

SECTION 10

GROUND LIGHTING AND MISCELLANEOUS EQUIPMENT

LIST OF ITEMS

Now AP 120H-0002-1

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SECTION 10

GROUND LIGHTING AND MISCELLANEOUS EQUIPMENT

LIST OF ITEMS

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- 2 Lamp, inspection, Type D
- 3 Torch, electric, Type C
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- 5 Lamp, inspection, tank
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- 16 Reel, extension cable, Mk 1

ITEM 1

LAMP, SIGNALLING, TYPE B



A.P. Reference

Stores Ref. 5A/2334

Classification 2

Overall dimensions (transit case)

Length $6\frac{3}{4}$ in.

Width 8 in.

Height $9\frac{3}{4}$ in.

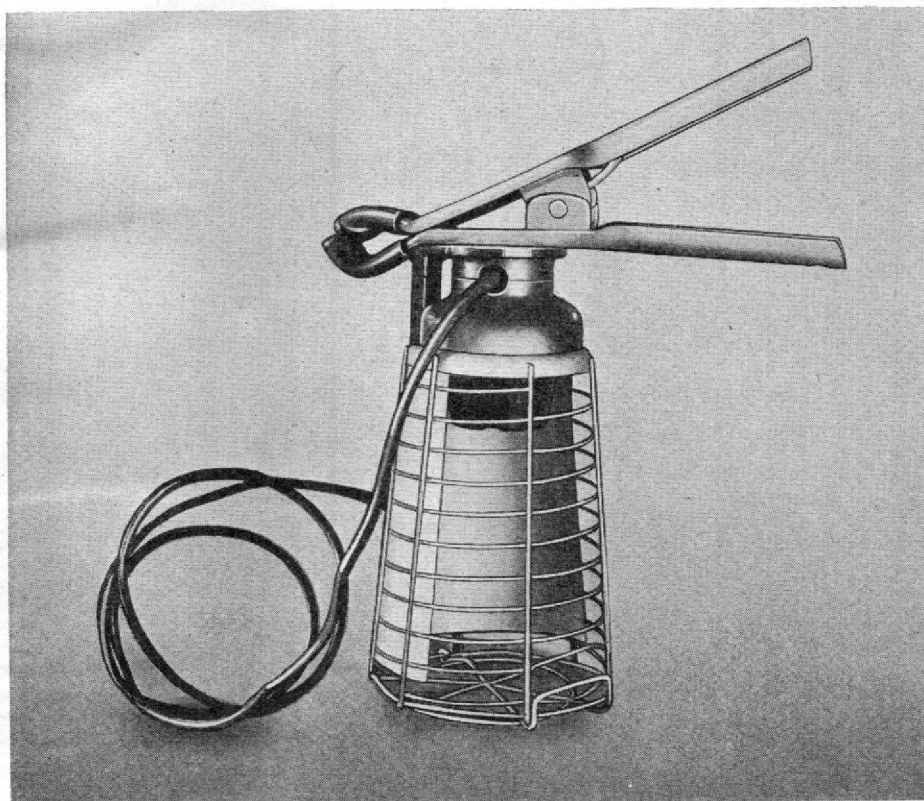
Weight (cased) 4 lb. $13\frac{1}{2}$ oz.

Brief description This signalling lamp can be used for transmitting messages from ground to air or air to ground in morse code. The lamp is fitted with a trigger switch, which when operated, tilts the reflector to obtain beam deflection. The lamp is provided with a front sight and a rear eyepiece. Rim clips make the front glass readily changeable. Clear, red, and green front glasses are supplied with the lamp. The filament lamps are provisioned separately: 12 volt, 30 watt (Stores Ref. 5L/2339) or 24 volt, 30 watt (Stores Ref. 5L/2340).

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ITEM 2

LAMP, INSPECTION, TYPE D



A.P. Reference

Stores Ref. 5A/2430

Classification 2

Overall dimensions

Length (grip) $8\frac{1}{4}$ in.

Width (wire guard) 4 in. dia. **Height** $10\frac{1}{4}$ in.

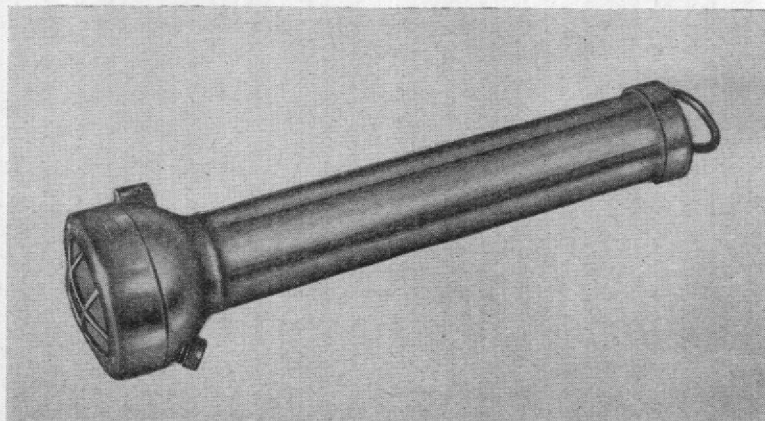
Weight 1 lb. 9 oz.

Brief description This portable electric lamp can be used in hangers and workshops, to facilitate routine work, but must not come in direct contact with atmosphere laden with gasoline, dope, or other combustible gases; in no circumstances should it be used during refuelling of aircraft or when fuel tanks are being drained. The body of the lamp is fitted with a leather-protected spring grip, and the equipment includes 24 ft. of electrical lead. The 12 volt, 30 watt filament lamp is provisioned separately (Stores Ref. 5L/1149).

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ITEM 3

TORCH, ELECTRIC, TYPE C



A.P. Reference

Stores Ref. 5A/2011

Classification 2

Overall dimensions

Length 10 in.

Diameter 3 in.

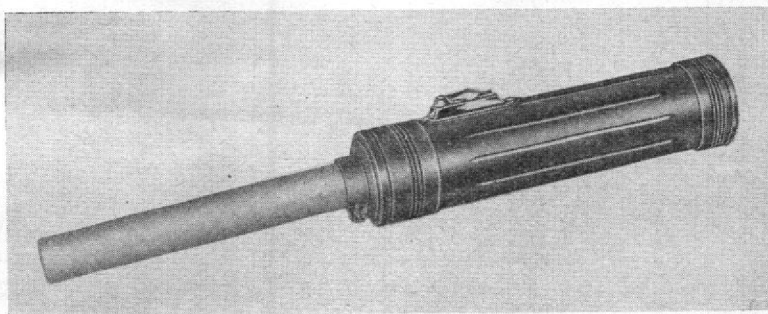
Weight 15½ oz.

Brief description This item of equipment is an approved explosion-proof torch which can be used in the presence of inflammable vapours which may be encountered during the inspection of aircraft, fuel tanks, and similar operations. The torch is fitted with a screw contact switch, and is supplied with a 3.5 volt filament lamp (Stores Ref. 5L/361).

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ITEM 4

TORCH, ELECTRIC, TYPE Q



A.P. Reference 3024

Stores Ref. 5A/3549

Classification 2

Overall dimensions

Length $12\frac{1}{2}$ in.

Diameter $1\frac{1}{2}$ in.

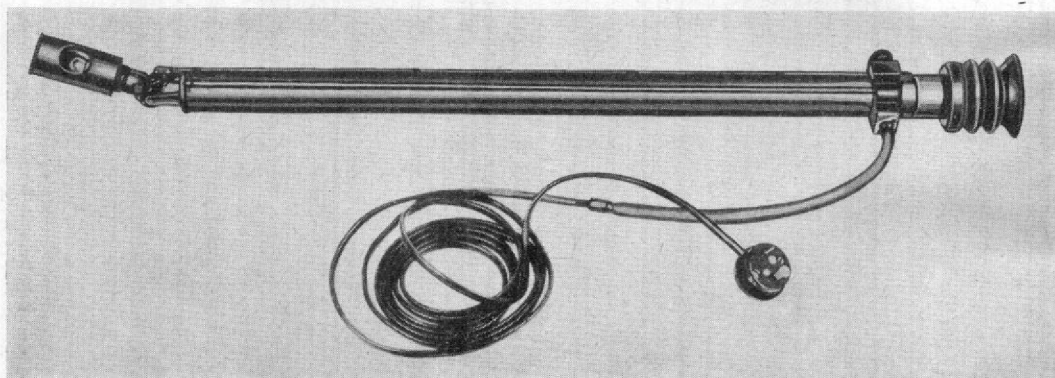
Weight $6\frac{1}{2}$ oz.

Brief description This hand torch is fitted with an opaque luminous wand, and is used when marshalling aircraft by night in accordance with the code of signals contained in A.P.3024 (Flying Control). The wand, which is made of plastic material, is detachable, and new wands can be obtained as required (Store Ref. 5A/3550).

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ITEM 5

LAMP, INSPECTION, TANK



A.P. Reference 4343G, Vol. I, Sect. 15, Chap. I

Stores Ref. 5A/3729

Classification 2

Overall dimensions

Length 2 ft. 10 in.

Dia. of body $1\frac{1}{2}$ in.

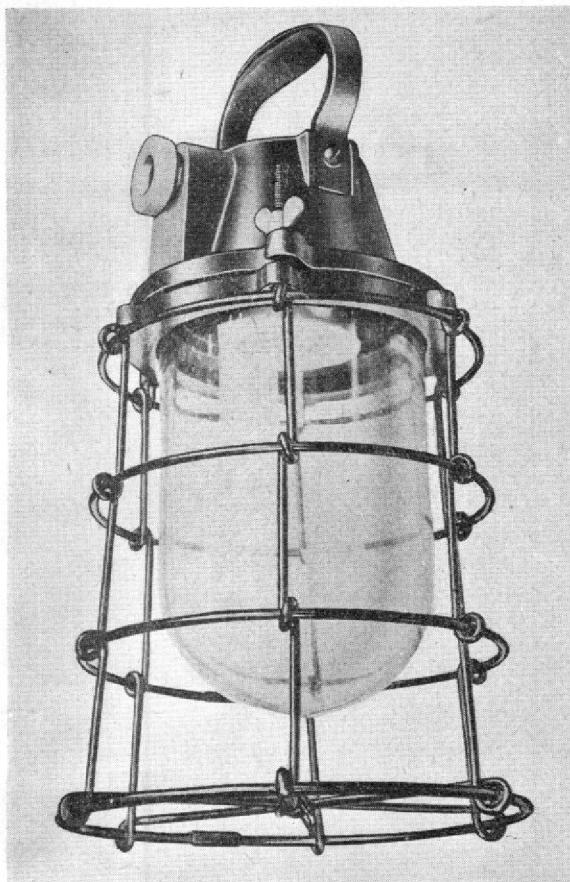
Weight

Brief description This lamp is used for the visual inspection of the interior of aircraft fuel tanks which cannot be inspected by direct vision. It can be operated from either a 24-volt d.c. or a 230-volt, a.c. mains supply, and must be used in conjunction with the fuse, resistance and transformer box (Stores Ref. 5A/3732). The lamp incorporates an adjustable prism and an eye-piece which when correctly adjusted and focussed, make it possible to bring any part of the tank interior into view through the optical system.

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ITEM 6

LAMP, INSPECTION, TYPE B



A.P. Reference 4343G, Vol. I, Sect. I3, Chap. 2

Stores Ref. 5A/390

Classification 2

Overall dimensions

Height

Diameter

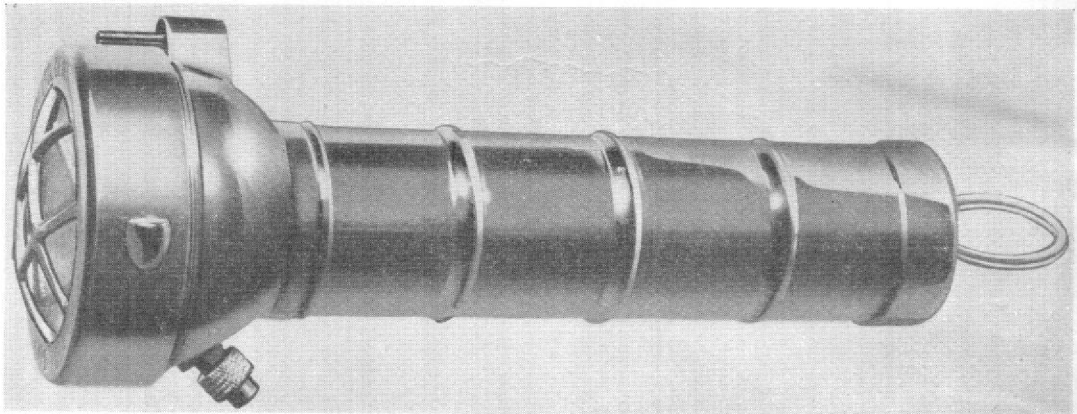
Weight

Brief description This portable electric lamp is used when working in aircraft on the ground and for general use in workshops and hangars. Provision is made for earthing the all-metal body and guard, and the filament lamp is enclosed in an air-tight glass dome. Although the lamp has a certain degree of protection against inflammable gases, it is not certified as flame-proof; it should not therefore be used if liable to come into direct contact with atmospheres laden with gasoline, dope or other combustible gases.

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ITEM 7

TORCH, SAFETY, OLDHAM



A.P. Reference

Stores Ref. Admiralty Pattern 16456

Classification 2

Overall dimensions

Length 8 in.

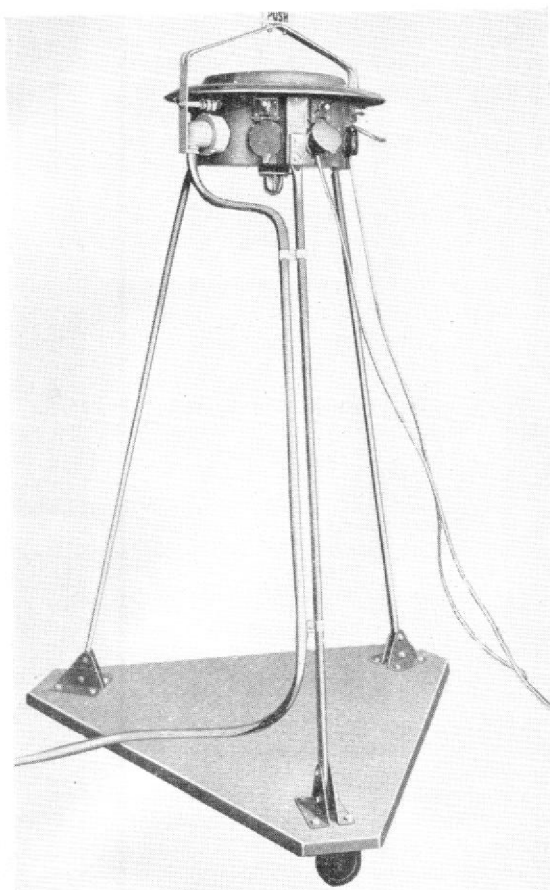
Dia. $2\frac{1}{2}$ in. (shank $1\frac{3}{8}$ in. dia.)

Weight (with battery) $1\frac{1}{4}$ lb.

Brief description This torch is for the use of Naval aircraft maintenance personnel. It is explosion proof and can be used in the presence of inflammable vapours which may be encountered during the inspection of aircraft, fuel tanks, and similar operations.

ITEM 8

STAND, ELECTRICAL, POWER DISTRIBUTION



A.P. Reference 4343G, Vol. I, Sect. II, Chap. I

Stores Ref. 5A/4176

Classification 2

Overall dimensions

Length (base) 3 ft. 2½ in.

Width (base) 3 ft. 8½ in.

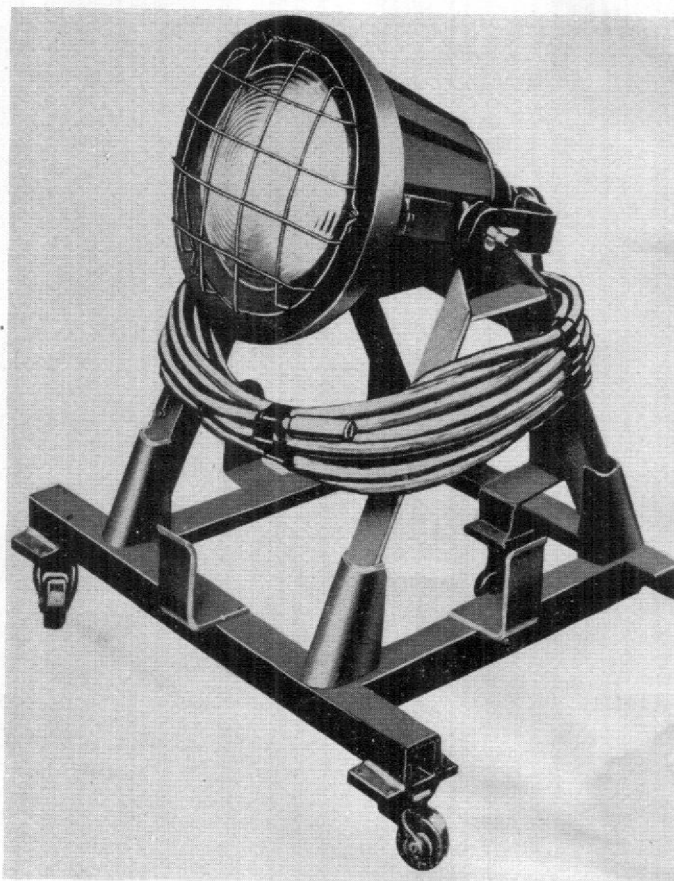
Height 5 ft. 3 in.

Weight (less cables) 86 lb.

Brief description This electrical power distribution stand is used in the servicing hangar, or in conjunction with power cubicles at aircraft dispersals, to enable various portable electrical tools and appliances to be operated simultaneously during aircraft servicing. The stand consists of a weatherproof distribution head mounted on a tripod stand, the base of which is fitted with three castor wheels. The stand is used with a 230 V, 50 cycles mains supply, and the supply cable is connected to a 15 amp. single phase socket in the flameproof installation in the hangar or at dispersal. Mounted in the distribution head are eight 5 amp. 3-pin outlet sockets to accept the plugs fitted to the tools, eight fuses, one 15 amp. supply plug, a 5 amp. emergency switch, and an indicator lamp; a single pole switch controls each of the eight output sockets.

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ITEM 9

FLOODLIGHT, FLAMEPROOF, FLOOR TYPE

A.P. Reference 4343G, Vol. I, Sect. 15, Chap. 11

Stores Ref. 5A/4149

Classification 2

Overall dimensions

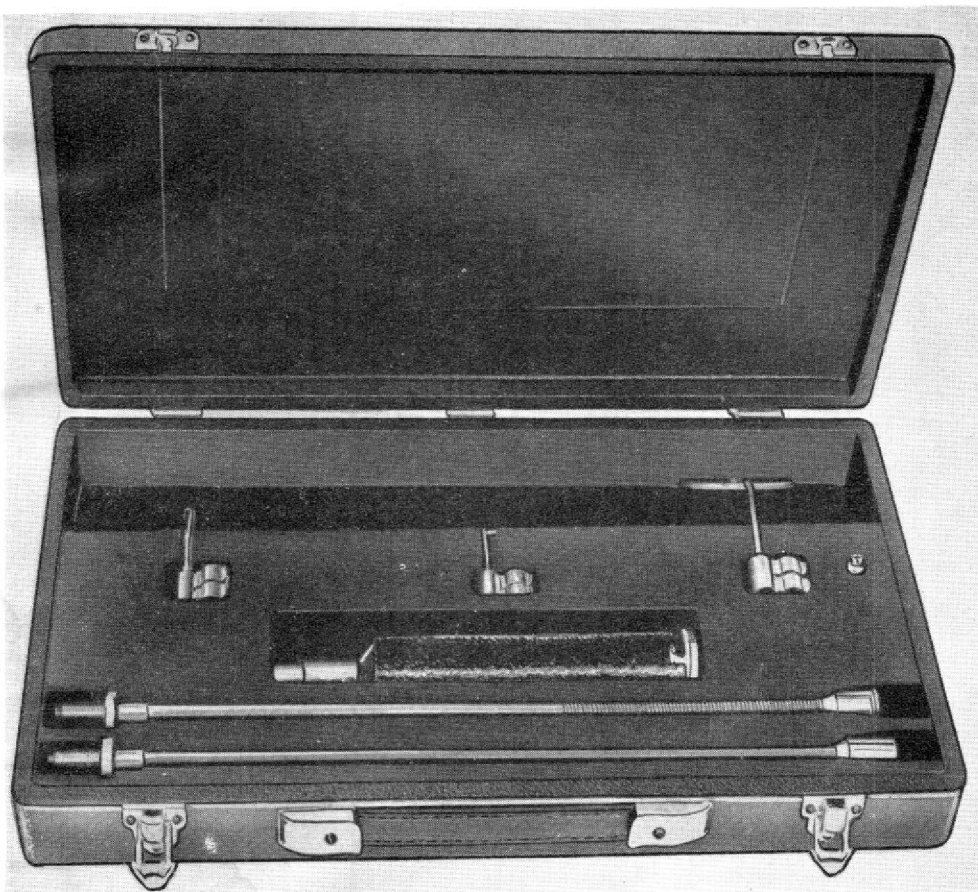
Length 2 ft. 1 in. **Width** 1 ft. 11½ in. **Height** 2 ft. 0½ in.

Weight 66 lb.

Brief description This portable mains-operated floodlight is used to provide illumination at floor level during aircraft servicing, and may be used in explosive atmospheres. The equipment consists of a flameproof lantern, fitted with a 200 watt, 230 volt filament lamp, mounted on a small three-wheeled trolley. A 50 ft. length of flexible screened 3-core cable is connected to a flameproof terminal box on the lantern. A wire mesh guard is fitted to protect the glass of the lantern.

ITEM 10

TORCH, ELECTRIC, HAND, PROBE ILLUMINATOR, TYPE C



A.P. Reference 4343G, Vol. I, Sect. 15, Chap. 13

Stores Ref. 5A/4310

Classification 2

Overall dimensions (cased)

Length 1 ft. $3\frac{3}{4}$ in. **Width** 9 in. **Height** $2\frac{1}{2}$ in.

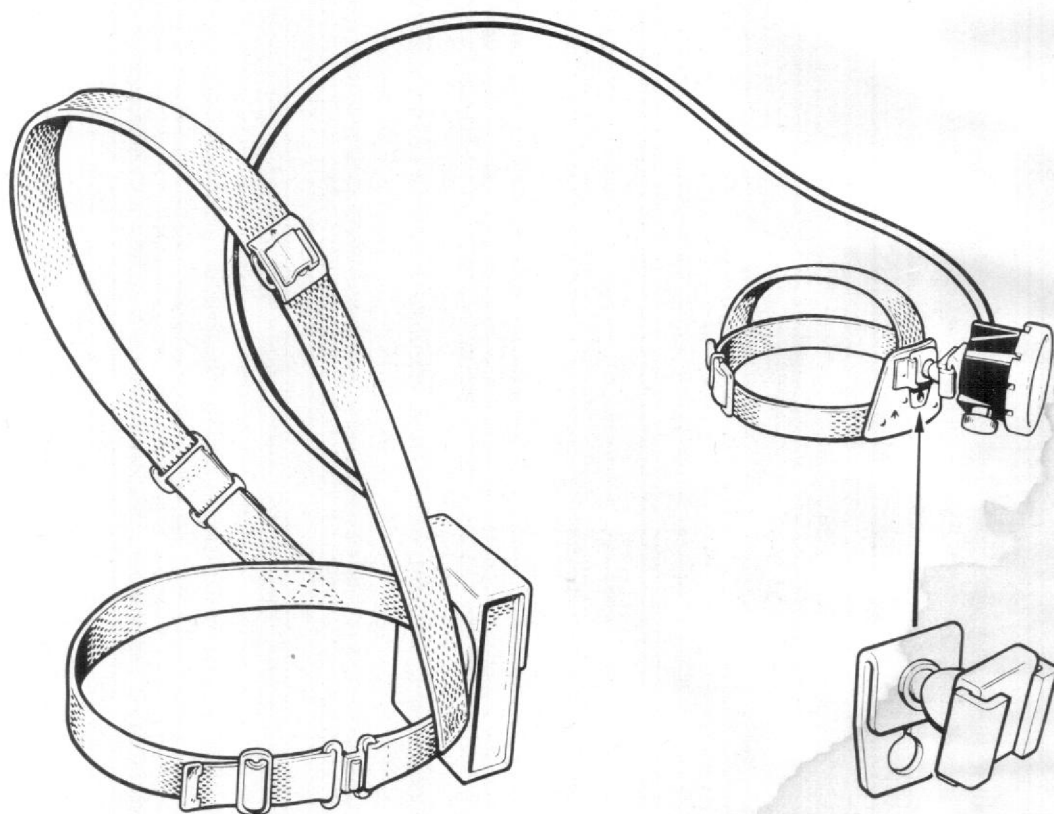
Weight (cased) 7 lb. 10 oz.

Brief description This torch is used during 1st and 2nd line servicing to provide a small concentrated source of light for the inspection of aircraft components, electrical connections, etc., located in inaccessible places or concealed from direct vision. The torch consists of a metal battery handle, which provides the source of light and contains two Type U.2 dry batteries, one 15 in. rigid extension, one 15 in. pre-set flexible probe fitted with a 2.5 volt lense-topped bulb at its extremity, and three adjustable-angle inspection mirrors of $1\frac{1}{2}$ in. and $2\frac{1}{2}$ in. dia. and $2\frac{1}{2}$ in. $\times$ $4\frac{1}{2}$ in. respectively; the equipment is contained in a leather-cloth covered plywood case. When the torch is in use, the probe is connected to the handle and the selected mirror is clipped to the end of the probe to direct the light in any desired direction, or used for reflected vision; alternatively, the probe can be used to provide illumination only, without a mirror. The 15 in. extension is interposed between the handle and the probe when it is required to increase the length of the torch.

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ITEM 11

LIGHT, HEADBAND, FLAMEPROOF



A.P. Reference

Ref. No. 5A/4352

Classification 2

Overall dimensions (packed)

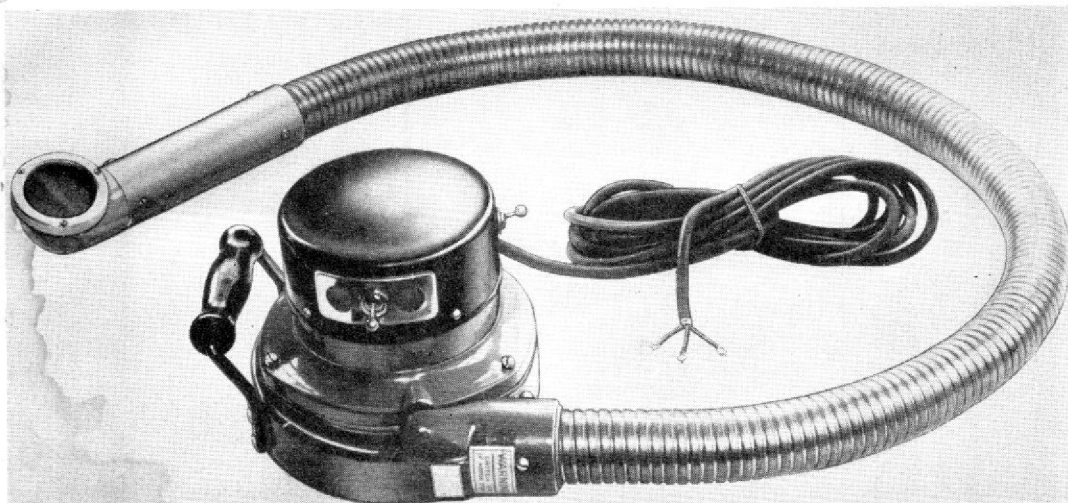
Length 10 in. Width $7\frac{1}{4}$ in. Height 10 in.

Weight (packed) 14 lb.

Brief description This light is similar to a miners lamp and is used by aircraft servicing personnel to provide illumination in explosive atmospheres. The light consists of a low voltage lamp, for attachment to a headband, and is supplied with current from a "Nife" steel-alkaline tubular positive plate battery attached to the wearer by a harness. The lamp, which can be attached also to the front of the harness, is provided with a swivel-ball fitting (5A/4408) for directing the light beam as required. A dismantling key (5A/4360) is supplied with each light for use in battery charging and bulb changing. The battery has a charging voltage of 4.2 to 5.4 volts, and a charging rate of 1.75 amps. for 8 hours. The lamp is fitted with a high efficiency gas-filled main bulb which gives an intense beam of light over a wide angle and a low consumption pilot bulb for use in an emergency.

ITEM 12

BLOWER, AIR, PORTABLE, TYPE D



A.P. Reference 4343S, Vol. I, Sect. 23, Chap. 13

Ref. No. 5A/4124

Classification 2

Overall Dimensions

Length

Width

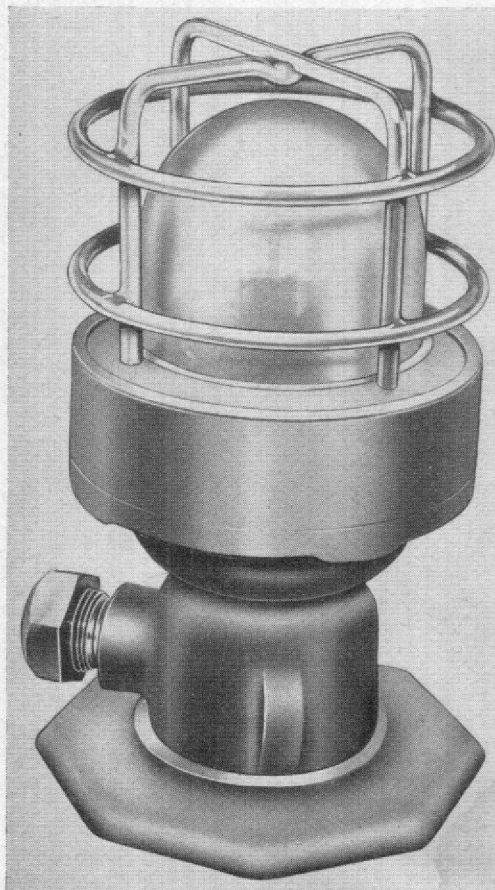
Height

Weight 14 lb.

Brief description This portable air blower is operated from a 240/250 v., a.c. or d.c. supply and produces a flow of hot or cold air for cooling purposes or for drying out damp components. The blower consists of a motor of approximately $\frac{1}{2}$ horse-power driving a centrifugal fan within a light alloy casing. Air from the fan is delivered through a 4 ft. $\times$ 1 $\frac{1}{2}$ in. length of flexible copper tubing terminating in a heater unit and a nozzle outlet. The heater unit consumes 1 kW. and is controlled by a toggle switch, marked HOT/COLD on the motor cover. The blower is provided with a length of cable and a 3-pole plug for connection to the socket outlet of the mains supply.

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ITEM 13

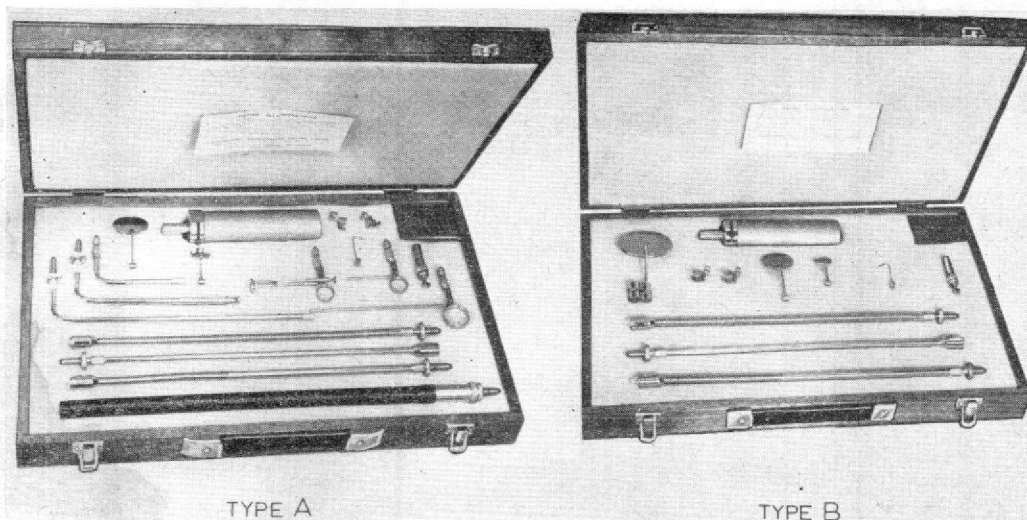
LAMP, INSPECTION, FLAMEPROOF, TYPE J**A.P. Reference** 4343G, Vol. I, Sect. 15, Chap. 14**Ref. No.** 5A/4682**Classification** 2**Overall dimensions****Height** $7\frac{3}{4}$ in.**Diameter** 4 in.**Weight** $3\frac{3}{4}$ lb.

Brief description This inspection lamp is used during ground servicing operations on aircraft where combustible vapours are known to be present. The lamp is mains-operated from a 230-volts a.c. supply, to which it is connected by a 60 ft. length of 3-core T.R.S. cable (5E/3924) terminating in a 3-pole 5A plug (5A/3751). The lamp can be used whilst standing on its base or whilst suspended by an attachment hook which, together with a carrying handle, folds into a recess in the base of the lamp when not in use.

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ITEM 14

TORCHES, ELECTRIC, PROBE ILLUMINATOR, TYPE A and B



A.P. Reference 4343G, Vol. 1, Sect. 15

Ref. No. 5A/4579 (Type A)
5A/4578 (Type B)

Classification 3

Overall dimensions of case (both types)

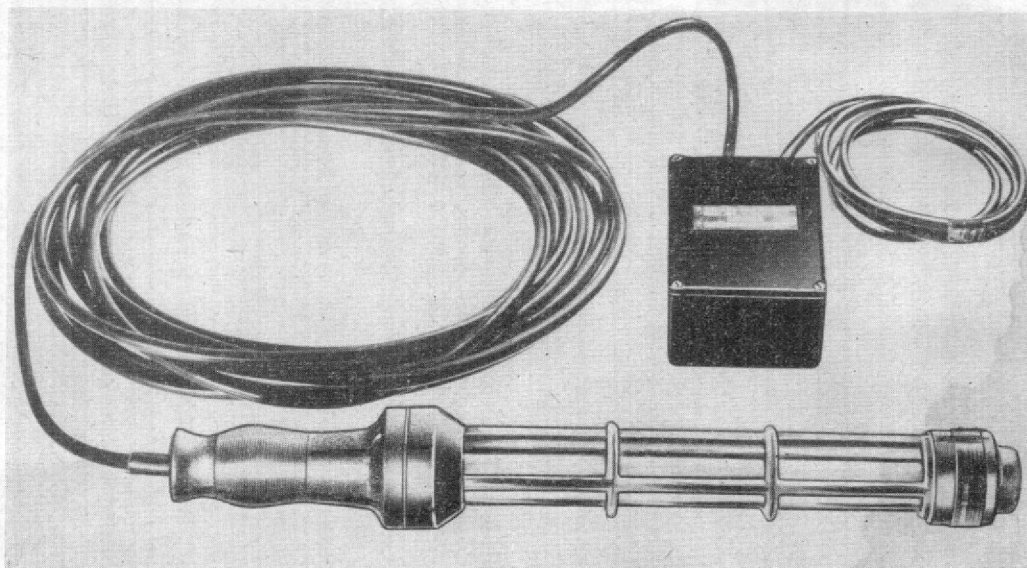
Length 1 ft. 7½ in. Width 1 ft. 0 in. Height 3 in.

Weight 6 lb. (approx.)

Brief description These torch illuminator sets are designed for the close inspection of inaccessible components, including threads and internal machining in blind holes. The Type A set includes a variety of probes, mirrors and attachments, some of the probes being fitted with magnifying lenses. A hook and a permanent magnet are provided to facilitate the recovery of small objects from tanks, sumps and other inaccessible places, and a perspex probe is included for the internal inspection of fuel tanks. The Type B set is less comprehensive than the Type A set but contains one additional mirror attachment.

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ITEM 15

**LAMP, INSPECTION, FLAMEPROOF,
TYPE K**

A.P. Reference 4343G, Vol. 1, Sect. 15

Ref. No. 5A/4739

Classification 2

Overall dimensions

Lamp	1 ft. 6 $\frac{3}{4}$ in. $\times$ 2 $\frac{1}{2}$ in.
Ballast unit	4 $\frac{3}{4}$ in. $\times$ 3 $\frac{3}{4}$ in. $\times$ 2 in.

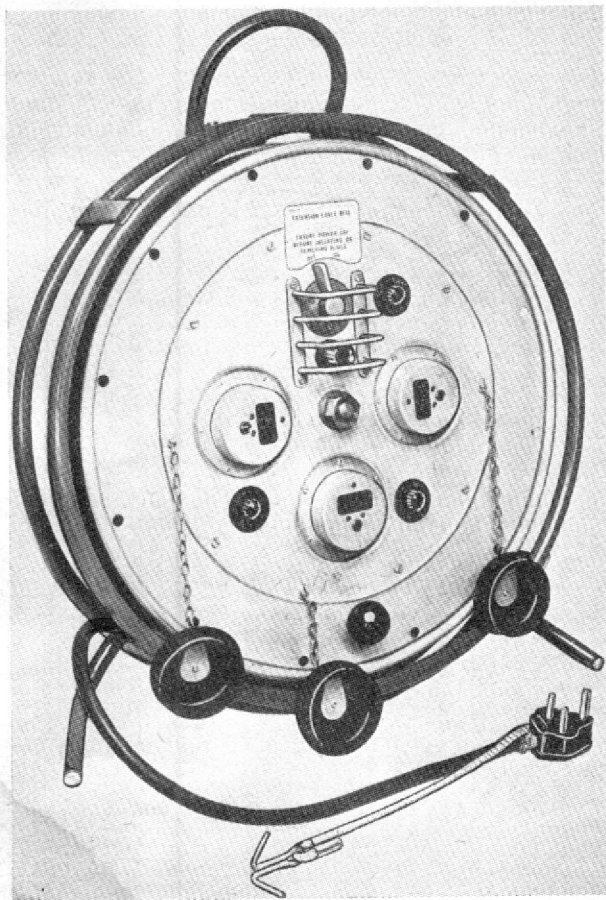
Weight (complete) 10 lb.

Brief description This flameproof inspection lamp is designed for use in hangars and servicing bays and in atmospheres where inflammable vapours may be present. It is fitted with an 8-watt fluorescent tube which provides adequate illumination at low operating temperatures. The lamp is supplied complete with a ballast unit and 9 ft. of 3-core cable for connection to a 230/250 v., a.c., supply and a 60 ft. length of screened 5-core cable which connects the ballast unit to the lamp. The ballast unit is not of flameproof construction and when in use it has to be 4 ft. 6 in. above the ground and at a minimum distance of 10 ft. from an aircraft or other source of combustible vapour.

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ITEM 16

REEL, EXTENSION CABLE, MK. 1



A.P. Reference 4343G, Vol. 1, Sect. 11

Ref. No. 5A/4803

Classification 2

Overall dimensions

Length 1 ft. 9 in. Width 8 in. Height 2 ft. 2 in.

Weight 30 lb.

Brief description This extension cable reel enables power to be provided for portable electrical equipment at distances up to 80 feet from a 230-volt single-phase supply. The maximum current distributed by the unit should not exceed 5 amperes. The reel consists of a metal drum which rotates on a spindle in a tubular frame and is fitted with three 5-amp. 3-pole socket outlets, three 5-amp. fuses, a neon indicator and a 15-amp. single-pole switch. An 80 ft. length of Trisheath 7 cable attached to the drum, terminates in a 3-pole 5-amp. plug for connection to a supply point.

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