

"Partridge Amplifier Circuits"

PRICE 2/- NETT

"Partridge Amplifier Circuits" is a companion volume to the "Partridge P.A. Manual" and shows how the theoretical considerations discussed in the latter are applied practically to improve quality and to reduce cost, size and weight of P.A. equipment. It contains many complete designs, including photographs, circuit diagrams, list of components, technical notes, hints on construction and advice on operation, of which the following examples indicate the wide and varied range covered:—

THE PARTRIDGE 2w BATTERY AMPLIFIER DESIGN:—

This amplifier provides quality comparable with that of mains equipment, and is intended for high class work where the mains are not available. In conjunction with an exponential horn, the volume obtained is equal to that usually associated with 12w A.C. amplifiers.

THE PARTRIDGE 6w A.C.-D.C. AMPLIFIER DESIGN:—

A.C.-D.C. valves are usually employed with a view to reducing cost. The Partridge design has quite a different object—it provides a quality amplifier that will operate direct from D.C. mains and gives results equal to those obtainable from A.C. equipment.

THE PARTRIDGE 12w QUALITY AMPLIFIER DESIGN:—

Designed for permanent installation, particular attention has been paid to fidelity, and a special circuit is incorporated for voicing the equipment. A short article deals with tone balance and the methods of correcting deficiencies caused by the acoustics of the locality.

THE PARTRIDGE ECONOMY 28:—

The most outstanding high efficiency circuit of the season. It incorporates the new Partridge Control Circuit (patent rights purchased and controlled by The Mullard Radio Valve Co., Ltd.), which enables 28w output to be obtained from an amplifier of the same cost, size and weight as the usual 12w chassis.

THE PARTRIDGE 45w AMPLIFIER DESIGN:—

This high power amplifier is readily transportable but is equally suited to permanent P.A. installations or radio relay work. Fully mains driven, special adjustment for equalizing the drive to the output pair, diode damping to the output grids, etc.

SPECIAL NOTICE

Owing to the high cost of experimental work necessary to produce the above book, it is not commercially possible to circulate complimentary copies to the trade. However, the designs show such a definite saving in cost compared with those published elsewhere that the author feels confident that no one will begrudge the nominal charge of 2/- nett.

Copies obtainable only direct from—

N. PARTRIDGE, B.Sc., A.M.I.E.E.

KING'S BUILDINGS, DEAN STANLEY STREET, LONDON, S.W.1.

TRANSFORMER PRICE LIST



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PARTRIDGE TRANSFORMERS

The rapidly changing technique of radio, television and public address has resulted in an enormous variety of circuit designs, each requiring some modification to the mains equipment. Under these circumstances it is obviously impossible to meet all requirements from stock and, rather than attempt so phenomenal a task, provision has been made to manufacture transformers and chokes to any specification within 24 hours. This splendid service has brought a great influx of business and the winding of items to customer's own specification is now the rule rather than the exception. No apprehension need be felt that a special winding will impede delivery or unduly influence the cost.

The following transformers and chokes having particularly popular specifications are always held in stock:—

Type No.	Specification.	List Price.	Postage.
TRANSFORMERS FOR VALVE RECTIFIERS:—			
T250/60	250-0-250v., 60 m.a., 4v. 1/2a., 4v. 2/4a.	13/-	8d.
T350/60	350-0-350v., 60 m.a., 4v. 2/2a., 4v. 2/4a.	15/6	10d.
T350/80	350-0-350v., 80 m.a., 4v. 2/2a., 4v. 2/4a., 4v. 1a.	19/6	11d.
T350/120	350-0-350v., 120 m.a., 4v. 2/3a., 4v. 3/6a., 4v. 1/2a., 4v. 1/2a.	23/-	1/-
T425/120	425-0-425v., 120 m.a., 4v. 2/3a., 4v. 3/5a., 4v. 1/2a.	23/-	1/-
T425/150	425-0-425v., 150 m.a., 4v. 2/4a., 4v. 4/8a., 4v. 1/2a., 4v. 1/2a.	31/-	1/-
T500/120	500-0-500v., 120 m.a., 4v. 2/4a., 4v. 3/6a., 4v. 1/2a., 4v. 1/2a.	31/-	1/-
Owing to the diversity of demand, larger transformers than the above are not held in stock, but are wound to order. The following notes will give an indication of the prices:—			
—	500-0-500v., 180 m.a., or equivalent wattage, with 60 watts L.T. in four windings	50/-	Car. fd.
—	500-0-500v., 300 m.a., or equivalent wattage, with 80 watts L.T. in four windings	68/6	Car. fd.
—	500-0-500v., 550 m.a., or equivalent wattage, with 100 watts L.T. in four windings	103/6	Car. fd.
STEP-UP OR STEP-DOWN AUTO TRANSFORMERS:—			
A60W	60 watt auto tapped 0-100-110-200-230-250v.	11/-	8d.
A100W	100 watt auto tapped 0-100-110-200-230-250v.	14/-	10d.
A200W	200 watt auto tapped 0-100-110-200-230-250v.	19/6	1/-
A400W	400 watt auto. Wound to order	39/6	Car. fd.
A600W	600 watt auto. Wound to order	55/-	Car. fd.
A1000W	1000 watt auto. Wound to order	92/-	Car. fd.
CONSTANT INDUCTANCE CHOKES:—			
C140/60	140 H., 60 m.a., 2500 ohms	18/-	9d.
C75/25	75 H., 25 m.a., 1400 ohms	8/6	6d.
C25/60	25 H., 60 m.a., 560 ohms	8/-	6d.
C22/120	22 H., 120 m.a., 350 ohms	11/6	8d.
C13/200	13 H., 200 m.a., 160 ohms	16/6	10d.
C8/120	8 H., 120 m.a., 225 ohms	7/6	6d.
MICROPHONE TRANSFORMERS:—			
M300/500	Suitable for 250 to 600 ohm microphones	21/-	8d.
M250/350	See Partridge P.A. Manual, page 24	21/-	8d.
M400/600	See Partridge P.A. Manual, page 24	21/-	8d.
Any other type can be supplied to order.			
INTERVALVE TRANSFORMERS:—			
IV60	See Partridge P.A. Manual, page 15	24/6	8d.
IV120	See Partridge P.A. Manual, page 15	35/-	10d.
IV240	See Partridge P.A. Manual, page 16	26/6	10d.
LINE TRANSFORMERS:—			
L4/I	See Partridge P.A. Manual, page 32	25/-	10d.

OUTPUT TRANSFORMERS

Partridge Output Transformers have found their way into every corner of the industry. Their superiority is an established fact making further descriptive matter superfluous. Reference should be made to the Partridge Manual in which will be found a brief technical résumé.

The requirements in this direction are if anything more varied than in the case of mains equipment and it is not possible to list any stock models. Partridge Output Transformers are wound only to order and every one is individually designed to suit its specific purpose. This is the only procedure that will ensure satisfactory operation in every case. When applying for a quotation, please give full details concerning the output valve or valves and speakers (see Partridge P.A. Manual, page 31).

Transformers and Chokes for the Equipment described in

"Partridge Amplifier Circuits"

(see back page)

Type No.	Description.	List Price.	Postage.
FOR THE PARTRIDGE 2w. BATTERY AMPLIFIER:—			
2W/IV	Intervalve Transformer	21/-	8d.
2W/O	Output Transformer. Any single ratio	17/-	8d.
	Partridge Series or Parallel Types (see Manual)	20/-	8d.
C75/25	Decoupling Choke	8/6	6d.
	Complete set of three components	49/6	Car. fd.
FOR THE PARTRIDGE 6w. A.C.-D.C. AMPLIFIER:—			
IV240	Intervalve Transformer	26/6	10d.
6W/O	Output Transformer. Any single ratio	21/6	10d.
	Partridge Series or Parallel Types (see Manual)	24/6	10d.
6W/SC	Smoothing Choke (very low resistance)	18/-	10d.
C25/60	Decoupling Choke	8/-	6d.
	Complete set of four components	77/-	Car. fd.
FOR THE PARTRIDGE 12w. QUALITY AMPLIFIER:—			
IV120	Intervalve Transformer	35/-	10d.
12WQ/O	Output Transformer. Any single ratio	30/-	1/-
12WQ/M	Mains Transformer	50/-	Car. fd.
C22/120	Decoupling Choke	11/6	8d.
C13/200	Smoothing Choke	16/6	10d.
	Complete set of five components	143/-	Car. fd.
FOR THE PARTRIDGE 12w. P.A. AMPLIFIER:—			
IV60	Intervalve Transformer	24/6	8d.
12W/O	Output Transformer. Any single ratio	21/6	10d.
	Partridge Series or Parallel Types (see Manual)	24/6	10d.
12W/M	Mains Transformer	30/-	1/-
12W/SC	Smoothing Choke	10/6	7d.
	Complete set of four components	89/6	Car. fd.
FOR THE PARTRIDGE ECONOMY 28:—			
IV60	Intervalve Transformer	24/6	8d.
28W/O	Output Transformer. Any single ratio	21/6	10d.
	Partridge Series or Parallel Types (see Manual)	24/6	10d.
28W/M	Mains Transformer	30/-	1/-
28W/SC	Smoothing Choke (low resistance)	10/6	7d.
	Complete set of four components	89/6	Car. fd.
FOR THE PARTRIDGE 30w. AMPLIFIER:—			
IV240	Intervalve Transformer	26/6	10d.
30W/O	Output Transformer. Any single ratio	34/6	1/-
	Partridge Series or Parallel Types (see Manual)	38/-	1/-
30W/M	Mains Transformer	50/-	Car. fd.
30W/SC	Decoupling Choke	8/6	6d.
30W/FC	Filter Input Choke (interleaved)	27/-	1/-
	Complete set of five components	150/-	Car. fd.
FOR THE PARTRIDGE 45w. AMPLIFIER:—			
IV240	Intervalve Transformer	26/6	10d.
45W/O	Output Transformer. Any single ratio	45/6	1/-
	Partridge Series or Parallel Types (see Manual)	50/-	1/-
45W/M	Mains Transformer	68/6	Car. fd.
45W/SC	Decoupling Choke	8/6	6d.
45W/FC	Filter Input Choke (interleaved)	27/-	1/-
45W/BC	Bias Smoothing Choke	8/6	6d.
	Complete set of six components	189/-	Car. fd.
FOR THE PARTRIDGE TWO-STAGE PRE-AMPLIFIER:—			
L2/I	Line Transformer	25/-	10d.
T.C.I	Tone Control Choke	21/6	8d.
	Set of two components	46/6	1/-

TERMS OF BUSINESS.—Strictly nett cash with order or C.O.D.

The cost of postage is indicated for the items under 15 lbs.; the heavier items (marked Carr. fd.) are despatched per Messrs. Carter, Paterson & Co., Ltd., carriage forward

IMPORTANT NOTE

The above components have been specially designed and produced for the circuits named. As fully explained in the Partridge P.A. Manual, the transformers and chokes for high efficiency circuits are very critical and it is false economy to attempt to employ spare components that happen to be on hand—it is highly improbable that they were designed in accordance with the trend of modern technique.