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THE ATTACHED CARD INSERT GIVES PURCHASE TAX ADDITIONS AND LAMP CLASSIFICATIONS

As efforts are made constantly to improve designs and methods of manufacture, subject to statutory restrictions and availability of materials, the goods supplied may differ in details from the description given in this publication.

Not every Mazda lamp can be included in this catalogue and should your own special requirements for certain non-standard lamps not be fully satisfied, please consult any BTH Office.

Foreword

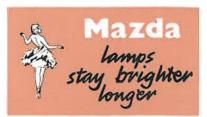
HREE-quarters of a century ago, two brilliant young scientists with sound business sense formed a partnership that was to exert a profound and far-reaching influence on the electrical age to come. The vigorous, driving enthusiasm of Elihu Thomson and Edwin Houston continues to grow through the years in the great British Thomson-Houston Company, and the twentieth century has consistently found the pioneering spirit of BTH in the forefront of electrical development throughout the world.

Mazda Lamps are designed with meticulous care by BTH Engineers and constructed to the most precise tolerances from the finest available materials. It is our tradition that every significant lighting development since the days of the carbon arc owes something to BTH, and 1954 in particular saw the introduction of many new and greatly improved fluorescent and electric discharge lamps. Today, as always from the days of the earliest filament bulbs, no lamp will give you a better, more economical or longer lasting light for your money than a Mazda.



Caps and Dimensions

Watts	Co-	Diar	neter	Lei	ngth		Centre ngth
Watts	Сар	mm.	in.	mm.	in.	mm.	in.
15 25 40 60 75 100	B.C.(B22/25 × 26)	55 60 60 60 68 68 68	2·17 2·36 2·36 2·36 2·68 2·68 3·15	92·5 100 110 110 125 125 160	3·63 3·94 4·33 4·33 4·92 4·92 6·30	65 70 80 80 90 90	2·56 2·76 3·15 3·15 3·54 3·54 4·72
200 300 500 750 1000	E.S.(E27/25) G.E.S.(E40/45)	90 110 130 150 150	3·54 4·33 5·12 5·91 5·91 6·69	178 233 267 300 300 335	7·00 9·17 10·51 11·81 11·81 13·19	133 178 202 225 225 250	5·24 7·00 7·95 8·86 8·86 9·85



Clear. These lamps are available in 15-watt to 1500-watt sizes and a large percentage have fuses in the lead-in-wires. Except where indicated, they are filled with the inert gas Argon to enable the filament to operate at much higher temperatures and with greater efficiency.

Pearl. All that has been said of Mazda clear lamps applies to the popular pearl range except that the latter are available from 15 watt to 200 watt only. The inside frosting of these lamps diffuses the light and reduces glare with very little light absorption.

Coiled Coil. As the name implies, the filament wire is first wound round a mandrel and the resultant coil wound once again; the effect is to provide a filament giving up to 20% more light for the same current consumption. All Mazda Coiled Coil lamps have internal fuses.

Silverlight. These inside-silica-coated lamps give a bright, evenly distributed and diffused light by virtue of the finely divided silica coating. As with ordinary G.L.S. lamps the coiled coil lamps give up to 20% more light than their single coil equivalent.

Mazda G.L.S. Lamps have moulded necks withstanding twisting-strains of over 25 lb.-in. and 'Vitalized' filaments which never sag. They are designed to operate in any position.



General Lighting Service

		Volt	ages and List Pri	res *	
Watts	200, 210, 220, 230, 240, 250, 260 s. d.	100, 110, 120, 130 s. d.	60, 65, 75 s. d.	35, 50, 55 s. d.	25 s. d.
Single C	Coil Clear an	d Pearl			
15 25 40 60 75	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1 11† 1 11 2 3 2 3	1 11 1 11 2 3 2 3	1 11 1 11 2 3 2 3
100 150 200 Clear 200 Pearl	1 . 10 2 7 3 9 4 3	2 0 2 9 4 3 4 9	4 0 6 0 9 0	4 0 6 0 9 0	4 0
Single C	Coil Clear On	ly			
300§ 500§ 750§	7 6 10 0 -16 0	8 0 10 6 16 0	12 0 16 0	12 0 16 0	
1000§ 1500§	17 6 25 0	17 6 25 0	_	<u> </u>	 _
Coiled C	Coil Clear an	d Pearl			
40 60 75 100	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		=======================================	=	=

FOR DIMENSIONS SEE OPPOSITE PAGE

Silverlight (patents applied for)

						Dime	nsions	
Watts	Voltages	Cap	Lis Pri		Dia	meter	Le	ngth
			s.	d.	mm.	in.	mm.	in.
s	ingle Coil							
40 60 100 150 200	200, 210, 220, 230, 240, 250, 260	B.C. (B22/25×26) E.S. (E27/25)	1 1 2 3 4	7½ 7½ 1 1 9	60 60 68 80 90	2·36 2·36 2·68 3·15 3·54	110 110 125 160 178	4·33 4·33 4·92 6·30 7·00
C	oiled Coil							ı
40	200 210 220	D.C.	2	0	60	2.36	110	4.33
60	200, 210, 220, 230, 240, 250, 260	B.C. (B22/25×26)	2	0	60	2.36	110	4.33
100] 200		2	41/2	68	2.68	125	4.92

^{*} Purchase Tax must be added to the prices in these columns for lamps up to 250 watts. For the exact amount of purchase tax to be added, see TABLE A on the card insert.

§ Lamps exempt from purchase tax.

† These lamps are vacuum only, all other lamps listed on this page are gasfilled.

GENERAL LIGHTING SERVICE

Clear

Pearl

Silverlight





Colour Sprayed G.L.S. and Sign Lamps

These lamps are ideal for festive illumination at the seaside, in parks and for the exterior or interior decoration of such buildings as halls, cinemas and theatres.

Colour Sprayed G.L.S. lamps have the same caps and dimensions as the standard household G.L.S. lamps,

Ordinary Sign lamps are available internally sprayed thus maintaining a smooth clean surface for a considerable time.

Decoration Sets

Each set comprises twelve lights ready wired on a flexible cord for immediate use on 200/260 volt supplies, and one spare lamp. A sliding berry-bead device on each lampholder provides a simple and convenient method of fixing to twigs, projections etc. Spare Mazda 20-volt Decoration Lamps (Clear or Coloured with M.E.S. cap) fit any 12-light set; price 1/- each plus P.T. 2½d.

Mazda Disneylights

Gaily coloured lamps with well-known Disney characters on the shades. List **Price 25s. 0d.** plus 4s. 8d. P.T.

Mazda Fairy Lights

A string of brightly coloured lights, ideal for festooning public rooms and restaurants as well as private homes. List Price 16s. 11d. plus 3s. 1d. P.T.

Mazda Fairy Candles

These lamps have the appearance of glowing candles, in a variety of gay colours. List Price 37s. 4d. plus 6s. 11d. P.T.

Mazda Snow-Gem Fairy Lights

Each light glistens and sparkles like a flake of snow in the sun. List Price 35s. 0d. plus 6s. 6d. P.T.

1

Colour Sprayed G.L.S. Single Coil

		Voltages and List I	Prices*
Watts	Colours Available		00, 210, 220, , 240, 250, 260 s. d.
15† } { 25† } {	Black, White, Red, Blue, Green, Yellow, Flame, Orange, Pink, Amber	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{ccc} 1 & 8\frac{1}{2} \\ 1 & 8\frac{1}{2} \end{array}$
40 60 75 100 150 200 300§ 500§	Standard Colours White, Red, Blue, Green, Yellow, Flame, Orange, Pink, Amber White Only (wholly or partially sprayed)	$ \begin{cases} 1 & 9\frac{1}{2} \\ 1 & 9\frac{1}{2} \\ 2 & 4 \\ 2 & 4 \\ 3 & 6 \\ 5 & 9 \\ 9 & 9 \\ 12 & 9 \end{cases} $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

^{*} Purchase Tax must be added to the prices in these columns for lamps up to and including 200 watts. For the exact amount of purchase tax to be added see TABLE A on the card insert.

Pygmy Sign Lamps Clear or Colour Sprayed in Standard Colours

	S Voltages 100, 110, 130, 200, 210, 220, 230 240, 250, 260 25, 50 60, 65, 75		Dime	ensions	List	Price*		
Watts	Voltages	Сар	Length mm.	Diam.	Clear	Wholly Sprayed s. d.		
15	200, 210, 220, 230	(E.S.(E27)	56 58	28	1 10	2 0		
15		$ \begin{cases} S.B.C.(B15/24 \times 17) \\ S.E.S.(B14/27 \times 18) \end{cases} $	62 64]	2 5	2 7		

^{*} Purchase Tax see note below.

Sign Lamps Internally Coloured—Red, Green, Yellow, Blue, White or Orange

		Dime	ensions	Volta	ges and List Pri	ces*
Watts	Сар	Length	Diameter	100, 110, 130, 200, 210, 220, 230, 240, 250, 260	200, 210, 220, 230, 240, 250, 260	110
		mm.	mm.	s. d.	s. d.	s. d.
15 {	B.C.(B22/22) E.S.(E27) S.B.C.(B15/24 × 17) S.E.S.(E14/27 × 18)	56 58 62 64	} 28	2 1	_	_
15 {	B.C.(B22/22) E.S.(E27)	90 92	} 44	_	1 10	2 1

^{*} Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added, see TABLE A on the card insert.

LIGHTING FOR FESTIVE OCCASIONS

Colour Sprayed-G.L.S.

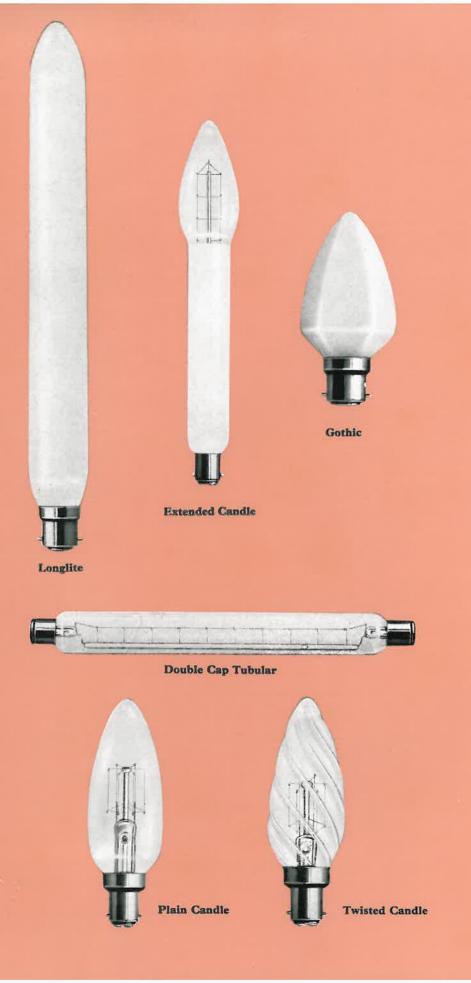
Pygmy Sign

Sign

Decoration Sets

^{† 15}w. and 25w. lamps can be supplied internally sprayed Red, Blue, Green, Yellow, Orange or White. 200-250 volts only. List Price 1s. 9½d. They are also available externally Colour Glazed (the colour becomes an integral part of the glass bulb) also List Price 1s. 9½d.

[§] Lamps exempt from purchase tax.





Candle Lamps

There are many instances in the home, hotels or similar places where the use of small decorative lamps adds charm and 'atmosphere' to the surroundings. These small lamps are frequently used as a pair in alcoves or with various candelabra.

The extended candles have similar applications.

Gothic

These lamps are only supplied sprayed in standard colours, they are suitable for similar uses as the Candle Lamps above.

Tubular

Normally these lamps are used clear for such applications as the lighting of show cases to add sparkle to jewellery or similar goods or with a small reflector to light aquaria. They are also available frosted or colour sprayed for decorating bars, foyers or similar places.

1

Candle and Tubular

			Voltag	es ar	nd Lie	t Pri	ces*				-			
Watts	200	,									_		Dim	ensions
watts	200 210, 2 230, 2 250, 2	40, 60	100, 120,	110, 130	60,	65, '5	2	25, 50			Cap		Diam.	Length
	s.	d.	s.	d.	s.	d.	s.	d					mm.	mm.
	Plai	n (Cand	le										
										B.C.(B22 B.B.C.(B			39 max. 39 max.	119 max. 122 max.
25a	3	9	3	9	4	9	4	9 {	1 5	E.S.(E	14/27 >		39 max.	125 max.
40b	4	3	4	3	5	3	5	3) }	I	E.S.(E27 B.C.(B22	$2/25 \times$	26)	39 max. 47 max.	119 max. 130 max.
								}		.B.C.(B .E.S.(E			47 max. 47 max.	133 max. 136 max.
60b	4	3	4	3	5	9	5	ا (و		S.(E27		10)	47 max.	130 max.
	Twi	sted	l Car	ndle			,							
								_	E	.C.(B22 .B.C.(B	2/25 ×	26)	39 max. 39 max.	119 max. 122 max.
25a	4	3	4	3	5	3	5	3	S	.E.S.(E	14/27 >		39 max.	125 max.
40ъ	5	0	5	0	6	0	6	0) }	F	l.S.(E27 l.C.(B22	$1/25 \times 1$	26)	39 max. 57 max.	119 max. 147 max.
		ĺ						}{	S	.B.C.(B .E.S.(E	15/26 >	< 22)	57 max. 57 max.	150 max. 153 max.
60b	5	0	5	0	6	6	6	6]		.S.(E27		. 10)	57 max.	147 max.
	Exte	ende	ed C	andl	e (C	lear-	—St	em opa	aliz	ed)				_
25	6	6	6	6	-	-	-	- {		.C.(B22 .B.C.(B			35±2 35±2	210±5 208±5
40	7	0	7	0	_	_	-	_	E	.C.(B22	$/21 \times 1$	26)	45 ± 2	240±5
60	7	6	7	6	_	_		_ }	E	.B.C.(B .C.(B22	$/21 \times 1$	26)	45±2 45±2	238±5 240±5
1	Got	hio /	(Sa.	arrad	1 2 4	2400	l doná	l Colou	-	.B.C.(B	A.15d/1	17)	45±2	238±5
25	4	5	4	5 i		-	uarc	-) (.C.(B22	125 × 1	26) [54+1	100:2
40	5	3	5	3	_	_	_	_	S	.B .C.(B	15/26 >	(22)	54 + 1	108±3 111±3
60	5	3	5	3	_	_	_	_] []		.E.S.(E) .S.(E27		(18)	54 ± 1 54 ± 1	115±3 108±3
	Tub	ulaı	r—Si	ingle	Ca ₁	p (Va	acuu	m)						
10†	_		3	9	4	9	4	9 {		.C.(B22 .B.C.(B		17)	25±1	63±3
054						•		\ \ \	B	.C.(B22	/22)	1	$25\pm 1 \\ 25\pm 1$	63±3 86±3
25‡	3	9	3	9	4	9	4	9 {		.B.C.(B. .E.S.(E1			$25\pm 1\ 25\pm 1$	92±3 94+3
	Tub	ulaı	-D	oubl	le Ca	p (V	acu	um)						
30 ¶		9	5	9	_	-		_	Ţ	0.0	(S15s)	5	25±1	221 or 284
60¶	6	0	6	0	_	_			1			\\	25±1	284
	Long							1						
40¶	8	6	8	6	-	-		-	Ĵ	B.C.(B	22/25 × or	(26)	38±1	302 2
60¶	8	6	8	6	-	-		-	5	E.S.	(E27/25	5)	20士1	302±3

Candle Lamps sprayed in standard colours (Section 2) (a) 2d. each extra (b) 3d. each extra.

30w. and 60w. Tubular Lamps are available Frosted, Varnished or Sprayed in Standard Colours. 4d. each extra.

DECORATIVE

Candle

Extended Candle

Gothic

Tubular

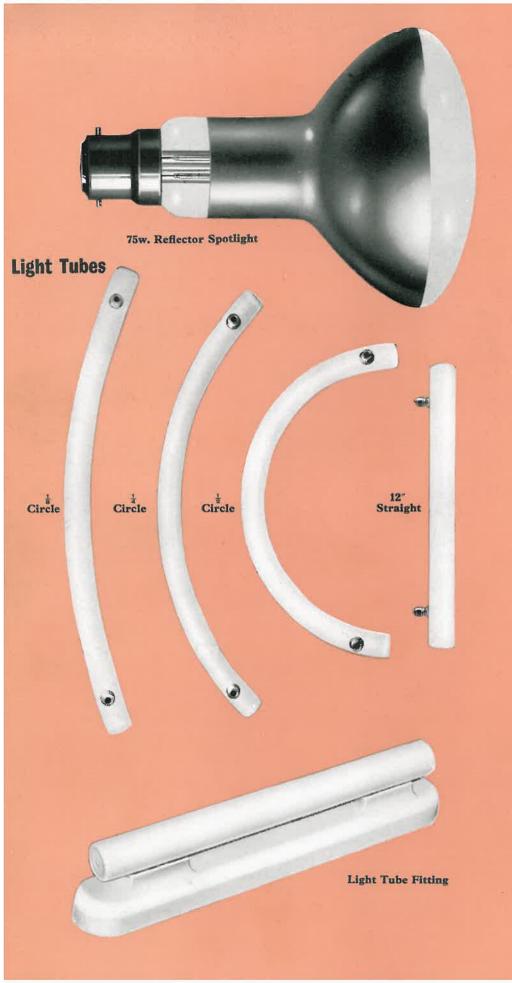
Longlite

^{*} Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE A on the card insert.

[†] In the following voltages only: 50, 60, 65, 75, 110 and 120.

¹ Not 25 volts.

[¶] Not in 100 or 130 volts.





Reflector Lamps

These lamps with the 'built-in reflector' have become a necessity in modern shop and shop window lighting, not only because of their usefulness for emphasizing items for display but also because they blend so well with fluorescent or other forms of general lighting. They are also widely used in workshops and display boards and the 75-watt lamp with B.C. cap has many applications in the home.

The Spotlight lamps are light-diffused frosted. Floodlight lamps have extra frosting and give still greater diffusion of light.

Light Tubes

These lamps provide a bright yet warm light and they are used extensively for decorative purposes in shops and stores—to add charm to bars, aquaria etc., or to provide that necessary extra light for wall mirrors or show cases.

Lampholders for Light Tubes

Special lampholders are required for Light Tubes; they are of excellent workmanship and form an integral part of the lamp. (See illustration below.)

List Price 6s. 8d. per pair

Light Tube Fitting

The illustration on the left shows the popular Light Tube Fitting complete with a 12" Light Tube.

			~ ~ .			
	Pri	ce	P.	Т.	To	tal
	S.	d.	s.	d.	s.	d.
Fitting	7	6	1	3	8	9
Lamp	12	4	2	3	14	7
Lamp and	l Fitti	ing			23	4



Lampholder for Light Tubes

Reflector Spotlights Light-Diffused Frosted

			Dime	ensions		
Watts	Voltages	Сар	Length mm.	Diam. mm.	Lis Pri s.	
75	110, 200, 210, 220, 230, 240, 250	$\left\{\begin{array}{c} E.S.(E27/25) \\ or \\ B.C.(B22/25 \times 26) \end{array}\right\}$	129±3	95±1	7	0
150	110, 200, 210, 220, 230, 240, 250	E.S.(E27/25)	178±4	126±1·5	15	6¶

Reflector Floodlight Pearl

			Dime	ensions		
Watts	Voltages	Сар	Length mm.	Diam. mm.	Lis Pri s.	
75	110, 200, 210, 220, 230, 240, 250	$\left\{\begin{array}{c} E.S.(E27/25) \\ or \\ B.C.(B22/25 \times 26) \end{array}\right\}$	129±3	95±1	7	0
150	110, 200, 210, 220, 230, 240, 250	E.S.(E27/25)	178±4	126±1·5	15	6¶

Light Tubes

			Dime	nsions		List P	rices*	
Watts	Nominal Length	Distance between Round-peg Side Caps	Length	Diam,	200, 21 230, 24 260	0, 250,	100, 120 130 v	and
	in.	mm.	mm.	mm.	s.	d.	s.	d.
Straigl	nt Length	s† (White Opal)						
35	12	229	305	30	12	4	12	4
75	24	534	610	30	22	6	22	6
110	36	839	915	30	30	0	_	-
150	48	11 44	1220	30	35	0	_	-
Curves	1/8, 1/4 or 1/2	Circle† (White Opa	1)		ı			
60	20	{ Circle 416 Circle 393 Circle 309	500‡	30	30	0	30	0

^{*} Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added, see TABLE A on the card insert.

REFLECTOR **LIGHT TUBES**

Reflector **Spotlights**

Reflector **Floodlights**

Light Tubes

^{*}Purchase Tax see note below.
¶ Price for Ring Filament. Grid Filament 18s. 6d. plus purchase tax.

^{*} Purchase Tax see note below.
¶ Price for Ring Filament. Grid Filament 18s. 6d. plus purchase tax.

[†] Colour Spraying Red, Blue, Green, Yellow Orange, Pink or Amber, 10% List extra.

[‡] Centre line of curve.





Infra Red

For many years this form of heating has held its own for industrial stove enamelling or baking of all kinds. A large proportion of manufacturers believe that only by the thorough internal heating that these lamps give, can a first class enamel 'skin' of very good quality be obtained.

The farmer too, has found that Infra Red lamps provide light and adequate warmth to protect the health of his livestock. They are safe to use and require no attention or maintenance.

Radiant heat

This 60-watt lamp is specially designed for use in clinical apparatus employed for heat therapy in hospitals and clinics. (Not Illustrated)

Radiator

These lamps are tubular in shape and they are sprayed a warm flame colour. They are suitable for airing cupboards or similar places where both light and heat are required.



Infra Red with Internal Reflector Parabolic Bulb

			Dimens	sions		
Watts	Voltages	Cap	Length	Diameter	Lis Pri	
			mm.	mm.	s.	d.
150	100/130	E.S.(E27/58 × 38)	154·5 ±4·5	111±1·5	12	6
250	200/250	Čementless	178 ±5·5	126±1·5	15	6

^{*} Purchase Tax see note below.

Infra Red for use with External Reflector Round Bulb

			Dime	nsions		List F	Price*	
Watts	Voltages	Cap	Length	Diameter	Cle	ar	Pe	arl
			mm.	mm.	s.	d.	s.	d.
250	100/130	E.S.(E27/25)	178±5	90±1	7	9	8	3
	l							

^{*} Purchase Tax see note below.

Radiant Heat Round Bulb

	7		Dimens	ions		
Watts	Voltages	Cap	Length	Diameter	Li Pr	st* ice
			mm.	mm.	s.	d.
60	110, 120, 210, 230, 250	B.C.(B22/25 × 26) or E.S.(E27/25)	117·5±3·5	65±1	2	3

^{*} Purchase Tax see note below.

Radiator Tubular Bulb‡

			Dimens	sions		_
Watts	Voltages	Сар	Length	Diameter	Li: Pr	st* ice
			mm.	mm.	s.	d.
250	100/110, 115/125 200/220, 230/250	B.C.(B22/31 × 30) or E.S.(E27/35 × 30)	285±5	64 or 57 ±1	13	6

^{*} Purchase Tax must be added to the prices in these columns unless exemption has been obtained. For the exact amount of purchase tax to be added see TABLE A on the card insert.

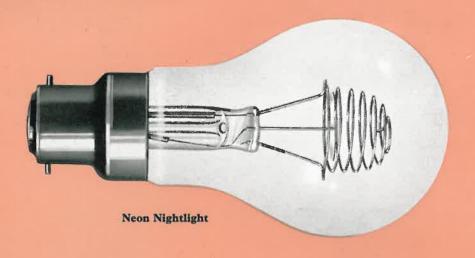
INFRA RED AND RADIATOR

Infra Red

Radiant Heat

Radiator

[‡] Sprayed Flame.

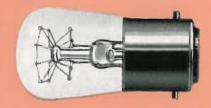




Neon Cruciform



Neon Indicator Type T



Switchboard Indicator







Radio Panel Round Bulb



Neon

These lamps are used where light output is of secondary importance but where a steady bright glow and low power consumption are required.

The night light type is most suitable for sick rooms and children's nurseries; it is quite safe and gives just the required amount of light without being distracting.

The indicator type of neon lamp is for use on domestic appliances such as cookers or refrigerators. It clearly indicates whether a circuit is open or closed.

Switchboard Indicator

These lamps are used on electric control panels and similar installations where visible light output has to be greater than that given by a neon indicator.

Radio Panel

The extensive range of Mazda Radio Panel Lamps has been developed to provide the radio mechanic with the correct replacement lamp for almost any type of receiver.

Neon

		Dimer	sions		•
Watts	Cap	Length	Diameter	List Pri	
		mm.	mm.	s.	d.
Type 'N' Nig	htlight (Voltages 200/220, 230/240	0, 250/260)			
5	$\left. \begin{array}{c} \text{B.C.}(\text{B22/31} \times 30) \\ \text{E.S.}(\text{E27}) \end{array} \right\}$	125 (max.)	61 (max.)	4	6
Type 'Crucif Containin	form' (Voltages 200/220, 230/240, ag Cruciform, Letters or Numbers)	25 0/260.			
5	$\left. \left\{ \begin{array}{c} \text{B.C.}(\text{B22/31} \times 30) \\ \text{E.S.}(\text{E27}) \end{array} \right\}$	104	34 (max.)	7	6
Type 'I' Indi	cator (Voltages 100, 110, 120, 130	, 200/260)			
0.2	S.E.S.(E14/16·5)	30 (max.)	12	4	9
0·5¶	B.C.(B22/22) E.S.(E27)	56 58 }	28	} 4	0
0·3	S.B.C.(B15/24 × 17) S.E.S.(E14/27 × 18)	54 56 }	18	4	U
Current Pol	arity Indicator (Voltages 110/750))		. -	
0.5	Special	79	20	8	9
Double Ende	ed Tubular containing letters (\	oltages 200/260	0)		
515	B,C.	390	42	12	6

[¶] This lamp can be supplied with internal fluorescent coating in Red, Blue, Green or Amber. List Price 6s. 0d. † Purchase Tax not chargeable.

Switchboard Indicator

			nsions	List Price*		
Volts‡	Сар	Length mm.	Diameter mm.	Clear s. d		Colour Sprayed s. d.
100/130 or, 200/260	B.C.(B22/22)	56	28	2 6		2 8

* Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE A on the card insert.

‡ One lamp only is available in each of these voltage ranges, and will be marked 100/130 or 200/260 volts respectively. Lamps are marked 'Switchboard Indicator' and no wattage specified.

Radio Panel

			Dime	Dimensions		a
Volts	Amps.	Cap	Length (max.) mm.	Diameter (max.) mm.	List Price s. d.	
Round Bu	lb					
6 6 6·2‡ 6·3 6·5	0.04 0.06 0.30 0.11 0.30	M.E.S. (E10/13)	24 24 29 24 24 or 29	11 11 15 11 11 or 15	1 1	0 0 7 7 7
Tubular I	Bulb					
6·2‡ 6·3‡ 6·5	0·30 0·15 0·30	M.E.S. (E10/13)	30 30 30	10 10 10		7 7 7

LAMPS FOR **INDICATION**

Neon

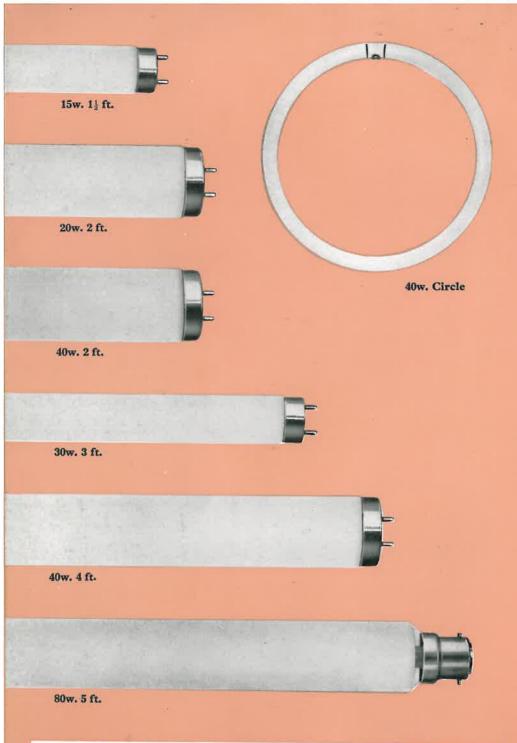
Switchboard Indicator

Radio Panel

Extras for varnishing radio panel lamps. 2d. each extra list or 8/- nett per 100.

‡ Objective Life 10 hours.

|| Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE B on the card insert.



Fluorescent Lamps, Caps and Dimensions

				Dimen	sions	
Watts	Nominal Length	Cap	Overal	Length	Dia	meter
			in.	mm.	in.	mm.
15 20 30 40 40 80	1½ ft. 2 ft. 3 ft. 2 ft. 4 ft. 5 ft.	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	17 \$52 23 \$55 35 \$25 23 \$55 47 \$55 47 \$55 60	451 604 909 604 1214 1524	1 1 1 2 1 1 2 1 1 2 1 2 1 2	26 38 26 38 38 38
50 or 70 125	8 ft. 8 ft.	Raised Contact (S24s/17) B.C.(B22/25 × 26)	93 § 96	2384 2438	1 1½	26 38



The outstanding popularity of Mazda Fluorescent lamps is attributable firstly to the reliability and quality of workmanship associated with all BTH products, and secondly, the improvements in efficiency and performance which are constantly being introduced by the highly skilled team of technicians in BTH laboratories and workshops.

One of the more recent improvements is the change in design of the electrode, resulting in better integration of electrode and its coating so ensuring a consistent long life.

Deluxe Warm White

With this new attractive colour, Mazda have achieved a range of lamps which blend beautifully with tungsten lighting while retaining the fluorescent lamp's high efficiency.

New Warm White

These lamps are an improvement on the popular Warm White lamps, having a much increased output yet retaining the qualities of colour and life of the old design.

Tungsten Ballast Lamps

For use with 40w. 4-ft. Fluorescent Lamps Type MCFA/U

Experience has revealed a need, in certain instances, for mixed fluorescent and tungsten lighting. One way of meeting this demand is to utilize a fluorescent lamp circuit in which the conventional choke is replaced by a special tungsten ballast lamp which not only serves to regulate the current but also emits useful light.

Tungsten Ballast

	Lamp Rating		Overall Dim.		List*	
Mains Volts	Volts	Watts	Diam. mm.	Length mm.	Pri	
200/210 220/230 240 250	115 140 151 162	50 60 65 70 ap:—3	65	117·5	2	6
	0	ap:	-pm b).U. I		- 1

* Purchase Tax must be added to the price of this lamp. For the exact amount of purchase tax to be added see TABLE A on the card insert.

Straight Tubes

	-		List	Price*
Watts	Nominal Length	Colours Available	Ordinary MCF/U	Instant Start MCFA/U
			s. d.	s. d.
Stane	dard Range			
15	$1\frac{1}{2}$ ft. $\left\{\right.$	Natural, New Warm White Deluxe Warm White Daylight, Colour Matching	9 9 9 9 9 9	10 9 10 9 10 9
20	$2 ext{ ft.} $	Natural, New Warm White Deluxe Warm White Daylight, Colour Matching	10 6 10 6 10 6	11 6 11 6 11 6
30	3 ft. {	Natural, New Warm White Deluxe Warm White Daylight, Colour Matching	11 0 11 0 11 0	12 0 12 0 12 0
40	2 ft. {	Natural, New Warm White Deluxe Warm White Daylight, Colour Matching	11 0 11 0 11 0	12 0 12 0 12 0
40	4 ft. {	Natural, New Warm White Deluxe Warm White Daylight, Colour Matching	11 9 11 9 11 9	12 9 12 9 12 9
80	5 ft. <	Natural, New Warm White Deluxe Warm White Daylight, Colour Matching Red, Blue, Green, Yellow	13 0 13 0 13 0 17 6	14 0 14 0 14 0 18 6
8 ft.	Range			
50 or 70 125	8 ft. 8 ft.	Natural Natural or New Warm White	=	30 0 32 6

Mazda Fluorescent Circle

		Dimensions in mm.		
Lamp Watts	Colour	Outside Diameter of Circle	Outside Diameter of Tube	List Price* s. d.
40	Mellow	403±8	32±2	35 0

^{*} Purchase Tax must be added to all lamps listed above except the 125w. 8 ft. lamp marked thus ¶. For the exact amount of purchase tax to be added see TABLE A on the card insert.

Cold Cathode Tubes

Space does not permit the complete listing of the extensive range of Mazda Cold Cathode Tubes but you may be sure that no matter what particular application you have in mind, your nearest BTH office or agent will quickly help you.

These highly efficient and economical lamps are available in standard straight lengths up to $8'\,6''$ and in standard curves, but our lighting engineers should be consulted if there is any doubt as to the practicability of certain sizes or colours to suit any proposed scheme.

Listed below are a few of the large range of colours from which to choose.

3.6.11		
Mellow	Gold	Light Green
Natural	Flame	Light Blue
Daylight	Ivory	Dark Green
New Warm White	Ruby Red	Dark Blue
Colour Matching	Cerise	Sky Blue

FLUORESCENT

Standard

8 ft. Range

Circular

Tungsten Ballast



400w. MA/V or MA/U





45w. SO/H



125w. MBW/U



80w. MB/U







Sodium Vapour

These lamps have been highly praised for streetlighting and certain industrial applications both for their high output and economy. Sodium lighting is not new but the advances made by BTH technicians in recent years have greatly improved the efficiency and performance of the lamps.

'Hard' glass of new formula renders the tubes highly resistant to thermal shock.

'Fernico' alloy seals are invulnerable to the very active chemical attack of sodium vapour.

Double distillation of the metallic sodium together with the special washing technique of the glass parts, greatly improves light output through life.

Mercury Vapour

For streetlighting and many kinds of industrial lighting, the high lumen/watt ratio of these lamps has made them a necessity rather than an advantage.

The MA type have refinements of construction which put them in a class alone. They have Double Helix Electrodes where each electrode is designed to protect its emissive pellet; the mercury filling is micrometer controlled to ensure life and light output and the recent introduction of a new arc tube mount obviates point suspension and gives greatly increased resistance to external vibration.

Sodium Vapour SO/H These lamps should normally be used in a horizontal position but the 45w. and 60w. lamps will operate in any position between vertical (cap up) and horizontal.

			Dimensions			List Price†			
Watts	A.C. Voltages	Cap B.C. Ceramic	Length mm.	Diam.	L.C.L.	Without Jacket s. d.		With Clea Detachabl Jacket s. d.	
45	2		238	50		42	6	<u> </u>	
-10		B22	236	50	140	42	О	64	3
60	100/250	Small)	300	50	170	52	6	77	0
85	100/250	B22	415	50	230	63	0	92	3
140	J ((Medium)	518	65	280	74	6	107	6

[†] Purchase Tax not chargeable.

Mercury Vapour

			I	Dimensions			st†
Watts	A.C. Voltages	Cap	Length mm.	Diam. mm.	L.C.L. mm.	Pr s.	d.
MA/V	(Tubular Bulb, Burnir	ng position Vertical unless	arc contro	lled)			
250 400	100, 110, 120, 130, 200/220, 230/240, 250	G.E.S. (E40/45)	290 330	51 max.	170 190	54 59	0(a) 0(a)
MA/U	(Tubular Bulb, Burni	ng position, Any)	I			ļ	
250 400	200/220, 230/240, 250	G.E.S. (E40/45) {	290 330	51 max. 51 max.	170 190	57 62	6(a) 6(a)
MA/H	(Tubular, Burning pos	sition Horizontal)				<u></u>	
250 400 1000	200/250 200/220, 230/240, 250	G.E.S. (E40/45) S22/19 at one end S22s/21 with locating ring at the other	290 330 476±3	51 max. 51 max. 40 max.	170 190 292	64 71 110	0
MB/U							
80 125 1000	200/220, 230/240, 250 350/450	3-pin B.C. (B22/31×30) G.E.S.(E40/45)	160 178 335	80 90 165 max.	113 128 200	39 45 160	0
MBW/	U (Black Round Bulb,	Ultra Violet, Burning po	sition, Any)			
125 {	200/220, 230/240, 250	3-pin B.C. (B22/31 × 30)	178	90	128	63	0

NOTE: The lamp coding letters indicate the following:

M = Mains Voltage Mercury Discharge.

A = Glass Envelope loaded above 10 watts/cm.

of arc length.

B = Quartz Envelope loaded below 100 watts/cm.

/F = Fluorescent.
 /H = Horizontal Burning.
 /U = Any Position.
 /V = Vertical Cap up.

Mazda Electric Discharge Lamps are designed to operate on standard supply voltages using appropriate lamp auxiliary gear.

SODIUM and **MERCURY VAPOUR**

SO/H

MA/V

MA/U

MA/H

MB/U

MBW/U

[†] Purchase tax not chargeable.
(a) These prices are for Soft Glass Envelope; Hard Glass Envelopes are also available.

of arc length.

W = Wood's Glass—Visible Light absorbing, and blocks short wave U/V radiation.



200w. MBT/U



Mercury Vapour/Fluorescent

The light from the ordinary mercury discharge lamp, because of the small emission of red light, has a distorting effect upon certain colours. It is impossible for instance, to distinguish between reds and various shades of brown. The mercury vapour lamp with fluorescent bulb has been developed to meet requirements where a good degree of colour rendering is important, and further lamp development by BTH has brought about even better colour rendering.

Mercury Vapour/Tungsten

By using the Tungsten filament to limit the current as well as to emit light, a lamp has been developed to provide high output and good colour rendering properties without need for additional lamp auxiliary gear.

Mercury Vapour (Compact Source)

These lamps are used extensively in projection microscopes, film printers, gear profile projectors and similar instruments. They have a very bright, steady and concentrated source of light and they are superior to any other form of lighting for many kinds of projection work.

Mercury Vapour/Fluorescent

			Г	List† Price s. d.			
Watts	A.C. Voltages	Cap	Cap Length Diam, Neck Diam. mm.				
80 125 400 ‡	MBF/U (Round Bulb,	3-pin B.C.(B22/31×30) G.E.S.(E40/45) or 3-pin B.C.(B22/31×30) G.E.S.(E40/45)	160 183 178 286 max.	80 90 90	39 39 39 51 max.	48 59 180	6 0 0

[†] Purchase Tax not chargeable.

Mercury Vapour/Tungsten

1			I	Dimensions	List†
Watts	A.C. Voltages	Сар			L. s. d.
	MBT/U‡ (Round Bul	o, Combined Tungsten an	d Mercury	Vapour)	
160 {	200/210, 220/230, 240/250	E.S.(E27/25) or B.C.(B22/25×26)	} 178	90 { D12 F13	
200 {	200, 210, 220, 230, 240, 250	E.S.(E27/25) or B.C.(B22/25 × 26)	} 178	90 { D12 F13	
250 {	200/210, 220/230, 240/250	E.S.(E27/54×38)	243	110 { D18 F18	
250 {	200/210, 220/230, 240/250	G.E.S.(E40/45)	233	110 { D17	

[†] Purchase Tax not chargeable.

Mercury Vapour Compact Source

	1				Dimensions		List				
Watts	A.C. or D.C. Voltages				Diameter L.C.L. mm.		Price s. d				
ME/D (Concentrated Light Source, Mercury Vapour)											
250 250 250	200/250 {	Glass Envelope Box Type Box Type	3-pin P28/25 3-pin	135±3a 103 max.c 130±3a	50±2 43×34b 64×55	85±1 55·5±0·5 80±1	310 430 430	0 0 0			

[†] Purchase Tax not chargeable.

NOTE: The lamp coding letters indicate the following: $M = Mains\ Voltage\ Mercury\ Discharge.$

A = Glass Envelope loaded above 10 watts/cm.

of arc length. B = Quartz Envelope loaded below 100 watts/cm. /H = Horizontal Burning. /U = Any Position. /V = Vertical cap up.

/F = Fluorescent.

of arc length.

Mazda Electric Discharge Lamps are designed to operate on standard supply voltages using appropriate lamp auxiliary gear. This does not apply to MBT/U lamps.

MERCURY **VAPOUR**

Mercury Vapour/ Fluorescent

Blended Light

Compact Source

MBF/U

MBT/U

ME/D

[†] Tubular Bulb see illustration.

[†] Inside Silica-coated Lamps are also available in this range. D—Discharge Portion, F—Filament Portion.

⁽a) Excluding Pins. (b) With a 5.5 mm. projection on the major axis opposite the L.C.L. (c) From cap flange to end of 'case'.

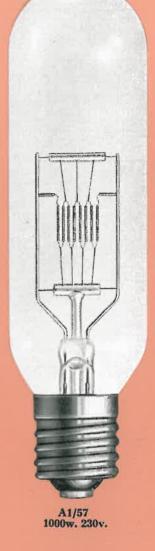
W = Wood's Glass—Visible Light absorbing, and blocks short wave U/V radiation.



A1/8 500w. 110v.



200w. 115v.

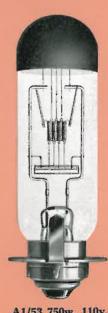




A1/10 900w. 30v.



A1/7 500w. 115v.



A1/53 750w. 110v.



Class A1 Projector

Any lamp used in conjunction with optical apparatus must have, as a first essential, a concentrated light source of extreme brilliance. Such a lamp must also have extreme accuracy of filament construction and mounting, and must be precisely manufactured so that, in effect, it becomes an integral part of the apparatus for which it is designed. Other essential qualities must be constant light output, robustness and complete reliability.

Mazda Projector and other special lamps possess all these qualities. Their production and technical performance are the result of a long experience in the manufacture of lamps for optical equipment of all kinds.

All Mazda Projector Lamps are precision built for accurate focusing and the following are a few details of production which prove this point.

Jig-formed Filament Supports

These improve screen lumen maintenance and preserve precise alignment of filament segments.

Multi-section Leads

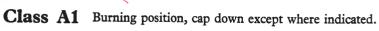
These are of specially chosen material to match expansion characteristics of filament and mount. This helps to prevent filament distortion.

Mechanically Formed Filaments

This process ensures a uniform and concentrated light source, it improves screen illumination initially and improves screen lumen maintenance.

Mechanically Assembled Bridges

These make for accuracy and uniformity in manufacture.



Lamp			Effi-	Objec-	1		Dimens	ions		Li
Ref. No.	Watts	Voltages	L.P.W.	Life Hours	Cap	Length mm.	Diam.	L.C.L. mm.	Filament	Pr
1/ 72 1/ 73 1/ 1 1/ 2 1/ 19	15 25 50 50	20 40 50 100, 110, 115 100, 110, 115	14·5 15·0 18·0 17·0 17·0	100 50S 50S 50S 50S	\$10/20 × 13, Pathe T Piece \$.C.C. (BA.15s/21) \$.C.C. (BA.15s/21) \$.C.C. (BA.15s/21) \$.B.C. (BA.15s/21)	57±3 57±3 57±3 76±3 76±3	15±1 16±1 16±1 25±1 25±1	25 ±0·5 29 ±2 29 ±2 34·5±2 34·5±2	Transverse Transverse Transverse Twin coiled coil. Twin coiled coil.	4 4 7 7 7
A1/ 21 A1/ 21 A1/ 23 A1/ 4 A1/135	100 100 100	12 100, 110, 115 12 12 12 24	23.5 18.5 24.0 24.0 22.0	50S 50S 50S 50S 100	S.C.C. (BA.15s/21) S.C.C. (BA.15s/21) E.S. (E27/25) Prefocus (P28/25) S.B.C. (BA.15d/21)	76±5 76±5 128±7 133±7 75±3	25±1 25±1 25±1 25±1 25±1 25±1	34·5±2 34·5±2 75±5 55·5±0·5 55±2	Twin coiled coil Twin Pillar Twin Pillar Transverse	13 12 11 12
11/ 3 11/121 11/ 4 11/ 4 11/ 23 11/ 23 11/166	1 100	30 100, 110, 115 100, 110, 115 200-10-20-30-40-250 200-10-20-30-40-250 100, 110, 115 210-30-40-250	23·0 18·5 18·5 15·0 15·0 18·5 17·5	50S 50S 50S 50S 50S 50S 50S	Prefocus (P28/25) S.B.C. (BA.15d/21) Prefocus (P28/25) Prefocus (P28/25) E.S. (E27/25) E.S. (E27/25) S.C.C. (BA.15s/21)	133±7 76±3 133±7 133±7 128±7 128±7 76±5	$\begin{array}{c} 25\pm 1 \\ 25\pm 1 \end{array}$	55·5±0·5 34·5±2 55·5±0·5 55·5±0·5 75 ±5 75 ±5 34·5±2	coiled coil Offset Fil. Twin coiled coil. Twin coiled coil. Grid 8-sect. Grid 8-sect. Twin coiled coil. Four Section	13 12 12 12 12 11 11
1/169		210-30-40-250	17.5	50S	S.B.C. (BA.15d/21)	76±5	25±1	34·5±2	coiled coil Four Section coiled coil	13
1/136 1/167 1/168	}	6 115 210-30-40-250 115 210-30-40-250	23·0 19·5 \ 19·5 \ 19·5 \ 19·0 }	50S 50S 50S	E.S. (E27/25)	128±7 76±5 76±5	32±1 25±1 25±1	75 ±5 34·5±0·5 34·5±0·5	Axial single coil Four Section coiled coil Four Section	33 18 18
1/151 1/ 12 1/ 13 1/113		50 50 50 50 50	23·0 23·0 23·0 23·0	50S 50S 50S 50S	S.C.C. (BA.15s/21) E.S. (E27/25) Prefocus (P28/25) Prefocus (P28/25)	87±5 128±7 133±7 133±7	25±1 32±2 32±2 32±2 32±2	34·5±2 75 ±5 55·5±0·5 55·5±0·5	coiled coil Grid 4-sect Grid 4-sect Grid 4-sect Offset Grid 4-sect.	23 23 24 24
1/ 80	200§ 200§	100 100, 115	23·5 23·5	25	3-pin B.C	82±3	32±2	51 ±0·5	Cap-up Burning	26
1/ 26 1/ 27 1/127 1/127 1/ 83 1/ 13	200§ 200§ 200§ 200 200	100, 115 100, 115 100, 110, 115 100, 110, 115 100, 115 110	23·5 23·5 23·5 21·5 21·5	25S 25S 25S 25S 50S 50S	S.B.C. (BA.15d/21) S.C.C. (BA.15s/21) Prefocus S.C.C. (P15s) Prefocus S.B.C. (P15d) S.B.C. (BA.15d/21) Prefocus (P28/25)	87±5 87±5 87±5 87±5 87±5 133±7	25±1 25±1 25±1 25±1 32±1 32±2	34·5±2 34·5±2 31·5±0·5 31·5±0·5 34·5±0·5 55·5±0·5	Twin coiled coil	18 18 19 19 18 19
1/ 85 1/ 14 1/ 15 1/ 5 1/ 5 1/ 5 1/ 5 1/ 5 1/ 14 1/ 14	250 250 250 250 250 250 250 250 250	50 50 50 50 55 100, 110, 115 200-10-20-30-40-250 100, 110, 115 200-10-20-30-40-250	23·5 23·5 23·5 23·5 23·5 23·5 20·0 22·0 20·0	50S 50S 50S 50S 50S 50S 50S 50S 50S	B & H (\$26s/25 BH38) E.S. (E27/25) Prefocus (P28/25) Prefocus (P28/25) Prefocus (P28/25) Prefocus (P28/25) Prefocus (P28/25) E.S. (E27/25) E.S. (E27/25)	$\begin{array}{c} 128 \pm 7 \\ 128 \pm 7 \\ 133 \pm 7 \\ 128 \pm 7 \\ 128 \pm 7 \\ \end{array}$	32±2 32±2 32±2 32±2 32±2 32±2 32±2 32±2	59 ±0.5 75 ±5 55.5±0.5 55.5±0.5 55.5±0.5 55.5±0.5 75.5±0.5 75 ±5 75 ±5	Grid 4-sect. Grid 4-sect. Offset Grid 4-sect. Grid 4-sect. Grid 4-sect. Twin coiled coil. Grid 'M' Form Twin coiled coil. Grid 'M' Form	24 23 24 24 24 23 23 22 22
1/ 38 1/ 36 1/ 37 1/ 33 1/ 6 1/154 1/ 86	300 § 300 § 300 § 300 § 300 § 300 §	100, 115 100, 115 100, 115 100, 115 100, 115 210, 230, 240, 250 100, 110, 115	24·0 24·0 24·0 24·0 24·0 21·0 24·0	25S 25S 50S	Prefocus S.C.C. (P15s) Prefocus S.B.C. (P15d) S.C.C. (BA.15s/21) S.B.C. (BA.15d/21) Prefocus (P28/25) Prefocus (P28/25) B & H (S26s/25 BH46)	100±5 100±5 100±5 100±5 133±7 133±7 128±7	25±1 25±1 25±1 25±1 32±2 32±2 32±2 32±2	31·5±0·5 31·5±0·5 34·5±2 34·5±2 55·5±0·5 55·5±0·5 59 ±0·5	Twin coiled coil	28 26 27 27 28 28 35
1/ 39 1/ 87 1/159	400§ 400§ 400§	100, 110, 115 110, 115 110, 115	24·0 24·0 24·0	25S 25S 25S	Prefocus (P28/25) B & H (S26s/25 BH38) B & H (S26s/25 BH46)	133±7 128±7	32±2 32±2	55.5±0.5 59 ±0.5 59 ±0.5	Bi-plane	35 35
1/ 88	450	15	26.0	100	Special 2-prong	128±7 195	$ \begin{cases} 79 \\ 30 \end{cases} $	136	Bi-plane	35 44
1/ 42	500{	100, 110, 115 200-10-20-30-40 - 250	24.0	50	E.S. (E27/25)	128±7	64±2	75 ±5	Grid 6-sect.	26
1/8	500{	100, 110, 115 200-10-20-30-40-250	24.0	50	Prefocus (P28/25)	133±7	64±2	55·5±0·5	Grid 6-sect.	27
1/46	500§	110	25.0		3-pin B.C. (B22/25×26)	142 max.	38 max.	95	Bi-plane Fil. Offset, Cap-up Burning	37
1/47 1/160 1/170 1/171 1/71 1/162	500§ 500§ 500 500§ 500	110, 115 110, 115 200-10-20-30-40-250 200-10-20-30-40-250 110, 115 200-10-20-30-40-250	25·0 25·0 24·0 24·0 25·0 24·0	25S 25S 25S 25S	B & H (S26s/25 BH38) B & H (S26s/25 BH46) B & H (S26s/25 BH38) B & H(S26s/25 BH46) Prefocus (P28/25) Prefocus (P28/25)	128±7 128±7 128±7 128±7 133±7 133±7	32±2 32±2 32±2 32±2 32±2 32±1	59 ±0.5 59 ±0.5 59 ±0.5 59 ±0.5 55.5±0.5 55.5±0.5	Bi-plane Bi-plane	37 37 37 37 37 37
/ 52	750§	110	27.5	25	3-fin Ring	145±8	38 max.	81	Bi-plane Fil. Offset, Cap-up Burning	43
/ 53 / 9 /163	750 { 750 § 750	100, 110, 115 200-10-20-30-40-250 110, 115 200-10, 20, 30, 40, 250	}27·5	25S	B & H (S26s/25 BH46) Prefocus (P28/25)	128±7 133±7	38±2 38±2	59 ±0.5 55.5±0.5	Bi-plane	42 42
/111 /111 / 10	900 900 900	200-10-20-30-40-250 24 30 30	24·0 29·0 28·0 28·0	50 50 50	Prefocus (P28/25)	133±7 230±10 230±10 235±10	38±2 64±2 64±2 64±2	84 ±0·5 120 ±5 120 ±5 84 ±0·5	Bi-plane	38 38 41
/ 92 1 / 57 1 / 57 1 / 11 1 / 11 1	1000§ 1000 1000 1000 1000	100, 110, 115 200-10-20-30-40-250 100, 110, 115 200-10-20-30-40-250 110, 115 200-10-20-30-40-250	27·5 27·5 25·0 27·5 25·0 27·5	25S 50 50 50 50	B & H (\$26s/25 BH46)	$\begin{array}{c} 175 \\ 230 \pm 10 \\ 230 \pm 10 \\ 235 \pm 10 \\ 235 \pm 10 \\ \end{array}$	38±2 64±2 64±2 64±2 64±2	78 120 ±5 120 ±5 84 ±0.5 84 ±0.5	Bi-plane Grid 6-sect Grid 8-sect Grid 6-sect Grid 8-sect	49 33 33 35 35
/ 91 1 / 58 1 // 164 1	1000§	200-10-20-30-40-250 110, 115 110, 115 200-10-20-30-40-250	27·5 27·5 24·0	25S 25	Prefocus (P28/25)	133±7 128±7 133±7 133±7	38±2 38±2 64±2 64±2	55·5±0·5 59 ±0·5 55·5±0·5 55·5±0·5	Bi-plane Fil Bi-plane Fil	49 49 49 49

[†] Purchase Tax not chargeable.

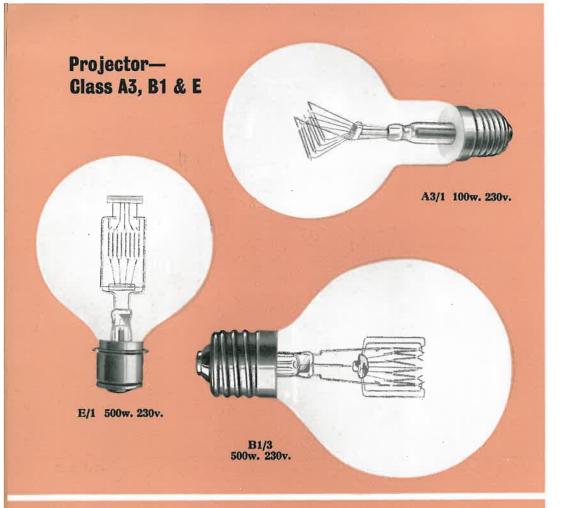
PROJECTOR

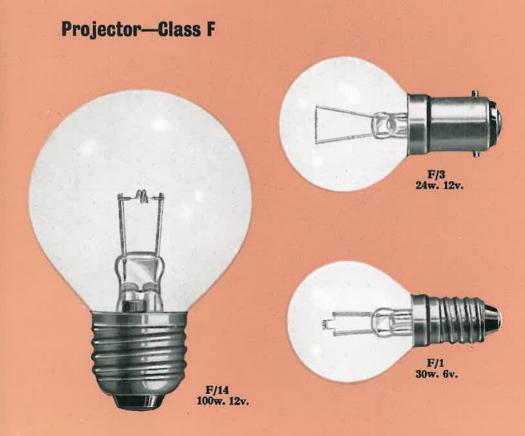
Class A1

NOTE: If ordering by Lamp Reference Number please be sure to state voltage required.

[§] Forced cooling is necessary for these lamps so that no part of the wall of the bulb exceeds a temperature of 500°C.

S. These lamps are black sprayed. Where bulbs are tip black sprayed, the 25 mm. diameter bulb is sprayed to 22.5 ± 2.5 mm. from the centre of the filament to the edge of the black spray; in the case of the 32 and 38 mm. dia. bulbs to 27.5 ± 2.5 mm.







Class A 3

These lamps are used extensively for various stage lighting purposes in theatres and cinemas, and have also a wide application in photographic and film studios. They have many uses where a medium lamp life and light output is required. They are intended for burning in a horizontal position, but slight variations of burning angle will not affect the life.

Class B 1

These lamps are particularly suitable for use with parabolic mirrors and they are employed generally for stage and theatre lighting and the floodlighting of tall buildings or hoardings, etc. They have concentrated bunch filaments of small area and a comparatively long life.

Class E, Epidiascope

Episcope and epidiascope apparatus for the projection and magnification of small objects, lantern slides etc., all use this type of lamp. They are also suitable for spotlight and shop window projectors which have to be rotated through wide angles.

Class F, Micro-projection

Class F lamps have been specially designed to the requirements of microprojection. Being of low voltage, they can be conveniently operated from batteries or from the mains through a suitable resistance or transformer. Microscope illumination, small home cine projectors, sound recording are but a few of the many purposes for which these lamps may be used.

Class A3, B1 and E

,				J	Dimension	ns			
Lamp Ref, No.	Watts	Voltages	Cap	Length	Diam.	L.C.L.	Objective Life	Li Pr	st ice
				mm.	mm.	mm.	Hours	s.	d.
A3 (B	urning po	sition, Horizontal)							
A3/1	100	110, 200, 210, { 220, 230, 240, {	E.S.(E27/25)	115±10	70±2	95 ± 5	300	11	9*
A3/2	250	250 250	E.S.(E27/35 × 30)	160±10	90±2	120±5	300	22	0*
B1 (Bu	rning pos	ition any, except within	45° of cap up)			<u> </u>			
B1/1	100) (E.S.(E27/25)	115±10	80±2	75±5	800	10	0*
B1/2	250	115, 200, 210, 220,	E.S.(E27/25)	125 ± 10	95±2	75±5	800	19	3*
B1/3	500	230, 240, 250	G.E.S.(E40/45)	180±10	130±5	115±5	800	25	3
B1/4	1000		G.E.S.(E40/45)	180±10	130±5	115±5	800	33	0
E (Bur	ning posi	ion any, within 45° of c	ap down)						_
E/1	500	}	Prefocus (P28/25)	135 ± 10	100±5	60±5	100	31	3
E/3	500	}	E.S.(E27/30)	135 ± 10	100±5	85±5	100	30	3

^{*} Purchase Tax see note below.

Class F, Micro-projection Burning position, according to type

Lamp						Dimensio	ons	Objec-	Lis	
Ref. No.	Watts	Voltages	Special Features	Сар	Length mm.	Diam. mm.	L.C.L.	tive Life Hours	Pri	ice d.
F/30	8	4	Transverse Filament	S.E.S. (E14/23 × 15)	62±5	35±2	52±5	100	5	0
F/ 8	12	12	_	S.B.C. (B15d/24 × 17)	57±5	37 max.	40±3	100	4	6
F/24	24	6	_	E.S. (E27/25)	57±5	38±2	47±5	100	4	0
F/10	24	6	_	S.E.S. (E14/23 × 15)	60±5	38±2	50±5	100	4	0
F/ 3	24	12	Transverse Filament	S.B.C. (B15d/24 × 17)	60±5	38±2	44±5	100	4	0
F/10	24	12	_	S.E.S. (E14/23 × 15)	60±5	38±2	50±5	100	4	0
F/25	30	6	_	E.S. (E27/35 × 30)	63±5	35±2	53±5	25	6	6
F/ 1	30	6	Transverse Filament	S.E.S. (E14/23 × 15)	57±5	35±2	47±5	25	6	6
F/41	30	6	_	S.B.C.(B15d/24×17)	58±5	35 ± 2	40±5	25	6	6
F/ 2	48	6	Transverse Filament	S.B.C. (B15d/24×17)	60±5	35±2	40±3	100	8	3
F/52	48	6	Transverse Filament	S.E.S. (E14/27 × 18)	62±3	35±2	49±2	100	8	3
F/ 7	48	8	-	S.E.S. (E14/23 × 15)	60±5	40±3	41±3	100	8	3
F/ 4	48	12	Twin Pillar	S.E.S. (E14/23 × 15)	70±5	50±2	40±3	100	6	0
F/13	48	12	_	E.S. (E27/25)	70±5	50±2	38±5	100	6	0
F/42	48	12		Prefocus (P28/25)	75±5	50±2	18·5 ± 0·5	100	6	0
F/38	48	12	_	S.B.C. (B15d/24×17)	60±5	38±2	40±3	100	6	0
F/27	72	6	Tubular Bulb	E.S. (E27/25)	128±7	32±1	75 ± 3	100	11	9
F/14	100	12	_	E.S. (E27/25)	85±5	60±2	55±5	100	13	3
F/15	108 (18 amp.)	6	Axial	Prefocus (P28/25)	139±7	32±2	65±0·5	50	34	0
F/16	108 (18 amp.)	6	Ribbon Filaments	E.S. (E27/25)	135 ±4	32±2	86±3	50	33	0
F/46	108	6	Horizontal	Prefocus (P28/25)	139±7	32±2	65±0·5	50	34	0
F/47	(18 amp.) 108 (18 amp.)	6	Ribbon Filaments	E.S. (E27/25)	135±4	32±2	86±3	50	33	0

^{*} Purchase Tax must be added to the price of these lamps. For the exact amount of purchase tax to be added, see TABLE A on the card insert.

PROJECTOR

Class A3

Class B1

Class E

Class F

NOTE: If ordering by Lamp Reference Number please be sure to state voltage required.

Projector Class G

High Wattage



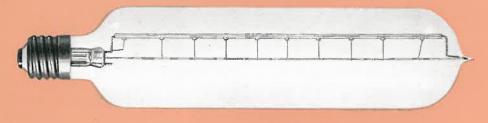
G/14

Theatre Spotlight



G/23

Hospital Operating Theatre



Tubular Floodlight



Class G, Exciter

For reproduction in sound film apparatus a low voltage lamp of high efficiency and robust construction is necessary. The Class G lamps listed here are ideal for this class of work and are manufactured with extreme accuracy and careful attention to such details as the centring of the filament and its luminous intensity so as to comply with the rigid requirements of sound film projection.

Theatre Spotlight

These lamps have a Grid filament of staggered construction. They are used particularly for spotlights in theatres or cinemas but they can be used for similar applications where a suitable reflector and housing will make full use of the compact, bright light source.

Tubular Floodlight

There are many instances where a wideangle flood beam is required, such as in film studios where the Tubular Floodlight is used in conjunction with a trough reflector to give a fan shaped beam.

'Broadside'

These high wattage lamps are also frequently combined with suitable reflectors; they are used quite extensively in certain forms of photo-duplicators.

Hospital Operating Theatre

This double filament lamp has been designed for use in the operating theatre where mains supply faults must not interfere with the surgeon's work; the auxiliary filament gives 100-watt output on a 12-volt emergency supply.

Class G, Exciter Must not be burned cap-up

Lamp					Dimen	sions	Objective	List
Reference Number	Amps.	Voltages	Cap	Length mm.	Diam. mm.	L.C.L. mm.	Life Hours	Price t s. d.
G/18	0.2	7	Prefocus (P15s/19)	57±3	16±1	28·5 ±0·5	100	6 0
G/19	0.75	4	S.C.C. (BA.15s/21)	48±3	15±1	31·75±0·75	50	6 0
G/29	0.75	4	Prefocus (P15s/19)	57±3	16±1	28·5 ±0·5	50	7 0
G/ 4	1.0	6	S.C.C. (BA.15s/17)	40±2	18±1	21·5 ±0·5	100	6 0
G/ 5	1.0	6	Prefocus (P15s/19)	57±3	16±1	28·5 ±0·5	100	6 0
G/16	1.0	27	S.C.C. (BA.15s/21)	75±3	25 ± 1	41 ±1	100	9 0
G/ 6	2.0	8 (EL No. 4)	S.C.C. (BA.15s/21)	75±3	25 ± 1	44 ±1	100	6 0
G/37	2⋅0	8	Prefocus (P15s/19)	75±3	25 ± 1	37·3 ±0·5	100	7 0
G/ 8	4.0	8 (EL No. 2)	S.C.C. (BA.15s/21)	75±3	25 ± 1	44 ±1	100	6 0
G/ 7	4.0	8	Prefocus (P15s/19)	75±3	25 ± 1	37·3 ±0·5	100	7 0
G/36	5⋅0	6 ,,	S.C.C. Pathe Collar	52±2	18±1	27 ±0·5	100	8 6
G/11	5.0	10 (EL No. 5)	S.C.C. (BA.15s/21)	75±3	25±1	41 ±1	100	8 0
G/10	5.0	10	Prefocus (P15s/19)	75±3	25±1	37·3 ±0·5	100	9 0
G/12	5.0	10 (EL No. 6)	S.C.C. (BA.15s/21)	75±3	25 ± 1	44 ±1	100	8 0
G/22	6.0	4	S.C.C. (BA.15s/21)	49±3	25 ± 1	31·5 ±1	100	6 6
G/23	6.5	5	Prefocus (P15s/19)	75±3	25±1	41 ±0.5	50	8 0
G/14	7.5	10 (EL No. 7)	S.C.C. (BA.15s/21)	75±3	25 ± 1	41 ±1	100	8 0
G/13	7.5	10	Prefocus (P15s/19)	75±3	25 ± 1	37·3 ±0·5	100	9 0
G/15	7.5	10 (EL No. 8)	S.C.C. (BA.15s/21)	75±3	25±1	44 ±1	100	8 0

[†] Purchase tax not chargeable.

Theatre Spotlight

				Objective	Li			
Watts	Voltages	Cap	Length mm.	Diameter mm.	L.C.L. mm.	Life Hours	Price s. d.	
500 1000	230 240, 250 210, 230, 240, 250	Prefocus (P28/25) Prefocus (P40/41)	130±10 190±10	95±5 130±5	55·5 ±0·5 84 ±0·5	200 200	28 35	0 6

[†] Purchase Tax not chargeable.

Tubular Floodlight

					Dimer	sions	Objective		
Watts		Voltages	Cap		Length mm.	Diameter mm.	Life Hours	s. d	ice d.
500 1000	}	115, 200-10-20-30-40-250	G.E.S.(E40/45)	{	355±10 390±10	90±2 90±2	1000 1000		6 6

[†] Purchase Tax not chargeable.

'Broadside'

				Dimension	s	Objective	List†	
Watts	Voltages	Сар	Length mm.	Diameter mm.	L.C.L. mm.	Life Hours	Pr s.	ice d.
1000	100, 115, 200	C.E.S.(TANUES)	300	150	225	1000	17	6
1500	210, 220, 230 240, 250, 260	G.E.S.(E40/45)	335	170	250	1000	25	0

Purchase Tax not chargeable.

Hospital Operating Theatre Double Filament

	Watts				Dimensions	01::-	Lis	t†	
Filament		Voltages	Cap	Length mm.	Diameter mm,	L.C.L. mm.	Objective Life Hours	Pri	
Emergency	100	12	Special			135	100)	
Mains	150	210-30-40-250	Screw Contact		121 {	160	1000	28	6

[†] Purchase Tax not chargeable.

PROJECTOR and HIGH WATTAGE

Class G

Theatre Spotlight

Tubular Floodlight

'Broadside'

Hospital Theatre





Every amateur and professional appreciates the importance of using photographic lamps of only the highest possible efficiency, and discerning photographers find that Mazda lamps live up to their unequalled reputation for reliability.

Flood and Enlarger. Photoflood and Photographic Pearl lamps illuminate the subject with evenly distributed brilliance; the 275w. B.C. lamp is fitted with fuses for use in ordinary household sockets. The 500w. Photographic Pearl lamp is available with a pear-shaped bulb or the ever popular round bulb.

The range of enlarger lamps include the Inside Silica Coated lamp and Opal Glass lamp, each of which gives a bright well-diffused light. The high wattage, spot-frosted has a clear bulb with the filament obscured by a small circle of frosting.

Studio Lamps, A comprehensive range of various power lamps from 275w. to 10 kW and all are calibrated for 3250°K. for colour photography although they are also suitable for 'black and white' reproduction.

The 1000-watt, 2000-watt and 5000-watt studio lamps are also available in the higher voltage range of 230, 240 and 250 for ordinary photographic studio work.

Flood and Enlarger

			Dime	nsions								
Watts	Voltages	Cap	Overall Length	Diam,	Objective Life Hours		ist ice					
			mm.	mm.		s.	d.					
Photo-i	Photo-flood (Pearl)											
275	\[\begin{cases} 100/110, 200/210 \\ 220/230, 240/250 \end{cases} \end{cases} \]	$\left\{\begin{array}{l} \text{B.C. } (\text{B22/25} \times 26) \\ \text{E.S. } (\text{E27/25}) \end{array}\right\}$	110	60	2	2	6					
500	\[\{ \begin{align*} 100/110, 200/210 \\ 220/230, 240/250 \end{align*} \} \]	$ \left\{ \begin{array}{l} \text{E.S. } (\text{E27/25}) \\ \text{E.S. } (\text{E27/35} \times 30) \\ \text{B.C. } (\text{B22/25} \times 26) \\ \end{array} \right\} $	160	80	10	6	6					
Photog	Photographic Pearl											
500	110, 210, 230, 250	E.S. (E27/25)	175	100	100	22	0					
Photog	raphic Enlarger (Insid	de Silica-coated)										
150	110, 210, 230, 240, 250	B.C. (B22/25 × 26) E.S. (E27/25)	117-5	65	100	3	9*					
Photog	raphic Enlarger (Opa	l Glass)										
150	110, 210, 230, 240, 250	$\left\{\begin{array}{c} \text{B.C. } (\text{B22/25} \times 26) \\ \text{E.S. } (\text{E27/25}) \end{array}\right\}$	117-5	65	100	4	6*					
Photog	raphic Enlarger (2 in.	Spot Frosted)	·,									
400	110, 210, 230, 250	E.S. (E27/45 × 38)	253	110	100	27	6					

^{*} Purchase Tax must be added to the prices of these lamps. For the exact amount of purchase tax to be added see TABLE A on the card insert.

¶Not available for 100/110 volts.

Studio Lamps

		Dime	nsions	Objective									
Watts	Cap	Overall Length mm,	Diameter mm.	Objective Life Hours	List Price £ s. d.								
115 volt—Co	115 volt—Colour Temp. 3250°K. Designed for colour photography but also suitable for 'black and white' reproduction												
275‡ 500‡	{B.C. (B22/25 × 26) E.S. (E27/25)		110 160	60 80	5 to 8 15		2 6	6					
500	G.E.S. (E40/45)		267	130	25		10	6					
500	Prefocus (P28/25)	٠.	133	64	25	1	7	6					
500 750 }	Med. Bi-post		165 max.	64	25	3	6 17	0					
1000 1500 }	G.E.S. (E40/45)	{	300 335	150 170	50 50	1	17 5	6 0					
2000	Bi-post		232	152.5	100	4	13	6					
5000	Bi-post		335	203	100	15	0	0					
10,000	Bi-post		472	300	100	33	0	0					
230 volt, 240	volt and 250 volt. For	gen	eral, photog	raphic studio	use								
1000	Bi-post		232	152-5	100	3	11	6					
2000	Bi-post		232	152.5	100	4	13	6					
5000	Bi-post		335	203	100	15	0	0					
10,000	Bi-post		472	300	100	33	0	0					

Pearl.

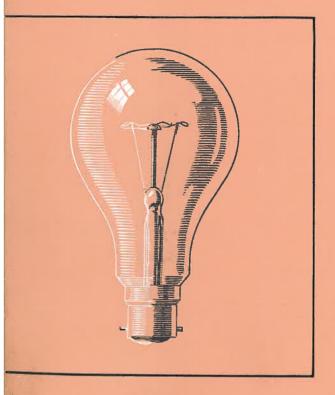
PHOTOGRAPHIC

Photographic Flood

Photographic Enlarger

Studio Lamps

A few reasons why Mazda



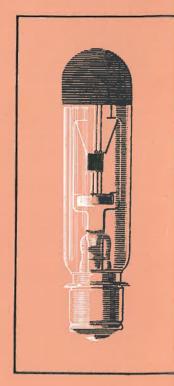
G.L.S. LAMPS

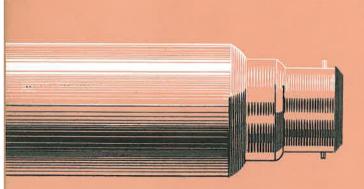
Moulded Necks: Fully insulated caps withstand a twist of well over 25 lb.-in., because the moulded glass necks key into a special heat and damp resisting resin cement.

Fuses: All coiled-coil lamps are fitted with internal cartridge fuses, and they are also built into single coil lamps wherever necessary for safety, or desirable to permit greater efficiency.

'Vitalized' Filaments: Tungstenfilaments, vitalized with silica and alumina at more than twice the temperature of molten steel, will never sag.

Triply Purified Gas: Argon purified three times over means that in the finished lamp the gas filling is less than one part in a million impure.





FLUORESCENT LAMPS

New Fluorescent Coatings: 1954 marked the introduction of still better halophosphate tube coatings, achieving two delightful new colours and many greatly improved efficiencies.

New BTH Cathodes: Enlarged primary coils enable much more emissive oxide to be packed solidly into each thoriated tungsten coiled-coil cathode, resulting in even greater reliability, strength and uniformity.

Precision Built: Production is closely regulated at each stage. The weight of fluorescent coating, for instance, is exact to 1/140th oz. per foot of tube, ensuring maximum light output.

BTH Auxiliaries: A fluorescent lamp and its control gear form a carefully balanced circuit; the performance of each affects the others. Mazda Fluorescent Lamps are backed by BTH Lamp Auxiliary Gear—the best in the world.

Pamps stay brighter longer

PROJECTOR LAMPS

Threaded Contact Plug: Electrical contact between filament and lead is by a special threaded plug, giving greater durability both at the filament juncture and at the lead-in wire weld.

Mechanically Formed Filaments: A more concentrated light source and a more uniform life performance results from machine-forming the filaments. At the same time, jig-formed filament supports ensure precise alignment of the filament segments.

Temperature Resistant Alloys: Special alloys with a low coefficient of expansion increase the strength of welds. Expansion characteristics of the filament and its mount are carefully matched to prevent distortion.

Precision-built: Mazda Projector Lamps provide a concentrated and constant source of brilliant light. They are robustly made to give the longest and most reliable service possible, and are precision-built to the finest tolerances for accurate focusing.



MERCURY VAPOUR

(Type MA)

New Arc-tube Mounts: Type MA Lamps up to 400w. rating incorporate a new BTH arc-tube mount which eliminates 'point suspension'. This gives greatly increased resistance to external vibrations and so further extends the life of the lamp.

Double-helix Electrodes: Double-helix electrodes, each enclosing a thoriated emissive pellet, ensure rapid starting and deter the lamp from darkening through life.

Accurate Filling: Exactly the right amount of pure mercury must be introduced into the arc-tube to obtain maximum light output in each voltage range. BTH control this with micrometer precision.

New Glasses: Glasses used for making the tubes and seals of Mazda Mercury Lamps are now 'harder' than ever before. For example, a new one kilowatt mercury lamp is available for horizontal operation with no need for a magnetic arc deflector to protect the arc-tube.

SODIUM VAPOUR

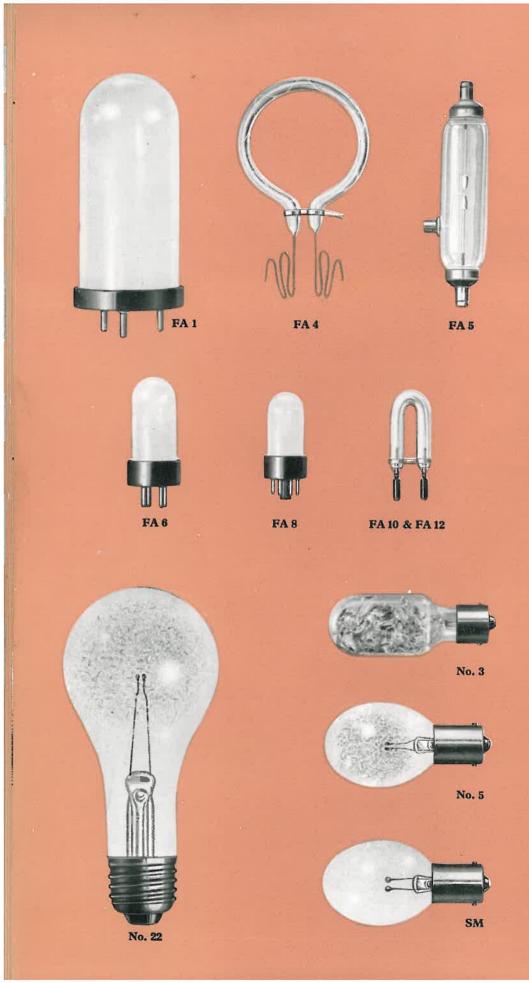


New 'Hard' Glass: BTH have developed a new glass highly resistant to the corrosive action of hot sodium vapour. Because of this, Mazda Sodium Lamps remain virtually unstained throughout life.

'Fernico' Seals: 'Fernico' alloy seals are invulnerable to sodium corrosion; concomitant annealing and glassworking techniques ensure a complete metal-toglass union.

Pure Metallic Sodium: BTH distil their own metallic sodium. After two consecutive distillations, the pure sodium metal is ready for the lamp production line.

Blended Gas Filling: After a long exhaust in which every impurity is pumped away, the lamps are filled with a spectroscopically pure blending of neon and argon. Sodium metal is then measured in and the lamp sealed-off





Xenon Flash Tubes. Electronic Flash has been for a long time, the most suitable and efficient form of flashlight photography for the professional and scientific photographer. Now, with easily portable and comparatively inexpensive equipment, not only has its use become more widespread, but the amateur finds it within his capabilities.

Type FA 1. A high-power flash tube for studio use. Provision is made to incorporate a modelling lamp within the arc tube jacket.

Type FA 2. A flash tube of high output, used and specially suitable for studio and professional units.

Type FA 2S. Designed specially for stroboscopic applications giving very stable operation with a high efficiency over a wide range of frequency.

Type FA 4. A circular type flash tube suitable for mounting round the camera lens or objective. For specialized photography such as in photographing deep cavities, etc.

Type FA 5. A compact source flash tube which may also be operated to give a steady source of light to enable an optical system to be adjusted. The tube will operate from a condenser discharge or alternatively it may be pulsed direct from the supply mains. It has many scientific applications.

Type FA 6. One of the most popular flash tubes; it is widely used in many of the portable flash units today, and is suitable for the amateur.

Type FA 7. This tube gives efficient light output over the range of 100-200 watt seconds.

Type FA 7S. A lamp for stroboscopic applications.

Type FA 8. A miniature flash tube designed for low-voltage operation. It weighs less than 0.7 oz.

Type FA 9. A tube suitable for the larger portable flash units. It has a high efficiency when operated at 100-200 watt-seconds.

Types FA 10 and FA 12. Designed especially for the amateur, these tubes have low operating voltage.

Photoflash Lamps. Popular with amateur and professional alike, this range of lamps meet the requirements of every photoflash user, and with the introduction of the No. 3 lamp, the 'Box Camera' enthusiast has been included.

Xenon Electronic Flash Tubes

	Dimer	ns. mm.	Max. Rating	Approx. Minimum		rating tage	*Rate of Flash at	Fla Dura (micro	tion	Capacitance			Lis	
No.	Length Excl'ng Pins	Diam. of Glass	watts × secs.	Trigger Voltage kV	Max.	Min.	Maximum Dissipation	Above	Above	in µf at normal operating volts	Base	(N	o P	.T.)
FA 1	150±7	64±4	1000	8	2700	2000	1 in 10 sec.	1250	600	320	3-pin Special	6	0	0
FA 2	90±5	46±2	500	8	2700	2000	1 in 10 sec.	870	300	160	3-pin 5-amp.	5	0	0
FA 2s	90±5	46±2	_	8	2500	1500	300 per sec.	_	_	_	3-pin 5-amp.	5	0	0
FA 4		, inside f circle	300	3	2700	2000	1 in 10 sec.	440	180	96	Flexible Leads	3	18	6
FA 5	148±4 (overall)	32 max.	150	10	2000	1000	1 in 10 sec.	250	65	-	0·3954 Ferrules	10	10	0
FA 6	70±2	31 ±2	100	3	1100	500	1 in 10 sec.	410†	180†	200	UX 4-pin	4	10	0
FA 7	80±2	31 ±2	100-200	3	2700	2000	1 in 10 sec.	800	290	64	UX 4-pin	5	0	0
FA 7s	80±2	31±2	_	3	2500	1500	300 per sec.	_	_	_	UX 4-pin	5	0	0
FA 8	55±2	25±1	75	4.5	500	250	1 in 10 sec.	800†	270†	60	Internat. Octal	4	0	0
FA 9	80±2	31±2	200	3⋅5	1100	500	1 in 10 sec.	2000†	770†	400	UX 4-pin	5	0	0
FA10	50±2 (overall)	_	50	3⋅5	270	200	1 in 10 sec.	2450†	930†	1375	2-pin 2-amp.	2	10	0
FA12	50±2 (overall)	_	50	3.5	200	145	1 in 10 sec.	3200†	1200†	3100	2-pin 2-amp.	2	10	0

^{*} Tested to 5000 flashes for single flash operation; stroboscopic tubes have been tested to 100 hours.

ERRATUM

SECTION 14: FA 8 — Capacitance should read 600 and not 60 as shown.

Photoflash Lamps §

Туре	Speed Člass	Total Lumen Sec.	Colour Temp. °K	Peak Lumens	Time to Peak millisec.	Duration at ½ Peak millisec.	Cap	Dimer Length mm.	Diam.	List Pric (No P.	E (T.)
No. 3	F	5,500	3,800	1,500,000	12	4	S.C.C.	64	25	1	0
No. 5 No. 5B S.M. No. 22 No. 22B	M M F M M	18,000 8,000 4,500 75,000 30,000	3,800 6,000 3,300 3,800 6,000	1,500,000 600,000 850,000 5,000,000 2,000,000	21 21 8 25 25	12 12 4·5 14 14	(BA.15s/12) S.C.C. (BA.15s/21) { E.S. E.S.	64 64 64 116 116	34 34 34 60 60	1	1 3 3 8 0

[§] These lamps are designed to operate from 3 to 30 volts dry battery. Two fresh, dry cells in series will flash many lamps (B) Blue-lacquered for colour photography.

ı,

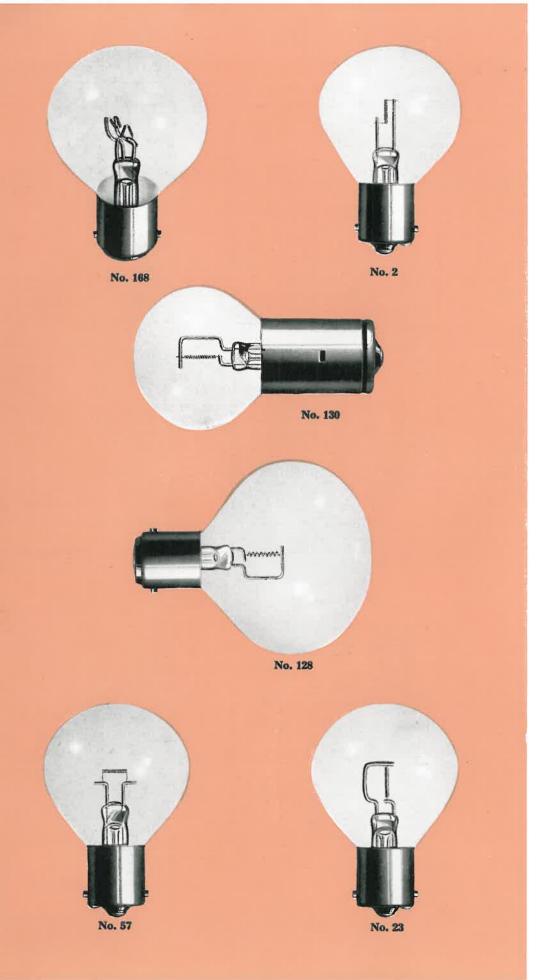
PHOTOGRAPHIC

Electronic Flash (Xenon)

Photoflash

[†] With electrolytic capacitors.

The Mazda No. 3 is made in Germany.





The filaments for Mazda car headlamp bulbs are made from carefully annealed tungsten and in many cases they are pressed to the filament leads—heat cannot weaken the joint—and they are accurately positioned to within $\pm~0.04$ ".

A special coating to the filament or filament leads helps to keep the bulb clear and bright. These and many more technical and scientific processes too numerous to mention here, ensure that the complete, cartoned Mazda car bulb is precision built and reliable.

Ordinary Single Filament Headlamp Bulbs

		21			Dimer	nsions	List*
Lamp No.	Volts	Watts	Filament	Сар	Length mm.	Diam. mm.	Price s. d.
605 106 109 108 374‡ 607 130 75 111 608§ 675 676‡ 1 4 2 612 57 375‡ 5 615§ 615§ 618 23 27 96 618 90 26 87 621 123 622 623 140 624 128 127 131	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 12 12 12 12 12 12 12 12 12 12 12 12 12	24 24 24 24 36 36 36 36 36 36 36 36 36 36 36 36 36	Axial Axial Axial Axial Axial Axial Axial Axial Transverse Axial Axial(a)	3-pin B.C.(BA.21s 3-pin) S.C.C.(BA.15s/17) S.B.C.(BA.15s/17) S.B.C.(BA.15s/17) S.C.C.(BA.15s/17) S.C.C.(BA.15s/17) 3-pin B.C.(BA.21s 3-pin) Bosch Single Contact (BA.20s) S.C.C.(BA.15s/17) S.B.C.(BA.15s/17) S.B.C.(BA.15s/17) S.B.C.(BA.15s/17) S.C.C.(BA.15s/17) S.C.C.(BA.15s/17) S.B.C.(BA.15s/17) S.C.C.(BA.15s/17) S.C.C.(BA.15s/17) S.C.C.(BA.15s/17) S.C.C.(BA.15s/17) S.C.C.(BA.15s/17) S.C.C.(BA.15s/17) S.C.C.(BA.15s/17) S.C.C.(BA.15s/17) S.B.C.(BA.15s/17)	616 556 556 556 556 556 556 556 556 556	38 38 38 38 38 38 38 38 38 38	967900 0 910036676969703601 3 967 9 8888333999 0

^{*} Purchase Tax see note below. § Special Light Centre Length.

Ordinary Double Filament Headlamp Bulbs

					Dimer	nsions	Li	st*
Lamp No.	Volts	Watts	Filament	Cap	Length mm.	Diam. mm.	Price s. d.	
180 168	6	18 & 18 24 & 24	Transverse Inverted Vee	S.B.C.(BA.15d/17) S.B.C.(BA.15d/17)	56 56	38 38	4 3	6
183	6	24 & 24	Inverted Vee	Bosch Double Contact (BA.20d)	67	38	3	9
169	6	30 & 30	Inverted Vee	S.B.C.(BA.15d/17)	56	38	3	6
628 170	6	30 & 30 36 & 36	Inverted Vee Transverse	3-pin B.C.(BA.21d 3-pin) S.B.C.(BA.15d/17)	61 56	38 38	3	9
171	12	36 & 36	Transverse	S.B.C.(BA.15d/17)	56	38	3	6
630	12	36 & 36	Transverse	3-pin B.C.(BA.21d 3-pin)	61	38	3	9
376‡ 633	12 12	36 & 36 36 & 36	Transverse Transverse	S.B.C.(BA.15d/17) A.S.B.C.(BA.15d/21)	56 59	38 38	3	6 9 9 6
182	12	36 & 36	Transverse	Bosch Double Contact (BA.20d)	67	38	3	9
194	24	36 & 36	Transverse(a)	S.B.C.(BA.15d/17)	56	38	5	0
671	24	44 & 38	Transverse	S.B.C.(BA.15d/17)	56	38	6	3

^{*} Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE B on the card insert.

‡ Cadmium Yellow Bulb. (a) Coiled Coil.

HEADLAMP BULBS

for Motor Cars, **Motor Cycles and Commercial Vehicles**

Ordinary Single Filament

Ordinary Double Filament

[‡] Cadmium Yellow Bulb. (a) Coiled Coil.





No. 354



No. 162



No. 359



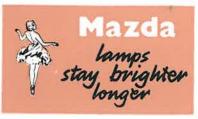
No. 632



No. 172



No. 323



The points of technical interest given in the previous section on Ordinary Headlamps apply equally to the Prefocus Headlamps listed opposite.

Among the more popular lamps the 12-volt 42/36-watt double filament lamp No. 354 is generally used for private cars and has the advantage that it is equally suitable for nearside or offside mounting. The single filament lamp No. 162 which is a 12-volt 36-watt lamp, is used for offside lamps in conjunction with double filament lamps on the nearside. Other lamps listed are for certain specific models of cars, motor cycles or commercial vehicles and it is advisable to consult agents or garages before purchasing a different type of lamp.

British Prefocus Single Filament Headlamp Bulbs

(Caps:-Single Contact P22s/21, Double Contact P22d/21)

					Dime	nsions	Lis	*
Lamp No.	Volts	Watts	Filament	Contact	Length mm.	Diam. mm.	Pri	
172 173 162 325† 326† 323 600‡ 185 685‡ 331†	6 6 12 12 12 12 12 12 12 12 12 12	36 36 36 38 38 48 48 48	Axial Single Coil Trans. Single Coil Axial Single or Coiled Coil Trans. Single Coil Trans. Single Coil Trans. Single or Coiled Coil Trans. Single or Coiled Coil Axial Coiled Coil	Single Single Single Single Double Single Single Single Single Double	62 max.	28 ±1 <	3 3 3 3 4 6 4 6 5	9 9 9 9 9 0 0
330† 601†‡	24 24	44 44	Trans. Coiled Coil Trans. Coiled Coil	Double Double			5 6	0 3

British Prefocus Double Filament Headlamp Bulbs

(Caps:—Double Contact P22d/21) (Dimensions—Length 62 mm. max. Diam. 28 \pm 1 mm.)

Lamp	Volts	Watts	Filament	Contact	Dipping A	rangements	List* Price
No.			(Main on the axis)	<u> </u>	Dip	Drive	s. d.
311 166 312 373 602‡ 356 408(f) 354 355 604‡ 358† 302 ¶ 404§ 359†	6 6 6 6 6 6 6.4 12 12 12 12 12 12 12 12 12 12 12	18 & 18 24 & 24 30 & 24 30 & 24 45 & 36 42 & 36 42 & 36 42 & 36 42 & 36 44 & 38 48 & 48 60 & 36 44 & 38	Single Coil	Double	Vertical Vertical Vertical Left Vertical Left Ceft Left Right Left Right Left Left Left Left Left Left	Either Either Either R/Hand Either R/Hand L/Hand L/Hand L/Hand R/Hand R/Hand R/Hand	545566993000333960 566666666666666666666666666666666666

American Type Prefocus Headlamp Bulbs

					Dime	T 2	-48	
Lamp No.	Volts	Watts	Filament	Cap	Length mm.	Diameter mm.	List* Price s. d.	
619 629 632	12 6 12	60 30 & 30 36 & 36	Transverse Inverted Vee Transverse	P15s/19 P15d/19 P15d/19	65 58 58	50 38 38	6 4 4	0 0 0

^{*} Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE B on the card insert.

HEADLAMP BULBS

for

Motor Cars, **Motor Cycles and Commercial Vehicles**

British **Prefocus** Single Filament

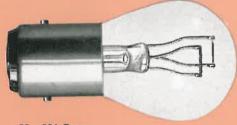
British **Prefocus Double Filament**

American Type Prefocus

^{*} Purchase Tax see note below. † For Commercial Vehicles only. ‡ Cadmium Yellow Bulb.

^{*} Purchase Tax see note below. † For Commercial Vehicles only. ‡ Cadmium Yellow Bulb. ¶ Both filaments are offset. § 38 mm. dia. bulb (f) Fog Lamp and Turn Signal Indicator.









No. 204 Side & Tail



No. 256 Festoon



No. 993 Indicator



No. 642 Indicator



No. 987 Indicator



FEW doubt that the modern style of direction indication by flashing lamps is the most sure and the most efficient, but the reliability of the system is dependent largely on the quality of the lamps. Mazda Stop and Tail lamps are world-famous for their efficiency and reliability and the same high standard of workmanship has gone into the construction of certain Stop Lamps for Flashing Indication applications.

The lamps recommended are all for 12-volt systems; they are lamps Nos. 380 and 381 which have two independent filaments, one rated for 21 watts and the other for 6 watts, also the single filament lamp with a rating of 21 watts.

The double filament lamps may be used for both flashing indicator and 'stop' indication by special circuit arrangement, the filament can be used for flashing or for a steady light as required.

All Mazda car bulbs have been designed to withstand vibrations of much greater magnitude than will be found ir normal driving, so that such lamps as Side and Tail will retain their efficiency even after fairly rough treatment.

Festoon lamps are suitable for many old and new makes of car for roof light or trafficator.

Stop and Stop/Tail Lamps Bulb Diam.—25 mm. Filament—Transverse

Lamp No.	Volts	Watts	Сар	Length mm.	List* Price s. d.
383 384 334 380 381 317	6(d)(e) 6(d) 24(d) 12(d)(f) 12(d)(f) 6(s)	6 & 18 6 & 18 6 & 24 21 & 6 21 & 6	S.B.C. (BA.15d/17) S.B.C. Index (BA.15d/19)† S.B.C. Index (BA.15d/19)† S.B.C. Index (BA.15d/19)† S.B.C. (BA.15d/17) A.S.C.C. (BA.15s/21)	45·5 47 47 47 47 45·5 49	3 6 3 9 4 6 3 9 3 6 3 9
382 335 333	12(s)(f) 12(s) 24(s)	21 21 24	A.S.C.C. (BA.15s/21) A.S.B.C. (BA. 15d/21) A.S.B.C. (BA.15d/21)	49 49 49	3 6 3 7 4 6

*Purchase Tax see note below.
(d) Double Filament (e) Inverted Vee auxiliary Filament no extra (f) Flashing Indicator also.
† Index pins. (s) Single Filament.

Side and Tail Lamps—Bow Filament

				Dime	nsions		st*
Lamp No.		Watts	atts Cap		Diameter mm.	Pı s.	d.
200	6	3	S.C.C. (BA.15s/17)	32.5	18	1	4
204	6	3	S.B.C. (BA.15d/17)	32.5	18	1	5
988	6	3	M.C.C. (BA.9s/14)	28	15	1	6
951	6	6	M.C.C.(BA.9s/14)	28	15	1	7
205	6	6	S.C.C. (BA.15s/17)	32.5	18	1	7
206	6	6	S.B.C. (BA.15d/17)	32.5	18	1	8
207	12	6	S.C.C. (BA.15s/17)	32.5	18	1	4
209	12	6	S.B.C. (BA.15d/17)	32.5	18	1	5
222	12	4	M.C.C. (BA.9s/14)	28	15	1	7
989	12	6	M.C.C. (BA.9s/14)	28	15	1	7
149¶	24	6	S.C.C. (BA.15s/17)	32.5	18	1	6 (c)
150 ¶	24	6	S.B.C. (BA.15d/17)	32.5	18	1	6 (c)
638¶	24	6	B.C. (B22/22 × 16)	37	18	1	6 (c)

^{*} Purchase Tax see note below. (c) Vee Filament no extra. ¶ With Supported Filament.

Indicator Lamps

				Dime	nsions		st*
Lamp No.	Volts	Watts	Сар	Length mm.	Diameter mm.	Pr s.	ice d.
990	6	3	M.E.S. (E10/13)	23	11	1	3
641	6	3	M.C.C. (BA.9s/14)	23.5	11	1	6
981	6	3	M.E.S. (E10/13)	27.5	15	1	3
642	6	3	M.C.C. (BA.9s/14)	28	15	1	6
950	6	6	M.E.S.(E10/13)	28	15	1	3
987	12	2.2	M.E.S. (E10/13)	23	11	1	3
643	12	2.2	M.C.C. (BA.9s/14)	23.5	11	1	6
986	12	2.2	M.E.S. (E10/13)	27.5	15	1	3
645	12	2.2	M.C.C. (BA.9s/14)	28	15	1	6
985 ¶	16	3	M.E.S. (E10/13)	27.5	15	2	3
647¶	16	3	M.C.C. (BA.9s/14)	28	15	2	6
993¶	24	2.8	M.E.S. (E10/13)	27.5	15	1	8
651 ¶	24	2.8	M.C.C. (BA.9s/14)	28	15	1	11

^{*} Purchase Tax see note below. ¶ With Supported Filament.

Festoon Lamps

				Dime	nsions	Li	st*
Lamp No.	Volts	Watts	Cap	Length mm.	Diameter mm.	Pr s.	d.
255 253 256	6 6 12	3 6 3	S7/8 S8·5/8 S7/8	35·5 38 35·5	7·5 11 7·5	2 2 2	3 7 3
254 653 654¶ 260	12 24 24 24 24	6 6 6	\$8.5/8 \$8.5/8 \$8.5/8 \$8.5/8	38 38 38 44	11 11 11 11	2 2 4 3	7 6 6 0

ANCILLARY CAR BULBS

for Motor Cars. **Motor Cycles and Commercial Vehicles**

Stop and Stop/Tail

Side and Tail

Indicator

Festoon

With Supported Filament.

* Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE B on the card insert.



Cycle Headlamp, Granulated 6 volt, 0.45 amp.



Speedometer 6.5 volt, 0.3 amp.



Cycle Tail 6 volt, 0.04 amp.



Cycle Tail 3·5 volt, 0·15 amp.



Ordinary Flashlight 2.5 volt, 0.2 amp.



Prefocus Flashlight 2.5 volt, 0.2 amp.



Lens End Flashlight 2.2 volt, 0.25 amp.



Cycle Dynamo

Among the lamps listed on the opposite page will be found one to suit every type of cycle lighting equipment in use to-day. A combination of correctly rated lamps front and rear will give a well balanced and reliable lighting system.

BTH technicians have developed the alternative of granulated finish for all 15 mm. Headlamps. This process provides the lamp with greater light-diffusion properties.

Lens End Flashlights

This lamp has been designed to give a concentrated 'circle' of light for small flashlamps. Used in such electric torches as the 'fountain pen' type, they make full use of the small current available.

Cycle Dynamo Headlamps

Volts	Amps.	Finish	Сар	Diameter mm.	List Price*
6 6 6 6 6 6 6 6	0·2 0·2 0·3 0·3 0·45 0·45 0·5 0·5	Clear Granulated Clear Granulated Clear Granulated Clear Granulated Clear Granulated Clear Clear	M.E.S. (E10/13) S.C.C. (BA.15s/17)	15 15 15 15 15 15 15 15 15 15 18	8 8 8 8 8 8 8 1 4 1

^{*} Purchase Tax see note below.
Granulated bulbs give better light diffusion.

Cycle Dynamo Tail Lamps

Volts	Amps.	Finish	Cap	Diameter mm.	List Price*
1·5 3·5 6·0 6·0	0·15 0·15 0·04 0·10	Clear	M.E.S.(E10/13) M.C.C.(BA.9s/14) M.E.S.(E10/13) M.E.S.(E10/13)	15 11 or 15 11 or 15 11	8 8 8

^{*} Purchase Tax see note below.

Speedometer

Volts	Amps.	Finish	Сар	Diameter mm.	List Price*
6.5	0.3	Clear	M.C.C.(BA.9s/14)	11	7

^{*} Purchase Tax see note below.

Flashlight Lamps

Volts	Amps.	Finish	Cap	Diameter mm.	List Price*
C	Ordinary F	lashlight			
1.5 2.0 2.5 2.5 3.5 3.5 4.0 4.5 5.0	0·11 0·6 0·2 0·3 0·15 0·3 0·3 0·15	≻ Clear	M.E.S. (E10/13)	15 15 11 11 11 11 11 15	8 4 4 4 4 4 8
L	ens End F	lashlight			
2.2	0.25	Clear	M.E.S.(E10/13)	9·5 max.	7
P	refocus Fl	ashlight			
2·5 2·5 3·5	0·2 0·3 0·3	Clear	Special Prefocus {	11 11 11	1 0 1 0 1 0

^{*} Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE B on the card insert.

CYCLE DYNAMO & FLASHLIGHT LAMPS

Cycle Dynamo Headlamps

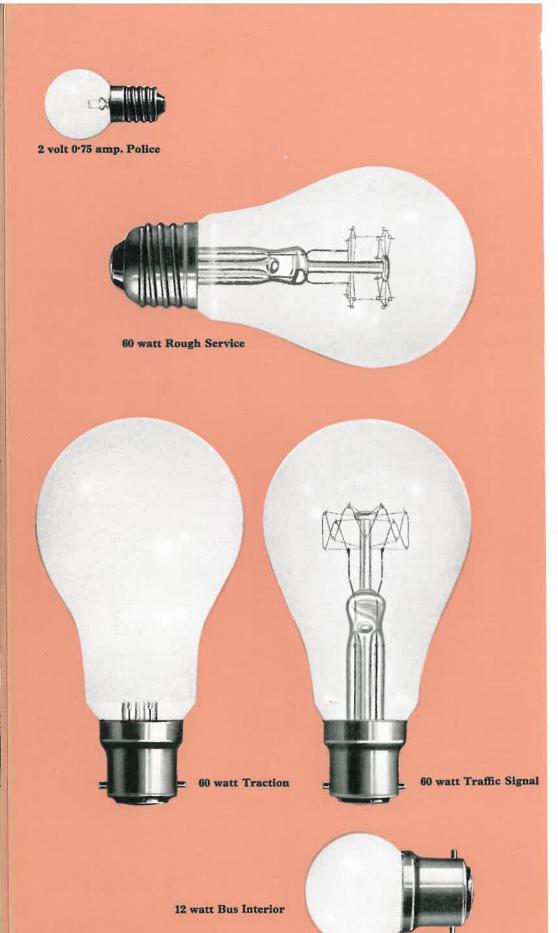
Cycle Dynamo Tail Lamps

Speedometer

Flashlight

Lens End Flashlight

Prefocus Flashlight





Bus Interior

Pearled to counter glare to passengers, bus interior lamps are available in standard voltages with two varieties of cap.

Traffic Signal

Suitable for red, amber and green signals these Mazda lamps are available in two types with different Light Centre Lengths to fit standard types of traffic control equipment.

Traction

Produced for wiring in series in tubetrains, tramcars and other public service transport, Mazda traction lamps have an accurately rated amperage to give maximum efficiency.

Rough Service

Designed for circumstances in which a high wattage is unnecessary but where they will be liable to undergo severe vibration or continual movement (as on machinery or high-voltage handlamps, etc.), these lamps are subjected to rigorous batch testing for strength of construction and long life.

Police

These lamps are produced in accordance with the strict standards demanded by the Metropolitan Police for their handlamps. They are vacuum lamps and they can be supplied with alternative types of cap.

Vacuum Police Lamps

			Dime	nsions	Li	st ·lce
Volts	Amps.	Сар	Length mm.	Diameter mm.	Pr s.	d.
2	0.75	Wootton B9·5s/11	28	18	2	6
2	0.75	M.E.S.(E10/13)	27.5	15	2	6

Purchase Tax must be added to the prices in this column. For the exact amount of purchase tax to be added see TABLE B on the card insert.

Traffic Signal Clear, Vacuum, Spiral Filament

Standard Caps:—B.C. (B22/25 \times 26) or E.S. (E27/25)

			Dimer			
Watts	Volts	Description	Length mm.	Diameter mm.	Li Pi s.	ist* rice d.
60	110, 120, 210,	Spiral Filament	108	65	2	0
60	220, 230, 240, 250	Bulbs marked 'TC'	117-5	65	2	0

^{*} Purchase Tax see note below.

Traction Series Burning

					Dime	nsions		_ist*
	Nom. Watts	Rated Amps,	Volts	Cap	Length	Diameter	Cl	rice ear or 'earl
1					mm.	mm.	s.	d.
I	40	0.35	100, 110,	B.C.(B22/25 × 26)	110	60	h.	•
	60	0.52	120, 130	E.S.(E27/25)	117.5	65	} "	. 9

Rough Service Vacuum, Spiral Filament

		_	Dime	nsions	List*	
Watts	Voltages	Cap	Length	Diameter	Price Clear o Pearl	or
			mm.	mm.		d.
40	100, 110, 120, 130,	B.C.(B22/25 × 26)	110	60	1	•
60	200, 210, 220, 230, 240, 250, 260	e.S.(E27/25)	117.5	65	} 2	0

^{*} Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE A on the card insert.

Bus Interior Pearl

Standard Caps:—B.C. (B22/21 \times 26) or S.B.C. (BA.15d/17) Filaments:—Vee or Bow

		Dimer	nsions		
Watts	Volts	Length	Diameter	Li: Pr	st ! ice
		mm.	mm.	s.	d.
12	12	(55 (D.C.)	20	2	4
12	24	55 (B.C.) 56 (S.B.C) or 68	38 38	2	6
20	24	or 68	or 50	2	9

Purchase Tax must be added to the prices in this column. For the exact amount of purchase tax to be added see TABLE B on the card insert.

TRANSPORT **SPECIAL** SERVICE

Police

Traffic Signs

Traction

Rough Service

Bus Interior

^{*} Purchase Tax see note below.
† With fusible cut-out E.S. cap 40 volt and 50 volt only. 2s. 5d. each.



Miners' Cap (Clear Bulb)

		100		12:17/				
Lamp Code]	Rating	Diameter	Length	MFP	Cap	List Pric Eacl	e
Number	Volts	Amps.	mm.	mm.	Category			d.
Ar	gon—Dou	ble Filament						
13B	4.0	0.55 & 0.55	25	49	1 (B)	BA.15d/21	2	9
Kr	ypton—Si	ngle Filament						
13A	3.6	1.0	18	31	3/1	E10	2	8
15A	4.0	0.8	18	31	2	E10	2	8
Kr	ypton—De	ouble Filament						
14A	3.75	1.0 & 1.0	18	40	3/2	BA.15d/17	3	6

FOR NOTES SEE OPPOSITE PAGE



Miners

Coalmines have had to surmount numerous problems peculiar to their calling. Not least of their worries is the provision of adequate, safe lighting for many and varied applications.

Today in many mines throughout this country and abroad will be found BTH lighting equipment and lamps at every turn. In coal mines the Mazda coalface fluorescent fitting can be seen in use at the coalface. The Mazda fluorescent 'Roadway' fitting is extensively used for general lighting and of course the miner's cap or handlamp will contain one of the lamps listed on the opposite page.

Aircraft

The varied and special conditions in modern aircraft demand highly efficient and vibration-proof lamps and lighting equipment.

Whether the requirements are for a low voltage—high wattage lamp such as those shown under Landing or a low rating Instrument type, the lamps chosen will operate with efficiency and reliability throughout life.

Miners Handlamp Pearl Bulb

Lamp Code	Ra	ting	Diameter	Length	MFP	Cap	List Price
Number	Volts	Amps.	mm.	mm.	Category	Сар	Each s. d.
Kr	ypton—Sin	gle Filament†					
11B 12B 11A 12A 14B 15B 16A	2·5 2·5 2·5 2·5 4·0 4·0 4·0	1·5 1·75 1·75 1·75 0·75 0·75	18 18 18 18 18 18	43·5 45·5 43·5 45·5 45·5 47a 45·5	1 (B) 1 (B) 3/1 1 (B) 1 (B) 1 (B) 1 (B)	953 E14 953 E14 E14 Peg E14	3 0 3 0 3 0 3 0 3 0 3 0

† Supplied with fuse in the cap. (a) With Pip. E $14 = E 14/23 \times 15 = S.E.S.$ E 10 = E 10/13 = M.E.S. 953 = Special S.C.C. BA.15d/17 or BA.15d/21 = S.B.C. All the Miners' Lamps listed on this and the opposite page are approved by the Mines Department and are exempt from Purchase Tax.

Aircraft Lamps

Landing			1	1	 		D: :		
Watts							Dimension	S	Liet
240 12	Watts	Volts	Cap	Filament	Type and Finish				Price*
240		Landing	1				1		<u>' </u>
240		12	P28/25	Twin Pillar	Clear G.F.	95	60	37 ± 0·5	29 0A
1.2	240 350		P28/25	Tr. C.C.	Clear G.F.			44.5	
2-4		Instrum	ent or Indi	cator Lamps					
Clear Vac. 38 6.5 2 2 2 2.36 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.	1.2	12 \$		` _	Clear Vac	38	6.5	_	2 2C
2.36	- 1		and Clips	J _	Clear Vac	1	1	_	
2.36					Clear Vac.	38	11	_	2 7B
Warning Lamps O-24 3	2:36				Clear Vac.	38			2 6B 7B
Warning Lamps O-24 3	2.2			Bow or 'V'	Clear Vac.	27.5			1 3B
O-24 3	2.8	24	E10/13	Bow or 'V'				_	
Cockpit		Warning	Lamps						
Taxying Taxy				Tra. Bow or 'V' Tra. Bow or 'V'		23 23		=	1 0B 1 0B
2-2		Cockpit							
2-2	7	12	BA.15d/17	Bow or 'V'	Clear G F	32.5	18	17.5	3 0B
6 12 BA.15d/17 Bow or 'V' Vac. 32.5 18 — 1 51 61 Cabin Lamps 12 12 BA.15d/17 Bow or 'V' Clear G.F. 56 38 — 2 41 15 24 BA.15d/17 Bow or 'V' Clear G.F. 56 38 — 2 91 Navigation, Head, Tail and Side 10 12 BA.15d/17 Special Clear G.F. 57 30 3 61 12 BA.15d/17 Trans. Clear G.F. 57 38 33 4 61 Identification Downwards 30 12 BA.15d/17 Special Frosted G.F. 58 38 38 5 01 80 24 BA.15d/17 Special Frosted G.F. 57 38 33 4 61 Taxying 36 12 BA.15d/17 Special Frosted G.F. 58 38 38 7 61 Taxying	2.2	12	E10/13	Bow or 'V'	\ Varnished ∫	27.5	12 or 15	=	
Cabin Lamps 12		General	Service La	mps			· · · · · · · · · · · · · · · · · · ·	31-24	
12		12 24		Bow or 'V' Bow or 'V'				=	1 5B 1 6B
Navigation, Head, Tail and Side		Cabin La	mps						
10	12 15			Bow or 'V' Bow or 'V'				=	2 4B 2 9B
10	1	Navigatio	on, Head, 1	Tail and Side					
10		12	BA.15d/17	Single T Coil	Clear G.F.	46	25	30	3 6B
20 24 BA.15d/17 Trans. Clear G.F. 57 38 33 4 61	10	24	BA.15d/17	Special	Clear Vac. or G.F.	46	25	30	4 6B
Identification Downwards Special Internally 58 27 38 5 01 024 03 04 04 05 05 05 05 05 05				Trans.	Clear G.F.				4 0B
30			,		Clear G.F.	57	38	33	4 6B
80 24 BA.15d/17 Special Frosted G.F. \(\) 58 38 38 7 61 Taxying 36 12 BA.15d/17 'V' Clear G.F. 56 38 28.5 2.78	1	-		vards	[1		ı		
36 12 BA.15d/17 'V' Clear G.F. 56 38 28.5 2.78					Internally Frosted G.F. {				5 0B 7 6B
	7	Taxying							
60 24 BA.15d/17 Ax. C.C. or 'V' Clear G.F. 56 38 28.5 6 0H	36 60	12 24	BA.15d/17 BA.15d/17	Ax. C.C. or 'V'	Clear G.F. Clear G.F.	56 56	38 38		2 7B 6 0B

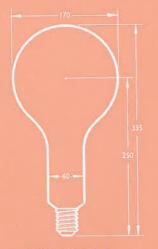
^{*}Purchase Tax must be added to the prices of all lamps in these columns except the 350w. 26v. Landing lamp. The exact amount of Purchase Tax to be added to the list prices with the suffices 'A' and 'B' will be found in TABLES A and B respectively on the card insert. Purchase Tax equal to 181% must be added to list prices with the suffix 'C'.

MINERS

Cap Lamps

Handlamp Lamps

AIRCRAFT



1500w. G.E.S. Cap G.F. Clear



1000w. and 750w. G.E.S. Cap G.F. Clear



General Lighting Service

500w. G.E.S. Cap G.F. Clear



300w. G.E.S. Cap G.F. Clear



200w. E.S. Cap G.F. Clear, Pearl and Silverlight



150w. B.C. Cap G.F. Clear and Silverlight

1 Circle



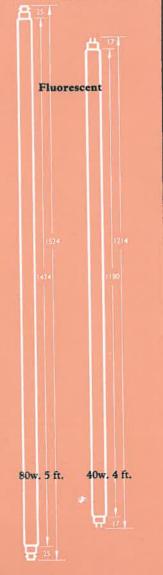


100w. and 75w. B.C. Cap 60w. and 40w. B.C. Cap 25w. B.C. Cap Clear, Pearl, Silverlight Clear, Pearl, Silverlight Clear and Pearl (100w.) and Coiled Coil and Coiled Coil

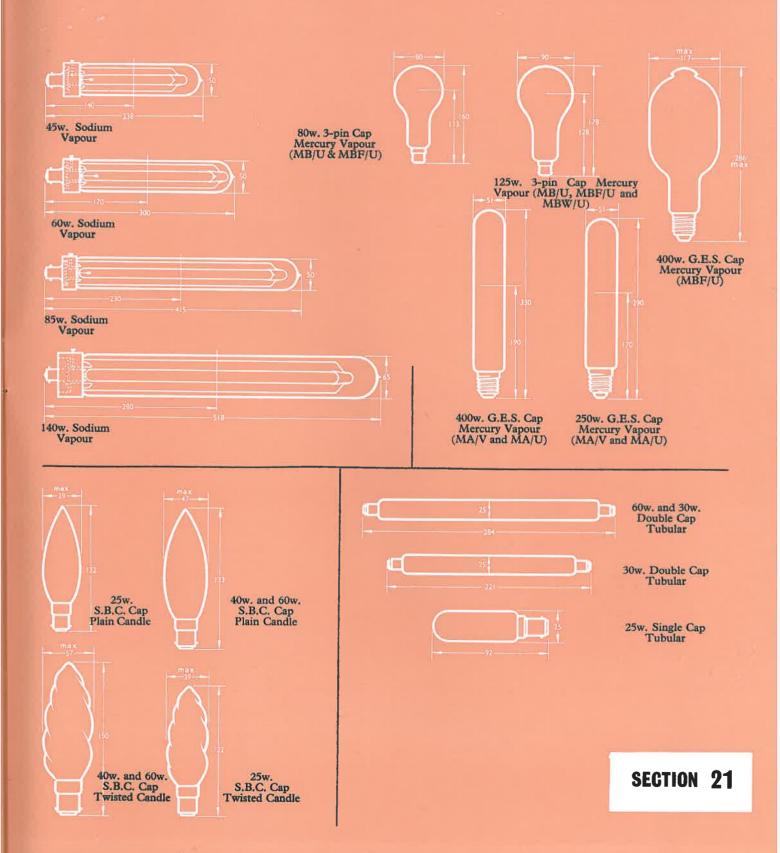
1 Circle



15w. B.C. Cap Clear and Pear



150w. 4 ft. 35w. 1 ft. 110w. 3 ft. 75w. 2 ft. 1 Circle Light Tubes



LAMP CAPS

Bayonet Double Contact



Bayonet Single Contact



Small Bayonet



B15d/24×17

BA.15d/17

BA.9s/14



3-pin Bayonet

B22/25 × 26 (3-pin)

Bosch



BA.20d



B22/22



B22/21 × 26



B22/25 × 26



B22/31 × 30



B22s/22



B22s/21 × 26



B22s/25 × 26



B22s/31 × 30

Edison Screw



E.S. E27/25



BA.15s/17

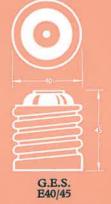
M.E.S. E10/13

Miner's



S11s/23





LAMP CAPS

Dimensions in millimetres

Caps for Double Ended Tubular lamps



S15s









Hollow Tubular



3-pin C.C.



Festoon



Caps for Fluorescent Lamps









Prefocus Caps



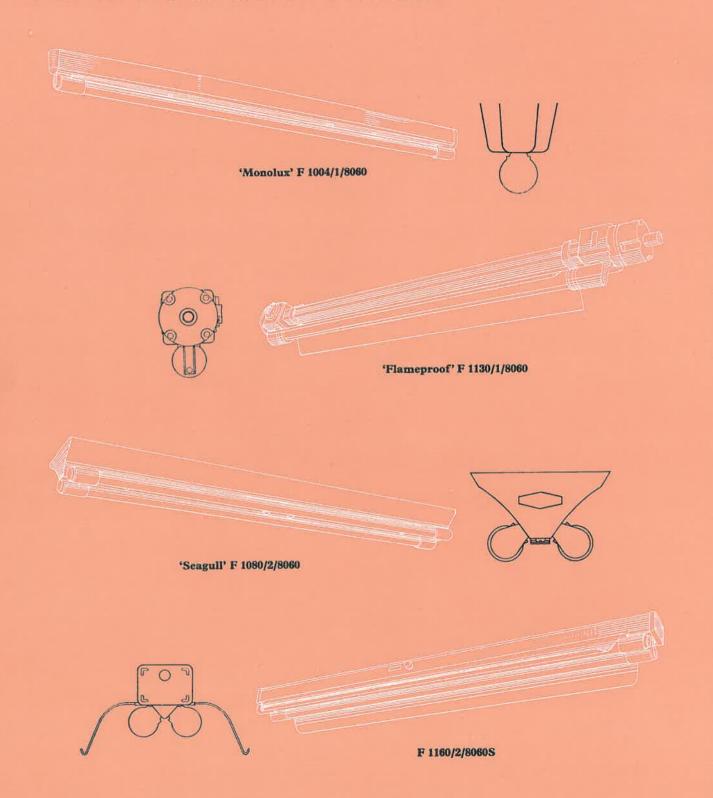
P22d/21

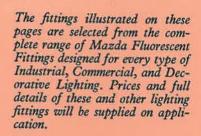




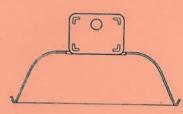
SECTION 22

MAZDA FLUORESCENT FITTINGS





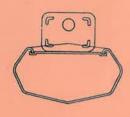
MAZDA FLUORESCENT FITTINGS

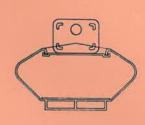


F 1162/2/8060S

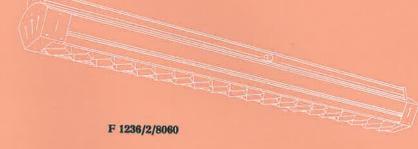


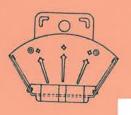
F 1234/2/8060





F 1235/2/8060





Mazda 'Rugby' Range

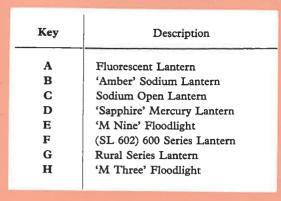
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Key	Description
A	High Bay Fitting
В	Dispersive Fitting
С	45° Angle Fitting
D	Glassteel Diffuser Fitting
E	Bulkhead Fitting
F	Mercury Vapour Fitting
G	'Cupola' Spotlight
н	150 watt Translucent Shade

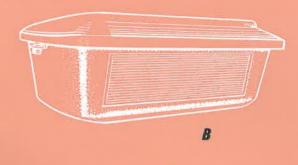
The fittings on this page represent only a small fraction of the complete range of Mazda Equipment for interior lighting of all kinds. Full details and prices of these and other fittings will be supplied on application.

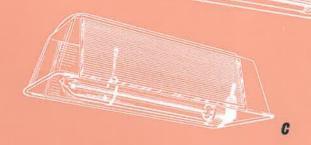


Mazda Streetlighting Lanterns and Floodlights



The Lanterns and Floodlights illustrated on this page are selected from the comprehensive range of Mazda Fittings designed to meet every outdoor lighting requirement. Full details and prices of this and other outdoor lighting equipment will be supplied on application.

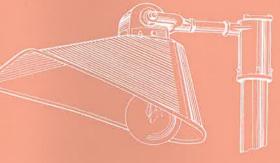
















100

MAZDA LAMP AUXILIARY GEAR

Prices and full details on application Illustrations on opposite page

(A) Chokes

for use with mercury vapour lamps (Sections 8 and 9)

Catalogue Number	A.C. 50 Cycles Supply Voltages	Lamp Watts
MRG 501	190/230	400
MRG 502	215/255	400
MRG 503	190/230	250
MRG 504	215/255	250
MRG 505	190/230	125
MRG 506	215/255	125
MRG 507	190/230	80
MRG 508	215/255	80
MRG 509	100/120	400
MRG 510	100/120	250

Special Choke Cat. No. MRG 101 must be used with 250 watt ME/D lamp.

(B) Transformers

for use with sodium vapour lamps (Section 8)

Catalogue Number	A.C. 50 Cycles Supply Voltages	Lamp Watts
MCG 106	190/220	140
MCG 107	220/250	140
MCG 108	190/220	45/60/85
MCG 109	220/250	45/60/85

(C) Capacitors

for use with electric discharge lamps (Sections 8 and 9)

Catalogue Number	Capacitance	Catalogue Number	Capacity
C 82595 C 82596 PL 26 or C 82597 PL 27 or C 82598 PL 28 or C 82599 C 82600 C 82601	mfd. 8 10 13 15 20 25 30	C 82602 C 82603 C 82604 C 82605 C 82606 C 82607 C 82608 C 82609 C 82610	mfd. 40 50 60 70 80 90 100 120 140

(D) Chokes

for use with fluorescent lamps (Section 7)

Catalogue Number	Length in.	Width in.	Height in.	Fixing Centres in.	Weight
MRJ 201 MRJ 202 MRJ 203 MRJ 204 MRJ 205 MRJ 215 MRJ 216 MRJ 217 MRJ 218 MRJ 219 MRJ 220 MRJ 221 MRJ 304	0.00.00.00.00.00.00.00.00.00.00.00.00.0	21:1:1:1:2:1:2:1:2:2:2:2:2:2:2:2:2:2:2:	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5.5.5.5.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	4 4 4 4 4 4 4 4 4 6

(E) Transformers

for use with fluorescent lamps on low voltage supplies (Section 7)

Catalogue Number	A.C. 50 Cycles Input Voltage	I	Lamp Watts
MC 188	110/115		80
MC 168	110/115	{	40 (4 ft.) 30

(F) Resistors for use with fluorescent lamps on D.C. supplies are available. Details on application. (Section 7)

(G) Starter Socket

for use with fluorescent lamps (Section 7)

Catalogue No. C 77592

(H) Capacitors

for use with fluorescent lamps (Section 7)

Catalogue Number	Capacitance	Max. Working	Lamp	Watts
		Voltage	Single	2 in series
PL 11C	7·5 mfd.	260	80	40 (2 ft.)
PL 12	3·25 mfd.	260	{ 40 (4 ft.)	20 15
PJ 13	4·5 mfd.	260	$\begin{cases} 20 \\ 15 \end{cases}$	_
PL 51	7·0 mfd.	450	_	80 (T.L. circuit)

(I) Instant Start Ballast

for use with Instant Start fluorescent lamps (Section 7)

	Lamp Watts	A.C. 50 cycles Supply Voltage	Overall Length in.	Overall Width in.	Overall Height in.	Fixing Centres in.	Approx. Weight lb.
MK 138†	40(4')	200/210 220/230 230/240 240/250 200/210 220/230 230/240 240/250	10 4 8 1103 8 8 1103 8 8 1103 8 8 120 8 12	33333222 22222222222222222222222222222	24 24 24 24 22 2 2 2 2	958 8 16 16 18 18 18 18 18 18 18 18 18 18 18 18 18	10 8 2 1 8 2 7 7 7 7 7 7

[†] Radio Suppressor included.

(J) Starters

for use with fluorescent lamps (Section 7)

	Catalogue Numbers			
Lamp Watts	A.C.	A.C. or D.C.		
80 watt 60" 40 watt 48" 30 watt 36" 40 watt 24" 20 watt 24" 15 watt 18"	ST 26 ST 26 ST 26 ST 23 ST 25 ST 25	ST 23 ST 24 ST 25 ST 23 ST 25 ST 25		

MAZDA LAMPHOLDERS

Catalogue No.	Description (Prices and Full Details on Application)				
C 84456 C 83024	Circular Fluorescent holder and supports B.C. Rubber Sleeve (Sodium Lamps)				
C 69120 C 84079 C 85830	G.E.S. Skirted (Tungsten Lamps, BTH patent) Bi-post (Studio Lamps) Swivel Holder (Reflector Lamps)				
C 69119 T 957	G.E.S. Unskirted (Tungsten Lamps, BTH patent) Medium Prefocus (Projector Lamps)				
C 83131 C 76551 C 86267 C 86486 C 83145	Miniature Bi-pin (Miniature Fluorescent Lamps) B.C. Rubber Sleeve (Fluorescent Lamps) Fixed B.C. (Fluorescent Lamps) Medium Bi-pin Compact (Fluorescent Lamps) Medium Bi-pin (Fluorescent Lamps) Medium Bi-pin Rubber Sleeve (Fluorescent Lamps)				
C 77969	Medium Di-biii Kubber Sieeve (Fluorescent Lamps)				

















C 77969

C83024

000

LAMP OUTPUT

G.L.S. Clear and Pearl (Section 1)

Lamp Watts	Voltage Ra	Voltage Range and Approximate Initial Total Lumens Output						
Watts	200-260	100-130	60-75	35-55	25			
15	120	140		150	165			
25	220	240	260	280	310			
40	*430	470	470	500	550			
60	*725	790	780	820	890			
75	*960	1060		_				
100	*1380	1500	1460	1510	1600			
150	2150	2360	2330	2400	_			
200	2960	3280	3240	3350	_			
300	4830	5250	5170	5330	_			
500	8660	9500	9340	9570	_			
750	13900	15150	14800	15130	_			
1000	19400	20900	20600	20830	_			
1500	31000	32200	-	_	_			

^{*} Coiled Coil.

Fluorescent (Section 7)

Watts	Nomina Length		Colours	Average Lumens through the first 5000 hours of Life
125	8 ft.	{	New Warm White Natural	6875 5375
80	5 ft.	$\left\{ \right.$	New Warm White Daylight Natural Deluxe Warm White Colour Matching	4160 3600 3120 2560 2200
40	4 ft.	{	New Warm White Daylight Natural Deluxe Warm White Colour Matching	2160 1920 1640 1360 1200
40	2 ft.	$\left\{ \right.$	New Warm White Natural Deluxe Warm White	1320 1080 760
30	3 ft.	{	New Warm White Natural Deluxe Warm White	1380 1170 840
20	2 ft.	{	New Warm White Natural Deluxe Warm White	800 640 460
15	1½ ft.	$\Big\{$	New Warm White Natural Deluxe Warm White	480 420 330

Silverlight (Section 1)

Lamp Watts	Approximate Initial Total Lumens Output 200/260 volts
Coiled Coil	
40 60 100 Single Coil	410 690 1310
40 60 100 150 200	335 590 1180 2045 2810

Mercury Vapour (Sections 8 and 9)

Watts	Average Lumen Output through 4000 hours Life
MA/V	
250 400	7750 13600
MA/U	
250 400	7000 12 4 00
MA/H	
250 400	7000 12 4 00
MB/U	
80 125	2320 3875
_MBF/U	
80 125 400	2320 3875 16800

Sodium Vapour (Section 8)

Watts	Average Lumen Output through 4000 hours Life
45	2250
60	3420
85	5525
140	9100

READY RECKONER

1	2	3	4	5	6	7	8	9	10	11	12	20	25	50
s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.				
1	2	3	4	5	6	7	8	9	10	11	1 0	1 8	2 1	4 2
2	4	6	8	10	1 0	1 2	1 4	1 6	1 8	1 10	2 0	3 4	4 2	8 4
3	6	9	1 0	1 3	1 6	1 9	2 0	2 3	2 6	2 9	3 0	5 0	6 3	12 6
4	8	1 0	1 4	1 8	2 0	2 4	2 8	3 0	3 4	3 8	4 0	6 8	8 4	16 8
5	10	1 3	1 8	2 1	2 6	2 11	3 4	3 9	4 2	4 7	5 0	8 4	10 5	20 10
6	1 0	1 6	2 0	2 6	3 0	3 6	4 0	4 6	5 0	5 6	6 0	10 0	12 6	25 0
7	1 2	1 9	2 4	2 11	3 6	4 1	4 8	5 3	5 10	6 5	7 0	11 8	14 7	29 2
8	1 4	2 0	2 8	3 4	4 0	4 8	5 4	6 0	6 8	7 4	8 0	13 4	16 8	33 4
9	1 6	2 3	3 0	3 9	4 6	5 3	6 0	6 9	7 6	8 3	9 0	15 0	18 9	37 6
10	1 8	2 6	3 4	4 2	5 0	5 10	6 8	7 6	8 4	9 2	10 0	16 8	20 10	41 8
11	1 10	2 9	3 8	4 7	5 6	6 5	7 4	8 3	9 2	10 1	11 0	18 4	22 11	45 10
1 0	2 0	3 0	4 0	5 0	6 0	7 0	8 0	9 0	10 0	11 0	12 0	20 0	25 0	50 0
1 1	2 2	3 3	4 4	5 5	6 6	7 7	8 8	9 9	10 10	11 11	13 0	21 8	27 1	54 2
1 2	2 4	3 6	4 8	5 10	7 0	8 2	9 4	10 6	11 8	12 10	14 0	23 4	29 2	58 4
1 3	2 6	3 9	5 0	6 3	7 6	8 9	10 0	11 3	12 6	13 9	15 0	25 0	31 3	62 6
1 4	2 8	4 0	5 4	6 8	8 0	9 4	10 8	12 0	13 4	14 8	16 0	26 8	33 4	66 8
1 5	2 10	4 3	5 8	7 1	8 6	9 11	11 4	12 9	14 2	15 7	17 0	28 4	35 5	70 10
1 6	3 0	4 6	6 0	7 6	9 0	10 6	12 0	13 6	15 0	16 6	18 0	30 0	37 6	75 0
1 7	3 2	4 9	6 4	7 11	9 6	11 1	12 8	14 3	15 10	17 5	19 0	31 8	39 7	79 2
1 8	3 4	5 0	6 8	8 4	10 0	11 8	13 4	15 0	16 8	18 4	20 0	33 4	41 8	83 4
1 9	3 6	5 3	7 0	8 9	10 6	12 3	14 0	15 9	17 6	19 3	21 0	35 0	43 9	87 6
1 10	3 8	5 6	7 4	9 2	11 0	12 10	14 8	16 6	18 4	20 2	22 0	36 8	45 10	91 8
1 11	3 10	5 9	7 8	9 7	11 6	13 5	15 4	17 3	19 2	21 1	23 0	38 4	47 11	95 10
2 0	4 0	6 0	8 0	10 0	12 0	14 0	16 0	18 0	20 0	22 0	24 0	40 0	50 0	100 0
2 3	4 6	6 9	9 0	11 3	13 6	15 9	18 0	24 9	22 6	24 9	27 0	45 0	56 3	112 6
2 6	5 0	7 6	10 0	12 6	15 0	17 6	20 0		25 0	27 6	30 0	50 0	62 6	125 0
2 9	5 6	8 3	11 0	13 9	16 6	19 3	22 0		27 6	30 3	33 0	55 0	69 9	137 6
3 0	6 0	9 0	12 0	15 0	18 0	21 0	24 0		30 0	33 0	36 0	60 0	75 0	150 0
3 3	6 6	9 9	13 0	16 3	19 6	22 9	26 0	33 9	32 6	35 9	39 0	65 0	81 3	162 6
3 6	7 0	10 6	14 0	17 6	21 0	24 6	28 0		35 0	38 6	42 0	70 0	87 6	175 0
3 9	7 6	11 3	15 0	18 9	22 6	26 3	30 0		37 6	41 3	45 0	75 0	93 9	187 6
4 0	8 0	12 0	16 0	20 0	24 0	28 0	32 0		40 0	44 0	48 0	80 0	100 0	200 0
4 3 4 6 4 9 5 0	8 6 9 0 9 6 10 0	12 9 13 6 14 3 15 0	17 0 18 0 19 0 20 0	21 3 22 6 23 9 25 0	25 6 27 0 28 6 30 0		34 0 36 0 38 0 40 0	40 6 42 9	47 6	46 9 49 6 52 3 55 0	51 0 54 0 57 0 60 0	85 0 90 0 95 0 100 0	106 3 112 6 118 9 125 0	212 6 225 0 237 6 250 0
6 0 7 0 8 0 9 0 10 0	12 0 14 0 16 0 18 0 20 0	18 0 21 0 24 0 27 0 30 0	24 0 28 0 32 0 36 0 40 0	30 0 35 0 40 0 45 0 50 0	36 0 42 0 48 0 54 0 60 0	42 0 49 0 56 0 63 0 70 0	48 0 56 0 64 0 72 0 80 0	63 0 72 0 81 0	80 0 90 0	66 0 77 0 88 0 99 0 110 0	72 0 84 0 96 0 108 0 120 0	120 0 140 0 160 0 180 0 200 0	150 0 175 0 200 0 225 0 250 0	300 0 350 0 400 0 450 0 500 0
11 0 12 0 13 0 14 0 15 0	22 0 24 0 26 0 28 0 30 0	33 0 36 0 39 0 42 0 45 0	44 0 48 0 52 0 56 0 60 0	55 0 60 0 65 0 70 0 75 0	66 0 72 0 78 0 84 0 90 0	98 0	96 0 104 0 112 0	108 0 117 0 126 0	120 0 130 0 140 0	121 0 132 0 143 0 154 0 165 0	132 0 144 0 156 0 168 0 180 0	220 0 240 0 260 0 280 0 300 0	275 0 300 0 325 0 350 0 375 0	550 0 600 0 650 0 700 0 750 0
16 0 17 0 18 0 19 0 20 0	32 0 34 0 36 0 38 0 40 0	48 0 51 0 54 0 57 0 60 0	64 0 68 0 72 0 76 0 80 0	80 0 85 0 90 0 95 0 100 0	96 0 102 0 108 0 114 0 120 0	119 0 126 0 133 0	136 0 144 0 152 0	153 0 162 0	170 0 180 0 190 0	176 0 187 0 198 0 209 0 220 0	192 0 204 0 216 0 228 0 240 0	320 0 340 0 360 0 380 0 400 0	400 0 425 0 450 0 475 0 500 0	800 0 850 0 900 0 950 0 1000 0

STANDARD PACKING QUANTITIES

Lamps are supplied packed in the quantities stated below.

		Wattages and Packing Quantities														
Type of Lamp	Section	15 watt	25 watt	40 watt	60 watt	75 watt	100 watt	150 watt	200 watt	250 watt	300 watt	500 watt	750 watt	1000 watt	1500 watt	
G.L.S. Single-coil, Clear	I	50	50	50	50	50	50	50	25		12	9	6	6	4	
G.L.S. Single-coil, Pearl	1	50	50	50	50	50	50	50	25							
G.L.S. Coiled-coil, Clear and Pearl	1			50	50	50	50									
Silverlight	1			50	50		50	50	25							
Reflector Type Lamps (Spotlight and Floodlight) (Infra-red)	4 5					24		6		6						
Tubular Lamps	3	25	25													
Longlite	3	,		25	25											
Plain and Twisted Candle	3		24	24	24								,			
All fluorescent lamps up to and including 80 watt No. 3 No. 5 and S.M. No. 22 50 mm. Headlamps (Except Bosch Caps) 28 mm. Prefocus Headlamps 38 mm. Headlamps (Except Bosch Caps) 25 mm. Stop Lamps 18 mm. Side Tail & Dash	7 14 14 14 15 15 & 16	Packed in quantities of 25. Display carton of 5 or box of 400 Packed in quantities of 72. Packed in quantities of 50. Display cartons of 12, or 72 in corrugated outer carton. Display cartons of 12, or 1 gross in corrugated outer carton.					400 f. tt	DELIVERY CONDITIONS Packing and delivery of lamps is free of charge. The British Thomson-Houston Co., Ltd., will credit or replace lamps broken in transit between their store and the customer's premises provided they are advised at once and the lamps returned, carriage paid, within seven days of date of dispatch, the Company's dispatch note number to be quoted. The Company will not accept responsibility for safe custody of such returned lamps. Claims for transportation and breakage allowance can be entertained by the Company only on their own consignments.								
18 mm. Side, Tail & Dash 17 Display cartons of 12 or 2 gross in corrugated outer carton.																

THE BRITISH THOMSON-HOUSTON CO., LTD.

Electrical Engineers and Manufacturers

Head Office and Show Room - Crown House, Aldwych, London, W.C.2 Telegrams: Asteroidal, Estrand, London Telephone: Temple Bar 8040

LIGHTING DEPARTMENT HEADQUARTERS

44 Fitzrov Road, N.W.1 Primrose 7750-62

LAMP & LIGHTING TRADE COUNTERS AND LIGHTING ADVISORY SERVICE

Technical Advice and Information may be obtained through any of the following Offices:

BELFAST .. 12 Alfred Street.

Belfast 29368/9

BIRMINGHAM .. Geoffrey Buildings, John Bright Street. Midland 6335

.. 8 Edward Street. BLACKPOOL

Blackpool 26936

BOURNEMOUTH 511 Roumelia Lane, Boscombe. Boscombe 34194

BRISTOL, 1 .. 119 Victoria Street.

Bristol 20111

CAMBRIDGE .. Fellowship House, 133 Fitzroy

St. Cambridge 54370 & 57366

.. Jotham's Buildings, **CARDIFF**

26-27 St. Mary Street.

Cardiff 32291/3

17 Grosvenor Street. CHELTENHAM

DUBLIN ..

Cheltenham 2776

CHESTER .. 5 Boughton. Chester 20813

COLCHESTER .. Culver Street. Colchester 2843

CROYDON ... 54 Selsdon Rd., South Croydon.

Croydon 3839

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Central 36241

LEEDS, 1 ... 46 Wellington Street.

Leeds 31541

LEICESTER ... 5 Campbell Street.

Granby 291/2

LEYTONSTONE 220 High Road,

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Swansea 2151



