ammunition Allowance Lists which may indicate variations from the above. In case these ships' allowance figures cannot be met, the amount of ammunition on board for each caliber should not be less than the standard allowance multiplied by the number of guns of each caliber, without authority of the Chief of Naval Operations.								
40	+	If one 20-mm Twin is installed, 600 rounds per barrel will be furnished.								
	*	Tank Mk.8 (Sk99306) or Tank Mk.13 (Sk99763) also may be used.								
	#	If illuminating Cartridges are carried an equal reduction in the A.A. Common will be made.								
	**	If this quantity can not be stowed, a minimum of 288 rounds or 18 boxes of 40-mm may be carried.								
	##	Drill material stowed on tenders or at bases. Not included in TOTAL ORDNANCE WEIGHT.								

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<u>AMMUNITION</u>										
<u>FOR SHIPS MOUNTING 1-5"/25 CALIBER GUN, 1-40mm SINGLE, 1-20mm TWIN, 4 CAL..50 GUNS @</u>										
<u>Service:</u>										
5	Sk120142	5"/25 Cal. Cartridges, H.C., with Nose Plug, in Tanks, Mk. 3 Mod 3 . . . . .	36	Mod	* 91			93	8,463	
	Sk120142	5"/25 Cal. Cartridges, Illuminating, in Tanks Mark 3 Mod 3 . . . . .	45 & 4	27	#			93	#	
10	394814	5"/25 Cal. Short Cartridges, In Tanks Mark 16. . . . .			2			30	60	
	249581	Point Detonating Fuzes for A.A. Common Cartridges. . . . .	29	Mods	91			2	182	
15	Sk96989	40mm Cartridges, in Boxes, Mark 1. **			*480	16	30	113	3,390	
	Sk96989	40mm Cartridges, B.L. & P. in Boxes, Mark 1 . . . . .			16	16	1	113	113	
	Sk99611	20mm Cartridges, in Boxes, Mk. 3 Mod 1			*3,960	180	22	118	2,596	
	Sk99611	20mm Cartridges, B.L. & P. in Boxes, Mark 3 Mod 1 . . . . .			180	180	1	118	118	
20	58469	Cal..50 Cartridges, Ball . . . . .			*3,850	350	11	110	1,210	
	283518	Cal..50 Belt Links, Metallic . . . . .			4,000	1,000	4	45	180	
<u>Drill: ##</u>										
25	Sk120142	5"/25 Cal. Cartridges, Dummy, Wooden, in Tanks Mark 3 Mod 3. . . . .	6	0	4			89	356	
	117257	5"/25 Cal. Test Cartridge Cases(empty) 45-sec. Dummy Time Fuzes . . . . .	4	0	2			14	28	
	50503	Primers, Lock, Drill. . . . .			5			2.6	13	
30	Sk96989	40mm Cartridges, Dummy in Box, Mark 1.			120	24	5	3	15	
	Sk96989	20mm Cartridges, Dummy. . . . .			16	16	1	106	106	
	Sk96989	Cal..50 Cartridges, Dummy, M1 . . . . .			60			0.7	42	
					100	10/ctn	10 ctns	2.5	25	
35	TOTAL - AMMUNITION FOR SHIPS MOUNTING 1-5"/25 CALIBER GUN, 1-40mm SINGLE, 1-20mm TWIN, 2 CAL..50 GUNS. . .									16,312***
*** Not included in TOTAL ORDNANCE WEIGHT.										
@ See Note on Page No.12.										
## Drill material stowed on tenders or at bases. Not included in TOTAL ORDNANCE WEIGHT.										
** If this quantity can not be stowed, a minimum of 288 rounds or 18 boxes of 40mm may be carried.										
# If illuminating Cartridges are carried an equal reduction in the A.A. Common will be made.										
* These are ship allowances and are not based on a per gun figure.										
+ Tank Mark 8(Sk99706) or Tank Mark 13 (Sk99763) also may be used.										

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ORDNANCE EQUIPMENT LIST FOR SUBMARINE

(A) Ordnance Publication	(B) General Arrangement or Stowage Drg No.	(C) Title	(D) Mk.	(E) Mod	(F) Number Required	(G) Number Per Box	(H) Number of Boxes	(I) Unit Wt. or Wt. Per Box	(J) Total Weight	(K)	
Ord. List 18777 Rev. D	419014	<u>AMMUNITION FOR SMALL ARMS 0</u>									
		<u>Service:</u>									
		Cal..45 Cartridges, Ball. . . . .			1,800	1,800	1	95	95		
		Cal..45 Cartridges, Dummy, M1921. . .	xx		50	50/ctn.	1	2.5	3		
	D7691906	Cal..30 Cartridges, Carbine M7. . . .	*		1,600	1,600	1	59	59		
	58469	Cal..30 Cartridges, Blank M1909. . .	**		2,000	2,000	1	82	82		
		Cal..30 Carbine Dummy M1. . . . .	xx		100	50/ctn.	2	1.5	3		
		Cal..45 Cartridges Blank (for line Throwing Gun) . . . . .			200	20/ctn.	10ctn.	8	8		
		12 Gauge Shells (No. 00 Buckshot) . .			50	25/ctn.	2ctn.	3.4	7		
		Cal..22 Cartridges, Ball. . . . .	++		10,000	10,000	1	85	85		
20977 Rev. B		Grenades, Hand Fragmentation M2A1 with Fuze M10A3. . . . .			25	25	1	53	53		
		TOTAL - AMMUNITION FOR SMALL ARMS. . . . .								395	

0 See Note on Page No. 12  
+ Stowage dimensions of box - 12-13/16" x 10-5/8" x 9-7/8".  
\* Stowage dimensions of box - 11-15/16" x 9-3/4" x 9-3/4".  
\*\* Stowage dimensions of box - 18-5/8" x 9-3/4" x 15".  
++ Stowage dimensions of box - 15-3/16" x 11-15/16" x 7-3/8".  
xx Inert material not to be stowed in magazines.

## ORDNANCE EQUIPMENT LIST

## FOR SUBMARINES

(A) Ordnance Publication	(B) Stowage Drawing	(C) General Arrangement Drg No.	(D) Title	(E) Mk.	(F) Mod	(G) Number Req'd	(H) Spares on Board	(I) Number Per Box or Gal. Per Can	(J) Number of Boxes or Cans	(K) Unit Weight	(L) Total Weight	(M)
NavOrd T.S. List 303 Rev. D			TORPEDOES AND EQUIPMENT (PLAN I) FOR SS 212-214, 217, 220-225, 228-231, 234-236, 239-247, 249, 251-256, 258-272, 274, 276, 280-283, 285-288, 291-293, 295- 305, 307-313, 315, 317-331, 333-351, 352, 362-368, 370, 372-378, 381-416, 425, 426.									
	O.P. 635	225927	Torpedoes, complete, ready for War Shot . . . . .	14	3a	24				3,185	76,440	
	O.P. 663	TG-5627 TG-4784	including the following units: War Head. . . . . Exploider Mechanism . . . . .	16	4	6						
		TG-9945 or TG-10018	Exploider Mechanism . . . . . Booster Charge . . . . .	6	10	2						
	O.S. 853 ) O.D. 3819 ) O.P. 627 (A)	173909 79972 206270 or TG-4605 63503-4	Igniter . . . . . Gyro Gears. . . . . Gyro Gears. . . . . Control Valve . . . . . Guide Stud with 4 screws Drg.No. 63797, pc.No.6. . . . .	6	2	12						
	O.S. 853 ) O.D. 3819 )	78535	Igniter (Boxed). . . . . Detonator . . . . . Detonator . . . . .	6	2	9	24	8	3	10.4	31*	
		51626	Stowage Case for Detonator Mark 9, each containing one wooden box (Drg. No. TG-10138) which contains three individual Detonator Containers (Drg. No. TG-10137) . . . . .	9			3			0.8	2	
		79954 206225 226216	Propeller Locks . . . . . Starting Lever Locks. . . . . Rudder Clamps . . . . . Box for Guide Studs and Joint Screws.				9 24 24 10 24			6.6 1.8 0.6 0.5 2.5	59 43 14 5 60	
	O.P. 627 (A)	206240 79562	206270 Gyro Gears (one in Stowage Case, Drg. No. 79454) in box . . . . . Torpedo Record Books. . . . .	12	3		1	1	1	10	10	
						24				0.25	6	

\* See Note on Page No. 17.

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## ORDNANCE EQUIPMENT LIST

## FOR SUBMARINES

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
Ordnance Publication	Stowage Drawing	General Arrangement Drg No.	Title	Mk.	Mod	Number Req'd	Spares on Board	Number Per Box or Gal. Per Can	Number of Boxes or Cans	Unit Weight	Total Weight	
NavOrd. T.S. List 303 Rev. D			<u>TORPEDOES AND EQUIPMENT (PLAN I) (Cont.)</u>									
			<u>FOR SS 417-424, 435-437, 475-490, 516, 522-525</u>									
5	O.P. 635	225927	Torpedoes, complete, ready for War Shot. including the following units:	14	3a	28				3,185	89,180	
		TG-5627	War Head . . . . .	16	4							
10	O.P. 663	TG-4784	Exploder Mechanism . . . . .	6	5 or 6							
		TG-9945	Exploder Mechanism . . . . .	6	10							
		TG-10018	Booster Charge . . . . .	2								
15	O.S. 853 ) O.D. 3819 ) O.P. 627(A)	173909 79972 206270 TG-4605 63503-4	Igniter . . . . . Gyro Gears. . . . . or Gyro Gears. . . . . Control Valve . . . . . Guide Stud with 4 screws, Drg. No. 63797 pc. No. 6.	6 12 12	2 2 3							
20	O.S. 853 ) O.D. 3819 )	78535	Igniter (Boxed) . . . . .	6	2		32	8	4	10.4	42	
		TG-10143	Detonator . . . . .	9		28						
		TG-10143	Detonator . . . . .	9			5			0.8	4	
25		51626	Stowage Case for Detonator Mark 9 each containing one wooden box (Drg. No. TG-10138) which contains three individual Detonator Containers (Drg. No. TG-10137) . . . . .						11		6.6	73
		79954	Propeller Lock . . . . .	28					11		1.8	50
		206225	Starting Lever Locks. . . . .	28							0.6	17
30		226216	Rudder Clamps . . . . .	10							0.5	5
		206240	Box for Guide Studs and Joint Screws, Gyro Gears (one in Stowage Case, Drg. No. 79454) in Box . . . . .	28							2.5	70
	O.P. 627 (A)	79562	Torpedo Record Books . . . . .	12	3	28	1	1	1	10	10	
35										0.25	7	

\* See Note on Page No. 17.

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**ORDNANCE EQUIPMENT LIST FOR SUBMARINES**

(A) Ordnance Publication	(B) Stowage Drawing	(C) General Arrangement Drg No.	(D) Title	(E) Mk.	(F) Mod	(G) Number Req'd	(H) Spares on Board	(I) Number Per Box or Gal. Per Can	(J) Number of Boxes or Cans	(K) Unit Weight	(L) Total Weight	(M)
<u>TORPEDOES AND EQUIPMENT (PLAN I) (Cont.)</u>												
<u>Miscellaneous Supplies</u>												
5	O.S. 856		Alcohol . . . . . (Gallons) ***				45	5	9	34	306	
			Hot Running Torpedo Oil . . (Gallons) ***				45	5	9	38.5	347	
			Light Lubricating Oil . . . (Gallons)			15		5	3	39.5	119	
	O.S. 814		Compound Steam Cylinder Oil (Gallons)			1		1	1	7.4	7	
			Gyro Oil . . . . . (Bottles)			2			2	.5	1	
10	O.S. 812		Petrolatum . . . . . (Pounds)			50		10	5	10	50	
	O.S. 2526		Tail Packing Compound . . . (Pounds)			30		10	3	10	30	
			Gasket Sealing Wax . . . . (Carton)			4			4	0.5	2	
			Gasket Sealing Compound . . (Pounds)			4					4	
15	TOTAL - TORPEDOES AND EQUIPMENT (PLAN I) FOR SS 212-214, 217, 220-225, 228-231, 234-236, 239-247, 249, 251-256, 258-272, 274, 276, 280-283, 285-288, 291-293, 295-305, 307-313, 315, 317-331, 333-351, 352, 362-368, 370, 372-378, 381-416, 425, 426. . . . .											77,536
20	TOTAL - TORPEDOES AND EQUIPMENT (PLAN I) FOR SS 417-424, 435-437, 475-490, 516, 522-525 . . . . .											90,324
25												
30												
35												
40												

\* Weight included in weight of Torpedo.  
 \*\*\* In listing these quantities of Spare Alcohol and Hot Running Torpedo Oil it is presupposed that Torpedoes are ready for War Shot with fuel and Oil tanks filled.

**ORDNANCE EQUIPMENT LIST FOR SUBMARINES**

(A) Ordnance Publication	(B) Stowage Drawing	(C) General Arrangement Drg No.	(D) Title	(E) Mk.	(F) Mod	(G) Num- ber Req'd	(H) Spares on Board	(I) Number Per Box or Gal. Per Can	(J) Number of Boxes or Cans	(K) Unit Weight	(L) Total Weight	(M)
NavOrd T.S. List 303 Rev. D			<u>TORPEDOES AND EQUIPMENT (PLAN II) FOR SS 212-214, 217, 220-225, 228-231, 234-236, 239-247, 249, 251-256, 258-272, 274, 276, 280-283, 285-288, 291-293, 295-305, 307-313, 315, 317-331, 333-351, 352, 362- 368, 370, 372-378, 381-416, 425, 426.</u>									
5												
	O.P. 946	350424	Torpedo, complete, ready for War Shot including the following units:	18	1	24				3,040	72,960	
10		350438	War Head . . . . .	18	1or 2							
		TG-9926	or War Head . . . . .	18	4							
	O.P. 663	350437	Exploder Mechanism . . . . .	8	1							
15	O.P. 627 (A)	TG-10018	Booster Charge . . . . .	2								
		206270	Gyro Gears . . . . .	12	3							
	O.P. 663	TP-77089	Guide Stud with 4 screws									
		TG-10154	Detonator . . . . .	8	2	24				0.8	*	
		TG-10154	Detonator . . . . .	8	2		3			0.8	2	
20	51626		Stowage Case for Detonators Mark 8 Mod 2 each containing 1 wooden box (Drg.No.173849) which contains three individual Detonator Contain- ers (Drg.No.225406). . . . .									
		357268	Propeller Locks . . . . .			9				7.2	65	
25	O.S. 891	206240	Box for Guide Studs and Joint Screws. .			24				1.8	43	
			Torpedo Record Books . . . . .			24				2.5	60	
			Electrolyte . . . . . (Gallon)			2				0.25	6	
											23	
30			<b>TOTAL - TORPEDOES AND EQUIPMENT (PLAN II) FOR SS 212-214, 217, 220-225, 228-231, 234-236, 239-247, 249, 251-256, 258-272, 274, 276, 280-283, 285-288, 291-293, 295-305, 307-313, 315, 317-331, 333-351, 352, 362-368, 370, 372-378, 381-416, 425, 426.</b>								73,159	
35												
40												

\* See Note on Page No. 17.

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**ORDNANCE EQUIPMENT LIST FOR SUBMARINES**

(A) Ordnance Publication	(B) Stowage Drawing	(C) General Arrangement Drg No.	(D) Title	(E) Mk.	(F) Mod	(G) Number Req'd	(H) Spares on Board	(I) Number Per Box or Gal. Per Can	(J) Number of Boxes or Cans	(K) Unit Weight	(L) Total Weight	(M)
NavOrd. T.S.List 303Rev.D			<u>TORPEDOES AND EQUIPMENT (PLAN II)</u> <u>FOR SS 417-424, 435-437, 475-490, 516,</u> <u>522-525</u>									
8	O.P.946	350424	Torpedo, complete, ready for War Shot.	18	2	28				3,040	85,120	
		350438	including the following units: War Head. . . . .	18	10x							
		TG-9926	War Head. . . . .	18	2							
10	O.P.663	250437	Exploder Mechanism. . . . .	8	7							
		TG-10018	Booster Charge. . . . .	2								
	O.P.627(A)	206270	Gyro Gears. . . . .	12	3							
		TP-77089	Guide Stud with 4 screws									
15		TG-10154	Detonator . . . . .	8	2	28				0.8	*	
		TG-10154	Detonator . . . . .	8	2		5			0.8	4	
	51626		Stowage Case for Detonator Mark 8 Mod 2, each containing 1 wooden box (Drg.No.173849) which contains three individual containers (Drg. No.225406). . . . .			11				7.2	79	
20	O.S.891	357268	Propeller Locks. . . . .			28				1.8	50	
	206240		Box for Guide Studs and Joint Screws. .			28				2.5	70	
			Torpedo Record Books. . . . .			28				.25	7	
25			Electrolyte . . . . .(Gallons)			2					23	
30			<b>TOTAL - TORPEDOES AND EQUIPMENT (PLAN II) FOR</b> <b>SS 417-424, 435-437, 475-490, 516, 522-525. . . . .</b>								<b>85,353</b>	
35												
40												

\* See Note on Page No. 17

**ORDNANCE EQUIPMENT LIST FOR SUBMARINES**

(A) Ordnance Publication	(B) Stowage Drawing	(C) General Arrangement Drg No.	(D) Title	(E) Mk.	(F) Mod	(G) Number Req'd	(H) Spares on Board	(I) Number Per Box or Gal. Per Can	(J) Number of Boxes or Cans	(K) Unit Weight	(L) Total Weight	(M)
<b><u>MINES AND TORPEDOES (ALTERNATIVE EQUIPMENT)</u></b>												
NavOrd. T.S.List 303Rev.D O.P.948 O.P.635		363057 225927	Mines, complete . . . . . #	10	3	40				1,800	72,000	
5			Torpedoes, complete, ready for War Shot . . . . . ##	14	3a	4				3,185	12,740	
			including the following units:									
O.P.663		TG-5627 TG-4784	War Head . . . . .	16	4							
			Exploder Mechanism . . . . .	6	5or 6							
10		TG-9945	Exploder Mechanism . . . . .	6	10							
		TG-10018	Booster Charge . . . . .	2								
		173909	Igniter . . . . .	6	2							
O.P.627(A)		79972	Gyro Gears. . . . .	12	2							
		206270	or Gyro Gears. . . . .	12	3							
15		TG-4605	Control Valve									
		63503-4	Guide Stud with 4 screws, Drg.No. 63797 pc. No.6.									
O.S.853 O.D.3819	78535	173909	Igniter (Boxed) . . . . .	6	2		8	8	1	10.4	10	
		TG-10143	Detonator . . . . .	9		4					*	
	51626	TG-10143	Detonator . . . . .	9			2			0.8	2	
			Stowage Case for Detonator Mark 9 each containing one wooden box (Drg. No.TG-10138)which contains three individual Detonator Containers (Drg.No.TG-10137) . . . . .							6.6	13	
25		79954	Propeller Locks . . . . .			2				1.8	7	
		206225	Starting Lever Locks. . . . .			4				0.6	2	
		226216	Rudder Clamps . . . . .			10				.5	5	
30	206240		Box for Guide Studs with Joint Screws			4				2.5	10	
O.P.627(A)	79562	206270	Gyro Gears (one in Stowage Case,Drg. No.79454) in box . . . . .	12	3		1	1	1	10	10	
			Torpedo Record Books . . . . .			4				0.25	1	

\* See Note on Page No. 17  
 # The following Mines may be provided instead of Mark 10 Mod 3; Mark 10 Mod 1  
 (weight 1,760-lbs. Drg.No.363057); Mark 12 (weight 1,500-lbs.,Drg.No.231480).  
 ## Torpedo Mark 18 Mod 1 (Drg.No.350424, weight 3,040-lbs.) or Torpedo Mark 23 Mod 1  
 (Stowage Drg.No.225794, weight 3,176-lbs.) may be furnished instead of Torpedo  
 Mark 14 and Mods.

ORDNANCE EQUIPMENT LIST FOR SUBMARINES

(A) Ordnance Publication	(B) Stowage Drawing	(C) General Arrangement Drg No.	(D) Title	(E) Mk.	(F) Mod	(G) Number Req'd	(H) Spares on Board	(I) Number Per Box or Gal. Per Can	(J) Number of Boxes or Cans	(K) Unit Weight	(L) Total Weight	(M)
MINES AND TORPEDOES (ALTERNATIVE EQUIPMENT) (Cont.)												
			Alcohol. . . . . (Gallons)***				15	5	3	24	102	
			Hot Running Torpedo Oil. . (Gallons)				15	5	3	38.5	116	
5			Light Lubricating Oil. . . (Gallons)			5		1	1	39.5	40	
			Compound Steam Cylinder Oil (Gallons)			1		1	1	7.4	7	
			Gyro Oil . . . . . (Bottles)			2			2	5	1	
			Petrolatum . . . . . (Pounds)			20		10	2	10	20	
			Tail Packing Compound. . . (Pounds)			10		10	1	10	10	
10			Gasket Sealing Wax. . . . (Carton)			2			2	0.5	1	
			Gasket Sealing Compound . . (Pounds)			2					2	
TOTAL - MINES AND TORPEDOES (ALTERNATIVE EQUIPMENT) . . . . .											85,099*	

\*\*\* See Note on Page No.17  
 \* Not included in TOTAL ORDNANCE WEIGHT.

ORDNANCE EQUIPMENT LIST

FOR SUBMARINES

(A) Standard Ord. List	(B) Title	(C) Number Sets Allowed Per Ship	(D) Unit Weight	(E) Total Weight	(F)	(G)
<u>SPARE PARTS, TOOLS AND ACCESSORIES</u>						
<u>5"/25 Caliber Battery</u>						
5	20551	Accessories. . . . .	2	63*	126	
	20552	Housing Mark 9 Mod 0 . . . . .	2	24	48	
	20553	Mount, Mark 40 Mod 0 . . . . .	2	2##	4	
	20553	Sight, Mark 42 Mod 0 . . . . .	2	2*	4	
	20554	Tools. . . . .	2	195	390	
10	Total - 5"/25 Caliber Battery . . . . .				572	

\* Weight does not include Spare Boresight or Telescope. These instruments are included on Page No. 8  
 ## Includes Spare Parts for Carriage, Elevating Gear and Slide.

## ORDNANCE EQUIPMENT LIST

## FOR SUBMARINES

(A) Standard Ord. List	(B) Title	(C) Number Sets Allowed Per Ship	(D) Unit Weight	(E) Total Weight	(F)	(G)
	<u>SPARE PARTS, TOOLS AND ACCESSORIES (Cont.)</u>					
	<u>40mm Single Battery</u>					
5 18699 Rev. C#	Spare Parts, Tools and Accessories					
18674 Rev. C#	40mm Single Gun M-1 Spare Parts, Tools and Accessories . . . . .	2	136	272		
342575##	Gun Barrel Assembly . . . . .	2	296	592		
10 18673 Rev. C#	Mount Spare Parts, Tools and Accessories. .	2	212	424		
21303	40mm Single M-1 Additional Spare Parts. . .	1	10	10		
	Total - 40mm Single Battery . . . . .			1,298		
	<u>20mm Antiaircraft Battery,</u>					
15 21207 Rev. A	Spare Parts, Tools and Accessories consisting of -					
20 21208 Rev. A	20mm Gun Mark 4 Mod 1 (Twin) Spare Parts, Tools and Accessories. . . . .	1	140	140		
21211 Rev. A	20mm Mount Mark 24 Mods (Twin) Spare Parts and Tools . . . . .	1	9	9		
25 8k100343 299901##	Gun Barrel, Mark 4 Mod 1. . . . .	2	46	92		
	Total - 20mm Antiaircraft Battery . . . . .			241*		
	<u>Caliber .50 Battery</u>					
	Spare Parts and Accessories for Gun, Machine, Cal..50 Browning, M2 Aircraft Basic . . . . .	4	28	112		
35	Spare Parts for Cal..50 Mount Mark 26 Mod 0	1	10E	10E		
	Total - Caliber .50 Battery . . . . .			122		

40 # Weights listed are for Revision B. Spare Parts Weights for Revision C will be  
furnished when available.

## Drawing Number.

E Estimated Weight.

\* For informational purposes only. Weight not included in Total Ordnance Weight.

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## ORDNANCE EQUIPMENT LIST

## FOR SUBMARINES

(A) Standard Ord. List	(B) Title	(C) Number Sets Allowed Per Ship	(D) Unit Weight	(E) Total Weight	(F)	(G)
<u>SPARE PARTS, TOOLS AND ACCESSORIES (Con't.)</u>						
<u>Fire Control Equipment</u>						
5	91502	Spare Parts for Gyro-Setting Indicator Regulator Mark 1 Mod . . . . .	1	73	73	
9	3860	Spare Parts for Torpedo Data Computer Mark 4. . . . .	1	100	100	
10	107190	Spare Parts and Special Tools for Target Bearing Transmitter Mark 8 Mod O. . . . .	1	15	15	
10	107192	Spare Parts and Special Tools for Target Bearing Transmitter Mark 9 Mod O. . . . .	1	29	29	
15	107196	Spare Parts and Special Tools for Bearing Transmitter Mark 11 Mod O. . . . .	1	25	25	
Total - Fire Control Equipment . . . . .					242	
<u>Small Arms</u>						
25		Accessories for Carbines, Cal..30 Ml. . . . .	1	11	11	
25		Accessories for Pistols, Cal..45. . . . .	1	26	26	
25		Spare Parts and Accessories for Thompson Submachine Gun, Cal..45. . . . .	1	10	10	
Total - Small Arms . . . . .					47	

## ORDNANCE EQUIPMENT LIST

## FOR SUBMARINES

(A) Standard Ord. List	(B) Title	(C) Number Sets Allowed Per Ship	(D) Unit Weight	(E) Total Weight	(F)	(G)
	<u>SPARE PARTS, TOOLS AND ACCESSORIES (Con't.)</u>					
	<u>Torpedo Tube Material</u>					
5	Ord. List 19910 Torpedo Tube Spare Parts, Tools and Accessories . . . . .	1	200	200		
	Total - Torpedo Tube Material . . . . .			200		
10	<u>Torpedoes and Equipment</u>					
15	Torpedo Spare Parts and Washers as listed in BuOrd Sk.No.41426, Sheet No.1 . . . . .	1	50	50		
	Torpedo Tools in accordance with BuOrd Sk.No.41732, Sheets 1 to 3 . . . . .	1	50	50		
20	Spare Parts and Washers for Submarines for Mark 18 Torpedoes in accordance with BuOrd Sk.No.41729, Sheets 1 and 2 . . . . .	1	25	25		
	Miscellaneous Torpedo and Workshop Equip- ment consisting of remainder of items re- quired by N.T.S. List No.303 Rev. D. . . . .	1	150	150		
25	Total - Torpedoes and Equipment . . . . .			275		
	TOTAL - SPARE PARTS, TOOLS AND ACCESSORIES. . . . .			2,756		

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