

**Army Regulation 700-82  
OPNAV Instruction 4410.2A  
Marine Corps Order 4400.120**

**Logistics**

**Joint Regulation  
Governing the  
Use and  
Application of  
Uniform Source  
Maintenance and  
Recoverability  
Codes**

**Headquarters  
Department of the Army  
Washington, DC  
20 November 1999**

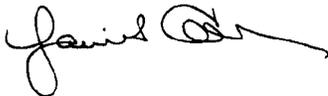
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Headquarters  
Department of the Army  
Washington, DC  
20 November 1999

\*Army Regulation 700-82  
\*OPNAV Instruction 4410.2A  
\*MCO 4400.120  
Effective 10 December 1999

## Logistics

### Joint Regulation Governing the Use and Application of Uniform Source Maintenance and Recoverability Codes



LOUIS CALDERA  
*Secretary of the Army*

By Order of the Secretary of  
the Navy:

RICHARD DANZIG  
*Secretary of the Navy*

MG G.B. Higginbotham, USMC  
*Deputy Chief of Staff for  
Installations and Logistics*

#### **Proponent and exception authority.**

The Army proponent is HQDA, ODCSLOG, DALO-SMP. Request for exception should be forwarded to that office. Management control process. This regulation does not contain management control provisions.

**Supplementation.** Supplementation of this regulation is prohibited without the approval of the appropriate service proponent.

**Suggested improvements.** Users are invited to send suggested improvements to their service proponent. Army users should provide comments on DA Form 2028 (Recommended Changes to Publications and Blank Forms).

**Distribution.** This publication is available in electronic media only and is intended for command levels C for active Army and D for Army National Guard and U.S. Army Reserve. Distribution for other Services is Navy: A1, A2A, A4A, A5, A6, B2, B5, C4B, C4F3, C4F10, C4G, C4K, FA, FD, FE, FKA1, FKL, FKM2, FKM13, FKM15, FKM17, FKN, FKP, FKQ, FKR, FT, 24A, 24B, 24C, 24G, 24H, 26A, 26EE, 26FF, 26MM, 26PP; and Marine Corps: MARCORPS List 6025(100), 7000160(50), 7000176(10), 700148(5), 7000158(2).

**History.** This printing publishes a revision of this joint regulation. Because the publication has been extensively revised, the changed portions have not been highlighted.

**Summary.** This regulation prescribes standard policies for the establishment and maintenance of source, maintenance and recoverability codes within the services. It prescribes specific codes and provides associated formats and definitions.

**Applicability.** This instruction applies to all DoD activities, participating agencies and contractors involved with supportability analysis summaries (SAS) and provisioning/item selection functions by or for DoD weapons, systems, equipments, publications, software/hardware, training/training devices and support equipment.

\*This regulation supersedes AR 700-82, AFR 66-45, OPNAVIST 4410.2, and MCO 4400.120 of 22 June 1971.

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# Summary of Change

AR 700-82/OPNAV Instruction 4410.2A/MCO 4400.120

Joint Regulation Governing the Use and Application of Uniform Source Maintenance and Recoverability Codes

This revision—

- Adds new Source, Maintenance and Recoverability codes deemed necessary by the services.
- Prescribes standard definitions for them.

This regulation—

- Implements applicable portions of DOD 4140.1-R
- Establishes uniform SMR codes and prescribes policy for the application of these codes throughout the Services in order to accomplish uniformity and to provide a means of inter-service communication of information on multi-service equipment.
- Implements new language and acquisition reform concepts as directed by MIL-PRF-49506, Logistics Management Information.

## **Chapter 1 Introduction**

### **1-1. Purpose**

This regulation establishes uniform Source Maintenance and Recoverability (SMR) codes for all Department of Defense services/participating agencies (PAs) and prescribes policy and interprets guidelines for the initial assignment, changes to and application of these codes. This publication reflects the changes in terminology required by the MIL-PRF-49506, Performance Specification, Logistics Management Information, which replaces MIL-STD-1388-2, DOD Requirements for a Logistics Support Analysis Record. Uniform SMR codes will be used by all Department of Defense (DoD) services/PAs. Subject to the service options contained herein, each service/PA will ensure that the coding structure and application of these codes are used by their logistics management systems in order to provide uniformity and a means of inter-service/agency communication of information for multi-service/agency equipments. All services/PAs are not required to use every SMR code contained herein. However, only codes contained herein will be used when SMR codes are assigned. A table of approved SMR codes for all services/PAs is located at Appendix G, Table G-1.

### **1-2. References**

Required and related publications and prescribed and referenced forms are listed in appendix A.

### **1-3. Explanation of abbreviations and terms.**

Abbreviations and special terms used in this pamphlet are explained in the glossary.

### **1-4. Responsibilities**

- a. Service proponent will provide necessary oversight to implement the development and maintenance of SMR codes defined herein. Logistics wholesale and retail systems will be designed to employ these codes as appropriate.
- b. Service materiel developers and materiel commands will employ the SMR codes as defined herein for developmental and fielded systems. Equipment manufacturers or other contractor support utilized for establishing and maintaining SMR codes will likewise be restricted to the use of codes as defined herein.

## **Chapter 2 Policy, Implementation and Format**

### **2-1. Background**

- a. Source, Maintenance and Recoverability Codes are used to communicate maintenance and supply instructions to the various logistic support levels and using commands for the logistic support of systems, equipment and end items. These codes are made available to their intended users by means of technical publications such as allowance lists, illustrated parts breakdown (IPB) manuals, repair parts and special tools lists (RPSTLs), maintenance manuals and supply documents. These codes are assigned to each support item based on the logistic support planned for the end item and its components.

- b. The primary objective is to establish uniform policies, procedures, management tools and means of communication that will promote inter-service and integrated material support within and among the military services and participating agencies. Thus, the establishment of uniform source, maintenance and recoverability codes is an essential step toward improving overall capabilities for more effective inter-service and integrated support.

## **2-2. General SMR Coding Policy**

- a. Uniform SMR codes as established and defined herein will be used to identify the source of spares, repair parts and end items of support equipment, and the levels of maintenance authorized to use, maintain, overhaul, rework, rebuild, condemn or dispose of them. The initial assignment and subsequent changes to SMR codes significantly impact funding appropriations, requirements determination and all of the elements of logistics. This instruction is to be utilized in the processes of acquiring Logistics Management Information (LMI), SAS, maintenance plan development, MRA and other provisioning functions.
- b. Uniform SMR codes will be assigned to support items during the initial acquisition phase of end items of material. These codes may also be applied to end items already in the supply system, to support items already in the supply system or to support items entering the supply system after initial acquisition of the end item.
- c. Using military services/PAs will be responsible for the assignment of SMR codes to end items and support items. Recommendations on the coding of support items may be requested from contractors or vendors. When requested from a contractor, an approving agency for the SMR coding effort shall be identified. Upon approval of the SMR code, no changes to the coding that affect the recoverability (spare to repair part or repair part to spare) will be implemented without a review of the life cycle cost impact considering all required support resources. The using Military services/PAs may delegate coding responsibility to the procuring military service/PA by mutual written agreement.
- d. The SMR code assigned to each item of supply is a record of a technical decision reflecting adequate consideration of the cost, design, manufacture, application, maintenance and supply practices and capabilities as related to each support item and the operational missions of the end item.
- e. Particular SMR codes assigned to a specific support item may vary depending on the particular application of the item within an end item and between different end items.
- f. Codes assigned to a specific support item for a particular application to an end item may also vary when the end item has multi-service/agency usage because of varying maintenance policies and operational missions.
- g. Each military service or agency will assure that SMR codes are published in applicable maintenance and supply publications and documents. When commercial maintenance and supply publications are adopted for use by the military services or agencies, SMR codes will be published as required.

## **2-3. Implementation**

Conversion of existing data systems to accommodate uniform SMR codes is mandatory for all services/agencies as of the date of this regulation. Conversion of existing printed publications/materiels is at the service/PA discretion. All publications/printed materiels distributed after the date of this regulation will be required to use the uniform SMR Codes.

#### 2-4. Uniform SMR Code Format

The Uniform SMR code format (See Table B-1) is composed of four parts consisting of a two (2) position Source Code, a two (2) position Maintenance Code, a one (1) position Recoverability Code and a one (1) position service option code as follows:

- a. *Source Codes (2 positions)*. Codes entered in the first and second positions of the uniform format indicate the source for acquiring the item for replacement purposes, i.e., procured and stocked, manufactured or assembled. (See Appendix C).
- b. *Maintenance Codes (2 positions)*. Codes entered in the third and fourth positions of the uniform code format are as follows: (See Appendix D)
  - (1) *Third Position*. The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove/replace, and use the item. The decision to code the item for removal and replacement at the indicated maintenance level will require that all the resources necessary to install and assure proper operation after installation of a replacement item (i.e., pre-installation inspection, testing and post-installation checkout) are provided.
  - (2) *Fourth Position*.
    - (a) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform a complete repair action (see definition of complete repair). The decision to code the item for repair at the indicated maintenance level requires that the proper logistics support (parts, manuals, training, tools, etc.) and all repair capability (remove, replace, repair, assemble, manufacture and testing for the support item) be provided or be available to that maintenance level. This does not preclude some minor repair which may be accomplished at a lower level of maintenance such as: simple replacement of minor items at the organizational level (fuses, light bulbs, screws, knobs, handles, etc.).
    - (b) Because of service differences in communicating maintenance information; a maintenance code entry in this position is not required by all services. Therefore this position is for optional use on intra-service equipment. When a maintenance code is not used a dash (-) sign will be entered. For multi-service equipment this position will contain a uniform maintenance code assigned by the service (s) requiring the code.
- c. *Recoverability Code (1 position)*. Code entered in the fifth position of the uniform format indicating the desired disposition of the support item (See Appendix E).
- d. *Reserved for Service Option Code (1 position)*. Code entered in the sixth position of the uniform format used to convey specific information to the logistic community and to the operating forces. This code is unique to each service and is utilized to disseminate specific instructions to that Service's logistics business processes. (See Appendix F)

G-1 JOINT SERVICE CODING REFERENCE CHART (REF: AR 700-82/OPNAVIST4410.2/ MCO 4400.120)							
SOURCE		MAINTENANCE		RECOVERABILITY			
1ST POS	2ND POSITION	3RD POSITION	4TH POSITION	5TH POSITION			
MEANS OF ACQUIRING SUPPORT							
<b>P</b>	A	ITEM: STOCKED	USE: LOWEST LEVEL AUTHORIZED TO REMOVE/ REPLACE THE ITEM.	REPAIR: LOWEST LEVEL WITH CAPABILITY AND RESOURCES TO PERFORM COMPLETE REPAIR ACTION.	DISPOSITION: WHEN UNSERVICEABLE OR UNECONOMICALLY REPARABLE, CONDEMN OR DISPOSE.		
	B	ITEM: STOCKED, INSURANCE					
	C	ITEM: STOCKED, DETERIORATIVE					
	D	ITEM: SUPPORT, INITIAL ISSUE OR OUTFITTING & STOCKED ONLY FOR ADD'L INITIAL ISSUE					
	E	EQUIPMENT: SUPPORT, STOCKED, INITIAL ISSUE OR OUTFITTING OF SPECIFIED MAINT ACTIVITIES					
	F	EQUIPMENT: SUPPORT, NON-STOCKED, CENTRALLY PROCURED ON DEMAND					
	G	ITEM: STOCKED FOR SUSTAINED SUPPORT. UNECONOMICAL TO PRODUCE AT LATER TIME					
	H	ITEM: STOCKED, CONTAINS HAZMAT. HMIS/MSDS REPORTING REQUIRED					
	R	TERMINAL OR OBSOLETE, REPLACED					
	Z	TERMINAL OR OBS, NOT REPLACED					
<b>K</b>	D	ITEM: DEPOT O/H & MAINTENANCE KITS	O	ORG/UNIT	O	ORG/UNIT	
	F	ITEM: MAINTENANCE KIT, PLACE AT O,F,H,L	F	I/DS/AFLOAT OR THIRD ECHELON	F	I/DS/AFLOAT OR THIRD ECHELON	
<b>M</b>	B	ITEM: IN BOTH DEPOT REPAIR & MAINT KITS	G	BOTH ASHORE AND AFLOAT	G	ASHORE AND AFLOAT	
	O	MFG OR FAB AT UNITLEVEL					
	F	MFG OR FAB AT INTERMEDIATE/DS LEVEL	H	I/GS/ASHORE OR FOURTH ECHELON	H	I/GS/ASHORE OR FOURTH ECHELON	
	H	MFG OR FAB AT INTERMEDIATE/GS LEVEL					
	L	MFG OR FAB AT SPECIAL REPAIR ACTIVITY (SRA)	K	CONTRACTOR FACILITY	K	CONTRACTOR FACILITY	
	G	MFG OR FAB AT BOTH AFLOAT AND ASHORE					
	D	MFG OR FAB AT DEPOT MAINTENANCE LEVEL	L	SRA	L	NOT AUTHORIZED BELOW DEPOT LEVEL	
	O	ITEM: ASSEMBLED AT UNIT					
	<b>A</b>	F	ITEM: ASSEMBLED AT INTERMEDIATE/DS LEVEL	L	SPEC. REPAIR ACTIVITY	D	DEPOT
		H	ITEM: ASSEMBLED AT INTERMEDIATE/GS LEVEL				
L		ITEM: ASSEMBLED AT SRA					
G		ITEM: ASSEMBLED AFLOAT OR ASHORE					
<b>X</b>	D	ITEM: ASSEMBLED AT DEPOT MAINTENANCE LVL	D	DEPOT	Z	NON-REPARABLE	
	A	ITEM: REQUISITION NEXT HIGHER ASSEMBLY					
	B	ITEM: NOT PROCURED OR STOCKED. AVAILABLE THRU SALVAGE. REQ. BY CAGE/PART NUMBER.	Z	REF ONLY	B	RECONDITION	
	C	INSTALLATION DRAWING, DIAGRAM, INSTRUCTION SHEET. IDENTIFY BY CAGE/PART NUMBER					
D	NON-STOCKED. OBTAIN VIA LOCAL PURCHASE				A	NON-REPARABLE BUT REQUIRES SPECIAL HANDLING	

Figure 1-1 Joint Service Coding Reference Chart

**APPENDIX A**  
**References**

**Section I**  
**Required Publications**

**MIL-PRF-49506**  
Logistics Management Information

**Section II**  
**Related Publications**

**AR-700-18**  
Provisioning of U.S. Army Equipment

**NAVSUP Instruction 4432.29**  
Navy Uniform SMR Codes

**DOD 4100.39-M**  
Federal Logistics Information System (FLIS)

**DOD 4160.21.M-1**  
Defense Demilitarization

**Section III**  
**Prescribed Forms**  
This section contains no entries.

**Section IV**  
**Referenced Forms**  
This section contains no entries.

**APPENDIX B  
UNIFORM SM&R FORMAT**

Description: The Uniform SM&R Format is composed of four parts consisting of a two position source code, a two position maintenance code, a one position recoverability code, and a one position Service Option Code as follows:

<b>Table B-1 Service Option Code</b>				
<b>SOURCE CODE</b>	<b>MAINTENANCE CODE</b>		<b>RECOVER- ABILITY CODE</b>	<b>SERVICE OPTION CODE</b>
Positions (1) and (2)	Position (3) USE CODE	Position (4) REPAIR CODE	Position (5)	Position (6)
Indicates manner of acquisition for support items.	Indicates the lowest level of maintenance authorized to use, remove and replace the item.	Indicates whether the item is to be repaired and identifies lowest level of maintenance with the capability to perform a complete repair action. (See Definition: Complete Repair Action)	Indicates the lowest level of maintenance authorized to dispose of the item. If the item is repairable, it also indicates repair as applicable under the progressive maintenance concept.	Reserved, Service Unique. Modifies or clarifies the SM&R code as required by the individual service. Used to convey service specific information to the logistics community and/or the operating forces.
(See APPENDIX C)	(See APPENDIX D)	(See APPENDIX D)	(See APPENDIX E)	(See APPENDIX F)

**APPENDIX C**  
**UNIFORM SOURCE CODES**

- a. *General.* Source Codes are assigned to support items to indicate the manner of acquiring support items for maintenance, repair, rework or overhaul of end items and to identify items requiring special handling (i.e., hazardous/precious materials). Source codes are entered in the first and second positions of the Uniform SMR Code format.
- b. *P Series Source Codes.* P series source: coded items are items which are centrally procured.

**Table C-1**  
**P Series Source Codes**

<b>Code</b>	<b>Application/Explanation</b>
PA	Item procured and stocked for anticipated or known usage. Items are normally considered for replenishment.
PB	Item procured and stocked for insurance purposes because essentiality dictates that a quantity be available in the supply systems.
PC	Item procured and stocked but is deteriorative in nature.
PD	Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent or additional initial issues or out-fittings. Not subject to automatic replenishment.
PE	End item and/or support equipment procured and stocked for initial issue or outfitting for specific maintenance repair activities.
PF	Support equipment which will not be stocked but which will be centrally procured on demand.
PG	Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item which, because of probable discontinuance or shutdown of production facilities would prove uneconomical to reproduce at a later time.
PH	Item procured and stocked and has been identified to contain hazardous material. Item requires recordation in the Hazardous Material Information System (HMIS) and a Material Safety Data Sheet (MSDS).
PR	End item and/or support item, terminal or obsolete and replaced. No longer authorized for procurement. On hand assets may be issued until exhausted. Then use replacement item
PZ	Item terminal or obsolete with no replacement; discontinue use. (Army only. This code will not effect other services if they are recorded as a user at DLIS.)

- c. K series source: coded items are contained in kits and do not / will not have an NSN assigned.

*Note:* In those instances where an item is part of a kit and is also an item extraneous to the kit, the P series source code will take precedence.

**Table C-2**  
**K SERIES SOURCE CODES**

<b>Code</b>	<b>Application/Explanation</b>
KD	An item contained in a depot overhaul/repair kit and not purchased separately. Depot kit defined as a kit that provides items required at the time of depot overhaul or repair.
KF	An item contained in a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at organizational or intermediate levels of maintenance.
KB	Item included in both a depot overhaul/repair kit and a maintenance kit.

- d. *M series Source Codes.* M series source: coded items are to be manufactured or fabricated at some level of maintenance. They are normally consumable items or those requiring very limited repair (e.g., bending, painting, alignment, etc.). The assignment of this code should be based primarily on the predicted usage of the item over the life cycle of the end item and the practicality and economics of stocking, storing and issuing items. Typical M coded items include hose assemblies, tubing, name plates, decals, wires, etc. which have minimal likelihood of replacement during the life cycle of the end item. All the publications, manufacturing data, required shop equipment and skills must be available at the specified level of maintenance.

**Table C-3**  
**M series Source Codes**

<b>Code</b>	<b>Application/Explanation</b>
MO	Item to be manufactured or fabricated at organizational level.
MF	Item to be manufactured or fabricated at intermediate maintenance level. Marine Corps—3rd Echelon Army—Direct Support Navy—Afloat
MH	Item to be manufactured or fabricated at intermediate maintenance level. Marine Corps—4th Echelon Army—General Support Navy—Ashore
ML	Item is to be manufactured at a specialized repair facility (e.g., environmental considerations).
MG	Item to be manufactured or fabricated at both afloat and ashore intermediate maintenance levels—Navy use only.
MD	Item to be manufactured or fabricated at depot maintenance level.

- e. *A Series Source Codes.* A series source: coded items are authorized for assembly at some level of maintenance. These codes should be assigned when all parts for assembly, the required support equipment and the skills required for the assembly are available at the specified level of maintenance. A source: coded items require at least one P coded item in the assembly.

**Table C-4  
A Series Source Codes**

<b>Code</b>	<b>Application/Explanation</b>
AO	Item to be assembled at organizational level.
AL	Item is to be assembled at a specialized repair activity (e.g., item requires specialized tests and fixtures to insure proper assembly).
AF	Item to be assembled at intermediate maintenance level. Marine Corps—3rd Echelon Army—Direct Support                      Navy—Afloat
AH	Item to be assembled at intermediate maintenance level. Marine Corps—4th Echelon Army—General Support                      Navy—Ashore
AG	Item to be assembled at both afloat and ashore intermediate maintenance levels—Navy use only.
AD	Item to be assembled at depot maintenance levels.

- f. *X Series Source Codes.* X series source: coded items are items for which no demand is anticipated.

**Table C-5X Series Source Codes**

<b>Code</b>	<b>Application/Explanation</b>
XA	Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
XB	Support item with low mortality rate, not procured or stocked. Item may/may not be available through salvage. Salvage should be considered unless use of salvage item is prohibited by instruction in equipment publication. If prohibited, requisition through normal supply channels using Commercial and Government Entity (CAGE) code and reference number.
XC	Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturers' part number.
XD	Support item with low mortality rate, not stocked. Local purchase or requisition through normal channels using contractor and government entity code (CAGE) and reference number. Not obtainable from salvage/cannibalization.

**NOTE:**

For USAF and the USA Safeguard Program, only Code "F", as used in the third and fourth position of the Uniform SM&R Format, will be used to denote intermediate maintenance (See Appendix D). On joint programs, use of either code F or H by the joining service will denote intermediate maintenance to USAF and the USA Safeguard Program.

**APPENDIX D  
MAINTENANCE CODES**

- a. *GENERAL*: Maintenance codes are assigned to indicate the levels of maintenance authorized to USE, REMOVE, REPLACE or REPAIR support items. The maintenance codes are entered in the third and fourth positions of the Uniform SMR Code Format as follows:
- b. *USE (THIRD POSITION)*: The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace and use the support item. The decision to code the item for removal and replacement at the indicated maintenance level will require that all the capabilities necessary to install and insure proper operation after installation of a replacement item (i.e., pre-installation inspection, testing, and post-installation checkout) are provided. The maintenance code entered in the third position will indicate one of the following levels of maintenance.

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**Table D-1  
USE (THIRD POSITION)**

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Code	Application / Explanation
O	<p>Support item is removed, replaced, used at the organizational level of maintenance.</p> <p><i>Note (1): To distinguish between the organizational maintenance capabilities on different classes of ships the following codes may be used intra-Navy only. On joint programs, Navy will receive and transmit an O to indicate organizational maintenance level.</i></p> <p>1—Minesweeper, Yardcraft, Patrol Boat            2—Submarines            3—Auxiliary / Amphibious Ships            4—Major Combatant (Destroyer, Frigate)            5—Major Combatant (Cruiser, Carrier)</p> <p><i>Note (2): On Army programs, a code "C" may be used in the third position to denote crew or operator maintenance performed within organizational maintenance. On joint programs, the Army will receive or transmit an O to indicate organization level.</i></p>
F	<p>Support item is removed, replaced, used at the following intermediate levels:</p> <p>USAF—Intermediate (*)            USA—Direct Support (*)            USN—Afloat            USMC—Third Echelon</p>
G	<p>Support item is removed, replaced, used at both afloat and ashore intermediate levels. (Navy only)</p>
H	<p>Support item is removed, replaced, used at the following intermediate levels:</p> <p>USAF—Intermediate (*)            USA—General Support (*)            USN—Ashore (only)            USMC—Fourth Echelon</p>

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**Table D-1  
USE (THIRD POSITION)**

Code	Application / Explanation
	<i>* NOTE: For USAF programs and the USA safeguard program, Code F will be used to denote intermediate maintenance. On joint programs, use of either Code F or H by the joining service will denote intermediate maintenance to USAF and the USA safeguard program.</i>
K	Repairable item. Item is removed, replaced or used at contractor facility.
L	Item is removed, replaced or used at designated specialized repair activity.
D	Support items that are removed, replaced, used at Depot only:  USAF—Depot, Mobile Depot and Specialized Repair Activity USA—Depot, Mobile Depot and Specialized Repair Activity USN—Aviation Rework, Avionics and Ordnance Facilities and Shipyards USMC—Depot
Z	Item is not authorized to be removed or replaced at any maintenance level. This code is assigned to items not required for support in a specific application and is identified for reference purposes only. (Navy use only.)

- c REPAIR (Fourth Position):* The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (see definition for complete repair). This code (and subsequent positions of the SMR code) is only used when the first position of the SMR code is a P. The decision to code the support item for repair at the indicated maintenance levels requires that all maintenance capability (remove, replace, repair, assemble and test) for the support items be provided to that level. This does not preclude some minor repair which may be accomplished at a lower level of maintenance. However, because of service differences in communicating maintenance repair level information a maintenance code entry in this position is not required by all services. When a maintenance code is not used a dash (-) sign will be entered. For multi-service equipment/systems or when a code is entered, this position will contain one of the following maintenance codes as assigned by the service(s) that require the code:

**Table D-2  
REPAIR (Fourth Position)**

Code	Application / Explanation
O	The lowest maintenance level capable of complete repair of the support item is the organizational level.  <i>Note (1): To distinguish between the organizational maintenance capabilities on different classes of ships the following codes may be used intra-Navy only. On joint programs, Navy will receive and transmit an O to indicate organizational maintenance level.</i>  2—Minesweeper, Yardcraft, Patrol Boat 3—Submarines 4—Auxiliary / Amphibious Ships

**Table D-2  
REPAIR (Fourth Position)**

<b>Code</b>	<b>Application / Explanation</b>
	5—Major Combatant (Destroyer, Frigate) 6—Major Combatant (Cruiser, Carrier)
F	The lowest maintenance level capable of complete repair of the support item is the following intermediate level:  USAF—Intermediate (*) USA—Direct Support (*) USN—Afloat USMC—Third Echelon
H	The lowest maintenance level capable of complete repair of the support item is the following intermediate level:  USAF—Intermediate (*) USA—General Support (*) USN—Ashore (only) USMC—Fourth Echelon  <i>* NOTE: For USAF programs and the USA safeguard program, Code F will be used to denote intermediate maintenance. On joint programs, use of either Code F or H by the joining service will denote intermediate maintenance to USAF and the USA safeguard program.</i>
K	Repairable support item. Complete repair capability exists at a designated contractor facility.
G	Both afloat and ashore intermediate levels are capable of complete repair of support item. (Navy only)
D	The lowest maintenance level capable of complete repair of the support item is the Depot level.  USAF—Depot, Mobile Depot USA—Depot, Mobile Depot USN—Aviation Rework, Avionics and Ordnance Facilities and Shipyards USMC—Depot
L	Repair should be performed at the designated Specialized Repair Activity.
Z	Non-repairable. No repair is authorized.
B	No repair is authorized. The item may be reconditioned by adjusting, lubricating, etc. at the user level. No parts or special tools are procured for the maintenance of this item. Inserted when the maintenance code is not used.

**APPENDIX E  
RECOVERABILITY CODES**

GENERAL: Recoverability Codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the uniform SMR Code Format as follows:

**Table E-1  
Recoverability Codes**

<b>Code</b>	<b>Definition</b>
Z	Non-repairable item. When item becomes unserviceable, condemn and dispose of at authorized level.
O	Repairable item. When uneconomically repairable, condemn and dispose at organizational level.
F	Repairable item. When uneconomically repairable, condemn and dispose at the following intermediate levels:  USAF—Intermediate (*) USA—Direct Support (*) USN—Intermediate Afloat USMC—Third Echelon F
G	Field level repairable item. When uneconomically repairable, condemn and dispose at either afloat or ashore intermediate levels. (Navy only)
H	Repairable item. When uneconomically repairable, condemn and dispose at the following levels:  USAF—Intermediate (*) USA—General Support (*) USN—Intermediate Ashore USMC—Fourth Echelon  <i>* NOTE: For USAF programs and the USA safeguard program, Code F will be used to denote intermediate maintenance. On joint programs, use of either Code F or H by the joining service will denote intermediate maintenance to USAF and the USA safeguard program.</i>
K	Repairable item. Condemnation and disposal to be performed at contractor facility.
D	Repairable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level
L	Repairable item. Repair, condemnation and disposal not authorized below depot level.
A	Non-repairable. Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, high dollar value or critical material. Refer to appropriate manuals / directives for specific instructions.

**APPENDIX F**  
**SERVICE OPTION CODES**

- a. GENERAL: Service Option Codes are assigned to support items to convey specific information to the Service’s logistics community / operating forces. Each service uses the code to disseminate specific instructions which add to that Service’s internal logistics practices. Service Option Codes are entered in the sixth position of the Uniform SMR Format as follows:
- b. ARMY—Demilitarization Code used in accordance with DoD 4160.21-M-1. Identifies unique requirements to be considered when an item is condemned.
- c. MLI—Denotes Military List Team
- d. SLI—Denotes Strategic List Team

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**Table F-1**  
**Service Option Codes**

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<b>Code</b>	<b>Application</b>
A	No demilitarization required.
B	MLI, no demilitarization required.
C	MLI, remove deadly parts in accordance with DOD 4160.21-M-1.
D	MLI, mutilate.
E	MLI, burn, shred or pulp.
F	MLI, contact the item manager.
G	MLI, demil prior to DRMO.
P	MLI, security classified, DECLASS, demilitarize sensitive markings prior to transfer to DRMO. Not used on AEDA items.
Q	SLI, mutilate to preclude normal use, OCONUS only.
N	Throw away, condemn at maintenance use level.
P	Recoverable, condemn at intermediate level.
C	Recoverable, condemn at depot level. (SCARS)
T	Recoverable, Condemn at depot level. (AFRAMS)
S	Support equipment, condemn at depot level. (AFEMS)
U	Support equipment, condemn at O/F level. (AFEMS)

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- e. NAVY—Service Option Code. Provides specific data to the maintenance community which cannot be conveyed in the Uniform SMR Coding Format.

**Table F-1**  
**Service Option Code—Continued**

<b>Code</b>	<b>Application</b>
1	Engine intermediate maintenance level—First Degree.
2	Engine intermediate maintenance level—Second Degree.
3	Engine intermediate maintenance level—Third Degree.
6	PA source: coded item which is normally procured commercially but organic capability exists to manufacture (source code M series) for emergency stop gap requirements. Organic sources should be reviewed when commercial sources cannot meet demand.
8	Indicates a inter-service depot non-consumable item that is, by the Navy maintenance plan, repairable by second degree engine maintenance level.
9	Indicates a inter-service depot non-consumable item that is, by the navy maintenance plan, repairable by third degree engine maintenance level.
E	Items which are removed by the O level with no I level repair authorized; however, the I level must perform end to end test to verify failure prior to final disposition. (Beyond Capability of Maintenance)
J	Indicates and inter-service DLR, that is, by the Navy maintenance plan, considered completely repairable below the depot level.
P	Indicates the item is under a progressive maintenance review. (Item will be coded O in the fourth position and D in the fifth position.) P (sixth position) will then indicate intermediate is authorized between O and D levels. In the unlikely event that two different service option codes apply to the same item, the “P” progressive maintenance code will take precedence.
R	Indicates Gold Disc repair capability has been developed at the organizational and/or intermediate levels of maintenance. Repair must be performed in a certified Module Test and Repair Facility (MTRF).
T	PD source: coded item which has peculiar application to training devices. training devices.

## **Glossary**

### **Section I Abbreviations**

#### **DOD**

Department of Defense

#### **IOM**

install operate and maintain

#### **IPB**

illustrated parts manuals

#### **LMI**

logistics management information

#### **MRA**

maintenance repair analysis

#### **PA**

participating agencies

#### **RFI**

ready for issue

#### **RFU**

ready for use

#### **R&R**

remove and replace

#### **RPSTL**

repair parts and special tools list

#### **SAS**

supportability analysis summaries

#### **SE**

support equipment

#### **SMR**

source, maintenance, recoverability

### **Section II**

#### **Terms**

##### **Assembled Item**

A support item which is not stocked, but when required, can be assembled from a combination of sub-items that are individually stocked and/or fabricated. This definition applies to "A" series source codes.

##### **Authorized Repair**

The maintenance level, identified in the maintenance plan, authorized to perform the preventive or corrective maintenance and servicing tasks required.

**Complete Repair Level**

The authorized maintenance level with the capability and resources to perform all maintenance functions identified for a specific level of maintenance and approved by official maintenance documents. It requires that all maintenance capabilities (remove, replace, repair, assemble and test) for the support item be provided at that level. It requires that all logistics support (parts, publications, tools, test equipment, etc.) be provided to that level of maintenance to perform all assigned maintenance functions.

**Complete Repair Action**

The authorized performance of one repair action which, when completed as a lone repair, will return the item to serviceable condition. Whether the repaired unit is returned to a ready for use (RFU) or ready for issue (RFI) condition is a matter of which level of maintenance completes the repair and its purpose/ability to place the item in rotatable pool stock or certify it for packaging, preservation and shipment. The capability to perform a complete repair action requires that all maintenance functions (remove, replace, repair, assemble and test) for the support item be provided at that level.

**Consumable or Expendable Item**

A non-repairable item or repair part which can be discarded more economically than it can be repaired or which is consumed in use. This definition does not include support equipment but does include repair parts for support equipment.

**End Item**

A final combination of end products, component parts and/or materials which is ready for its intended use, e.g., radar system, control panel, tank, mobile machine shop, aircraft, engine, ground support equipment.

**Kit**

A collection of supporting repair parts packaged and identified as a single item of supply which provides maintenance activities with repair parts necessary to accomplish a specific repair action of component overhaul/rework.

**Maintenance Code**

A two position code assigned to support items and end items to indicate the specific maintenance levels authorized to perform the required maintenance functions. The first position indicates the lowest maintenance level authorized to remove and replace (R&R) the item. The second position indicates the lowest maintenance level authorized to perform a complete repair action for the item.

**Maintenance Planning**

A concise description of a strategy for achieving, maintaining and restoring the operational capability of a weapon system/equipment. The plan is the basis on which all elements of logistics are provided. It may also identify repairable components, maintenance significant consumables and level(s) of maintenance authorized to perform preventive or corrective maintenance.

**Maintenance Repair Analysis (MRA)**

A summary that provides the government with conclusions and recommendations of the contractor's repair analysis which may include overall maintenance plan/concept; identification of repairable and consumable items; level of maintenance activity and life-cycle cost. For the system support structure, it may identify operational readiness objectives and supporting logistics considerations such as placement and allocation of spares, support equipment and personnel.

**Progressive Maintenance**

Authorized maintenance which can restore an item to operating condition (Restore For Use-RFU) from one or more, but not all, of its identified failure modes at one level of maintenance, but requires progressively higher levels of maintenance until the highest level alone can restore the item to operating condition from any and all identified failure modes. The use of this philosophy will provide the maintenance and logistics activities with the intelligence to know what specific level of maintenance is authorized to accomplish some, but not necessarily all, repair. The logistics support should be provided to those levels to accomplish authorized repair.

**Provisioning**

The management process of determining and acquiring the range and quantity of support items necessary to operate and maintain an end item of material for an initial period of service. Usually refers to first outfitting of a ship, unit or system.

**Readiness**

State of preparedness of a system(s) to meet a mission or conduct warfighting.

**Repair**

The restoration of an unserviceable item to operating condition as necessitated by wear and tear, damage, failure of parts or the like.

**Repair Part**

Consumable items or material required for the maintenance, overhaul or repair of a system, equipment or end item. This definition does not include support equipment but does include repair parts for support equipment.

**Recoverability Code**

A one position code assigned to end items and support items to indicate the recoverability intention and the level of maintenance authorized disposition action on unserviceable support items; and for repairables, it is used to indicate the lowest maintenance level responsible for repair/condemnation and disposition of the item.

**Source Code**

Codes assigned to end items and support items to indicate the manner of acquiring items for the maintenance, repair or overhaul of end items.

**Spare Parts (Spares)**

Repairable components or assemblies used for maintenance replacement purposes in the end items of equipment. They are articles identical to or interchangeable with the components of end items on contract which are procured over and above the quantity needed for initial installation for support of a system.

**Support Equipment (SE)**

Is that equipment required to make an item, system, or facility operational in its intended environment. This includes all equipment required to install, operate and maintain (IOM) the item, system or facility including aerospace ground equipment and ground support equipment.

**Support Items**

Items subordinate to or associated with an end item and required to operate, service, repair or overhaul an end item; i.e., spares and repair parts.

### **Supportability Analysis Summaries (SAS)**

The Supportability Analysis Summaries (SAS) provide information for planning, assessing program status, and decision making by the government relative to various logistics disciplines.

### **Total Repair**

The authorized maintenance capability to perform all maintenance functions for all identified failure modes which have been previously identified and approved by official maintenance documents. This restores the item to operating condition (ready for use, RFU). Generally, this occurs at the Depot level of maintenance but it may happen at a lower level. It requires that all logistics support (parts, manuals, training, tools, etc.) and maintenance capabilities (remove, replace, repair, assemble and test) for the support item be provided at that level.

### **Section III**

#### **Special Abbreviations and Terms**

This section contains no entries.