#### AIR FORCE HEAD-QUARTERS

#### JAPANESE AMMUNITION & PYROTECHNICS

#### INTRODUCTION

- 1. This publication is issued primarily for the informational guidance of R.A.A.F. Bomb Disposal Squads, who are solely responsible for the actual disposal of enemy be 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 existance of such items.
- 3. Incomplete or meagre information contained in any leaflet will by virtue of its incompletness, advise of the particular item on which further details are required and in some measure assist in identification

ISSUED BY DIRECTORATE OF ARMAMENT DATE OF ISSUE:

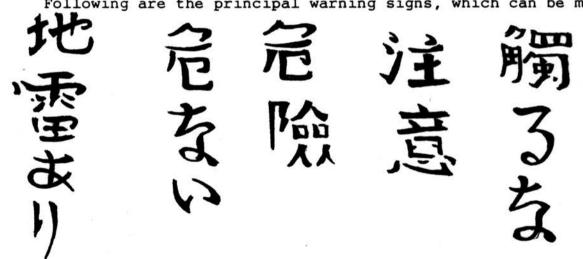
#### JAPANESE SIGNS

"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:-



LAND MINES HERE DANGEROUS DANGER TAKE CARE DON"T TOUCH

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

#### JATANESE APMAMENT - TYPE &, MODEL NUMBERS

#### GEITERAL

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.

# **胆川** 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 HRA 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 BR TO

This is the present era which began with Emperor Hirchito'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

FRAS   Jap.   MEIJI   TAISHO   SHOWA   Year   Calendar   HEIJI   TAISHO   SHOWA   Year   Calendar   TAISHO   TAIS	
33       2560       1900       12       2583       193         34       2561       1901       13       2584       193         35       2562       1902       14       2565       193         36       2563       1903       15       1       2586       193         37       2564       1904       2       2587       193         38       2565       1905       3       2588       193         39       2566       1906       4       2589       193         40       2567       1907       5       2590       193	wa fu
34       2561       1901       13       2584       192         35       2562       1902       14       2565       192         36       2563       1903       15       1       2586       192         37       2564       1904       2       2587       193         38       2565       1905       3       2588       193         39       2566       1906       4       2589       193         40       2567       1907       5       2590       193	luar
35       2562       1902       14       2565       190         36       2563       1903       15       1       2586       190         37       2564       1904       2       2587       190         38       2565       1905       3       2588       190         39       2566       1906       4       2589       190         40       2567       1907       5       2590       190	23
36       2563       1903       15       1       2586       193         37       2564       1904       2       2587       193         38       2565       1905       3       2588       193         39       2566       1906       4       2589       193         40       2567       1907       5       2590       193	24
37     2564     1904     2     2587     198       38     2565     1905     3     2588     19       39     2566     1906     4     2589     19       40     2567     1907     5     2590     19	25
38     2565     1905     3     2588     1905       39     2566     1906     4     2589     1906       40     2567     1907     5     2590     1906	26
39     2566     1906     4     2589     19       40     2567     1907     5     2590     19	:7
<u>40</u> 2567 1907 5 25 <u>90</u> 19	23
	29
0500 4000	jO
<u>41</u>   2568   1908   6   25 <u>91</u>   19	31
<u>42</u> 2569 1909 7 25 <u>92</u> 19	32
<u>43</u>   2570 1910   3 25 <u>93</u> 19	33
<u>바</u> 2571 1911 9 25 <u>9</u> 나 19	34
<u>45</u> <u>1</u> 2572 1912 10 25 <u>95</u> 19	35
<u>2</u> 2573 1913 11 25 <u>96</u> 19	36
<u>3</u> 2574 1914 12 25 <u>97</u> 19	<b>37</b> .
<u>4</u> 2575 1915 13 25 <u>98</u> 19	38
<u>5</u> 2576 1916 14 25 <u>99</u> 19	39
<u>6</u> 2577 1917 15 260 <u>0</u> 19	140
7 2578 1918 16 260 <u>1</u> 19	41
	42
9 2580 1920 18 260 <u>3</u> 19	43
10 2581 1921 19 250 <u>4</u> 19	44
11 2582 1922 20 <b>260</b> 5 19	45

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 (year) which appears after the figures in the TAISHC ERA.

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.

A.C.D. 155 LEAFLET No. 1/05 SECTION No. 3

#### TRANSLATIONS

Ī	GENERAL										
1	ZEF	R 零	OF	壹	o	演	]	n 答	4	五	
	六	七	* 八	ΐ	+ 0	拾	三百	<u>∞</u> +	PREFIX TO		
	DAY	MONTH 月	YEAR 年	MEIJI 日月?		taisho 大	正	田君	own era 和 or 日召		
	ARMY 陸軍	海軍	舟空.	FORCE 兵	舟空	FORCE 軍	TYPE 式	型型	MODIF N	改造	
	MA 당 OR	號	EXPERIME 言式	XXX 2422 0147050 1		新 和	修修	23-79 <b>-</b> 2	MANUFAC 注	TURED SU	
	ERAM EL	瓦千	METRE 米	畑	粃毛	LARGE 大	SMALL	weicht 量	SAFE 安	FIRE 火	
	NUMERAL FOR COUNTING ROUNDS					NUMERAL FOR COUNTING MISCELLANEOUS OBJECTS					
	I	廠	OR 3	告兵届	——— 汝	大藥製造所					
-		LIBRE 千型	FIRST	<u>1222</u> 11	SECOND	O OR'B' THIRD OR'C' FOURTH OR'D'				H OR D'	
				P	YROTE	ECHNIC	<u>cs</u>			z	
1	COLOUR	BLACK 黑	WHITE	RED 赤	病 of	EN R 緑	BLUE	PINK 桃	YELLOW 黄	BROWN 茶	
	HR.	NATING B月		CHUTE	FLARE 光	80	KACHUTE FI		DAY E	NICHT	
	STAR 星	DRAGON(SA 育苣	HOKE TRAIL)	2247550	號		O PARACHI 式用)			- 퐾	
	SMOKE CANOLE FLAME  發煙筒 均			ME	PARACHUTE FLARE MODEL 2 MODIFICATION I R光投彈二型改一						
1	TYPE 94 LARGE SMOKE CANOLE					1	FLARE, MO				

Α.0	A.C.D. 155 LEAFLET No						SECTI	ON No. 3	T
	TRANSLATIONS								
1			ВОМ	BS AN	D FU	ZES	**********		1
Во			D (USE) BON	MODEL	ORDIN	10157	SPEC	IAL FUZE	
	3單		用)以	多彈	通	常	特	殊 信管	3
1	STITUTE E		NUM		FIRING		M (NAVY F		7
	用場		*				火 製		
DELAY 延	INSTAN	20	그 그는 이상 사람이 얼마나 하기 있다.	EOUS FUZE 日舜		ELAY FUZE 下		E 其月信管	٠
	THORAWAL 發信		100000000000000000000000000000000000000	STURBANCE	N/40/02/03/03/03/03/03/03/03/03/03/03/03/03/03/	TIME	OR PERCUS:		
1-34		TER BOMB	严重	發信		STER BOLD		力信管	
小	小强 or 夕彈				## ## ## ## ## ## ## ## ## ## ## ## ##				
The contract of	INCENDIARY AERIAL TORPEDO					l No.25 MI		- 4	٦
	夷		雷空					號爆彈	
		ND BOMB N 番陸/			TEMPORARILY DESIGNATED TYPE 1,No 6,MK 6 BOMB,MO(3)3 1段稱一式六番六號塊彈三型				
x .			AMI	MUNIT	ION E	TC	Trained of Alexandra and Alexandra	*	1
ケ	SHELL	SYM INCENDIAR	Y SHELL	ILLUMINAT	BOL FINC SHELL	SYMI TARGE	T SHELL	SYMBOL SIGNAL SHELL 7	
SAND-FILL		PROJ 3單)	ECTILE	AP PROJ 破年			AIRCRAFT	CANNON	
GUN (GE	NERAL)		P TRACER			H.E. S		PRACTICE SHELL	$\dashv$
火利	<u> </u>	曳	光	甲彈		榴	彈	演引	1
	NATING SH			T SHELL	HOLLOW	CHARGE	COM	PLETE ROUND	
	明强		目本票	3單	タ(	3單)		藥筒	
	CALIBRE : 徑 砲		100.00	W CHARGE P 格子	SGE SWIT	SMOKE 谷小	SHELL 亞彈	CARTRIDGE CASE	Ε
	RIC DETON			CTRIC DET			王 J罕 ROJECTILE	MINE	4
	<b>電音</b>			火雷 髱	S	被帅		機雷	
	T LAND M ム式は	25V5V 955445400		HAND GREI 手榴		DEPTH (		TORPEDO 魚雷	
шы 2	- N1	. E H	2 /	1 小田	ノ宇	<u> </u>	Ш	5万。田	ك

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#### NAVY BOMBS

(Compiled from captured documents)

). <del></del>	TYPE OF	¥	NEW CO	LOUR MA	rkings		TARGETS
1212	BOMB.	NOSE TIP	NOSE BAND	BODY	TAIL UNIT	STZB. BAND	
	ORDINARY BOMBS	GREEN	BROWN	GREY	GREY	GREEN	(GENERAL PURPOSE BOMBS)  LARGE MODEL (500 KG AND OVER)  BOMBING OF CAPITAL SHIPS  MEDIUM LCDEL (250-500 KG)  BOMBING OF CAPITAL SHIPS AND CARRIERS  SMALL MODEL (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
•	DUMLY BOMBS	GREEN	BLACK	WHITE	WIITE	White	RELEASE TESTS AND TRAINING
	TRAINING BOMBS	BLACK	BLACK	BLACK	BLACK	BLACK	TRAINING IN INSTALLATION, LOADING AND TESTING OF RELEASE GEAR.
22.0	SMOKE BOMB	GREEN	BLACK	GREY	GREY	BLACK	CONCEALMENT OF SHIPS
-	SPECIAL BOMB MARK 1	GREEN	YELLOW	GREY	GREY	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	CREY	RED	FORMATIONS OF AIRCRAFT
_	SPECTAL BOMB MARK 4	GREEN	WHITE	GREY	GREY	RED	(ROCKET BOMB) DIVE BOMBING CAPITAL SHIPS
9,000	SPECIAL BOMB MARK 5	GREEN	WHITE	GREY	GREY	OREY	(ARMOUR PIERCING BOMB) CAPITAL SHIPS WITH HEAVY ARMOUR

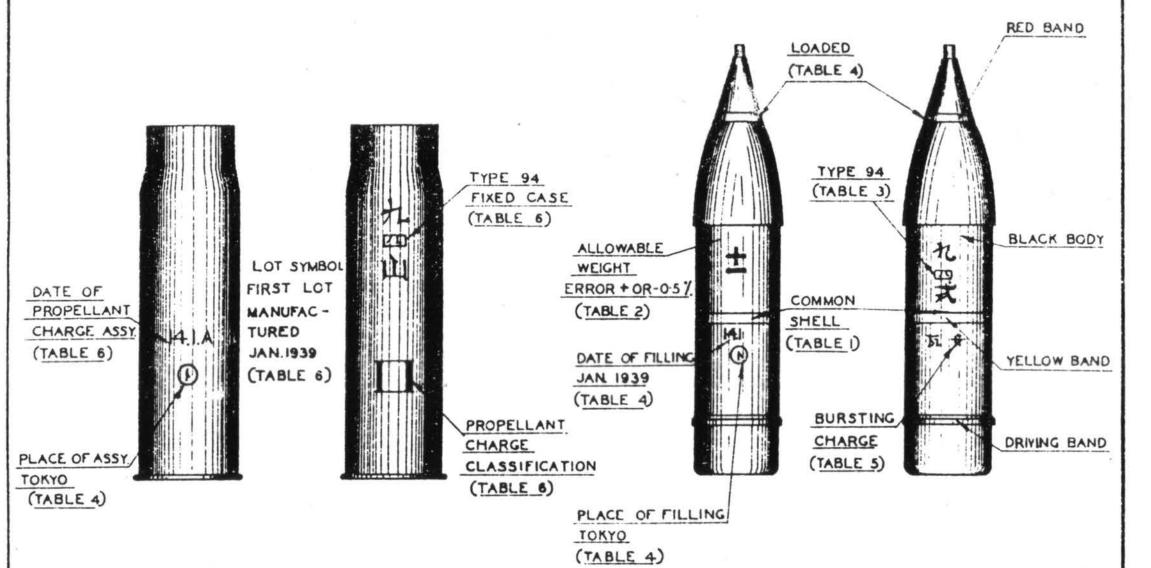
#### NAVY BOMBS

#### (Compiled from captured documents)

Continued.

TYPE OF BOMB			NEW COLOUR MARKINGS .			TARGETS
,	NOSE TIP	NOSE BAND	BODY	TAIL UNIT	STZB. BAND	
SPECIAL BOMB MARK 6	GREEN	RED	GREY	GREY	RED	(INCEMDIARY BOMB) TROUBLIARY BOMBING OF CITY BUILDINGS
SPECIAL BOMB MARK 7	GREEN	PURPLE	GREY	GREY	PURPLE	(BACILLUS BOMB) FOR SPECIAL CIRCUMSTANCES
MARKS 8 TO 18 INC.	7	-	•	-	. <b>-</b>	NO DETAILS AVAILABLE
SPECIAL BOMB MARK 19	-	-	GREY	-	<b>-</b>	SPECIAL 7.5 KG BONDS FIRED BY FIGHTER PLANES AT ALLIED AIRCRAFT.
SEPCIAL BOMB MARK 20	-	-	GREY	-	-	NO DETAILS AVAILABLE.
SPECIAL BOMB MARK 21	1. <b>-</b> 0.	-	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 BOLD 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

# MARKINGS



TYPICAL CASE MARKINGS

TYPICAL PROJECTILE MARKINGS

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

TYPE OF SHELL		COLOUR BODY COLOUR	MARKINGS BAND COLOURS	NUMBER OF BANDS	DIMENSION OF BAND	TYPE OF MARKING AND SYMBOLS
COMMON SHELL ARMOUR PIERCING SHELL HIGH EXPLOSIVE L.P. SHELL		DODI COLOUR	YELLOW		EQUAL	CIRCUMFERENT- IAL BAND BAND
COMMON SHELL, PIG IRON SHELL COMMON SHELL, PIG IRON ARMOUR PIERCING SHELL, CAST IRON H.E. COMMON SHELL, CAST IRON		BLACK	GREEN	•	TO DRIVING BAND	AROUND CENTRE
SHRAPNEL SHELL	SHELLS		RED	ta.	WIDTH	CYLINDRICAL
ARMOUR PIERCING SHELL ARMOUR PIERCING SHELL, CAPPED ARMOUR PIERCING SHELL OR H.E. CHILLED	MON	*		v	ព	PART OF PROJECTILE
ARMOUR PIERCING TRACER			GREEN AND WHITE	TWO	**	11000011111
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 GREEN	ONE	LARGE CALIBRE 20 m.m. MED. CALIBRE 15 m.m. SMALL CALIBRE	CIRCUMFERENT- IAL ABOVE BCURRELET OF PROJECTILE

"TYPE 84" COMMON SHELL

(TYPE 84) 八四式 PROJECTILE.

STENCILLED LONGITUDINALLY IN

LINE

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

	·								
ALLOWABLE ERRORS IN TOTAL SHELL WEIGH	T	SYMBOL	DIMENSION	ARKIN COLOUR	G S POSITION	NOTES	ij		
ERRORS FROM MINUS 1.5% TO MINUS 2.5% FOR BELOW SPECIFIED STANDARDS	SHELL WEIGHTS	=	SIZE OF SYMBOLS	WHITE: 1/4 DISTANCE EXCEPT- FROM		or - MARKED SUCCESSIVELY	155		
ERRORS FROM MINUS 0.5% TO MINUS 1.5% FOR BELOW SPECIFIED STANDARDS	:	EQUALS	ING IN CASE OF YELLOW	OGIVE ON CYLINDRICAL PART OF	WEIGHT	*			
ERRORS FROM MINUS 0.5% TO PLUS 0.5% FOR SABOVE AND BELOW SPECIFIED STANDARDS	土	1/4 PROJECTILE	OR WHITE PROJE-	PROJECTILE 1/4 DISTANCE	OF ABOVE OR	TEVALEL			
ERRORS FROM PLUS 0.5% TO PLUS 1.5% FOR SH ABOVE SPECIFIED STANDARDS	+	DIAMETER	CTILE WHEN BLACK	SOURRELET ON STREAM-	ERROR IN THIS CHART	ON LET			
ERRORS FROM PLUS 1.5% TO PLUS 2.5% FOR SHELL WEIGHTS ABOVE SPECIFIED STANDARDS				WILL BE USED	LINED PART OF FINNED SHELLS		3/10		
TABLE 3	JAPANESE ARM	INDMM Y	TION			TABLE 3			
	MARKINGS FOR PROJECTILE TYPE								
NOMENCLATURE	SIZE OF SYME			POSITION		COLOUR	SIC		
"TYPE 94" COMMON SHELL (TYPE 94) 九四式	Contract of the contract of th			TILE ON OP ERROR MAR	POSITE SIDE KING	WHITE or alternat- ively in BLACK FOR WHITE OR YELLOW	TOI NO		

PROJECTIIE DIAMETER

HC.

= 1 Div. Ordnance Department

Others correspond to these.

14.1

= OKAYAMA Army Ordnance Branch Depot

KOKURA Army Ordnance Depot

A.C.D.

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LEAFLET NO.

SECTION NO.

TABLE 5

TYPE OF BURSTER CHARGE

	SYMBOL	POSITION	COLOUR	SIZE OF SYMBOL
ANGA YAKU (Ammonium Nitrate/RDX)	岁瓦.	CENTRE OF CYLINDRICAL PART OF PROJECTILE		1/10 to 1/5
HEINEI (Black Powder)	平亨			OF
HEINEIYAKU (Trinitrophenetol)	平等	IF PROJECTILE TYPE MARKING IS		PROJECTILE
SHOTOYAKU (Ammonium Nitrate/RDX)	码》	IN THAT POSITION THEN BURSTING CHARGE MARKING IS	WHITE	
SHONAYAKU (Ammonium Nitrate ) (Dinitronapthalene)	BAR	STENCILLED BELOW		DIMAETER
ONAYAKU (Picric Acid ) (Dinitronapthalene)	黄那			
OSHIYAKU (Picric Acid) (Wax	黄脂			•
CHANAYAKU (T.N.T (Dinitronapthalene)	奈那			
ЕМРТҮ	無炸	•		

TABLE 6	<u>J/</u>	PANESE ARMY AMMUNITI	ON MARKINGS	TABLE 6
	MARKI	INGS FOR SHELL AND CA	RTRIDGE CASES	
PROPELLANT CE	ARGE MARKINGS		LOADED SHELL PROPELLANT CHARGE CLASSIFICATION	FIXED CARTRIDGE MARKINGS
DATE & PLACE OF ASSEMBLY	LOT SYMBOL	MARKING EXAMPLE	4	
DATE OF PROPELLANT CHARGE	A,B,C,D, etc. INDICATE LOT OF PROPELLANT MANUFACTURED FROM OHE 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, 1.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 UNIDENTIF- IED PROPELLANT CHARGES ARE MARKED IN PURPLE ON THE CYLINDRICAL PORTION ABOVE THE CASE RIM FOR IDENTIFICATION PURPOSES. THIS MARKING IS ALSO APPLICABLE TO
PLACE OF ASSEMBLY SAME AS TABLE 4				POWDER BAGS AND BLANK CARTRIDGES.

#### LARGE CALIBRE COMMON AND SPECIAL SHELLS

		COLOUR MARKINGS		DIMENSION OF BANDS	SYMBOLS
TYPE OF PROJECTILE	BODY COLOUR	BAND COLOURS	SIGNIFICANCE	DAIDO	
H.E. SHELLS COMMON (Bombardment)	MAROON	CREEN HOSE TIP	LOADED	BALANCE BAND	
(Anti-Aircraft)		YELLOW BAND	INDICATES POINT OF BALANCE	WIDTH	, ,
H.E. SHELLS COMMON (Bombardment)	~ 3			50 m.m.	8
(Anti-Aircraft)	MAROON	RED NOSE TIP	BASE FUZED	FOR	
		GREEN BAND ON NOSE	LOADED	200 m.m.	: in
*		YELLOW BAND	POINT OF BALANCE		
A.P. SHELL	WHITE	RED NOSE TIP	BASE FUZED	AMMUNITION	
		GREEN BAND ON NOSE	LOADED	AND	
2€)		RED BAND ON BODY,	POINT OF BALANCE	LARGER	
A.P. SHELLS (Capped)	WHITE	RED NOSE TIP	BASE FUZED	BALANCE	
		GREEN BAND ON NOSE	LOADED		
		WHITE OR BLACK BAND ON NOSE	BLACK BAND INDICA- TES 3 YEAR TYPE CAP	BAND WIDTH	
		RED BAND ON BODY	POINT OF BALANCE	20 m.m.	
ILLUMINATING SHELLS (STAR)	BLUE OR RED	YELLOW ON BODY	POINT OF BALANCE		
SMOKE/TRACER	RED	YELLOW ON BODY	POINT OF BALANCE	FOR	
TARGET	GREEN	NONE OR YELLOW	POINT OF BALANCE	150 m.m. AMMUNITION	
	.3			UP TO 200 m.m.	

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

TABLE 7 (cont'd)

Large calibre

Small calibre

Medium calibre

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

25 c.ms. and above 12 c.ms. and above under 12 c.ms.

TIME

SECTION HO.

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TEAFLET

TABLE 8				TABLE 8			
	*	(COMPILED FROM SP	FOILENS PECOVERED)	*			
				С	SERVICE		
CALIBRE	TYPE OF CASE	WEAPONS	TYPE OF PROJECTILE	CANNELURE	ANNULUS	BODY	
6.5 m.m.	SEMI-RIMLESS	INFANTRY RIFLES LIGHT MACHINE GUNS	BALL BALL SNUB NOSE	RED RED	N.A.	NATURÀL	ARMY
7.7. m.m.	SEMI-RIMLESS	HEAVY MACHINE GUNS TANK MACHINE GUNS	ARMOUR PIERCING TRACER BLANK (PAPER BULLET)	BLACK GREEN PURPLE	N.A.	NATURAL	ARMY
7.7 m.m.	RIMLESS	INFANTRY RIFLES LIGHT MACHINE GUNS	BLANK (WOOD BULLET)	NIL	N.A.	NATURAL	ARMY
7.7 m.m.	SEMI-RIMLESS	AIRCRAFT M.GUN	BALL	RED MAGENTA	N.A.	NATURAL	ARMY
7.92 m.m.	RIMLESS	AIRCRAFT M.GUN (GERMAN "MG 15")	INCENDIARY ARMOUR PIERCING TRACER H.E. (FUZELESS) H.E. 7.92 ONLY)	BLACK GREEN PURPLE WHITE	N.A.	NATURAL	ARMY .
12.7 m.m.	semi-rim <b>ies</b> s	AIRCRAFT M.GUN	BALL INCENDIARY ARMOUR PIERCING BALL/TRACER A.P/TRACER H.E. (FUZELESS) H.E/INCENDIARY	RED MAGENTA BLACK GREEN GREEN & WHIT PURPLE WHITE	N.A.	NATURAL	ARMY
3 = 40 gV	w/2		H.E/INCENDIARY H.E/INCENDIARY H.E/INCENDIARY	N.A. (ITALIAM MAN	N.A. UFACTURE)	MARCON GREEN	ARMY
7.7 m.m.	RIDED	AIRCRAFT M.GUN	BALL ARMOUR FIERCING 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	BAIL ARMOUR PIERCING TRACER	N.A.	BLACK WHITE RED	NATURAL .	YVAN

TABLE 8	(Continued)
	*

# JAPANESE INTERMEDIATE CALIBRE AMMUNITION (COMPILED FROM SPECIMENS RECOVERED)

TABLE 8 (Continued)

					COLOUR MARKINGS	SERVICE	
CALIBRE	TYPE OF CASE	WEAPONS	TYPE OF PROJECTILE	BODY	COLOUR BANDS	SERVICE	
			H.E/INCENDIARY	j.	RED ON NOSE. YELLOW ON BODY		
20 m.m.	RIMLESS	AIRCRAFT CANNON "TYPE 97"		BLACK	RED ON NOSE	ARMY	
			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	RIMLESS ANTI-TANK CANNON "TYPE 97"	H.E/TRACER		RED ON NOSE, GREEN AND YELLOW ADJOINING ON BODY		
			A.P./TRACER	0.50	GREEN AND WHITE ADJOINING ON BODY	ARMY	
	7		A.P/TRACER	BLACK	WHITE ON BODY, GREEN ON BODY AT CAS	E	
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 DESTR- OYING)		RED ON NOSE, GREEN AND YELLOW ADJOINING ON BODY		
			A.P./TRACER	: <b>1</b> 1	GREEN AND WHITE ADJOINING ON BODY	c	

require special handling and storage precautions.

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

# JAPANESE INTERMEDIATE CALIBRE AMMUNITION (COMPILED FROM SPECIMENS RECOVERED)

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

#### TABLE 3 (Continued)

# JAPANESE LARGE CALIERE AMMUNITION (COMPILED FROM SPECIMENS RECOVERED)

CALIBRE	TYPE OF CASE	WEAPONS	TYPE OF PROJECTILE	BODY	COLOUR BANDS	SERVICE
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
Цо 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	APMY
57 m.m.	RIMMED	"TYPE 97" TANK JUN	HIGH EXPLOSIVE ARMOUR PIERCING	BLACK	RED ON NOSE. WHITE ON BODY WHITE ON BODY	ARMY
		MOUNTAIN HOWITZER	HIGH EXPLOSIVE	BLACK	RED ON NOSE, YELLOW ON BODY	
70 m.m.	RIMMED	"TYPE 88" ANTI-AIRCRAFT GUN	HIGH EXPLOSIVE	NO		AR <b>MY</b>
		"MODEL 1" REGIMENTAL HOWITZER	GAS (D.C)	OREY	RED & BLUE ON NOSE, YELLOW, RED & WHITE ON BODY	ū.
-		(Short Case)	SMOKE	GREY WHITE	RED & BLUE ON NOSE, YELLOW & WHITE ON BODY RED ON MOSE	ARMY
75 m.m.	RIMMED	×	INCENDIARY	(BLUE (GREY)	RED & BLACK ON NOSE	
		s. w	ARMOUR PIERCING	BLACK	RED ON NOSE. YELLOW ON BODY	υ χ
		"TYPE 94"	ARMOUR PIERCING HIGH EXPLOSIVE	BLACK	RED ON NOSE. WHITE ON BODY WHITE BAND ON BODY	
		MCUNTAIN HOWITZER (Long Case)	HIGH EXPLOSIVE	BLACK BLACK	GREEN ON BODY RED ON MOSE, WHITE OR YELLOW ON BODY	
		-	HIGH EXPLOSIVE	DIMENT.	1000 011 11000 1 1111111111111111111111	

	9	. (9	COMPILED FROM SPECIMENS R	ECOVERED)		
CALIBRE	TYPE OF CASE	WEAPONS	TYPE OF PROJECTILE	BODY	SERVICE	
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 H.E. (COLLION) CAPPED H.E. (COMMON) UN- CAPPED H.E. (HIGH CAPACITY)	BRIGHT RED MAROON MAROON MAROON	NIL MAROON & GREEN ON NOSE CAP RED & GREEN ON NOSE GREEN ON NOSE	~ NAVY
150 m.m.	RIMMED	"TYPE 96" HOWITZER	HIGH EXPLOSIVE(SHORT) HIGH EXPLOSIVE(LONG)	BLACK	NOT KNOWN	

JAPANESE LARGE CALIBRE AMMUNITION

(ACMIDITION DOOM ONINGTHING PROGRAMON)

TABLE 8 (Continued)

# 150 m.m. RIMMED HOWITZER HIGH EXPLOSIVE (LONG) GAS (H.C.N) BLACK NOT KNOWN MOTES: (1) The body colcurs of the "Type 99" ammuntion are confusing due to the fact that rounds of ture have a different colour scheme to the Japanese. The base of case of the Swiss ammunimarked Oe. The white bands are believed to indicate 1st. 2nd or 3rd minor modificate

TABLE 8 (Continued)

Charge.

NOTES: (i) The body colours of the "Type 99" ammuntion 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 Oe. 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.