

RESTRICTED

OP 0

(TWENTY-THIRD REVISION)

INDEX OF ORDNANCE PUBLICATIONS



7 MAY 1946

This publication is RESTRICTED and shall be safeguarded in accordance with the security provisions of U. S. Navy Regulations, 1920, Article 76

**NAVY DEPARTMENT
BUREAU OF ORDNANCE
WASHINGTON 25, D. C.**

RESTRICTED

7 May 1946

ORDNANCE PAMPHLET 0 (TWENTY-THIRD REVISION)

INDEX OF ORDNANCE PUBLICATIONS

1. Ordnance Pamphlet 0 (Twenty-third Revision) is a listing of the following types of UNCLASSIFIED, RESTRICTED, and CONFIDENTIAL Ordnance publications stocked for issue by the Bureau of Ordnance:

Ordnance Pamphlets
Ordnance Data
Ordnance Technical Instructions
Ordnance Handling Instructions
Ordnance Modification Instructions
Ordnance Charts
War Department Publications


(NOTE: An index of Ordnance Circular Letters may be found in NAVORD OCL's CE1-45 and CE1a-45, "Ordnance Circular Letters—Cumulative Editions.")

2. Part 1 comprises a numerical listing. Each publication is again listed in Part 2, a subject index, by type of equipment. Part 3 contains a check list of Ordnance Pamphlets, Ordnance Data, and War Department publications most frequently requested and required by ships armed with 5-inch or smaller caliber guns.

3. Methods of distributing and instructions for ordering Ordnance publications are outlined in the introduction to this index.

4. This publication supersedes Ordnance Pamphlet 0 (Twenty-second Revision), which should be destroyed.

5. This pamphlet is RESTRICTED and shall be safeguarded in accordance with the security provisions of U. S. Navy Regulations, 1920, Article 76.



G. F. HUSSEY, JR.
Vice Admiral, U. S. Navy
Chief of the Bureau of Ordnance

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INTRODUCTION

DISTRIBUTION OF ORDNANCE PUBLICATIONS

Initial Distribution

All new Ordnance publications, and publications indicated as under preparation or revision in this index, will be automatically distributed to interested activities without request. Publications are initially distributed to Commanding Officers of Naval activities in accordance with the Standard Navy Distribution List.

How Initial Distributions Are Made

Information copies of Ordnance publications concerning specific Ordnance equipment are forwarded without request to the following:

- (1) To all Naval activities to which specific Ordnance equipment is assigned.
- (2) To activities which may be called upon to stow, transport, overhaul, repair, or otherwise handle specific Ordnance equipment.
- (3) To activities which train personnel in the operation, maintenance, repair, or handling of Ordnance equipment.
- (4) To higher echelons to which the above mentioned Naval activities are directly responsible.

Redistribution by Addressee

It is the responsibility of the Commanding Officer of each activity to insure distribution of Ordnance instructions to the officers and enlisted personnel working with applicable equipment, or otherwise responsible. It is also the responsibility of the Commanding Officer to distribute to subordinate activities under the command which are not listed in the Standard Navy Distribution List.

Reference Library

It is recommended that as Ordnance publications are received on initial distribution, a reference library or central file be made accessible to the officers and enlisted personnel whose work is concerned with Ordnance.

Number of Copies Forwarded for Redistribution and File

At the present time, this Bureau automatically forwards two (2) copies of applicable Ordnance pub-

lications to Naval activities included on the Standard Navy Distribution List unless it is otherwise indicated in the distribution list printed in each publication. Distribution to larger Naval activities, such as Navy Yards, has been established at five (5) copies or multiples of five (5) copies. Upon request, this Bureau will increase the number of copies now forwarded in order to meet the specified requirements of the requesting activity.

Commissioning Allowances

Commissioning Allowances of applicable Ordnance publications are automatically forwarded as indicated below. Each activity will receive all applicable publications on initial distribution.

To Ships. Publications for Naval vessels (LCIL and larger) are forwarded to the Prospective Commanding Officer in care of the Builder's Yard or Commissioning Detail. Shipment is made from 1½ to 3 months in advance of the commissioning date, depending on the type of ship.

To Aviation Activities at the times indicated below:

Each newly commissioned Aviation Squadron or Service Unit is responsible for securing its own commissioning allowance of Ordnance publications from the nearest Aviation Ordnance Publications Distribution Point in accordance with instructions placed in its commissioning jacket. These instructions will specify that the commissioning allowance be obtained by submitting NAVORD FORM 1 (ORDNANCE PUBLICATIONS AND FORMS REQUISITION) to the nearest Aviation Ordnance Publications Distribution Point listed thereon, requesting the following:

- (a) NAVORD LIST 20870 (Aviation Ordnance Allowances)
- (b) All applicable publications listed on NAVORD FORM 1412A (Commissioning Allowance of Ordnance Publications for Aviation Activities)
- (c) All applicable Aviation Ordnance publications issued subsequent to date of NAVORD FORM 1412A

Air Stations and Air Facilities will be forwarded their commissioning allowances automatically at the date of commissioning.

Advanced Base Aviation Functional Components at their initial assembly points. Air Ordnance Departments of Aircraft Carriers are designated to receive applicable publications from the commissioning Allowance shipped the PCO of the CVB, CV, CVE, or CVL 2½ months before the commissioning date.

To Advanced Base Functional "J" Components. Publications are forwarded by Bureau of Ordnance shipment order to the initial assembly point of each component. Subsequent initial distributions of Ordnance publications applicable to these activities are made to all *LIONS*, *CUBS*, *ACORNS* and *ARGUS UNITS*.

To Other Naval Activities Commissioning Allowances of Ordnance publications are individually determined for major shore establishments requiring Ordnance information.

Commissioning Allowance List (NAVORD FORM 1412)

This list enumerates all current Ordnance publications applicable to the Ordnance equipment assigned a specific type of activity and accompanies the shipment of the Commissioning Allowance. Ordnance publications should be checked against the allowance list provided and not against an allowance list prepared for any other ship or activity.

HOW TO ORDER ADDITIONAL ORDNANCE PUBLICATIONS

Nonregistered Publications. Requests for non-registered Ordnance publications not automatically received or for additional copies of publications received on initial distribution, should be submitted on NAVORD FORM 1 (Rev. 8/45) by the Commanding Officer to the nearest Ordnance Publications Distribution Center: Washington, D. C.; Mare Island, Calif.; Pearl Harbor, T. H. Distribution Center mailing addresses may be obtained from the Standard Navy Distribution List, or from the reverse side of NAVORD FORM 1. Copies of NAVORD FORM 1 are included in each copy of OP 0 (23rd Rev.), and additional copies may be obtained from the nearest Ordnance Publications Distribution Center.

Aviation Ordnance Publications. The reverse side of NAVORD FORM 1 also lists aviation activities serving as distribution points for Avia-

tion Ordnance publications, to which requests made out on this form may be addressed.

War Department Publications. War Department publications whenever applicable are initially distributed and furnished on Commissioning Allowances to Naval activities in the same manner as Bureau of Ordnance publications. Requests for War Department publications not included in this Index of Ordnance Publications shall be made to the Bureau of Ordnance accompanied by a notation of the Army equipment in Navy use to which the requested War Department publication applies.

Registered Publications. Registered Ordnance publications are distributed by the Chief of Naval Operations (DNC), Registered Publication Section, and may be obtained in accordance with instructions currently set forth by the Chief of Naval Operations in Letter 44-89 dated 15 January 1944, reprinted in Navy Department Bulletin of All Ships and Stations Letters January to June 1944.

NAVORD ORDALTS, Requests for NAVORD ORDALTS should be directed to the nearest Naval Shipyard; or to the Bureau of Ordnance Publications Distribution Center at the U. S. Naval Gun Factory, Washington 25, D. C.

Caution. It is essential that the correct abbreviation for each publication as listed in the applicable index be used to avoid misunderstanding and thus to speed the handling of orders.

DISPOSITION OF EXCESS COPIES OF NON-REGISTERED ORDNANCE PUBLICATIONS

Decommissioned activities or other activities with excess copies of Ordnance publications shall be guided by the following in their disposition:

Ordnance publications which should be returned:

Bureau of Ordnance Manual

Ordnance Pamphlets (OPs) hard covers

Ordnance Pamphlets (OPs) on major caliber gun turret assemblies

Unclassified publications

NAVORD CHARTS which may be rolled

War Department Technical Manuals on small arms

When in condition suitable for reissue, the above Ordnance publications should be returned to the nearest Ordnance Publications Center or Subcenters listed below:

The Superintendent
U. S. Naval Gun Factory
Washington 25, D. C.
(Attention: Ordnance Publications
Distribution Center)

Ordnance Publications Subcenter at
Pearl Harbor, T. H.
Mare Island, California

Ordnance Publications, drawings and forms which should be destroyed in accordance with U. S. Navy Regulations, 1920:

The handling and stowage costs involved in returning certain printed matter are disproportionate to the possible savings.

1. Nonregistered Ordnance publications classified as **CONFIDENTIAL**, except those indicated above, should be burned.

2. Nonregistered Ordnance publications classified as **RESTRICTED**, except those indicated above, should be shredded and salvaged in accordance with the present practice.

3. Ordnance drawings classified as **CONFIDENTIAL** should be burned; **RESTRICTED** or unclassified drawings should be shredded and salvaged.

4. Excess Ordnance forms should be shredded and salvaged.

DISPOSITION OF OBSOLETE NONREGISTERED ORDNANCE PUBLICATIONS

All nonregistered publications, when declared obsolete by Bureau of Ordnance letters to All Ships and Stations published in the Navy Depart-

ment Semimonthly Bulletin (Restricted), should be destroyed in accordance with U. S. Navy Regulations, 1920.

HANDLING OF REGISTERED ORDNANCE PUBLICATIONS

Registered Ordnance publications (ORDs) shall be handled in accordance with RPS 4 and U. S. Navy Regulations, 1920, Article 76.

SUPPLEMENTARY LISTINGS OF ORDNANCE PUBLICATIONS

The following sources are available for periodic listing of Ordnance publications:

Navy Department Semimonthly Bulletin. Bureau of Ordnance "All Ships and Stations" letters list new and/or revised Ordnance publications as soon as they are initially distributed. These Bulletins also contain Bureau of Ordnance letters issued when Ordnance publications are declared obsolete.

NAVAER 00-500. This Bureau of Aeronautics publication also lists current Aviation Ordnance publications which should be ordered from Ordnance Publications Distribution Centers as outlined in this introduction.

OTHER TYPES OF ORDNANCE PUBLICATIONS

(Not listed in OP 0)

Title	Short Title	Index (if any)
Bureau of Ordnance Manual	None	None
Ordnance Circular Letters	NAVORD OCL	CE 1-45 (Res)
Ordnance Circular Letters	NAVORD OCL	CE 1a-45 (Conf.)
Registered Ordnance Pamphlets	ORD	RPS 6
Ordnance Specifications	NAVORD OS	None
Ordnance Standards	NAVORD OSTD	NAVORD OSTD 0
Ordnance Alterations	NAVORD ORDALT	NAVORD ORDALT 00
Bulletin of Ordnance Information	NAVORD INFO	None
Ordnance Allowance Lists	NAVORD LISTS	None
Ordnance Reports	NAVORD REPORTS	None
Bureau of Ordnance Forms	NAVORD FORMS	None
Bureau of Ordnance Drawings	None	Bureau of Ordnance List Sketches
Bureau of Ordnance Line Sketches	None	None
Bureau of Ordnance Armament Summary	None	None

PART 1

NUMERICAL LISTING

* Under preparation.

Upon completion, publication will be distributed without request.

Under revision.

Upon completion, revision will be distributed without request.

New and revised publications, when available, are announced in the Navy Department Semimonthly Bulletin.

D—Unclassified, R—Restricted, C—Confidential.

ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
0	Index of Ordnance Publications.....	7 May 46	R	23rd rev
#1	Preparation of Ordnance Publications (<i>Preliminary</i>).....	11 Dec 44	D	1st rev. Issued with Change 1, dated 22 Feb 45 and Change 2, dated 31 Jul 45
#4	Ammunition, Instructions for the Naval Service Afloat.....	4 May 43	R	Revised. Issued with OCLs A10-43, A97-43, A97a-43, A41-44, and Change 1 dated 1 Jun 45
5	Ammunition Ashore Vol. 1.....	10 Jun 44	R	1st rev. Issued with Change 1 dated 23 Mar 45, Change 2 dated 24 Apr 45, Change 3 dated 22 Jun 45, Change 4 dated 19 Jul 45, Change 5 dated 23 Sep 45, and Change 6 dated 16 Oct 45
9	Gun Forgings, Army and Navy, Specifications for.....	May 1936	D	5th rev
18	Turret Guns and Sights, Instructions for Installation and Test of	Apr 1921	D	1st rev. Where instructions conflict with OP 762 the latter governs
35	Depth Charge Release Gear.....	Feb 1930	R	2nd rev. Issued with OCLs M15-42 and M5-43. Formerly registered. Will be superseded by OP 904
60	Index of Assemblies for U. S. Navy Mounts and Turrets Includes Guns Caliber 20-mm to 16"	29 Apr 44	R	5th rev
76	1 Pdr Range Table 2,000 fsiv to 3,500 Yds 40 cal Gun.....	Jun 1907	D	Supersedes OD 1460
81	3 Pdr Range Table 2,200 fsiv to 4,500 Yds 50 Cal Weight of Projectile 3.30 lbs Siacci's Method Corrected for Altitude, Ingall's Ballistic Table	May 1907	D	Supersedes Sk 1104
85	3 Pdr Breech Mechanism Mk 10.....	5 Apr 11	D	
93	6 Pdr Guns Rapid Fire Case Mks 1 and 2, Hotchkiss Mks 1 and 2, Driggs-Schroeder Mks 1 and 2 and Army Mk 3, Nordenfelt Mk 2	Dec 1902	D	Now Mks 3, 6, 7, 8, 10
95	6 Pdr Gun Mk 9 (Semi-automatic) Formerly Maxim-Nordenfelt Mk 2	Jan 1903	D	
96	6 Pdr Breech Mechanism Mk 9 Driggs-Seabury Type.....	May 1911	D	
98	6 Pdr Range Table 2,240 fsiv to 8,000 Yds Weight of Projectile 6 lbs Siacci's Method Corrected for Altitude, Ingall's Ballistic Tables	Jan 1918	D	1st rev

To requisition Ordnance Publications, use NAVFORD FORM 1 (Rev 8-45)

#Under revision.

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ORDNANCE PUBLICATIONS

OP O

OP No.	Title	Date	Class	Remarks
100	5" AA Mount Mk 19 and Mk 19 Mod 1, Assemblies 208, 211, 219, and 220, Description	Apr 1929	R	Page 21a added Mar 1933. Issued with Change 1 dated 30 Mar 44, Change 2 dated 21 Jun 45, and Change 3 dated 29 Jun 45. Supersedes OD 567
101	1, 3, and 6 Pdr Breech Mechanisms Mk 1 and 2, Hotchkiss (3 Pdr Mk 1 only)	Nov 1902	D	
103	6 Pdr Semi-automatic Breech Mechanism Mk 7.....	May 1903	D	
#105	Rangefinders—Care & Operation.....	May 1931	R	Issued with Change 1 dated 17 Jul 44. Supersedes OPs 356 and 456. Will be superseded by OPs 962 and 963
110	Gun Director Mk 18 and Mk 18 Mod 1 for 8" Twin Mounts. Director Firing Installation, Arma Type for CVs 2 and 3	Oct 1927	R	Supersedes ODs 895, 896, and 897. OP 756 only applicable OP to main Battery to <i>Texas</i> and <i>Saratoga</i> (Formerly registered)
112	6" Range Table 3,000 fsiv to 26,000 Yds for Submarine Gun .53 Cal	Mar 1927	R	Issued with Change 1 dated 2 May 44. Change 2 dated 14 Feb 45. Addenda A superseded by OP 1026. Supersedes OD 919
116	6" Range Table 2,300 fsiv to 19,000 Yds, Submarine Gun .53 Cal	Mar 1927	R	Issued with Change 1 dated 2 May 44, and Change 2 dated 14 Feb 45. Supersedes OD 918
#127	U.S. Naval Guns, Their Mk and Mods Description.....	Apr 1942	R	3rd rev
134	3" Range Table 1,650 fsiv to 5,000 Yds Blunt Pointed Projectile, Gun Mk 13 .23 Cal	Jun 1907	D	Supersedes Sk 1490
142	3" Breech Mechanism Mk 6.....	Apr 1911	D	
165	4" Gun Mounts .50 Cal Pedestal Type Mk 12 and Mk 12 and Mods	Jun 1943	R	1st rev. Supersedes OPs 150-A and 159
168	12" Range Table 2,900 fsiv to 34,000 Yds (50 Cal).....	May 1927	R	Issued with Change 1 dated 7 Feb 45. Supersedes OD 862
169	12" Range Table 2,100 fsiv to 21,000 Yds 45 and 50 Cal.....	Jun 1927	R	Issued with Change 1 dated 7 Feb 45. Supersedes OD 868
183	5" Range Table 2,300 fsiv to 12,600 Yds (51 Cal).....	Jul 1922	R	Supersedes OD 508
184	5" Range Table 3,000 fsiv to 19,000 Yds Long Pointed Projectile (i) 0.61 to (50 Cal)	Feb 1921	D	Supersedes Sk 3240
185	5" Range Table 3,150 fsiv to 22,600 Yds (51 Cal).....	Jun 1922	R	Supersedes OD 490
194	6" Range Table 2,300 fsiv to 17,500 Yds (i) 0.68 (50 and 53 Cal)	Aug 1921	D	Supersedes OD 452
195	6" Guns Mk 1, 2, 3, 4, 6.....	Oct 1902	D	
200	6" Range Table 2,800 fsiv to 25,000 Yds Long-Pointed Projectiles (i) 0.61 (50 Cal)	Feb 1921	D	1st rev. Modified by OP 1004. Supersedes Sk 3579
201	6" Range Table 2,600 fsiv to 15,000 Yds (i) 0.61 (50 Cal).....	May 1910	D	Supersedes Sk 3578
203	6" Range Table 2,150 fsiv to 18,000 Yds Long Pointed Projectile (i) 0.61 (50 Cal)	Feb 1921	D	1st rev. Accompanied by BuOrd Memo (Mn)
219	6" Mount Mk 16 (Twin) .53 Cal for <i>Cruisers</i> 4 to 13.....	Jun 1923	R	Available only on Bureau approval
225	7" Breech Mechanism Mk 1.....	Jun 1910	D	
227	8" Range Table 2,300 fsiv to 24,300 Yds (55 Cal).....	Oct 1927	R	Issued with Change 1 dated 2 May 44. Supersedes OD 940

#Under revision.

NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
230	14" Range Table 2,700 fsiv to 39,000 Yds (45 Cal).....	Jan 1928	R	Supersedes OD 989 and OP 211
239	Firing Locks, General Description of all Mk's and Mods.....	Jan 1941	R	3rd rev. COVERS Mk 8 Mod 2, Mk 9 Mod 2 and Mk 14 Mods 2, 3, 4
241	Binoculars Mk 11 and Mk 11 Mod 1, Description and Care.....	Apr 1928	R	Supersedes OD 899
243	8" Range Table 2,700 fsiv to 30,500 Yds (55 Cal).....	Aug 1928	R	Issued with Addenda A dated 1 Sep 42, Change 1 dated 2 May 44. Supersedes OD 1572
283	14" Breech Mechanism General Description of All in Service....	Apr 1930	R	Supersedes OPs 503, 506, 550
289A	12" Naval Rifles, Description.....	Aug 1918	D	
324D	Annual Torpedo Record, USN 1925.....	1 Sep 25	C	Formerly Registered. Issued only on Bureau approval
324E	Annual Torpedo Record, USN 1926.....	Sep 1926	C	Do
324F	Annual Torpedo Record, USN 1927.....	1 Sep 27	C	Do
324G	Annual Torpedo Record, USN 1928.....	1 Sep 28	C	Do
324H	Annual Torpedo Record, USN 1929, 1930, and 1931.....	1 Sep 31	C	Do
324I	Annual Torpedo Record, USN 1932.....	1 Sep 32	C	Do
324K	Annual Torpedo Record, USN 1933, and 1934.....	1 Sep 34	C	Do
348	Ballistics (Projectile) Underwater Trajectories and Behavior on Impact with Water	Jul 1912	D	
357	Rangefinders (U. S. Navy) Description Mk 1 Mod 1 Mk 2 and Mk 2 Mods 1, 2, 3 Mk 3, Mk 4 Mods 4 and 5, Mk's 5, 6, 7, 8, 9, 10, 11	Feb 1913	R	
382B	Projectiles, Bombardment, Field, AA, Illuminating, Flat-Nose, Gas, Smoke, & Marker—Specifications for Projectile Bodies	Mar 1937	D	Reinstated, 1st rev
386B	Target Projectiles and Proof Shot, Specifications for.....	Apr 1935	D	1st rev
390	Illuminating Projectiles, Description and Range Tables.....	Jan 1921	R	1st rev. With Drift Curves. Supersedes ODs 388, 405. See OCL A88-43 for obsolete projectiles
392	Director Firing Installation, Vickers Type Directorscopes Mk's 7 and 8	May 1923	R	Formerly Registered
393	Director Firing Installation, U. S. Navy Type.....	Aug 1918	R	Formerly Registered. Includes Directorscopes Mk's 1 to 4
394	Rangefinder Mk 33 and Mk 33 Mods 1 and 2 Description.....	Sep 1930	R	With correction to page 35
#400	Specifications for the Manufacture and Inspection of Ordnance Material	Nov 1939	D	7th rev. Supplemented by OP 400A. Issued with Change 1 dated 7 Feb 45, Change 2 dated 11 Apr 45, and Change 3 dated 25 Apr 45
400-A	Specifications for the Manufacture and Inspection of Guns, Gun Barrels, Breech Mechanisms and Breech Housings	Mar 1939	D	1st rev. Supplements OP 400
411	Practical Interior Ballistics.....	Dec 1916	D	Used primarily for Gun Designers
416	Periscopes for Turrets, Torpedo Directors and Fire Control....	May 1918	R	
#416A	Periscopes for Turrets, Torpedo Director and Fire Control....	Apr 1914	R	Revision deferred, will supersede OP 495 when completed
423	Spotting Glasses Mk's 1 to 4, Description, Care and Handling.....	Nov 1923	R	
426	Spotting Telescopes Mk's 1 to 4, Description Care and Operation..	Jun 1923	R	
434	Elementary Optics, Theory and Calculations.....	Jul 1914	R	Will be superseded by OP 1410
435	Binoculars Mk's 1 to 7 and Mods.....	Jun 1925	R	

#Under revision.

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ORDNANCE PUBLICATIONS

OP 0

OP No.	Title	Date	Class	Remarks
440	5" Dotter Mk 10. Description.....	Feb 1914	D	
453	Stadimeters Mks 5 and 6.....	May 1930	R	1st rev. For Subs only. Issued only to users of the specific equipment not having the OP
460	Rangekeeper Mk 2 (Ford) Care and Operation.....	Dec 1922	R	Formerly Registered
463	Optical Repair Data.....	Jul 1942	R	1st rev. Issued with OTI F22-44, Addenda 1 dated 14 Jun 43, Change 2 dated 8 Nov 43, Change 3 dated 19 Feb 45, Change 4 dated 20 Jun 45, Change 5 dated 2 Jul 45, and Change 6 dated 25 Sep 45
469	Director Firing Installation, GE Type, General Description.....	Jun 1925	R	Formerly Registered
470	Director Firing Installation, Detailed Description (BB45 and 46), Main Battery Vol I, Secondary Battery Vol II	Mar 1926	R	Formerly Registered
472	Director Firing Installation, Gun and Torpedo Batteries, Detailed Description (CLs 6, 7, 10 to 13) GE Type	Mar 1927	R	Formerly Registered
473	Director Firing Installation, Gun and Torpedo Batteries, Detailed Description (DDs 212-217, 275-380) GE Type	Apr 1927	R	Formerly Registered
476	5" Breech Mechanism Mk 4.....	Apr 1911	D	
480	Submarine Attack Teacher Mk 1 Mod 1, Care and Operation....	May 1922	R	Supersedes OD 488
481	Broadside Gun Mount Telescopes (<i>Preliminary</i>).....	19 Sep 44	R	1st rev. Supersedes OD 780 and OP 349
482	Turret Sight, Optical Instruments.....	26 Apr 44	R	3rd rev. Supersedes OPs 345, 345A, 345B
486	Rangefinder Mk 35 and Mk 35 Mod 1 Description.....	Aug 1933	R	
*487	Rangefinder Short Base 1½ meters and Lower.....	
*488	Rangefinders—Intermediate 3 Meters to 20 Feet (<i>Deck Mounts</i>)..	
489	Rangefinders Mks 10, 13, 16 and 22 and Mods.....	Jun 1923	R	
495	Periscopes Mks 15, 16, 17, 18, 19 (<i>Fire Control</i>).....	Mar 1924	R	Will be superseded by revised OPs 416 and 416A
546	Caliber .45 Line-Throwing Gun, Description and Instructions for Use	29 Dec 44	D	1st rev
549	Star Gauge Mks 1, 2, 3 for Fleet use. Description.....	Feb 1935	R	For Fleet Use only. Supersedes OD 1573
551	Range Table (Surface Targets) for 5"/38 Cal Gun, 2,600 fsiv AA Common Projectile Mk 35	20 Jan 45	R	1st rev. Issued with Change 1 dated 2 Jun 45
*551A	AA Range Table for 5"/38 Cal Gun, 2,500 fsiv.....	R	
553	5"/38 AA Mounts Mk 21 and Mk 21 Mods 1 to 5, 9, 11 to 13, 15 to 19—Description	Aug 1939	R	3rd rev. Issued with Change 1 dated 30 Mar 44, Change 2 dated 2 Aug 44, Change 3 dated 21 Jun 45, Change 4 dated 29 Jun 45, and OTI G7-44
556	Stereoscopic Vision, Principles of.....	Apr 1934	R	Supersedes OD 992
563	6" Range Table 2,300 fsiv to 60° Elevation (.47 Cal) Detail Description	Sep 1934	R	With blueprint page 21,000 to 21,260 Yds
564	6" Range Table 2,800 fsiv to 60° Elevation (.47 cal).....	Sep 1934	R	
569	8" Triple Mounts for CAs 32, 34 and 36. Description.....	Dec 1934	R	Supersedes ODs 2091 and 2050. Will be superseded by OP 1028
572	Mines Mk 5 Description, Care and Operation.....	Jun 1923	R	Formerly Registered

*Under preparation.

NUMERICAL LISTING—ORDNANCE PAMPHLETS

OP No.	Title	Date	Class	Remarks
573	Director Firing Installation, AA Battery (Synchro Type) Gun Director Mk 33 and Mods 1 to 8, Detail Description	Feb 1938	R	1st rev. Supersedes OD 2091
577	21" A.W. Torpedo Tubes (Quad) Mk 11, 12, 13, and Mods. Description DDs 348-420	Dec 1939	R	4th rev. Issued with OCLs T4-43, T10-44
581	Bomb Rack Mk 42, Description.....	Jan 1937	R	Now issued by BuAer. NAVAER No. 11-5-503
582	Antiaircraft Gun Mount Telescopes.....	13 Oct 44	R	1st rev. Cancels ODs 4610 and 4611
583	Rangefinder Mk 37 and Mods 1 to 4, Description, Optical Equipment	Oct 1941	R	
585	Torpedo Director Firing Installation (Synchro Type) Description	Jun 1941	R	2nd rev. Issued with OCL F4-43
588	Stereoscopic Training Instruments Mk 2.....	Dec 1935	R	With Addenda A dated Jul 1937. Will be superseded by OP 1009
589	5"/25 AA Mount Mk 19 Mods 5 and 12, and Mk 23 and Mk 23 Mods 1 and 2 (Army Manufacture) Description	Aug 1938	R	Issued with Change 1 dated 30 Mar 44, Change 2 dated 21 Jun 45, and Change 3 dated 29 Jun 45
#592	6"/47 Cal Triple Gun Turrets for CLs 40-43 and 46-50. Description and Instructions	May 1941	R	Issued with OCL G31-43, Change 1 dated 27 Jan 45, Change 2 dated 7 Feb 45. Supersedes OD 3376
597	Rangefinders Mk 39, Mk 42 and Mk 42 Mods 0 to 3. Description	Jun 1939	R	
597-A	Rangefinder, Mk 42.....	Jul 1943	R	Formerly Confidential. Covers: Mods 4, 5, 6, 8, 9, 10, 11, 12, 13
#599	Ordnance Drafting Room Regulations.....	Aug 1939	D	1st rev. Issued with OCL X5-43
605A	K-Type Mine Firing Mechanisms, Description.....	Jul 1942	R	Formerly Registered. Issued with OCL M5-42
606	Torpedoes, Bliss-Leavitt, 21' x 21" Mk 8 Mods 3C and 3D.....	Mar 1933	R	Issued with Change 1 dated 8 Aug 40. Formerly Registered Confidential
627A	U.S. Navy Torpedo Gyroscope, Non-Tumble Types.....	Oct 1942	R	Formerly Registered Confidential. Issued with OTI T5-44, and Change 1 dated 28 Nov 45
633	Drifting Mines Mk 7 Description, Operation and Assembly Instructions	10 Jan 44	C	Formerly Registered Confidential
635	Torpedoes Mk 14 and 23 Types.....	24 Mar 45	R	1st rev. Supersedes OP 635A and ODs 3834 and 3842
636	Net and Boom Defenses.....	Undated	C	Formerly Registered. Supplemented by OP 636A
636A	Net and Boom Defenses.....	27 Jun 44	R	Supplements OP 636
639	Aviation Ordnance, SBAE Parts Catalogue.....	Oct 1940	R	Formerly Registered. Issued with Change 1 dated 26 Jan 44 and OMI V25-44
640	Aviation Ordnance, Bombsight Mk 15 Mods 4 and 5 Parts Catalogue	Jan 1941	R	Formerly Registered Confidential. Issued with Change 1 dated 26 Jan 44, OTI V19-43 and OMI V25-44. Will be superseded by OP 649 1st rev

#Under revision.