

AIR FORCE HEAD-QUARTERS

JAPANESE AMMUNITION & PYROTECHNICS

I N T R O D U C T I O N

1. This publication is issued primarily for the information and guidance of R.A.A.F. Bomb Disposal Squads, who are solely responsible for the actual disposal of enemy bombs, mines, ammunition, pyrotechnics and booby traps in R.A.A.F. controlled areas.
2. Leaflets containing incomplete information must be regarded as provisional, the details having been extracted from captured documents, and/or based on the reconstruction of exploded specimens, any such information will however serve to indicate the existence of such items.
3. Incomplete or meagre information contained in any leaflet will by virtue of its incompleteness, advise of the particular item on which further details are required and in some measure assist in identification.

## JAPANESE SIGNS

"Lives have been lost unnecessarily through the inability of personnel to understand Japanese signs."

Giving this warning, a recent A.T.I.S. publication continues: "in the Madang-Alexishafen (New Guinea) sector, five men drove a jeep over an area clearly marked in Japanese: "Land Mines Here." All were killed. It was only then that the 20 odd warning signs written on ordinary postcards in the area were noticed."

The publication points out that the Japanese insist in regarding their language as a code secure from the comprehension of Allied troops. They do not hesitate, therefore, to mark openly by signs, written in either ideographs or the syllabic Kana, areas and installations which have been mined or booby-trapped.

Following are the principal warning signs, which can be memorised:-

地雷あり

LAND MINES HERE

危険

DANGEROUS

危険

DANGER

注意

TAKE CARE

觸るな

DON'T TOUCH

(Adapted from the August 1945 edition of the "Armament Training Bulletin", a monthly magazine for Armourers during the war years.)

JAPANESE ARMAMENT - TYPE & MODEL NUMBERSGENERAL

The type or model numbers of Japanese Armament indicated the year of adoption. There are two distinct systems of recording the years, one coinciding with the foundation of the Japanese Empire and the other based on the period of reign of each of the Emperors.

The period of each reign is known as an era and bears the Emperors name.

JAPANESE YEAR

The Japanese Empire was founded in 660 b.c., and the years are recorded as from this date, thus the year 2560 = 1900, similarly the year 2600 = 1940.

MEIJI ERA 明治

The period of Emperor Meiji's reign is known as the MEIJI ERA, which began in 1868 and ended on 30th July, 1912 - (Japanese year 2572).

TAISHO ERA 大正

The period of Emperor Taisho's reign is known as the TAISHO ERA which began on 31st July, 1912, and ended on the 25th December, 1926.

SHOWA ERA 昭和

This is the present era which began with Emperor Hirohito's reign on the 26th December, 1926.

Most armament adopted since 1926 will be found marked with the year of the Empire, there is, however, a quantity of armament that bearing the year of showa.

The following tabulation will assist in the identification of the type and model numbers.

GUIDE TO JAPANESE "TYPE" DESIGNATIONS

ERAS.			Jap.	Calendar	ERAS			Jap.	Calendar
MEIJI	TAISHO	SHOWA	Year		MEIJI	TAISHO	SHOWA	Year	
<u>33</u>			2560	1900		<u>12</u>		2583	1923
<u>34</u>			2561	1901		<u>13</u>		2584	1924
<u>35</u>			2562	1902		<u>14</u>		2585	1925
<u>36</u>			2563	1903		<u>15</u>	1	2586	1926
<u>37</u>			2564	1904			2	2587	1927
<u>38</u>			2565	1905			3	2588	1928
<u>39</u>			2566	1906			4	2589	1929
<u>40</u>			2567	1907			5	2590	1930
<u>41</u>			2568	1908			6	2591	1931
<u>42</u>			2569	1909			7	2592	1932
<u>43</u>			2570	1910			8	2593	1933
<u>44</u>			2571	1911			9	2594	1934
<u>45</u>	<u>1</u>		2572	1912			10	2595	1935
	<u>2</u>		2573	1913			11	2596	1936
	<u>3</u>		2574	1914			12	2597	1937
	<u>4</u>		2575	1915			13	2598	1938
	<u>5</u>		2576	1916			14	2599	1939
	<u>6</u>		2577	1917			15	2600	1940
	<u>7</u>		2578	1918			16	2601	1941
	<u>8</u>		2579	1919			17	2602	1942
	<u>9</u>		2580	1920			18	2603	1943
	<u>10</u>		2581	1921			19	2604	1944
	<u>11</u>		2582	1922			20	2605	1945

The underlined figures are the only ones used for type or model numbers in that particular year.

The years from 1912 to 1916 and from 1941 to 1945 repeat themselves, but are distinguished by the character 年 (year) which appears after the figures in the TAISHO ERA. e.g.,

三年式 = 3rd year type = 1914

三式 = Type 3 = 1943

For the year 1940, Type 100 or Type 00 is sometimes used instead of Type 0.



TRANSLATIONS

GENERAL

ZERO ○ OR 零		1 一 OR 壹		2 二 OR 貳		3 三 OR 參		4 四		5 五	
6 六	7 七	8 八	9 九	10 十 OR 拾		100 百	1000 千	PREFIX TO NUMERALS 第			
DAY 日	MONTH 月	YEAR 年	MEIJI ERA 明治		TAISHO ERA 大正		SHOWA ERA 昭和 OR 昭				
ARMY 陸軍	NAVY 海軍	AIR FORCE 舟空兵		AIR FORCE 舟空軍		TYPE 式	MODEL 型	MODIFIED 改	IMPROVED 改造		
MARK 号 OR 號		EXPERIMENTAL 試製		TEMP. DESIGNATION 假稱		MODIFIED 修正		MANUFACTURED 製			
GRAM 瓦	KG 瓦干	METRE 米	CM 厘	MM 耗	LARGE 大	SMALL 小	WEIGHT 量	SAFE 安	FIRE 火		
NUMERAL FOR COUNTING ROUNDS 發					NUMERAL FOR COUNTING MISCELLANEOUS OBJECTS 箇						
ARSENAL 工廠 OR 造兵廠					POWDER FACTORY 火藥製造所						
CALIBRE 口徑		FIRST OR 'A' 甲		SECOND OR 'B' 乙		THIRD OR 'C' 丙		FOURTH OR 'D' 丁			

PYROTECHNICS

COLOUR 色	BLACK 黑	WHITE 白	RED 赤	GREEN 青 OR 綠		BLUE 青	PINK 桃	YELLOW 黃	BROWN 茶		
ILLUMINATING 照明	PARACHUTE 吊		FLARE 光	PARACHUTE FLARE 吊光照明彈			DAY 日	NIGHT 夜			
STAR 星	DRAGON(SMOKE TRAIL) 龍		SIGNAL 信號		TYPE O PARACHUTE FLARE MODEL 2 零式吊光照明彈二型						
SMOKE CANDLE 發煙筒			FLAME 焰		PARACHUTE FLARE MODEL 2 MODIFICATION 1 吊光投彈二型改一						
TYPE 94 LARGE SMOKE CANDLE					SMOKE FLARE, MODIFICATION 4 BLACK SMOKE						

TRANSLATIONSBOMBS AND FUZES

BOMB 爆彈	LAND (USE) BOMB 陸(用)爆彈	ORDINARY 通常	SPECIAL 特殊	FUZE 信管
SUBSTITUTE BOMB 代用爆彈		NUMBER 番	FIRING MECHANISM (NAVY FUZES) 發火製置	
DELAY 延	INSTANTANEOUS 瞬	INSTANTANEOUS FUZE 信管瞬	SHORT DELAY FUZE 信管短	LONG DELAY FUZE 長延期信管
ANTI-WITHDRAWAL FUZE 解發信管		ANTI-DISTURBANCE FUZE 觸發信管	TIME OR PERCUSSION FUZE 複動信管	
CLUSTER BOMB 小彈 OR 夕彈		LOADED CLUSTER BOMB CONTAINER 撒布彈		SMOKE 煙
INCENDIARY 燒夷	AERIAL TORPEDO 空雷		TYPE I No. 25 MK 2 BOMB 一式二五番二號爆彈	
TYPE 97 No. 6 LAND BOMB MODIFICATION 九七式六番陸用爆彈改一		TEMPORARILY DESIGNATED TYPE I, No. 6, MK 6 BOMB, MOD. 3 假稱一式六番六號爆彈三型		

AMMUNITION ETC

SYMBOL SMOKE SHELL ケ	SYMBOL INCENDIARY SHELL ヤ	SYMBOL ILLUMINATING SHELL 了	SYMBOL TARGET SHELL 毛	SYMBOL SIGNAL SHELL フ
SYMBOL SAND-FILLED SHELL ヌ	PROJECTILE 彈丸	AP PROJECTILE 破甲彈	SYMBOL AIRCRAFT CANNON ホ	
GUN (GENERAL) 火炮	AP TRACER SHELL 曳光徹甲彈		H.E. SHELL 榴彈	PRACTICE SHELL 演彈
ILLUMINATING SHELL 照明彈		TARGET SHELL 目標彈	HOLLOW CHARGE 夕(彈)	COMPLETE ROUND 彈藥筒
LARGE CALIBRE SHELL 大口徑砲彈		HOLLOW CHARGE SHELL 穿甲榴彈	SMOKE SHELL 發煙彈	CARTRIDGE CASE 藥筒
ELECTRIC DETONATOR 電氣雷管		NON-ELECTRIC DETONATER 導火雷管	CAPPED PROJECTILE 被帽彈	MINE 機雷
CONTACT LAND MINE 踏込式地雷		TIME HAND GRENADE 曳火手榴彈	DEPTH CHARGE 爆雷	TORPEDO 魚雷

NAVY BOMBS

(Compiled from captured documents)

TYPE OF BOMB.	NEW COLOUR MARKINGS					TARGETS
	NOSE TIP	NOSE BAND	BODY	TAIL UNIT	STZB. BAND	
ORDINARY BOMBS	GREEN	BROWN	GREY	GREY	GREEN	(GENERAL PURPOSE BOMBS) <u>LARGE MODEL</u> (500 KG AND OVER) BOMBING OF CAPITAL SHIPS <u>MEDIUM MODEL</u> (250-500 KG) BOMBING OF CAPITAL SHIPS AND CARRIERS <u>SMALL MODEL</u> (250 KG AND UNDER) OTHER SHIPS. DESTRUCTION OF SUPERSTRUCTURE
LAND BOMBS	GREEN	BROWN	GREY	GREY	GREY	LAND TARGETS - BOMBING OF CITY BUILDINGS
PRACTICE BOMBS	GREEN	BLACK	WHITE	WHITE	WHITE	FOR TRAINING AND PRACTICE BOMBING
DUMMY BOMBS	GREEN	BLACK	WHITE	WHITE	WHITE	RELEASE TESTS AND TRAINING
TRAINING BOMBS	BLACK	BLACK	BLACK	BLACK	BLACK	TRAINING IN INSTALLATION, LOADING AND TESTING OF RELEASE GEAR.
SMOKE BOMB	GREEN	BLACK	GREY	GREY	BLACK	CONCEALMENT OF SHIPS
SPECIAL BOMB MARK 1 'GAS BOMB'	GREEN	YELLOW	<u>GREY</u>	<u>GREY</u>	YELLOW	(GAS BOMB) FOR SPECIAL CIRCUMSTANCES
SPECIAL BOMB MARK 2	GREEN	BLUE	GREY	GREY	GREY	ANTI-SUBMARINE PURPOSES
SPECIAL BOMB MARK 3	GREEN	SILVER	GREY	GREY	RED	FORATIONS OF AIRCRAFT
SPECIAL BOMB MARK 4	GREEN	WHITE	GREY	GREY	RED	(ROCKET BOMB) DIVE BOMBING CAPITAL SHIPS
SPECIAL BOMB MARK 5	GREEN	WHITE	GREY	GREY	GREY	(ARMOUR PIERCING BOMB) CAPITAL SHIPS WITH HEAVY ARMOUR

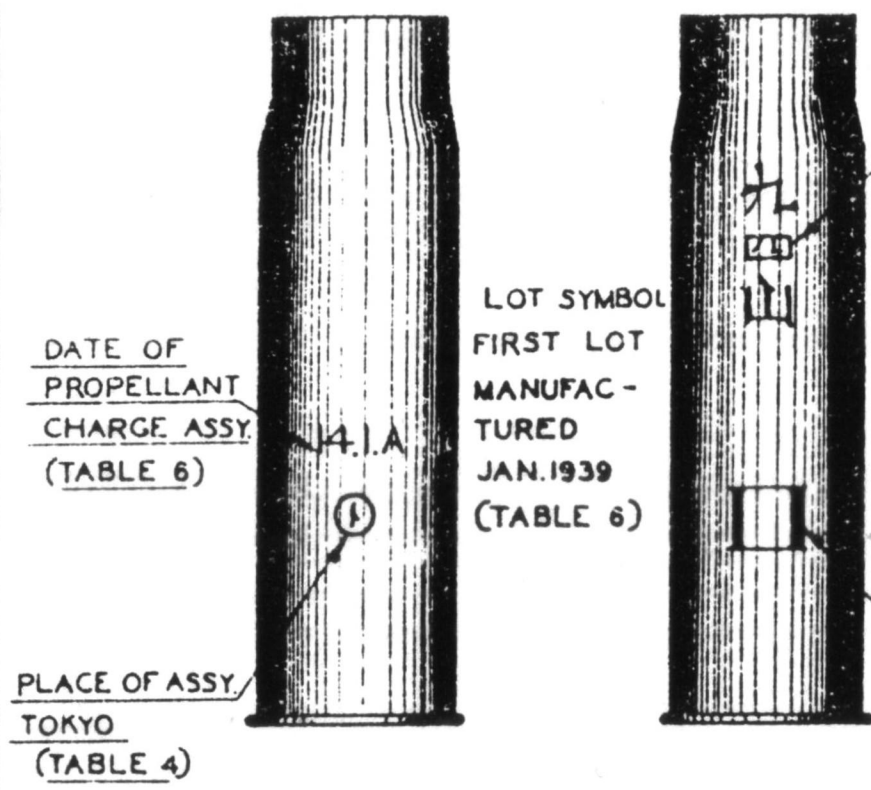
NAVY BOMBS

(Compiled from captured documents)

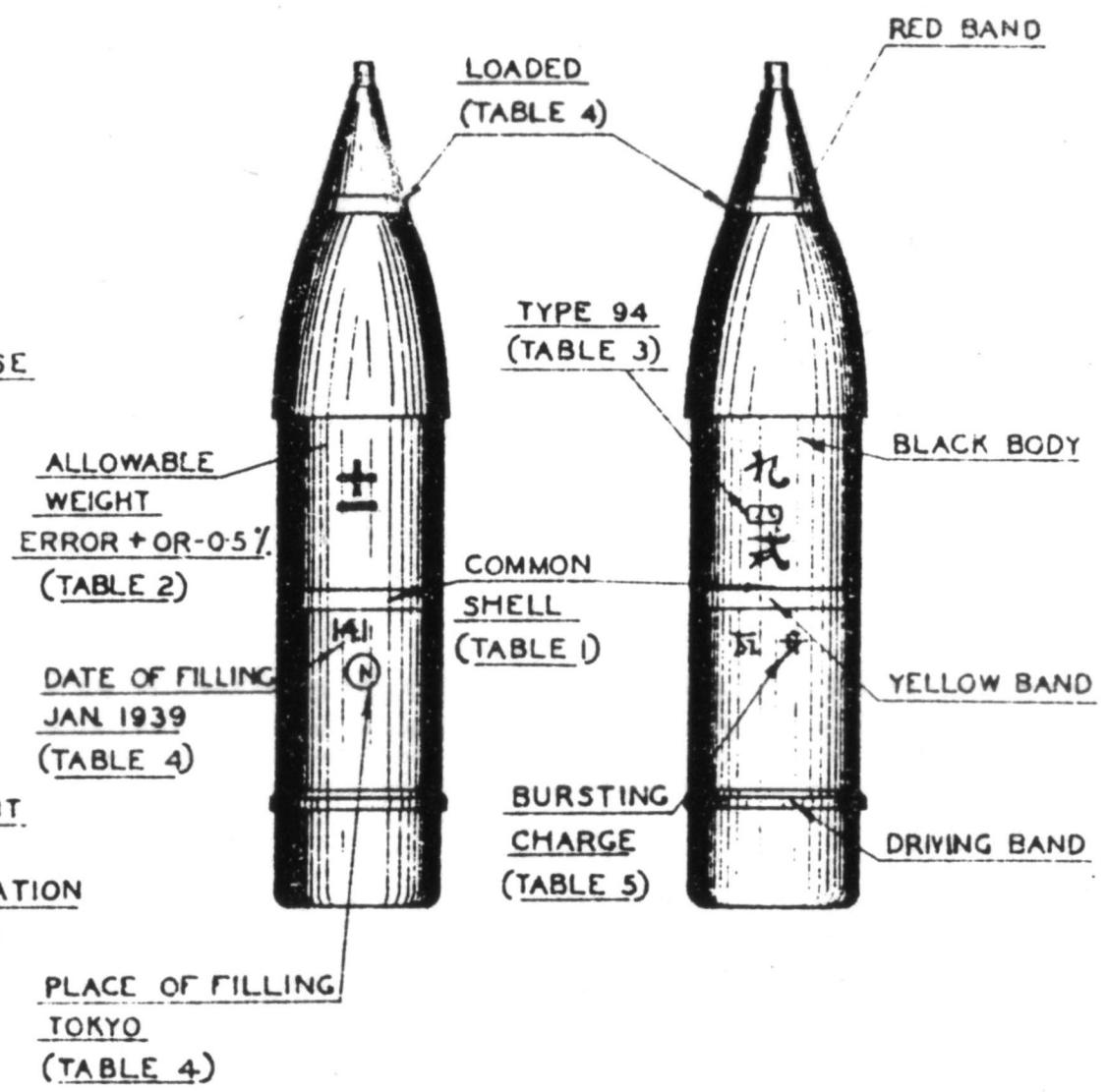
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TYPE OF BOMB	NEW COLOUR MARKINGS					TARGETS
	NOSE TIP	NOSE BAND	BODY	TAIL UNIT	STZR. BAND	
SPECIAL BOMB MARK 6	GREEN	RED	GREY	GREY	RED	(INCENDIARY BOMB) INCENDIARY BOMBING OF CITY BUILDINGS
SPECIAL BOMB MARK 7	GREEN	PURPLE	GREY	GREY	PURPLE	(BACILLUS BOMB) FOR SPECIAL CIRCUMSTANCES
MARKS 8 TO 18 INC.	-	-	-	-	-	NO DETAILS AVAILABLE
SPECIAL BOMB MARK 19	-	-	GREY	-	-	SPECIAL 7.5 KG BOMBS FIRED BY FIGHTER PLANES AT ALLIED AIRCRAFT.
SPECIAL BOMB MARK 20	-	-	GREY	-	-	NO DETAILS AVAILABLE.
SPECIAL BOMB MARK 21	-	-	GREY	-	-	FOR AIRFIELD NEUTRALISATION OR FORMATIONS OF AIRCRAFT IN FLIGHT
SPECIAL BOMB MARK 22	-	-	GREY	-	-	(STICK CLUSTER BOMB) FOR AIRFIELD NEUTRALISATION
SPECIAL BOMB MARK 23	-	-	GREY	-	-	(TIME BOMB) FOR AIRFIELD NEUTRALISATION
SPECIAL BOMB MARK 24	-	-	GREY	- -	-	(PARACHUTE CLUSTER BOMB) ANTI-AIRCRAFT (GROUNDED) ANTI-PERSONNEL
SPECIAL BOMB MARK 25	-	-	GREY	-	-	(CLUSTER BOMB) FOR AIRFIELD NEUTRALISATION
SPECIAL BOMB MARK 26	-	-	GREY	-	-	(ABOVE SURFACE BURST BOMB) FOR AIRFIELD NEUTRALISATION

AMMUNITION MARKINGS



TYPICAL CASE MARKINGS



TYPICAL PROJECTILE MARKINGS



TABLE 1

## JAPANESE ARMY AMMUNITION MARKINGS

TABLE 1

## COMMON SHELLS, FIXED SHELLS, SPECIAL SHELLS AND S.A.A.

TYPE OF SHELL		COLOUR	MARKINGS	NUMBER OF BANDS	DIMENSION OF BAND	TYPE OF MARKING AND SYMBOLS
		BODY COLOUR	BAND COLOURS			
COMMON SHELL ARMOUR PIERCING SHELL HIGH EXPLOSIVE L.P. SHELL	COMMON SHELLS	BLACK	YELLOW		EQUAL  TO  DRIVING  BAND  WIDTH	CIRCUMFERENTIAL BAND  AROUND CENTRE OF CYLINDRICAL PART OF PROJECTILE
COMMON SHELL, PIG IRON SHELL COMMON SHELL, PIG IRON ARMOUR PIERCING SHELL, CAST IRON H.E. COMMON SHELL, CAST IRON			GREEN			
SHRAPNEL SHELL			RED			
ARMOUR PIERCING SHELL ARMOUR PIERCING SHELL, CAPPED ARMOUR PIERCING SHELL OR H.E. CHILLED						
ARMOUR PIERCING TRACER			GREEN AND WHITE	TWO		
COMMON SHELL TRACER			GREEN AND YELLOW			
PRACTICE SHELLS				NIL		
COMMON SHELL COMMON SHELL, PIG IRON STEEL COMMON SHELL, PIG IRON COMMON SHELL, CAST IRON	FIXED SHELLS	BLACK	YELLOW	ONE	LARGE CALIBRE 20 m.m. MED. CALIBRE 15 m.m. SMALL CALIBRE	CIRCUMFERENTIAL ABOVE BOURELET OF PROJECTILE
			GREEN			

TABLE 2

## MARKINGS FOR ALLOWABLE WEIGHT ERRORS ARTILLERY SHELLS

TABLE 2

EXCLUDING HEAVY BLANK SHELLS AND AMMUNITION  
BELOW 20 m.m.

ALLOWABLE ERRORS IN TOTAL SHELL WEIGHT	MARKINGS				
	SYMBOL	DIMENSION	COLOUR	POSITION	NOTES
ERRORS FROM MINUS 1.5% TO MINUS 2.5% FOR SHELL WEIGHTS BELOW SPECIFIED STANDARDS	— —	SIZE OF SYMBOLS	WHITE: EXCEPT- ING IN CASE OF YELLOW OR WHITE PROJE- CTILE WHEN BLACK WILL BE USED	1/4 DISTANCE FROM OGIVE ON CYLINDRICAL PART OF PROJECTILE 1/4 DISTANCE FROM BOURRELET ON STREAM- LINED PART OF FINISHED SHELLS	OR - MARKED SUCCESSIVELY IF SHELL WEIGHT IS ABOVE OR BELOW ALLOWABLE ERROR IN THIS CHART
ERRORS FROM MINUS 0.5% TO MINUS 1.5% FOR SHELL WEIGHTS BELOW SPECIFIED STANDARDS	—	EQUALS			
ERRORS FROM MINUS 0.5% TO PLUS 0.5% FOR SHELL WEIGHTS ABOVE AND BELOW SPECIFIED STANDARDS	±	1/4 PROJECTILE			
ERRORS FROM PLUS 0.5% TO PLUS 1.5% FOR SHELL WEIGHTS ABOVE SPECIFIED STANDARDS	+	DIAMETER			
ERRORS FROM PLUS 1.5% TO PLUS 2.5% FOR SHELL WEIGHTS ABOVE SPECIFIED STANDARDS	± ±				

TABLE 3

## JAPANESE ARMY AMMUNITION

TABLE 3

## MARKINGS FOR PROJECTILE TYPE

NOMENCLATURE	SIZE OF SYMBOLS	POSITION	COLOUR
"TYPE 94" COMMON SHELL (TYPE 94) 九四式	3/10	IN CENTRE OF CYLINDRICAL PART OF PROJECTILE ON OPPOSITE SIDE TO WEIGHT ERROR MARKING STENCILLED LONGITUDINALLY IN LINE	WHITE or alternat- ively in BLACK FOR WHITE OR YELLOW PROJECTILE.
"TYPE 84" COMMON SHELL (TYPE 84) 八四式	PROJECTILE DIAMETER		

TABLE 4

MARKINGS FOR LOADED SHELLS

TABLE 4

## FACTORY

## FIELD

MARKINGS FOR DATE AND PLACE OF FILLING (SEE FOLLOWING EXAMPLES ARE STENCILLED IN WHITE IN THAT ORDER). THESE MARKINGS ARE STENCILLED BENEATH THE SHELL TYPE MARKING ON THE SIDE OF WHICH THE ALLOWABLE WEIGHT ERROR IS SHOWN. IF THE PROJECTILE IS WHITE OR YELLOW, BLACK MARKINGS ARE USED

SINGLE RED BAND AROUND CIRCUMFERENCE OF THE LOADED PROJECTILE'S OGIVE WITH BAND WIDTHS GIVEN BELOW

## DATE AND PLACE OF FILLING

## BAND WIDTHS

14.1 = January, 1938



= TOKYO LABORATORY



= TOKYO BRANCH ORDNANCE DEPOT



= ITABASHI POWDER FACTORY

.11 = November, 1942



= KWANTUNG ARMY ORDNANCE DEPOT



= ARMY ENGINEERING SCHOOL



= KWANTUNG Army Field Ordnance Branch Depot



= OSAKA Army Ordnance Branch Depot



= KWANTUNG Army PORT ARTHUR Ordnance Branch Depot



= HIROSHIMA Army Ordnance Branch Depot



= KWANTUNG Army SHINKING Ordnance Branch Depot



= HEIJŌ Army Ordnance Branch Depot



= Imperial Guards Division Ordnance Department



= NAGOYA Army Ordnance Branch Depot



= OKAYAMA Army Ordnance Branch Depot



= 1 Div. Ordnance Department  
Others correspond to these.



= KOKURA Army Ordnance Depot

LARGE CALIBRE SHELL 30 m.m.

MEDIUM CALIBRE SHELLS 20 m.m.

SMALL CALIBRE SHELLS 10 m.m.

NOTE:

On shells manufactured by Army units, schools and fortress headquarters, there usually will be no marking for place of manufacture



JAPANESE ARMY AMMUNITION

MARKINGS FOR BURSTER CHARGES

TABLE 5

TABLE 5


TYPE OF BURSTER CHARGE	M A R K I N G S			
	SYMBOL	POSITION	COLOUR	SIZE OF SYMBOL
ANGA YAKU (Ammonium Nitrate/RDX)	安瓦	CENTRE OF CYLINDRICAL PART OF PROJECTILE	WHITE	1/10 to 1/5
HEINEI (Black Powder)	平亨	IF PROJECTILE TYPE MARKING IS IN THAT POSITION THEN BURSTING CHARGE MARKING IS STENCILLED BELOW		OF
HEINEIYAKU (Trinitrophenetol)	平亨			PROJECTILE
SHOTOYAKU (Ammonium Nitrate/RDX)	硝斗			DIMETER
SHONAYAKU (Ammonium Nitrate) (Dinitronapthalene)	硝那			
ONAYAKU (Picric Acid) (Dinitronapthalene)	黄那			
OSHIYAKU (Picric Acid) (Wax)	黄脂			
CHANAYAKU (T.N.T) (Dinitronapthalene)	奈那			
EMPTY	無炸			

TABLE 6

## JAPANESE ARMY AMMUNITION MARKINGS

TABLE 6

## MARKINGS FOR SHELL AND CARTRIDGE CASES

PROPELLANT CHARGE MARKINGS			LOADED SHELL PROPELLANT CHARGE CLASSIFICATION	FIXED CARTRIDGE MARKINGS
DATE & PLACE OF ASSEMBLY	LOT SYMBOL	MARKING EXAMPLE		
DATE OF PROPELLANT CHARGE	A, B, C, D, etc. INDICATE LOT OF PROPELLANT MANUFACTURED FROM ONE BATCH IN ONE PLACE OF MANUFACTURE. AT MONTHLY PERIODS THE LOT SERIES ARE RECOMMENCED FROM A.	16.2.B (Lot B. FEB. 1941)  12.10.C  (Lot C. NOV. 1941 at NOGYA Branch Ordnance Depot)	THIS MARKING IS USED TO IDENTIFY SHELL CASES WITHOUT PRE-COMPOUNDED PROPELLANT CHARGES, i.e., FOR USE WITH VARIABLE PROPELLANT CHARGE ARE DESIGNATED AS 1 in PURPLE BELOW THE FIXED CARTRIDGE MARKINGS WITH SUCCESSIVE ROMAN NUMERALS FOR VARYING CHARGES.	FIXED CARTRIDGES WHICH ARE IDENTICAL BUT INTENDED FOR DIFFERENT ARTILLERY PIECES AND FIXED CARTRIDGES OF ONE TYPE BUT WITH UNIDENTIFIED PROPELLANT CHARGES ARE MARKED IN PURPLE ON THE CYLINDRICAL PORTION ABOVE THE CASE RIM FOR IDENTIFICATION PURPOSES. THIS MARKING IS ALSO APPLICABLE TO POWDER BAGS AND BLANK CARTRIDGES.
PLACE OF ASSEMBLY SAME AS TABLE 4				

LARGE CALIBRE COMMON AND SPECIAL SHELLS

TYPE OF PROJECTILE	COLOUR MARKINGS			DIMENSION OF BANDS	SYMBOLS
	BODY COLOUR	BAND COLOURS	SIGNIFICANCE		
<u>H.E. SHELLS</u> COMMON (Bombardment) (Anti-Aircraft)	MAROON	GREEN NOSE TIP	LOADED	BALANCE	
		YELLOW BAND	INDICATES POINT OF BALANCE	BAND	
<u>H.E. SHELLS</u> COMMON (Bombardment) (Anti-Aircraft)	MAROON	RED NOSE TIP	BASE FUZED	50 m.m.	
		GREEN BAND ON NOSE	LOADED	FOR	
		YELLOW BAND	POINT OF BALANCE	200 m.m.	
<u>A.P. SHELL</u>	WHITE	RED NOSE TIP	BASE FUZED	AMMUNITION	
		GREEN BAND ON NOSE	LOADED	AND	
		RED BAND ON BODY	POINT OF BALANCE	<u>LARGER</u>	
<u>A.P. SHELLS</u> (Capped)	WHITE	RED NOSE TIP	BASE FUZED	BALANCE	
		GREEN BAND ON NOSE	LOADED	BAND	
		WHITE OR BLACK BAND ON NOSE	BLACK BAND INDICATES 3 YEAR TYPE CAP	WIDTH	
		RED BAND ON BODY	POINT OF BALANCE	20 m.m.	
<u>ILLUMINATING SHELLS</u> (STAR)	BLUE OR RED	YELLOW ON BODY	POINT OF BALANCE	FOR	
<u>SMOKE/TRACER</u>	RED	YELLOW ON BODY	POINT OF BALANCE	150 m.m.	
<u>TARGET</u>	GREEN	NONE OR YELLOW	POINT OF BALANCE	AMMUNITION	
				UP TO	
				200 m.m.	

JAPANESE NAVY AMMUNITION

TABLE 7 (cont'd)

TABLE 7 (cont'd)

TYPE OF PROJECTILE	COLOUR MARKINGS			DIMENSIONS OF SYMBOLS BANDS
	BODY COLOUR	BAND COLOURS	SIGNIFICANCE	
<u>SHRAPNEL</u>	GREY	NONE OR YELLOW ON BODY	POINT OF BALANCE	BALANCE BAND WIDTH <b>50</b> m.m. FOR 200 m.m. AMMUNITION AND <u>LARGER</u> BALANCE BAND WIDTH 20 m.m. FOR 155 m.m. AMMUNITION UP TO 200 m.m.
<u>PRACTICE</u>	BLACK	YELLOW ON NOSE	PRACTICE	
		WHITE ON BODY	POINT OF BALANCE	
<u>TIME-PRACTICE</u>	BLACK	YELLOW ON NOSE	PRACTICE	
		TWO ROWS OF WHITE DOTS NEAR NOSE	TIME	

NOTE: Projectiles with green nose contain a bursting charge.  
 Projectiles with red band on green nose are base fuzed.

Illuminating projectiles 15 c.m. and over have a blue body.  
 Illuminating projectiles under 15 c.m. have a red body.

Large calibre = 25 c.ms. and above  
 Medium calibre = 12 c.ms. and above  
 Small calibre = under 12 c.ms.

REF ID: A15510

LEAFLET NO. 3/10

SECTION NO. 3

TABLE 8

JAPANESE SMALL ARMS AMMUNITION  
(COMPILED FROM SPECIMENS RECOVERED)

TABLE 8

CALIBRE	TYPE OF CASE	WEAPONS	TYPE OF PROJECTILE	COLOUR MARKING			SERVICE
				CANNELURE	ANNULUS	BODY	
6.5 m.m.	SEMI-RIMLESS	INFANTRY RIFLES LIGHT MACHINE GUNS	BALL BALL SNUB NOSE	RED RED	N.A.	NATURAL	ARMY
7.7 m.m.	SEMI-RIMLESS	HEAVY MACHINE GUNS TANK MACHINE GUNS	ARMOUR PIERCING TRACER BLANK (PAPER BULLET) BLANK (WOOD BULLET)	BLACK GREEN PURPLE NIL	N.A.	NATURAL	ARMY
7.7 m.m.	RIMLESS	INFANTRY RIFLES LIGHT MACHINE GUNS			N.A.	NATURAL	ARMY
7.7 m.m.	SEMI-RIMLESS	AIRCRAFT M.GUN	BALL INCENDIARY ARMOUR PIERCING TRACER	RED MAGENTA BLACK GREEN PURPLE WHITE	N.A.	NATURAL	ARMY
7.92 m.m.	RIMLESS	AIRCRAFT M.GUN (GERMAN "MG 15")	H.E. (FUZELESS) H.E. 7.92 ONLY)		N.A.	NATURAL	ARMY
12.7 m.m.	SEMI-RIMLESS	AIRCRAFT M.GUN	BALL INCENDIARY ARMOUR PIERCING BALL/TRACER A.P/TRACER H.E. (FUZELESS) H.E./INCENDIARY	RED MAGENTA BLACK GREEN GREEN & WHITE PURPLE WHITE	N.A.	NATURAL	ARMY
			H.E./INCENDIARY H.E./INCENDIARY H.E./INCENDIARY		N.A. N.A. (ITALIAN MANUFACTURE)		LIGHT BLUE MARCON GREEN
7.7 m.m.	RIMMED	AIRCRAFT M.GUN	BALL ARMOUR PIERCING TRACER INCENDIARY H.E. H.E./INCENDIARY (PHOS)	N.A.	BLACK WHITE RED GREEN PURPLE MAGENTA	NATURAL	NAVY
13.2 m.m.	RIMMED	ANTI-AIRCRAFT GUN	BALL ARMOUR PIERCING TRACER	N.A.	BLACK WHITE RED	NATURAL	NAVY

CALIBRE	TYPE OF CASE	WEAPONS	TYPE OF PROJECTILE	COLOUR MARKINGS		SERVICE	
				BODY	COLOUR BANDS		
20 m.m.	RIMLESS	AIRCRAFT CANNON "TYPE 97"	H.E./INCENDIARY	BLACK	RED ON NOSE. YELLOW ON BODY		ARMY
			H.E./INCENDIARY (FUZELESS)		RED ON NOSE		
			H.E./INCENDIARY/TRACER		RED ON NOSE - GREEN AND YELLOW ADJOINING ON BODY		
			A.P./TRACER		GREEN AND WHITE ADJOINING BODY		
20 m.m.	RIMLESS	ANTI-TANK CANNON "TYPE 97"	H.E./TRACER	BLACK	RED ON NOSE, GREEN AND YELLOW ADJOINING ON BODY		ARMY
			A.P./TRACER		GREEN AND WHITE ADJOINING ON BODY		
			A.P./TRACER		WHITE ON BODY, GREEN ON BODY AT CASE		
20 m.m.	RIMLESS	A/A A/TK CANNON "TYPE 98"	H.E./TRACER	BLACK	RED ON NOSE, YELLOW AND WHITE ON BODY, GREEN ON BODY AT CASE		ARMY
			H.E./TRACER		RED ON NOSE, GREEN AND YELLOW ADJOINING ON BODY		
			H.E./TRACER (SELF-DESTROYING)		RED ON NOSE, GREEN AND YELLOW ADJOINING ON BODY		
			INCENDIARY/TRACER (SELF DESTROYING)		RED ON NOSE, GREEN AND YELLOW ADJOINING ON BODY		
			A.P./TRACER		GREEN AND WHITE ADJOINING ON BODY		

NOTE:- (i) All Army body colours are black excepting only specific shells such as gas and incendiaries which require special handling and storage precautions.

(ii) The "Type 98" has a larger case than "Type 97".



TABLE 8 (Continued)

JAPANESE INTERMEDIATE CALIBRE AMMUNITION  
(COMPILED FROM SPECIMENS RECOVERED)

TABLE 8 (Continued)

CALIBRE	TYPE OF CASE	WEAPONS	TYPE OF PROJECTILE	COLOUR MARKINGS		SERVICE
				BODY	COLOUR BANDS	
20 m.m.	RIMLESS	AIRCRAFT CANNON "TYPE 99"	HIGH EXPLOSIVE	BLACK	NIL	NAVY
			HIGH EXPLOSIVE	BROWN	NIL	
			HIGH EXPLOSIVE	BROWN	TWO WHITE BANDS ON BODY	
			HIGH EXPLOSIVE	ORANGE	NIL	
			HIGH EXPLOSIVE/TRACER	RED	ONE WHITE BAND ON BODY	
			HIGH EXPLOSIVE/TRACER	RED	TWO WHITE BANDS ON BODY	
			HIGH EXPLOSIVE/TRACER	RED	THREE WHITE BANDS ON BODY	
			H.E./TRACER/SELF DESTROYING	RED	NIL	
			H.E./TRACER/SELF DESTROYING	BLACK	NIL	
			H.E./INCENDIARY	(GREENISH YELLOW)	NIL	
			H.E./INCENDIARY	"	ONE WHITE BAND ON BODY	
			H.E./INCENDIARY	"	TWO WHITE BANDS ON BODY	
			H.E./INCENDIARY	"	WIDE WHITE BAND ON BODY	
			ARMOUR PIERCING/INCENDIARY	WHITE	NIL	
TRACER (FUZELESS)	RED	NIL				
TRACER (FUZELESS)	RED	TWO				
TRACER (FUZELESS)	GREEN	NIL				
PRACTICE (FUZELESS)	BLACK	NIL				
25 m.m.	RIMLESS	ANTI-AIRCRAFT "POM-POM" (SINGLE DOUBLE or TRIPLE BARREL)	HIGH EXPLOSIVE/TRACER	ORANGE	NIL	NAVY
			HIGH EXPLOSIVE/TRACER	ORANGE	GREEN BAND ON NOSE	
			HIGH EXPLOSIVE/TRACER	RED	GREEN BAND ON NOSE	
			H.E./TRACER/SELF DESTROYING	RED	NIL	
			HIGH EXPLOSIVE	BROWN	NIL	
			HIGH EXPLOSIVE	MAROON	NIL	
			HIGH EXPLOSIVE	MARCON	GREEN BAND ON NOSE	
			INCENDIARY	GREEN	NIL	
			ARMOUR PIERCING /TRACER	BLACK	WHITE BAND ON BODY & WHITE TIP.	

TABLE 3 (Continued)

JAPANESE LARGE CALIBRE AMMUNITION  
(COMPILED FROM SPECIMENS RECOVERED)

TABLE 8 (Continued)

CALIBRE	TYPE OF CASE	WEAPONS	TYPE OF PROJECTILE	COLOUR MARKINGS		SERVICE
				BODY	COLOUR BANDS	
37 m.m.	RIMMED	"TYPE 94" RAPID FIRE INFANTRY GUN AND ANTI-TANK CANNON	ARMOUR PIERCING HIGH EXPLOSIVE HIGH EXPLOSIVE	BLACK	WHITE AROUND BODY RED ON NOSE, YELLOW & WHITE ON BODY RED ON NOSE, WHITE ON BODY	ARMY
40 m.m.	RIMMED	ANTI-AIRCRAFT "BOFORS" GUN	HIGH EXPLOSIVE ARMOUR PIERCING EMPTY ROUND	MAROON WHITE ORANGE	GREEN BAND NEAR NOSE GREEN NOSE TIP NIL	NAVY
			HIGH EXPLOSIVE	BROWN	RED ON NOSE, GREEN ON BODY	BRITISH
47 m.m.	RIMMED	"MODEL 1" ANTI-TANK GUN	HIGH EXPLOSIVE ARMOUR PIERCING	BLACK	RED ON NOSE, YELLOW ON BODY WHITE ON BODY	ARMY
57 m.m.	RIMMED	"TYPE 97" TANK GUN	HIGH EXPLOSIVE ARMOUR PIERCING	BLACK	RED ON NOSE, WHITE ON BODY WHITE ON BODY	ARMY
70 m.m.	RIMMED	MOUNTAIN HOWITZER	HIGH EXPLOSIVE	BLACK	RED ON NOSE, YELLOW ON BODY	ARMY
		"TYPE 88" ANTI-AIRCRAFT GUN	HIGH EXPLOSIVE	N O T K N O W N		
75 m.m.	RIMMED	"MODEL 1" REGIMENTAL HOWITZER (Short Case)	GAS (D.C)	GREY	RED & BLUE ON NOSE, YELLOW, RED & WHITE ON BODY	ARMY
			GAS (H.L)	GREY	RED & BLUE ON NOSE, YELLOW & WHITE ON BODY	
			SMOKE INCENDIARY	WHITE (BLUE GREY)	RED ON NOSE  RED & BLACK ON NOSE	
		"TYPE 94" MOUNTAIN HOWITZER (Long Case)	ARMOUR PIERCING ARMOUR PIERCING HIGH EXPLOSIVE HIGH EXPLOSIVE HIGH EXPLOSIVE	BLACK BLACK BLACK BLACK BLACK	RED ON NOSE, YELLOW ON BODY RED ON NOSE, WHITE ON BODY WHITE BAND ON BODY GREEN ON BODY RED ON NOSE, WHITE OR YELLOW ON BODY	




TABLE 2 (Continued)

JAPANESE LARGE CALIBRE AMMUNITION  
(COMPILED FROM SPECIMENS RECOVERED)

TABLE 8 (Continued)

CALIBRE	TYPE OF CASE	WEAPONS	TYPE OF PROJECTILE	COLOUR MARKINGS		SERVICE
				BODY	COLOUR BANDS	
80 m.m.	RIMMED	COAST DEFENCE GUN	HIGH EXPLOSIVE	MAGENTA	GREEN ON NOSE	NAVY
140 m.m.	RIMMED	"TYPE 37F" 50 CALIBRE, 14 c.m. GUN	STAR SHELL	BRIGHT RED	NIL	NAVY
			H.E. (COMMON) CAPPED	MAROON	MAROON & GREEN ON NOSE CAP	
			H.E. (COMMON) UN- CAPPED	MAROON	RED & GREEN ON NOSE	
150 m.m.	RIMMED	"TYPE 96" HOWITZER	HIGH EXPLOSIVE (SHORT)	BLACK	NOT KNOWN	
			HIGH EXPLOSIVE (LONG)	NOT KNOWN		
			GAS (H.C.N)			

NOTES: (i) The body colours of the "Type 99" ammunition are confusing due to the fact that rounds of Swiss manufacture have a different colour scheme to the Japanese. The base of case of the Swiss ammunition is marked . The white bands are believed to indicate 1st, 2nd or 3rd minor modification which is in the nature of a change in the explosive filling.

(ii) The body colours and types of 25 m.m. ammunition provide anomalies which are inexplicable, however, the projectiles with the green band on the nose were found to have aluminium as a constituent of the H.E. Charge.