

INDEX TO SURPLUS

A comprehensive bibliography of magazine articles dealing with amateur radio use and conversion of surplus electronic equipment.

Over 600 articles published in the five major magazines from 1945 to 1961 are arranged by equipment type and date of publication.

73 MAGAZINE

QST CQ

ELECTRONICS WORLD

RADIO-ELECTRONICS

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FOREWORD

This compilation is dedicated to all amateurs who have, as has the writer, wasted countless hours searching for a remembered magazine article. The wealth of information that has been published on the amateur use of surplus electronic equipment will, if the appropriate reference can be identified, serve as a guide for almost any conversion project.

It has been necessary, in the preparation of this guide, to read, or at least scan, all amateur writings published since World War II. This task, if such it might be called, has resulted in a renewed appreciation of the many genuine contributions the amateur has made to the advancement of the art. The record is contained in our journals for all to read and know that we are indeed privileged to be a part of the amateur fraternity.

ROY E. PAFENBERG W4WKM

INTRODUCTION

During the last 15 years, an impressive number of articles dealing with amateur application and conversion of surplus military electronic equipment have been published in the amateur and popular radio magazines. The sheer volume of published information is confusing and even the most avid surplus advocate often has difficulty in locating a remembered surplus conversion article.

There is nothing more disheartening than to grope through a difficult conversion job and then discover that someone else had already been there and published a complete "how to do it" article. It is to fill this vacuum that this listing of surplus conversion articles has been prepared.

A discussion of the considerations leading to the selection of material and the format in which presented seems in order. To be of practical value, the periodicals in which the articles were published must be generally available to those who will dig them out. This has limited the selection to the more popular, nationally distributed magazines: 73 MAGAZINE, CQ, QST, ELECTRONICS WORLD (RADIO NEWS - RADIO & TELEVISION NEWS - RADIO & T.V. NEWS) and RADIO-ELECTRONICS (RADIO-CRAFT). Complete files are available in the larger libraries. Your own collection, local amateur clubs and your friends are other sources. Back issues are available from most publishers, however selection tends to be spotty.

Much thought has gone into the arrangement of this bibliography and it is believed that the format selected will be of greatest convenience to the majority of users. The listing is divided in sections, by equipment type or subject, arranged in alphabetical-numerical sequence. Individual articles are listed under these headings in reverse order of publication. The logic behind this is simple. A run through the major headings will locate a listing of all published articles on any given subject. If a specific article is desired, the approximate date of publication will be known and location is easy. If general information is desired, the articles are listed with the most modern material appearing first.

The choice of format for the individual entries presented problems. A "clean", uncomplicated layout is essential and maximum information must be provided. It is believed that the format selected is a good compromise. Title of the article, author, publication and date are essential and are presented first. The page number may be found in the index of the magazine and, since its inclusion complicates the entry, is not listed. Then, most difficult of all, remarks, in sufficient detail to permit identification of the article, must be included. These remarks are primarily factual although objective comment is sometimes made.

Terminology and nomenclature used for subject and category headings will make the military purist shudder. The type name selected is which appears to be in most general amateur use. Where absolutely necessary, cross reference is made and in rare instances, where an article deals with two or more equipments, duplicate entries occur. No attempt has been made to include a JAN or individual military service type of cross-reference.

Definition of the word "surplus" has determined the scope of this bibliography. While dealing primarily with military surplus, commercial surplus items in good supply and of value to the amateur have been included. On the other hand, although all amateur teletype operation is conducted with either commercial or military surplus equipment, articles on this subject are not listed. This field and the publications devoted to the art are so specialized that it is not practical to cover the subject in a general listing.

Errors or omission and commission are certain to creep into a work of this nature and magnitude. Readers are urged to send corrections and additions to the writer, in care of the publisher. These corrections and additions will be made and the listing brought current in future printings.

ABA-1 (G-43AAG) See: BC-645

AN/APA-38 PANADAPTOR
"CONVERSION OF THE AN/APA-38"
Sam Harris W1FZJ
CQ-July 1959 (VHF Column)

Conversion information on this surplus panadaptor. Full schematic is given along with modification details.

AN/APN-1 RADIO ALTIMETER
"A VERSATILE SWEEP FREQUENCY GENERATOR"
Robert M. Berler W2EPC
Radio & Television News-December 1951

A laboratory type instrument which covers 5 to 110 MC and features an electronic time base and intensity frequency marker.

AN/APQ-9 See: T-39/APQ-9

AN/APS-4 See: ID-11/APS-4

AN/APS-13 RADIO TRANSMITTER-RECEIVER
"420 ON A BUDGET"
Donald L. Stoner W6TNS
CQ-October 1955

In this conversion, the APS-13 transmitter is driven by a 5 watt, 2 meter rig. Receiver and transmitter are installed on a new chassis.

"OPERATING THE APS-13 ON 420 MC"
Joseph W. Addison WØPKD
QST-May 1948

Simple modifications put this "good buy" on 420 MC.

AN/APX-6 TRANSPONDER
"APX-6 ON 1296 MC"
Dick Stevens W1QWJ
QST-June 1961 (Hints and Kinks)

How to scoot this equipment up to the high end of the band.

"PRACTICAL OPERATING HINTS FOR 1215 MC"
Edward P. Tilton W1HDQ
QST-February 1961

Additional conversion information on the AN/APX-6.

"COMMUNICATION ON 1215 MC. WITH THE APX-6"
Edward P. Tilton W1HDQ
QST-September 1960

Practical conversion details enable amateur UHF work with this low cost surplus item.

AN/ARC-1 RADIO SET
"A SURPLUS 'COMMUNICATOR'"
Roy E. Pafenberg W4WKM
CQ-May 1960

This article describes, in detail, conversion of the AN/ARC-1 to an AC operated 2 meter transeiver. ←

AN/ARC-4 RADIO SET
"CONVERTING THE ARC-4 FOR TWO"
Lawrence M. Wood K2CSD
CQ-November 1955

A relatively easy conversion of this transmitter-receiver. Power supply information is given. ←

AN/ARC-5 See: COMMAND SET

AN/ARN-5 See:R-89/ARN-5

AN/ARN-7 RADIO COMPASS

"THE 'ULTIMATE' CW RECEIVER"
Robert R. Pittman and Gerald
Summers W5FKQ
QST-September 1952

Coils used from this direction finder give super-selectivity in the receiver described in this article.

AN/ARR-1 RADIO RECEIVER EQUIPMENT

"A 220 MC CONVERTER FROM THE
SURPLUS R-1/ARR-1"
L. W. May, Jr. W5AJG
Radio & Television News-January 1949

Practical conversion details for this surplus mystery.

AN/ARR-2 RADIO RECEIVING EQUIPMENT

"CONVERTING THE ARR-2"
Kenneth B. Grayson W2HDM
CQ-August 1959 (Surplus Column)

Details on putting this surplus bar-gain on 2 meters. The complete schematic diagram is provided.

AN/ART-13 RADIO TRANSMITTING SET

"NOTES ON CONVERSION OF THE
AN/ART-13"
Kenneth B. Grayson W2HDM
CQ-March 1960 (Surplus Column)

A bibliography of conversions for the AN/ART-13 and a discussion of the problems encountered.

"Q MULTIPLIER, S.S.B. Q5-ER AND
SOJ"
L. M. Temple W1DI
QST-September 1956

AN/ART-13 CFI Unit transformers are used in this QRM-beating combination.

"CONVERTING THE AN/ART-13 TO
SSB"
George W. Kindt W3VYY
CQ-August 1956

Conversion details on converting a converted AN/ART-13 to SSB linear operation.

"FREQUENCY STANDARD FROM A
C.F.I. UNIT"
A. W. Horst W9CUX
CQ-January 1949

This unit from the AN/ART-13 generates usable harmonics of 50 KC up through 10 meters. A power supply and harmonic amplifier are described.

"CONVERTED ART-13 SPEECH
AMPLIFIER WITH PEAK CLIPPER &
LOW-PASS FILTER"
W. M. Scherer W2AEF
CQ-December 1947

A compact and economical speech amplifier using the audio chassis from the AN/ART-13 transmitter.

"ANOTHER METHOD OF CONVERTING
THE ART-13"
R. D. Valentine W2GX and
Athan Cosmas W2PKD
CQ-February 1947

This conversion is a variation on the one described in the November, 1946 issue of CQ. The oscillator coil is pruned to give air frequency coverage of 3.4 to 30.6 MC.

"AUTOTUNE TRANSMITTER
AN/ART-13"
George Lichterman
Radio News-December 1946

A simple conversion and one of the first for this high-power aircraft transmitter.

"CONVERTING THE ART-13
TRANSMITTER"
Paul L. Rafford, Jr. W2GQM
CQ-November 1946

Lots of valuable information is contained in this early article on the AC conversion of the AN/ART-13 transmitter. 10 meter coverage is provided.

AN/CRC-7 RADIO SET

"CONVERTING THE AN/CRC-7"
Kenneth B. Grayson W2HDM
CQ-April 1958 (Surplus Column)

Data on converting this "tin can" transmitter-receiver to the 2 meter band. Get out the can opener.

AN/TRC-8 RADIO SET

"The AN/TRC-8 RECEIVER ON 2
METERS"
CQ-June 1960 (Surplus Column)

Extending the conversion (CQ-May 1960) of the R-48/TRC-8 to 2 meters. ←

"THE AN/TRC-8 RECEIVER ON
220 MC"
Kenneth B. Grayson W2HDM
CQ-May 1960 (Surplus Column)

A simple conversion of the R-48/
TRC-8 to AM and instructions for
alignment to 220 MC. ←

ARB RADIO COMPASS

"CONVERTING THE ARB"
Kenneth B. Grayson W2HDM
CQ-June 1958 (Surplus Column)

Conversion details on this Navy aircraft direction finder. AC power supply and front panel controls are features of this conversion.

ASB-5 RADAR RECEIVER

"ASB-5 RADAR RECEIVER TO 420 MC"
Donald L. Stoner W6TNS
CQ-October 1956 (Surplus Column)

A very fine conversion of this high performance receiver. Modification installs HFO tuning, a new front panel and audio system. AC power supply schematic is provided.

ASB-7 RADAR RECEIVER

"A 425 MC SUPER FROM THE NAVY'S
ASB-7"
L. W. May, Jr. W5AJG
Radio News-July 1947

A rack panel mounted conversion of this superior receiver. New audio system, S meter and AC power supply are featured in this conversion.

ATJ/ATK See: CRV-59AAE

B19 MARK II RADIO SET

"CONVERTING THE MARK II"
Louis H. Hippe W6APQ
Radio-Electronics-November 1951

The "boat anchor" conversion. This article tells how to put the "A" set on 75 meters and the "B" set on 2 meters. An AC supply is described.

BC-191 See: BC-375

BC-221 FREQUENCY METER

"USING THE BC-221 TO CHECK CB FREQUENCY"

R. L. Conhaim 19W7577
Electronics World-May 1961

"CONVERSION OF THE BC-221"

Kenneth B. Grayson W2HDM
CQ-April 1959 (Surplus Column)

BC-221 AS A CARRIER INJECTION GENERATOR FOR S.S.B."

Marlin R. King KP4RC
QST-March 1958 (Hints and Kinks)

"INTERPOLATION FREQUENCY MEASUREMENTS WITH THE BC-221"

Charles L. Riley, Jr. W1JYJ
QST-January 1956

"ADDING A BANDSPREAD RANGE TO THE BC-221 FREQUENCY METER"

Beverly Dudley
QST-August 1953

"REDUCED OUTPUT FROM THE BC-221-A FREQUENCY METER"

T. D. Koranye W2SFW
QST-July 1953 (Hints and Kinks)

"CRYSTAL CALIBRATION WITH THE BC-221"

Glenn H. Thomas
CQ-December 1952

"DEMOTHBALLING THE BC-221"

Richard E. Nebel W2DBQ
CQ-December 1950

"MEASURING FREQUENCY WITH THE BC-221"

Morris Dorsey W4KXX
CQ-December 1950

"MODULATING THE BC-221 FREQUOMETER"

W. S. Kemper W4KOF
Radio-Electronics-August 1950

Notes on improving the stability and accuracy of the BC-221. Complete schematic of one model is shown.

A tone modulator and AC power supply improve the utility of this popular instrument.

Another use for this versatile surplus instrument.

Simple modification improves the accuracy of this instrument tenfold.

3.5 to 4 MC coverage with accuracy to ± 10 cycles in the 80 meter band.

Modification permits accurate measurement of weak signals.

A simple trick for approximating crystal frequencies with the BC-221.

A rack mounting for the surplus, "chassis only" BC-221. Details are given on making a calibration book.

Special interpolation charts for the ham bands makes precise measurement a 10 second snap.

A modulator-power supply that is easy to build.

"NULL INDICATOR FOR THE BC-221"
W. A. M. Wood VE4MW
QST-May 1950 (Hints and Kinks)

A simple device helps find exact
zero beat. ←

"CALIBRATING A BC-221 FREQUENCY
METER"
Beverly Dudley
QST-March 1950

How to use harmonics for frequency
meter calibration.

"YOUR BC-221 AS AN AUDIO
GENERATOR"
Clifford E. Vogt W8NCO
QST-February 1950

Versatile application of this surplus
gem. ←

"A ONE-TUBE VFO AMPLIFIER"
Gerald T. White W3LTR
and L. W. Sieck W4KMG
QST-January 1950

Amplifier-power supply to convert
the BC-221 to a VFO. ←

"USING THE BC-221 FREQUENCY
METER AT V.H.F."
Henry H. Cross W100P
QST-January 1950 (Hints and Kinks)

A one tube harmonic generator for
the BC-221.

"TONE MODULATING THE BC-221"
John E. Pitts, Jr. W6CQK
CQ-August 1949

A simple modulator for the BC-221
permits identification of the fre-
quency meter signal.

"NULL INDICATOR FOR THE BC-221"
Joseph C. Juel W9BGC
CQ-October 1948

Simple circuit for visual null detec-
tion improves accuracy of the BC-
221.

"FREQUENCY METER DOUBLES AS
SSB AND CW DETECTOR"
Major Harry Longrich DL4RX/W2GGY
Radio & Television News-September 1948

"Front end" injection system uses
the BC-221 as the carrier oscillator.

"ADDING TONE MODULATION TO THE
BC-221 FREQUENCY METER"
Herb Carlson W3NHA
QST-May 1948 (Hints and Kinks)

Simple modification adds a valuable
feature to this popular item.

"ADDING TONE MODULATION TO THE
BC-221 FREQUENCY METER"
Chester B. Cunningham W3MHW
QST-May 1948

Another simple tone modulator for
the BC-221 frequency meter.

"DATA ON SURPLUS FREQUENCY
METERS"
Felix W. Mullings W5BVF
CQ-January 1948

Information on which models of the
BC-221 require audio stage modifi-
cation for AC operation.

"POWER SUPPLY FOR THE SCR-211
FREQUENCY METER"
Al Jackson W1NI
QST-May 1947 (Hints and Kinks)

A simple power supply with description and circuit.

"COMPACT POWER SUPPLY FOR THE
BC-221"
Russel Tighe W2ALH
CQ-April 1947

A simple power supply for the BC-221. WARNING: THE CHASSIS IS HOT!

"THE BC-221 FREQUENCY METER AS
A VFO"
Howard W. Johnson W7NU
QST-March 1947

Discussion of the concept along with application schematics.

BC-224 RADIO RECEIVER
"POWER SUPPLY FOR THE BC224
RECEIVER"
Joseph Zelle
Radio-Electronics-November 1950

A self-contained, AC supply for this 12 volt version of the BC-348.

BC-224 See: BC-348

BC-312 RADIO RECEIVER
"GETTING THE BC-312 AND BC-348
ON THE AIR"
Kenneth B. Grayson W2HDM
CQ-February 1959 (Surplus Column)

A series of converters for use with these receivers is described. Other conversion considerations are discussed.

"PHONE SELECTIVITY FOR THE
BC-312"
Howard L. Morrison W7ESM
QST-February 1954

Adding an FT-241 crystal filter to the BC-312.

"POWER FOR THE BC-312"
Guy Black
Radio-Craft-January 1948

A self-contained power supply for this surplus, 12 volt receiver.

BC-342 RADIO RECEIVER
"Q MULTIPLIER FOR THE BC-312
OR BC-342"
Harry K. Long W7CQK
QST-December 1958 (Hints and Kinks)

Modification of the Heathkit QF-1 Q Multiplier to permit use with these 470 KC IF receivers.

"CURING BACK-LASH IN THE BC-342"
K. G. Bucklin W2CDP
QST-June 1952 (Hints and Kinks)

Simple mechanical adjustment solves this problem.

"FURTHER IMPROVEMENTS IN THE
BC-342"
R. M. Smith W1FTX
QST-August 1951 (Hints and Kinks)

New IF transformers pep up this receiver.

"THE Q5-ER"

Philip S. Rand W1DBM
QST-December 1947

Notes on improved selectivity for the BC-342 and construction details for an outboard, 175 KC IF system.

"REVAMPING THE BC-342"

George Grammer W1DF
QST-September 1946

Modifications for more effective amateur use of this receiver.

BC-348 RADIO RECEIVER

"BC-348 ALIGNMENT"

Garnet W. Frank
QST-July 1959 (Hints and Kinks)

IF alignment precautions to avoid shorting out the transformers.

"NEW LIFE FOR THE BC-348"

Richard Panosh K9KYV
CQ-May 1959

An S meter and crystal phasing control for this receiver.

"TNS, AUDIO AMPLIFIER AND POWER SUPPLY FOR THE BC-348"

Kenneth B. Grayson W2HDM
CQ-March 1959 (Surplus Column)

Schematic diagram of the BC-348 along with conversion information and circuit refinements.

"GETTING THE BC-312 AND BC-348 ON THE AIR"

Kenneth B. Grayson W2HDM
CQ-February 1959 (Surplus Column)

A series of converters for use with these receivers is described. Other conversion considerations are discussed.

"NOTE ON SURPLUS TYPE BC-348 RECEIVERS"

George S. Carson W6JV
QST-September 1957 (Hints and Kinks)

These tips improve calibration and add a BFO trimmer for SSB reception.

"IMPROVING THE SELECTIVITY OF THE BC-348 - WITHOUT PAIN"

Joseph L. Boswell W7KEG
CQ-September 1956

How to use the BC-946 Command Set receiver as a Q5-er for the BC-348.

"DOUBLE CONVERSION USING THE BC-348"

Jack Ditton W3KQJ
QST-June 1954 (Hints and Kinks)

Using the 200-500 KC range of the BC-348 as a tunable IF for converters.

"A NEW, SIMPLIFIED Q5-ER"

Robert H. Weitbrecht W6NRM/W9TCJ
CQ-July 1953

BC-453 IF transformers are used in this "down-up-down" converter for use with the BC-348. Though not developed in this article, the writer had modern "pass-band" tuning within reach.

"MODIFYING TUNING RANGE OF THE BC-348"

Jack G. Hines W5GAB
QST-January 1952 (Hints and Kinks)

Practical method of providing 10 meter coverage with this popular receiver.

"CURING BACKLASH IN BC-348 RECEIVERS"

Norman E. Blackie W6WNZ
QST-January 1951

"TRIPLE CONVERSION WITH THE BC-348"

C. R. Wade W9HZZ
CQ-November 1950

"BROADCAST-BAND COVERAGE WITH THE BC-348-Q"

Victor Alfonsi W2VSV
QST-September 1949 (Hints and Kinks)

"LOW IMPEDANCE COUPLING TO THE BC-348"

Robert H. Mitchell W4RQR
CQ-July 1949

"ADDITIONAL BC-348-P GAIN AND SELECTIVITY"

Jack Najork W2HNH
CQ-April 1949

"14 AND 21-MC BANDSPREAD FOR THE BC-348"

Robert W. Ehrlich W9SMV
CQ-December 1948

"CURING NOISE-LIMITER PROBLEMS

R. Wayne Parcel
QST-November 1948

"REDUCING RECEIVER DRIFT"

Floyd Gardner W9BQJ
CQ-October 1948

"A Q5-ER FOR BC-348 OWNERS ... BUILDING A SIMPLE CONVERTER"

William W. Orr W2OWA
QST-June 1948

"A Q5-ER FOR BC-348 OWNERS ... BY ADDING SERIES PADDERS"

G. M. Kosolapoff
QST-June 1948

"A Q5-ER FOR BC-348 OWNERS ... CONVERTING WITH AN EXTERNAL OSCILLATOR"

Philip S. Rand W1DBM
QST-June 1948

Adjustment takes care of this problem.

The BC-453 and a converter, mounted in the ex-dynamotor compartment, team up with the BC-348 for Q5-er performance.

Simple converter for use with surplus receivers.

A simple capacitive network greatly improves performance of the BC-348 when used with coaxial cable input.

This writer states that, by picking up the 915 KC IF of the BC-348 on a standard broadcast receiver, improved performance will result.

The modification is simple but the work lies in getting into the RF boxes.

One answer to noise limiter problems with the BC-348-P.

Curing drift in the BC-348 with negative temperature coefficient capacitors.

External converter shifts the IF of the BC-348 to within the tuning range of the BC-453 Command Set receiver.

Simple modification of the BC-453 to permit operation on the 915 KC IF of the BC-348.

Using an external crystal oscillator and mixing in the BC-453 RF stage to permit use with the BC-348 receiver.

"A Q5-ER FOR BC-348 OWNERS ...
MODIFYING THE COILS"
Marv Gonsior W6VFR
QST-June 1948

"S' METER CALIBRATION TECH-
NIQUES FOR COMMUNICATIONS
RECEIVERS"
Robert M. Berler W2EPC
Radio News-April 1948

"SO I BOUGHT A BC-348-Q"
J. H. Owens W2FTW
CQ-April 1948

"ELIMINATING BACK-LASH IN THE
BC-348 RECEIVERS"
Kenneth A. Jenkins W6OYM
QST-February 1948 (Hints and Kinks)

"CALIBRATING THE BC-348"
A. F. Prescott, W8DLD
QST-November 1947

"A FURTHER NOTE ON THE BC-348-Q"
Paul M. Kersten, M. D. WØWIT
QST-November 1947

"MODIFYING THE BC-348-O"
W. B. Bernard W3IWX
QST-November 1947

"SERVICING XTAL FILTERS IN THE
BC-348"
QST-August 1947 (Hints and Kinks)

"THE DIALLESS CONVERTER"
James H. Creutz W2PMQ and
Donald F. McAvoy W2PRT
QST-June 1947

"CONVERTING THE BC-348-Q"
Paul M. Kersten WØWIT
QST-January 1947

BC-357 RADIO RECEIVER

"THE HAM ALARM"
Hartland B. Smith W8VVD
CQ-April 1958

Reworking the BC-453RF coils to
permit operation on the BC-348 IF of
915 KC.

S meter circuits and adjustment tech-
niques are discussed with the BC-348
as the example.

Major modification of the BC-348 in-
cludes IF transformer changes, re-
moval of the crystal filter, audio am-
plifier and AVC circuit changes. Lots
of work.

A simple answer to an old problem.

A new tuning knob and auxiliary dial
are described along with a calibra-
tion method for the BC-348.

Notes on antenna input changes and
substitution of an 1852 tube in the
front end.

AC power supply, noise limiter and
other modifications for this variation
of the BC-348.

Repair of heat induced failure of the
BC-348 crystal filter.

10 and 11 meter converters designed
for installation in the dynamotor well
of the BC-348.

Description and schematic diagrams
of circuit changes. No original
schematic.

This bargain priced marker-beacon
makes a carrier operated, Auto-Call
unit.

- "THE MIGHTY MIDGET"**
H. L. Apple W4HER
CQ-March 1948
- BC-375 RADIO TRANSMITTER**
"A BANDSWITCHING, LOW COST
400 WATT LINEAR"
Howard L. Morrison W7ESM
CQ-May 1961
- "150 WATTS CW FOR 80-40 AND 20"**
Norman S. Howard W1JBV
CQ-May 1960
- "A 6 INPUT COAXIAL SWITCH"**
Ken "Judge" Glanzer K7GCO
CQ-July 1959
- "TABLE TOP LINEAR"**
N. R. McLaughlin W3LNT/KH6
CQ-January 1959
- "HIGH POWER MOBILE"**
Joseph Marshall W3SNA
CQ-May 1957
- "THE O-T TRANSMITTER"**
G. L. Countryman W3HH
CQ-September 1955
- "MY 'FINAL' EXCITER"**
Carlton G. Rich W8ZYG
CQ-December 1954
- "A BANDSWITCHING 813 RIG WITH**
PI-SECTION OUTPUT"
Robert M. Resconsin W1TRF
QST-June 1954
- "CAPACITANCE OF BC-375-E**
TUNING CONDENSERS"
W. E. McCormick W5KMA
QST-September 1951 (Hints and Kinks)
- "A V.H.F. FREQUENCY METER"**
David Birnbaum W3PGP
QST-October 1950
- "ANTENNA TUNER FROM THE**
BC-375E"
R. J. Rodenbo W8YPG
CQ-February 1950
- An all-band transmitter with the BC-357 as an enclosure.
- Liberal use of BC-375 and Command Set transmitter components keeps this amplifier in the budget class.
- This commercial appearing transmitter makes extensive use of BC-375 parts.
- BC-375 tuning unit tap switch is the heart of this heavy duty antenna switch.
- This 900 watt PEP amplifier uses BC-375 components and 5 837 tubes.
- BC-375 parts and a fan-belt driven PE-73 team up for high power mobile operation.
- Extensive use of BC-375 tuning unit parts is made in this medium power triode final.
- This beat frequency exciter uses a BC-375 tuning unit as a foundation and enclosure.
- An extremely popular transmitter which uses many BC-375 components.
- Handy identification chart for these unmarked surplus units.
- BC-375 tuning unit serves as the enclosure for a versatile instrument.
- How to use the BC-375 antenna coupling circuit and components as a universal antenna matching unit.

"LOW DRIFT CONDENSERS FROM THE BC-375-E"

R. V. McGraw W2LYH
QST-October 1949 (Hints and Kinks)

A source of low temperature coefficient units for your VFO.

"ANTENNA SWITCH FROM THE BC-375-E"

C. Vernon Chambers W1JEQ
QST-August 1949 (Hints and Kinks)

Heavy duty unit serves as the station antenna switch.

"A NEW LOW-COST TRANSMITTER"

Carlton G. Rich W8ZYG
Radio-Electronics-June 1949

75 watt VFO rig covers 80-40 and 20 meters. Extensive use is made of BC-375 parts.

"THE BC-375E STRIPS FOR ACTION"

Jim Kirk W6DEG
CQ-May 1949

This reasonable conversion of the BC-375 uses an 826 in the final.

"A MODERN VARIABLE FREQUENCY OSCILLATOR"

Robert C. Merryman W3FBB
Radio & Television News-December 1948

A modern VFO built around the TU-6-B tuning unit.

"TEN METER FINAL FROM TU-10-B"

L. W. May W5AJG
Radio-Electronics-November 1948

A simple, 200 watt final which uses this surplus turning unit as the foundation.

"A SURPLUS-PARTS BANDSWITCHING TRANSMITTER"

C. Vernon Chambers W1JEQ
QST-September and October 1948

Construction details of a 7 band, 150 watt transmitter from surplus. BC-375 tuning unit parts are used extensively.

"TRANSMITTER-RECEIVER FROM SURPLUS TUNER"

C. E. Clark W1KLS
Radio News-November 1947

A TU-6-B tuning unit is used to house this 1 tube transmitter and 2 tube receiver.

"A VARIABLE FREQUENCY OSCILLATOR:"

Robert W. Field W4KAP
Radio News-September 1947

A 3 to 4 MC VFO, of good construction, using the TU-5-B tuning unit.

"AN INEXPENSIVE CRYSTAL SUBSTITUTE"

Harold W. Harrison W5DFZ
QST-July 1947

Construction details on a VFO using a BC-375 tuning unit.

"WHAT ABOUT THE BC-375-E?"

Richard M. Smith W1FTX
QST-December 1946

Circuit details, discussion and conversion data. Original schematic is not provided.

- BC-406 RADAR RECEIVER
 "LOW COST HIGH FREQUENCY SUPERHET"
 Henry Geist W3AOH
 CQ-February 1946
 Complete conversion details on how to put this VHF radar receiver on 10 meters.
- BC-412 RADAR INDICATOR
 "CONVERTING THE BC-412"
 Lyman E. Greenlee
 Radio-Craft-October 1946
 A scope from this radar indicator. Heavy too.
- BC-603 RADIO RECEIVER
 "CONVERTING THE BC-603"
 Kenneth B. Grayson W2HDM
 CQ-December 1959 (Surplus Column)
 Information on adding an AC power supply and aligning the unit to the 36 to 50 MC band.
- "BC-603 AM DETECTOR CIRCUIT"
 Kenneth B. Grayson W2HDM
 CQ-December 1958 (Surplus Column)
 Circuit of a simplified AM detector circuit for the BC-603.
- "CONVERTING THE BC-603"
 Kenneth B. Grayson W2HDM
 CQ-October 1958 (Surplus Column)
 Further conversion of the BC-603 narrows up the IF and changes from FM to AM detection.
- "CONVERTING THE BC-603"
 Kenneth B. Grayson W2HDM
 CQ-September 1958 (Surplus Column)
 This conversion adds an AC power supply and puts the receiver on the 6 meter band.
- BC-604 RADIO TRANSMITTER
 "CONVERTING THE BC-604"
 Kenneth B. Grayson W2HDM
 CQ-November 1960 (Surplus Column)
 A reasonably practical conversion of this \$4.95 wonder puts it on 10 or 15 with 30 watts.
- BC-605 AUDIO AMPLIFIER
 "AN INTERCOM FROM THE BC-605"
 Daniel Scholman
 Radio & Television News-April 1950
 A simple conversion of this armored vehicle audio amplifier.
- BC-610 RADIO TRANSMITTER
 "SINGLE SIDEBAND WITH THE BC-610"
 R. H. Mitchell W5DWT
 QST-November 1955
 Conversion details on this high power surplus rig.
- "CHASING THE TENNESSEE VALLEY INDIANS OUT OF THE BC-610 TRANSMITTER"
 Lester C. Harlow W4CVO
 QST-May 1951
 How to "button up" this popular transmitter.
- "ELIMINATING TVI CAUSED BY THE BC-610"
 R. H. Mitchell W4RQR/5
 Radio & Television News-April 1951
 Practical methods of reducing spurious output from this high power harmonic generator.

"CURE FOR 'TALK-BACK' IN THE BC-610"
J K. Hall, Jr. W4KCT
QST-September 1949 (Hints and Kinks)

Things are not always what they seem, and this is true of this BC-610 problem. Relay circuit modification cures this.

"DATA ON THE BC-610 TANK COILS"
Eugene Black, Jr. W2ESO
CQ-September 1949

Use and modification data on the BC-610 tank coils for the amateur bands.

"A MODIFICATION OF THE BC-610 EXCITER UNIT"
Lt. Col. C. R. Offringa, USAF W4CT
QST-July 1948

Construction details of an exciter using BC-610 tuning units.

BC-624 See: SCR-522

BC-625 See: SCR-522

BC-645 IFF TRANSPONDER
"THE BC-645 - A 420 MC TRANS-
CEIVER FOR THE TECHNICIAN"
Donald L. Stoner W6TNS
CQ-December 1956

A step by step conversion of this popular unit. OK for local work, as the writer points out.

"OPERATING THE BC-645 ON 420 MC"
John T. Ralph and H. M. Wood W3JYA
QST-February 1947

An "essentially painless" conversion of the BC-645. No schematic diagram of the original equipment is provided.

BC-654 See: SCR-284

BC-659 RADIO RECEIVER AND TRANSMITTER
"BA-41 FOR THE BC-659"
Kenneth B. Grayson W2HDM
CQ-September 1959 (Surplus Column)

How to use standard batteries in lieu of this "hard to get" surplus item.

"MORE ON THE BC-659"
Kenneth B. Grayson W2HDM
CQ-June, 1959 (Surplus Column)

A modulator and AM detector for the conversion described in the May, 1959 issue of CQ.

"USING THE BC-659"
Kenneth B. Grayson W3HDM
CQ-May 1959 (Surplus Column)

Alignment data for 10 meter, FM operation of this battery powered, portable transceiver.

BC-669 RADIO RECEIVER AND TRANSMITTER
"OPERATION REBUILD: THE BC-669"
Frank A. Mohler W2IAZ
CQ-July 1961

A comprehensive treatment on converting the BC-669 to amateur operation.

BC-683 See: BC-603

BC-684 See: BC-604

- BC-733 LOCALIZER RECEIVER
 "CONVERTING THE BC-733"
 Kenneth B. Grayson W2HDM
 CQ-October 1959 (Surplus Column)
- BC-746 TRANSMITTER-RECEIVER
 "A V.F.O. FOR ONLY A FEW CENTS"
 I. Pickell W3PPQ
 CQ-March 1954
- "A BANTAM 1-WATTER"
 QST Staff
 QST-January 1948
- BC-779 RADIO RECEIVER
 "THE ULTIMATE CONVERSION OF
 THE SUPER PRO RECEIVER"
 Charles E. Reed W6FHB
 CQ-April 1961
- "POWER FOR THE OLD PRO"
 Jim Kyle K5JKX/6
 73 Magazine-February 1961
- "DOWN WITH DRIFT"
 Jim Kyle K5JKX/6
 73 Magazine-January 1961
- "SAVE YOUR SUPER-PRO FOR SSB"
 Commander Paul H. Lee W3JHR
 CQ-September 1958
- "SERVICE NOTES ON SOME
 HAMMARLUND RECEIVERS"
 Frank Lester W2AMJ
 QST-February 1957 (Hints and Kinks)
- "IMPROVING STABILITY OF H-F
 OSCILLATOR IN THE BC-779 RECEIVER"
 L. W. Stockton
 CQ-October 1952
- "IMPROVING RECEIVER STABILITY"
 James N. Whitaker W2BFB
 CQ-May 1948
- BC-788 RADIO ALTIMETER
 "FUN ON 420 WITH THE BC-788"
 Fred D. Clapp W6DSZ
 QST-July 1948
- BC-794 See: BC-779
- Modifying this surplus bargain for
 2 meter operation.
- A compact VFO using components of
 a BC-746 tuning unit.
- A miniature rig using a BC-746
 tuning unit.
- Internal power supply and all the
 desired refinements are covered in
 this detailed conversion article.
- An easily constructed power supply
 for the Super Pro purchased less the
 power chassis.
- Temperature compensation applied to
 the vintage Super Pro gives great
 improvement in stability.
- A product detector, hang AVC and
 high frequency oscillator stabiliza-
 tion are covered in this article.
- Details on stabilization of the HFO
 and improvements in the limiter-
 audio circuits.
- Simple modification adds voltage
 regulator.
- A new type HFO tube and main tuning
 capacitor adjustment make great im-
 provement in frequency stability.
- Details for putting this equipment on
 420 MC phone. The original schematic
 diagram is not provided.

BC-929 INDICATOR

"THE SUPERSIMPLESCOPE"
John W. Campbell, Jr. W2ZGU
CQ-November 1957

A good argument for use of the basic scope as an accurate, wideband meter. A converted BC-929 does the job.

"CONVERTING THE BC-929A
OSCILLOSCOPE"
Stephen Popp W9JFX
QST-August 1957

A low cost scope from surplus.

BC-1004 See: BC-779

BC-1068 IFF RECEIVER

"2 METER CONVERSION OF THE 1068-A"
Charles B. Ware W3GQS
CQ-June 1948

A good conversion of this still available IFF unit.

"A GOOD TELEVISION FROM WAR
SURPLUS"
Ernest J. Schultz W2MUU
Radio-Craft-January 1948

A converted BC-1068 IFF receiver is the heart of this television set.

BC-1158 TRANSMITTER-MODULATOR

"CONVERTING THE BC-1158"
Walt Burdine W8ZCV
CQ-January 1957 (Novice Column)

Complete conversion data, including schematic diagrams, for putting this little gem on 6 meters.

"ON SIX METERS WITH THE TU-75-A"
Walt Burdine W8ZCV
CQ-January 1956

A 6 meter conversion of this plug-in tuning unit for the BC-1158 transmitter-modulator.

BC-1206 RADIO RANGE RECEIVER

"CONSOLAN - WHAT IS IT?"
Elbert Robberson
Radio-Electronics-March 1961

This article describes the CONSOLAN navigation system and outlines use of the BC-1206 for this purpose. A schematic diagram of the BC-1206 is given.

"A.C.-D.C. CONVERSION OF THE
BC-1206"
O. L. Woolley W0SGG
Radio & Television News-June 1950

A simple conversion of this pauper's Q5-er.

BC-1284 AMPLIFIER

"LIGHTHOUSE PRESELECTOR"
Maurice Gutman W2VL
CQ-March 1947

This, at that time, "state of the art" amplifier is converted for 6 to 10 db improvement in signal-to-noise ratio in the 2 meter band.

BC-1335 RECEIVER-TRANSMITTER

"CONVERTING THE BC-1335 TO AM"
Kenneth B. Grayson W2HDM
CQ-July 1959 (Surplus Column)

Complete schematic diagram and conversion data for AM operation of this SCR-619 unit.

- "BC-1335 TO SIX"**
Kenneth B. Grayson W2HDM
CQ-December 1958 (Surplus Column)
- "USING THE BC-1335"**
Kenneth B. Grayson W2HDM
CQ-December 1957 (Surplus Column)
- BD-77 DYNAMOTOR**
"HIGH POWER MOBILE"
Joseph Marshall W3SNA
CQ-May 1957
- "A HIGH POWER MOBILE SUPPLY"**
Frank Kirby W6WI
CQ-September 1951
- BN IFF TRANSMITTER-RECEIVER**
"AN INEXPENSIVE 2 METER CONVERTER FROM THE BN-IFF"
Donald L. Stoner W6TNS
CQ-November 1956
- C-161 COIL**
"APPLIED HYBRID HUSBANDRY"
Joseph A. White W5KMH
CQ-September 1958
- "HYBRID HUSBANDRY"**
Captain Sidney S. Rexford W2TBZ
CQ-November 1957
- COMMAND SET ANTENNA RELAY UNIT**
"CONVERTING THE BC-442 ANTENNA RELAY"
Severn T. Green K8MSF
CQ-March 1960
- "WHAT HAS HAPPENED TO THE RF AMMETER"**
Howard S. Pyle W7OE
CQ-July 1958
- "THE LOW DOWN ON THE BC-442-A"**
John T. Frye W9EGV
Radio-Electronics-April 1953
- "S METER FROM SURPLUS"**
G. H. Hauge
Radio-Electronics-June 1952
- Detail on how to convert this unit to 6 meter operation.
- Alignment data for 11 meter operation and a very mild conversion for use on 10 meters
- A fan-belt driven BD-77 and BC-375 components team up for high power mobile operation.
- Mobile power supply considerations are discussed and a fan-belt driven BD-77 installation is described.
- Converting the "front end" of the BN IFF to a 2 meter converter.
- A practical, hybrid phone patch using surplus C-161 telephone coils.
- A complete discussion of phone patch problems and one derived answer. Surplus C-161 coils are used in a hybrid.
- This unit converts nicely to a coaxial type, antenna relay with built in AC power supply.
- The BC-442 is repackaged to provide an RF ammeter for coaxial lines. The old timer discusses the advantages of the RF ammeter.
- Details on using BC-442 components. Calibration charts are given for the meter, thermocouple and transformer.
- How to use the meter from the BC-442 as an S meter.

"UNDER-THE-DASH MOBILE TRANSMITTER FOR 75-METER PHONE OPERATION"
O. M. Lowery W4MMK
CQ-July 1950

Use of the BC-442 case as a chassis-enclosure makes this miniature rig possible.

COMMAND SET DYNAMOTORS
"SOME USES FOR THE SCR-274 DYNAMOTORS"
Elmo V. Boswell W9PXW
QST-September 1949 (Hints and Kinks)

These 28 volt dogs convert to AC motors.

"SOME USES FOR THE SCR-274 DYNAMOTORS"
Richard M. Smith W1FTX
QST-September 1949 (Hints and Kinks)

Use of these units as pillow blocks for beam antennas.

COMMAND SET RECEIVERS
"AUDIO BOOSTING THE COMMAND RECEIVERS"
Art Korn K8HDR
73 Magazine-April 1961

Audio circuit changes to improve the Command Set receivers for amateur applications.

"THE BC-453 AS A TUNABLE I.F. IN A MULTI-BAND RECEIVER"
Carl H. Ericson W2PPL
QST-February 1961

An improved version, with better performance, of the writers original conversion. A lot for your money.

"NOT JUST A NOVELTY"
Davis A. Helton W9PME
QST-January 1961

The BC-455 contributes to this mobile CQ installation.

"FOR THE COMMAND RECEIVER: NOISE LIMITER, A.V.C., AND S METER"
Lewis G. McCoy W1ICP
QST-December 1960

Refinements for the Command Set receivers. W1ICP describes the treatment for the BC-445.

"50 AND 144-MC. RECEPTION AT LOW COST"
Lewis G. McCoy W1ICP
QST-November 1960

This article describes crystal controlled converters for use with the BC-455 as a tunable IF.

"A COMPLETE 80-METER C.W. STATION USING SURPLUS UNITS"
David L. Cabaniss W1TUW
QST-June 1960

Complete details on a package station using the BC-454 and the BC-696.

"INEXPENSIVE AND EASY AMATEUR RECEPTION"
Lyle Parsons W7HLU
CQ-March 1960

A Command Set receiver conversion with bandsread modification and a tuning range of 6950 to 7330 KC.

"A POOR MAN'S Q MULTIPLIER"
Lewis G. McCoy W1ICP
QST-March 1960

"TWO-BAND COVERAGE WITH THE
BC-454"
Yardley Beers W2AWH
QST-January 1960

"A 3 BAND COMMAND RECEIVER"
Louis L. Brent W9UC
CQ-January 1960

"A PHASING-TYPE SIDEBANDER"
Adelbert Kelley W4EEU
QST-November 1959

"TUNABLE-I.F. RECEIVER USING THE
BC-453"
Carl H. Ericson W2PPL
QST-September 1959

"AN ARC-5 TRIPLE SUPERHET"
Frank S. Gue VE3DPC
QST-August 1959

"80 THROUGH 6 WITH THE BC-454"
Lewis G. McCoy W1ICP
QST-May 1959

"BANDSPREADING THE BC-455"
Hovey M. Cowles W3JWZ
QST-April 1959 (Hints and Kinks)

"A 6 METER TRANSMITTER-RECEIVER"
Joel Ross K2HXS
CQ-April 1959

"GETTING STARTED WITH THE BC-454"
Lewis G. McCoy W1ICP
QST-January 1959

"USING THE GONSET SUPER-SIX
AHEAD OF A COMMAND RECEIVER"
Ronald E. Delp W6DAW
QST-April 1958

"THE COMMAND TWINS"
Rolf Schick DL3AO
CQ-February 1958

Improved selectivity for the BC-454
and BC-455 with controlled IF re-
generation.

Coil modification gives 80 and 40
meters with the BC-454. Coil data is
given for all bands from 1.7 to 56
MC.

A BC-453 and converter package is
described in detail.

Use of Command Set components re-
duces the cost for this version of the
"Sideband Package".

This up-dated surplus receiver, in
an economical package, meets modern
standards of performance.

The BC-453, BC-454 and the BC-455
team up in this bargain basement,
high performance receiver.

Data on converters for all band use
with the BC-454 as a tunable IF.

After this modification, 40 meters
covers 2 1/2" on the dial.

Home built transmitter, International
Crystal FCV-1 converter and the
BC-455 make up this neat mobile
installation.

Conversion details on an 80 meter
receiver described in simple
language.

A low cost combination provides lots
of results with little work.

The BC-454 and BC-453 combine for
budget SSB receiver on 14, 21 and 28
MC.

"CHEAP DOUBLE CONVERSION"

A. W. McAuly W3CEO
CQ-September 1957

"THE R-28/ARC-5 FOR TWO METERS"

Donald L. Stoner W6TNS
CQ-June 1957 (Surplus Column)

**"A COMMAND SET SIX METER
TRANSCIVER"**

Donald L. Stoner W6TNS
CQ-March 1957 (Surplus Column)

**"PRODUCT DETECTOR FOR COMMAND
RECEIVERS"**

Charles McDowell W4JJX
QST-December 1956 (Hints and Kinks)

**"IMPROVING THE SELECTIVITY OF THE
BC-348 - WITHOUT PAIN"**

Joseph L. Boswell W7KEG
CQ-September 1956

"THE SINGLE SIDEBAND Q5-ER"

Donald L. Stoner W6TNS
CQ-September 1956

**"A NINE-TUBE AMATEUR-BAND RE-
CEIVER WITH 3-KC SELECTIVITY"**

Emory E. Toops W9HLH
QST-March 1956

"THE NOVICE Q5-ER"

Donald L. Stoner W6TNS
CQ-January 1956

"RESISTOR HINTS"

E. M. Fry K2CW
QST-July 1955 (Hints and Kinks)

**"BETTER SELECTIVITY IN MOBILE
RECEPTION"**

Ray A. Tell W2TZI
QST-June 1955

"THE ARC-5 REPACKAGED"

W. B. Bernard K6EUS
CQ-March 1955

**"A MOBILE S.S.B. RECEIVER FOR 80
AND 40"**

Robert A. Thomason W4SUD
QST-March 1955

RF coils for the BC-455 are rewound for 10 meter coverage and the 2830 KC IF fed to the station receiver.

A mobile, 2 meter, fixed frequency conversion of this VHF Command receiver.

The BC-654 Command Set receiver with the International Crystal FCV-1 converter and FO-6 oscillator make this six meter package.

This modification gives excellent SSB reception with the Q5-er.

How to use the BC-946 Command Set receiver as a Q5-er for the BC-348.

An outboard Q multiplier and 80-40-20 meter converter for use with the Novice Q5-er (CQ-January, 1956).

This high performance receiver makes full use of BC-453 components.

An outboard converter covers an easy 80 and 40 with the BC-453. Conversion of the BC-453 is covered in detail.

Precautions to observe with Command Set resistors.

The R-23/ARC-5 as a Q5-er for the Gonset converter gives good mobile performance.

This Command Set receiver is stripped and rebuilt, with several refinements, on a 3 1/2" relay rack panel.

The BC-453 as a mobile SSB receiver.

"A LAZY MAN'S PANORAMIC ADAPTOR"
Robert W. Ehrlich W4CUU
QST-November 1954

"THE COMMAND SET ROUNDUP"
Herb S. Brier W9EGQ
CQ-February 1954

"CONVERTING THE R-28/ARC-5
V.H.F. RECEIVER"
Furman C. Cobb
CQ-December 1953 (The VHF-UHF News)

"A COMMAND SET RECEIVER FOR 6
AND 10"
Charles L. Faulkner W6FPV
QST-September 1953

"A NEW SIMPLIFIED Q5-ER"
Robert H. Weitbrecht W6NRM/W9TCJ
CQ-July 1953

"QRM-CUTTING SELECTIVITY FOR
THE MOBILE RECEIVER"
George M. Brown W2CVV
Radio & Television News-May 1953

"A SINGLE-CONTROL TRANSMITTER-
RECEIVER"
Gus Treuke W6DSR
QST-May 1953

"BANDPASS CRYSTAL FILTERS FOR
RECEIVING"
Byron Goodman W1DX
QST-April 1953 (On The Air With SSB)

"BANDSPREAD DIAL FOR THE COM-
MAND RECEIVERS"
Jesse O. Bostwick W7LDT
CQ-March 1953

"THE EASY WAY HETERODYNE
EXCITER"
Major R. H. Mitchell W6TZB
CQ-March 1953

The BC-453 Q5-er converts to a pan-
adaptor.

A comprehensive summary, with lots
of detail, of the Command Set re-
ceiver conversions.

A continuous tuning conversion of this
VHF Command Set receiver. Power
supply is not discussed.

Converters added to the BC-454 and
packaged in the conventional receiver
style make an economical receiver
for 3.5, 28 and 50 MC.

BC-453 IF transformers are used in
this "down-up-down" converter used
with the BC348. Though not devel-
oped in this article, the writer had
modern "pass-band" tuning within
reach.

This "from scratch" IF amplifier
strip for mobile use features Com-
mand Set IF transformers.

A true transceiver from the BC-453.
Transmitter frequency is locked to
the receive frequency.

A simple configuration of surplus
crystals in front of the BC-453
tightens up the bandpass to 1.3 KC.

Vernier scale for use on the tuning
knob of the Command Set receivers.

Using the BC-454 and BC-455 re-
ceivers "in reverse" as stable VFO
exciters. Receiver function is not
retained.

- "FORTY-METER MOBILE WITH YOUR ARC-5"
Lt. Cdr. Paul H. Lee W4RXO
CQ-March 1953
- "GETTING ON THE 7.2 MC BAND"
Herb Brier W9EGQ
CQ-March 1953 (Novice Shack Column)
- "TUNABLE IF STRIP FOR V.H.F. CONVERTERS"
Ralph W. Burhans W8FKC
QST-October 1952 (Hints and Kinks)
- "MOBILE WITH THE ARC-5/SCR-274"
Lt. Paul H. Lee W4RXO
CQ-May 1952
- "A HIGH-FREQUENCY DOUBLE CONVERSION SUPERHET FOR I.F. FREQUENCIES ABOVE 500 KC"
Fred J. Lingel W2ZGY
Radio & Television News-September 1951
- "NEW LIFE FOR THE Q5-ER"
Douglas R. Jordan
QST-February 1951
- "A XTAL CONTROLLED Q5-ER"
Harold Bourell W1QVC
CQ-December 1950
- "TRIPLE CONVERSION FOR THE BC-348"
C. R. Wade W9HZZ
CQ-November 1950
- "A TWO-TUBE CRYSTAL CONTROLLED CONVERTER FOR 10 METERS"
Charles L. Faulkner W6FPV
QST-August 1950
- "USING THE BC-454 AND BC-455 FOR 20 METER OPERATION"
F. K. Sullivan W8UYK
Radio & Television News-August 1950
- "A HIGH FREQUENCY CRYSTAL FILTER"
Kenneth P. Lange W6BEN
QST-April 1950
- This article supplements the mobile conversion described in "Mobile with the ARC-5/SCR-274", CQ-May, 1952.
- A simple, outboard converter for use with the BC-454 permits reception on 40 meters.
- Details on changing the coverage of the BC-454 to 8-14 MC.
- A very comprehensive article on the Command Set and its conversion. "Must" reading before any conversion.
- No converter and little conversion of the BC-453. The second harmonic of the HF oscillator is used as the mixing frequency.
- Another conversion of the BC-453 with refinements.
- A built-up unit using back-to-back, 85 KC Command Set IF transformers. A crystal controlled converter stage is used.
- The BC-453, with a converter mounted in the ex-dynamotor location, teams up with the BC-348 for Q5-er performance.
- Double conversion using the BC-453. Notes on improving this receiver provided.
- A method of using the HF oscillator of the BC-455 as a converter. The BC-455 then feeds a BC-454.
- Increased selectivity for those converter-BC-455 combinations.

"SUBSTITUTE FOR THE ARC-5 PLUG"

John R. Riley
CQ-April 1950

"STAY OUT OF JAIL"

Ford L. McGraw W6STS
CQ-January 1950

"COMMAND SET SPECIAL"

F. A. Bartlett W6OWP/6
CQ-November 1949

**"Q5-ER AS A VERTICAL AMPLIFIER
FOR AN OSCILLOSCOPE"**

A. T. Purseglove W1QFB
QST-November 1949 (Hints and Kinks)

**"CONVERSION OF THE BC-453 TO THE
BROADCAST BAND:"**

John R. Immel W6ZKJ
CQ-October 1949

**"A CRYSTAL CONTROLLED PLUG-IN
CONVERTER FOR THE Q5-ER"**

John L. Stewart W6UJD
QST-October 1949

"SCR-274N SELENIUM SUPPLY"

Lloyd V. Broderson W6CLV
CQ-October 1949

**"MOBILE RECEIVER FOR 75-METER
'PHONE"**

Marion D. Conham
QST-July 1949 (Hints and Kinks)

"COUPLING THE 453 AS A Q5-ER"

Herbert S. Brier W9EGQ
CQ-June 1949

"READY-MADE 274N TUNING KNOB"

David H. Schick W4KPH
CQ-June 1949

**"GREATER SELECTIVITY WITH THE
LAZY MANS Q5-ER"**

Maynard B. Chenoweth W8CUS
QST-March 1949 (Hints and Kinks)

**"A DOUBLE-CONVERSION RECEIVER
FOR \$30!"**

Allen A. Engleman W6MYU
CQ-February 1949

How to use the PL-153 with the
ARC-5.

This article covers the use of the
BC-454 as a station monitor.

The BC-454 or BC-455 are featured
in this complete, AC operated, sta-
tion package. A fine emergency rig.

Using the BC-453 with the basic
scope for "on the air" tests and
modulation checks.

Coil data for converting this Com-
mand Set receiver to the broadcast
band.

This converter and the BC-453 make
a selective 80 and 40 meter receiver.

A compact, AC line operated supply
for the Command Set receivers.
WARNING: THE CHASSIS IS HOT!

How to use the BC-454 in conjunction
with a BC receiver for double-con-
version mobile reception.

A phone jack connection for the Q5-
er. It is dependent on the poor audio
filtering present in most receivers.

One of those "Well I'll be darned"
ideas that is so obvious it escaped
attention.

Modification of the BC-453 IF trans-
formers provides even greater se-
lectivity.

Crystal controlled converters and
the BC-453 make a neat package
which provides coverage on 80-40
and 20 meters.

"NOISE LIMITERS FOR THE SCR-274N RECEIVERS"

Don Jeppesen W9QFZ
CQ-January 1949

"SCR-274N TUNING KNOB"

T. C. Freedom W3HVE
CQ-January 1949

"MORE SELECTIVITY FOR THE BC-455-B"

E. W. Williamson
Radio-Electronics-December 1948

"BANDSPREADING THE BC-455"

George E. Bidwell W9FIS
CQ-November 1948

"POWER HOUSE PORTABLE"

Clyde C. Lary W6GCS
CQ-October 1948

"PUTTING THE BC-455 ON 10"

Everett J. Gilbert W9MSP
CQ-September 1948

"A TRIPLE CONVERSION FOR THE COMMUNICATIONS RECEIVER"

William I. Orr W6SAI
QST-September 1948

"OUTPUT PLUG FOR A 274N RECEIVER"

Alva H. Clark W4DCB
CQ-August 1948

"CONVERSION OF THE SCR-274N RECEIVERS"

C. W. Roeschke W5MLX
Radio News-June 1948

"INCREASING THE BANDSPREAD ON THE SCR-274 RECEIVERS"

Arthur Larky
CQ-June 1948

"A Q5ER FOR BC-348 OWNERS ... BUILDING A SIMPLE CONVERTER"

William W. Orr W2OWA
QST-June 1948

A simple 1N34 limiter circuit for the Command Set receiver.

Home constructed knob has less backlash than the hard-to-get surplus knob.

How to replace the 2830 KC IF transformers with quality 455 KC units for improved performance.

A professional presentation on exactly how to spread the 40 meter band across the entire dial of the BC-455.

A portable package consisting of the Command Set transmitter and receiver with an AC power supply.

The usual conversion information along with new coil data for 10 meter operation of the BC-455 receiver.

Discussion of the lazy man's Q5-er, leading to construction details for a highly selective receiver adaptor using BC-453, 85 KC IF transformers.

Using the surplus PL-291 plug as an output connector when these receivers are used as converters.

"All about" Command Set receivers.

Pulling plates from the tuning capacitor of the BC-454 gives added bandspread.

An external converter shifts the IF output of the BC-348 to a frequency within the tuning range of the BC-453.

A Q5-ER FOR BC-348 OWNERS ...
BY ADDING SERIES PADDERS"
G. M. Kosolapoff
QST-June 1948

"A Q5-ER FOR BC-348 OWNERS ...
CONVERTING WITH AN EXTERNAL
OSCILLATOR"
Philip S. Rand W1DBM
QST-June 1948

"A Q5-ER FOR BC-348 OWNERS ...
MODIFYING THE COILS"
Marv Gonsio W6VFR
QST-June 1948

"BC-946 AS B.C. RECEIVER"
Lynn G. Herbert
Radio-Craft-February 1948

"THE LAZY MAN'S Q5-ER"
Byron Goodman W1DX
QST-January 1948

"TUNING DEVICE FOR THE ARC-5"
George Nelson W2RAC
CQ-January 1948

"CONVERTING THE SCR-274N
RECEIVER"
Russel F. Sievert W8OZA
CQ-November 1947

COMMAND SET TRANSMITTERS

"A BANDSWITCHING, LOW COST 400
WATT LINEAR"
Howard L. Morrison W7ESM
CQ-May 1961

"A UNIQUE SUPPRESSED CARRIER
TRANSMITTER"
Robert W. Stolzenbach W8KP
CQ-May 1961

"THE GENTLEMAN'S V.F.O. OR HOW
TO KEY A COMMAND SET"
Ed Marriner W6BLZ
CQ-February 1961

"FM VFO EXCITER"
D. L. Cabaniss W1TUW
73 Magazine-November 1960

Changes to the BC-453 permit oper-
ation on the 915 KC IF frequency of
the BC-348.

A fairly simple answer to the prob-
lem. An external crystal oscillator
mixes in the RF stage of the BC-453
to translate the IF output of the
BC-348.

Reworking the BC-453 coils to per-
mit operation on the BC-348 IF of
915 KC.

An AC-DC command set modifica-
tion for the broadcast band.

The classic of all surplus conversion
articles. An adaptation of the BC-453
Command Set receiver as a highly
selective, outboard IF amplifier.

A convenient and simple tuning crank
for the Command Set receivers.

The start of it all. Conversion de-
tails and an AC power supply are
described. Warning: The chassis is
hot!

Liberal use of Command Set trans-
mitter and BC-375 components keeps
this amplifier in the budget class.

A 100 watt DSB rig built around the
Command Set transmitter. The 6AR8
balanced modulator is featured.

An extensive rebuild of the BC-458
with time sequence keying and other
desirable features.

This VFO uses the BC-459 for FM
operation. Use on 10 meters and
higher is discussed.

- "DELUXING THE ARC-5 TRANSMITTER"
George Shuart W4AMN
QST-September 1960
- The ultimate in BC-696 or T-19/
ARC-5 conversions. 200 watts CW
input, VFO or crystal and bandswitch-
ing to 80 or 40 meters are features.
- "A 1625 GROUNDED GRID LINEAR
AMPLIFIER"
David L. Bell W8GUE
CQ-September 1960
- 200 watts input with 20 watts drive
and all on a Command Set transmitter
chassis.
- "SIX METERS WITH THE ARC-5/T-23"
Sam Harris W1FZJ
CQ-July 1960 (VHF Column)
- Not too much detail but some fine
conversion notes.
- "A COMPLETE 80-METER C.W. STA-
TION USING SURPLUS UNITS"
David L. Cabaniss W1TUW
QST-June 1960
- Complete details on a station package
using the BC-454 and the BC-696.
- "S.S.B. ON 144 MC WITH THE
T-23/ARC-5"
L. W. May, Jr. W5AJG
QST-May 1960
- Using this Command Set VHF unit
as a mixer-amplifier for 2 meter
sideband.
- "ANOTHER APPROACH TO DSB CON-
VERSION OF COMMAND TRANS-
MITTERS"
Richard G. Fenner W5AVI
CQ-February 1960
- Low level modulation with the 1625
stage operated as a linear amplifier
is featured in this BC-458 conversion.
- "CRYSTAL CONTROL FOR THE
BC-457 AND BC-459"
Lewis G. McCoy W1ICP
QST-November 1959
- Novice conversions of these popular
Command Set transmitters.
- "'CHEAP AND EASY S.S.B.' GOES ON 15"
John V. Fill K2GC/4
QST-August 1959
- The W2EWL BC-458 conversion, de-
scribed in QST-March, 1956, goes
on 21 MC.
- "PUTTING THE ARC5 ON TWO-METER
SB"
Dick Ray W5SNX/2
CQ-June 1959
- Conversion of the T-23/ARC-5 pro-
vides high level mixing and modifi-
cation of the output stage for linear
operation.
- "THE 200 L/ARC 5"
W. R. Booher W9NTI
CQ-December 1958
- A Command Set transmitter serves
as a foundation for this completely
self-contained 837 (2) linear amplifier.
- "REAL LAZY LINEARS"
Kenneth B. Grayson W2HDM
CQ-May 1958 (Surplus Column)
- A Command Set transmitter modifi-
cation for getting 250 watts PEP
from a pair of 1625 tubes.

"USING THE BC-459 WITH THE V.H.F. OVERTONE OSCILLATOR"
Ray L. Sherwood W9DRY
QST-December 1957

"HI- AND LO-BAND EDGE MARKERS FOR 'COMMAND' TRANSMITTERS"
Joseph W. Thane KØGGL
QST-October 1957 (Hints and Kinks)

"SSB TEN METER CONVERTER FOR THE BC-458 VFO"
John W. Govier W8QNW
CQ-October 1957

"ONE FOR THE ROAD"
F. A. Bartlett W60WP
CQ-June 1957

"INSTANT SIDEBAND:
James P. Bonner W4EFH
CQ-May 1957

"TWO METERS WITH THE T-23/ARC-5"
Harold Morris W4VUO and
Joe Westenhover W4FEC
CQ-April 1957

"A 100 WATT DSB MOBILE TRANSMITTER:
Jack Najork W2HNN
CQ-March 1957

"AN 'ALL BAND' BC-458 - A HETERO-DYNE V.F.O. FOR S.S.B."
Ben Russ W2QZ
QST-February 1957

"CHEAP AND EASY S.S.B."
Anthony Vitale W2EWL
QST-March 1956

"TUNING THE MOBILE ANTENNA FROM THE DRIVERS SEAT"
Frank T. Morgan W7RFG
QST-October 1955

"LOW COST VFO"
Paul Lee W2EWP
CQ-July 1955

Notes on using the BC-459 as a VFO into the crystal socket of overtone oscillators.

Adding another marker crystal to existing calibration circuit.

This converter accepts the 10-11 MC output of the BC-458 VFO and puts out the 7.5 MC conversion frequency required by some commercial exciters.

Oscillator isolation, reference shift modulation and remote control are features of this 35 to 40 watt, BC-459 rig.

DSB conversion of the BC-696. Conversion takes only a few minutes if external low level modulator is used.

A very simple AC powered conversion with 30 watts input to the final.

A neat mobile conversion of the Command Set transmitter to 80 meter DSB operation.

This Command Set transmitter is used as the mixing signal generator for use with 9 MC SSB exciters.

Sideband the easy way using the BC-458.

A BC-696 antenna coil and a BC-442 RF ammeter are combined in this novel but practical mobile application.

A complete rebuild of the Command Set transmitter gives a high performance VFO.

"AUTOMATIC MOBILE ANTENNA TUNING"

John A. Hargrave WØIGP
QST-May 1955

"MOTOR DRIVEN LOADING COIL"

Charles T. Miser W9MDC
CQ-May 1955

"MODIFYING COMMAND TRANSMITTER RELAYS FOR 6-VOLT OPERATION"

K. M. Isbell W6BOQ
QST-April 1955 (hints and Kinks)

"BREAK-IN WITH THE 274N"

Frank A. Mohler W2IAZ
CQ-August 1954

"THE COMMAND SET ROUNDUP"

Herb S. Brier W9EGQ
CQ-February 1954

"OPERATING THE BC-696 TV FRINGE AREAS"

John D. Ticen W9UUV
QST-December 1953

"REMOTE MOBILE-ANTENNA RESONATING"

J. C. Picken, Jr. K6DY and
B. A. Wambsgans W6WOY
QST-December 1953

"A SIMPLE HETERODYNE EXCITER FOR 10 METERS"

Charles Faulkner W6FPV
QST-November 1953

"PUT YOUR SCR-274 N ON 160 METERS"

Eugene Westervelt W9DRJ
CQ-June 1953

"A CRYSTAL-CONTROL ADAPTOR FOR THE BC-696"

Henry R. Greeb WØFVD
CQ-April 1953

"BETTER KEYING FOR THE CONVERTED BC-457"

Vernon M. Slichter WN7RKY
QST-March 1953 (Hints and Kinks)

Surplus Command Set transmitter coil is the heart of the tuner described in this article.

The antenna coil from the BC-696 and the drive motor from the RL-42B do the job in this mobile installation.

Just what the title says.

Novel keying system for the Command Set transmitters uses few parts.

A comprehensive summary, with lots of detail, of the Command Set transmitter conversions.

Extensive circuit changes in this Command Set transmitter minimize TVI.

ARC-5 roller coil and surplus 24 volt DC motor make an ideal antenna tuner for mobile installations.

The BC-459, with internal conversion circuitry, makes a highly stable exciter for 10 meter operation.

Instructions and coil data for operating the BC-457 on 160 meters.

This little device permits crystal operation with the Command Set transmitter. Change over takes less than a minute.

Changing the 1626 oscillator to a 12A6 for improved performance.

"FORTY-METER MOBILE WITH YOUR ARC-5"

Lt. Cdr. Paul H. Lee W4RXO
CQ-March 1953

"BC-459A CALIBRATION CRYSTAL FOR CONVERTER USE"

John W. Watson W7GHB
QST-February 1953 (Hints and Kinks)

"MODERNIZING THE SCR-274-N TRANSMITTER"

Carl V. Hays W6RTP
Radio & Television News-January 1953

"CRYSTAL ADAPTOR FOR THE ARC-5 TRANSMITTERS"

John R. Abbott W6ZOL
QST-December 1952 (Hints and Kinks)

"GRID-BLOCK KEYING"

E. R. Syphrit W3LWN
CQ-September 1952

"ON 15 METERS - QUICK"

H. N. Lem W2CTE
CQ-August 1952

"MOBILE WITH THE ARC-5/SCR-274"

Lt. Paul H. Lee W4RXO
CQ-May 1952

"TVI TREATMENT FOR 'COMMAND' TRANSMITTERS"

James F. Quigley WØFQO
QST-April 1952 (Hints and Kinks)

"BANDSPREADING THE 'COMMAND' TRANSMITTERS"

George Young W5KQD
QST-February 1952 (Hints and Kinks)

"THE NOVICE CONVERSION OF A 'COMMAND' TRANSMITTER"

R. M. Smith W1FTX and
W. E. Bradley W1FWH
QST-November 1951

"KEYING THE BC-696"

Holland M. Carter W4ADE
QST-July 1951

This article supplements the ARC-5-SCR-274 mobile conversion described in CQ-May, 1952.

Using this 8 MC rock in a converter oscillator.

40 meters and 40 watts in a commercial appearing conversion. This rig is described fully for easy duplication.

A gadget to make for easy crystal changes in the Command Set transmitters.

Grid-block keying applied to both the oscillator and amplifier in the Command Set transmitters.

How to reach 21 MC with the BC-458 and the BC-459 Command Set transmitters.

A very comprehensive article on the care and feeding of the Command Set in mobile operation. Must reading.

A method of reducing TVI from the BC-457.

Easy modification of the BC-457 and BC-458 transmitters to provide 10 KC per dial division calibration.

Conversion details on the BC-457 or the T-20/ARC-5 as a Novice transmitter.

Practical keying circuit for the Command Set transmitters.

"WAR SURPLUS FOR CIVIL DEFENSE"
P. S. Rand W1DBM
CQ-May 1951

"WAR SURPLUS FOR CIVIL DEFENSE"
P. S. Rand W1DBM
CQ-April 1951

"AT LAST A PRACTICAL ALL-BAND
HETERODYNE V.F.O."
L. Dennis Shapiro W2URX
CQ-December 1950

"TVI-PROOFING THE ARC-5 V.H.F.
TRANSMITTER"
O. W. H. Johnson W2ZYX
QST-November 1950

"SCR-274N TRANSMITTER
MODIFICATIONS"
James N. Whitaker W2BFB
CQ-August 1950

"MODIFYING THE BC-459 FOR
TVI-FREE 40-METER OPERATION"
Herbert S. Brier W9EGQ
CQ-June 1950

"SUBSTITUTE FOR THE ARC-5 PLUG"
John R. Riley
CQ-April 1950

"TVI-PROOFING THE COMMAND
TRANSMITTER"
Samuel J. Lanzalotti W2DVX
CQ-March 1950

"A HIGH-POWER MODULATOR FOR
MOBILE OPERATION"
George M. Brown W2CVV
CQ-February 1950

"STABILIZING THE VFO"
Clarence A. West W2IYG
CQ-February 1950

"PLUG IN EXCITERS FROM
'COMMAND' TRANSMITTERS"
T. Glade Wilcox W9UHF and
Charles Hoffman W9ZHL
QST-January 1950

Extensive rebuilding of the BC-458
or BC-459 for 50 MC mobile oper-
ation.

Extensive rebuild of the BC-458 or
BC-459 for operation on the 10 meter
band.

The T-20/ARC-5 is the foundation
for this practical and modern ex-
citer.

How to operate the T-23/ARC-5 and
get along with your neighbors.

Some practical thoughts and words of
warning. Particular emphasis is
placed on keying these transmitters.

Shielding, filtering and keying modi-
fications comprise part of the treat-
ment given the BC-459. Lots of good
information.

How to use the PL-153 plug with the
ARC-5.

Details on application of the classic
cures to de-TVI the Command Set
transmitters.

This modulator is constructed on a
Command Set transmitter chassis
for mounting in a Command Set rack.

Lots of good information on the use
of the BC-696 Command Set trans-
mitter as a VFO.

Versatile transmitter design uses
Command Set transmitters as ex-
citers.

"COMMAND SET SPECIAL"

F. A. Bartlett W6OWP/6
CQ-November 1949

"CURING CHIRP IN COMMAND TRANSMITTERS"

Alfred Scott Cline W6LGU
QST-October 1949 (Hints and Kinks)

"TVI-FREE RIG FOR 10"

Mack Seybold W2RYI
CQ-October and November 1949

"SCREEN GRID MODULATING THE COMMAND RIGS"

Robert R. Hall W6CRO
CQ-September 1949

"VOLTAGE REGULATOR FOR COMMAND SETS"

F. C. Breeden W2SIJ
CQ-June 1949

"ADAPTING THE SCR-274N SERIES TRANSMITTERS FOR 14 MC"

William I. Orr W6SAI
QST-April 1949

"SCR-274N KEYING FILTER"

Bill Orr W6SAI
CQ-April 1949

"20-METER OPERATION OF THE BC-659A"

Willem Van Aller W2VIK
CQ-February 1949

"POWER HOUSE PORTABLE"

Clyde C. Lary W6GCS
CQ-October 1948

"BANDSPREADING THE SCR-274N"

E. Henrich W8OVL
CQ-August 1948

"COAX ANTENNA CONNECTOR FOR COMMAND TRANSMITTERS"

F. C. Breeden W2SIJ
CQ-July 1948

The BC-457 or BC-459 Command Set transmitter is used in this complete station package.

Help clean up the bands.

A BC-458 transmitter is buried in the interior of this buttoned up 813 rig. The hard way to de-TVl a Command Set.

Simple modulator and power supply for Command Set transmitters.

A rather obscure load equalizing relay circuit for use with Command Set transmitters.

Conversion details for putting the BC-457 and BC-696 Command Set transmitters on 20 meters.

Simple filter circuit with oscillator plate and PA screen keying provides good results.

Simple change to get 20 and 40 meter operation with this Command Set transmitter.

Portable station using Command Set components. An AC power supply is constructed in an extra transmitter case.

An elaborate but effective dial for the Command Set transmitters.

This hint allows V.F.O. and complete transmitter use with simple output connector arrangement.

"VARIATIONS IN THE MODIFICATION OF THE SCR-274N TRANSMITTERS FOR 11 and 10 METERS"

Vince Dawson WØZJB
CQ-July 1948

"VARIATIONS IN THE MODIFICATION OF THE SCR-274N TRANSMITTERS FOR 40 AND 20 METERS"

Edwin W. Hannum W2VNU/8
CQ-July 1948

"VARIATIONS IN THE MODIFICATION OF THE SCR-274N TRANSMITTERS FOR 80 AND 40 METERS"

E. B. McIntyre W3KHJ
CQ-July 1948

"ARC-5 TRANSMITTER MODIFICATIONS ... ELIMINATING RIPPLE IN THE BC-459-A"

J. R. Abbott W6ZOL
QST-June 1948

"ARC-5 TRANSMITTER MODIFICATIONS ... IMPROVED KEYING"

T. A. Previtt W9UKT
QST-June 1948

"ARC-5 TRANSMITTER MODIFICATIONS ... MAKING USE OF THE TUNING EYE"

F. W. Wright W2UWK
QST-June 1948

"ARC-5 TRANSMITTER MODIFICATIONS ... 14-MC OUTPUT FROM THE BC-459-A"

Byron Goodman W1DX
QST-June 1948

"ARC-5 TRANSMITTER MODIFICATIONS ... N.F.M. ADDED TO THE BC-459-A"

Don Imhoff W8YFS
QST-June 1948

"ARC-5 TRANSMITTER MODIFICATIONS ... 14-MC OUTPUT FROM THE BC-459-A"

John T. McIntosh W8ZGO
QST-June 1948

How to use the BC-458 and the BC-459 for 10 meter and VHF VFO applications.

Electrical and mechanical changes put the BC-659 on 20 meters.

Rack mounting a pair of Command Set transmitters with switching circuits between them.

Chirp is cleaned up by deletion of the eye tube.

Oscillator plate and amplifier screen keying improves Command Set transmitters.

Changes to the indicator tube bias circuit permits its use in AC versions.

A clean 20 meter modification of the BC-459-A.

Little change is made in the transmitter and an external speech amplifier is used.

A simple change puts the BC-459-A on 20 meters.

"CONVERSION NOTES ON THE BC-696A"
John T. Frye W9EGV
Radio News-March 1948

Complete details for converting this 80 meter Command Set transmitter.

"20 AND 40 METERS WITH THE BC-459A TRANSMITTER"
Edwin W. Hannum W2VNU/8
CQ-March 1948

Simple change gives two band coverage with this Command Set transmitter.

"MOBILE WITH THE SCR-274N"
George M. Brown W2CVV
CQ-January 1948

A complete 10 meter mobile treatment for the Command Set transmitter, 6 volt conversion is covered.

"CONVERTING THE SCR-274-N FOR VFO OPERATION ON FM OR AM"
L. W. May, Jr. W5AJG/W5JKM
CQ-May 1946

How it all started. The first of the Command Set transmitter conversion articles.

COMMERCIAL SURPLUS

"BARRY'S TWO METER GEM"
Kenneth B. Grayson W2HDM
CQ-September 1960 (Surplus Column)

A 240 MC telemetering transmitter with 20 watts output is converted to 2 meters.

"50--240-MC CONVERTER-RECEIVER USING HELICAL TYPE INDUCTOTUNER"
Radio-Electronics Staff
Radio-Electronics-June 1956

Details on using this TV tuner item in a continuous coverage receiver.

"A BANDSWITCHING V.H.F. CONVERTER AND HARMONIC CHECKER"
Edward P. Tilton W1HDQ
QST-July 1951

A good example of commercial surplus utilization. A TV tuner makes a fine VHF converter.

"WIDE-RANGE V.H.F. CONVERTER"
C. O. Bishop W7HEA
CQ-November 1949

A 44 to 216 MC converter using a commercial surplus Mallory Inductotuner.

COMMERCIAL SURPLUS, POLICE RADIO EQUIPMENT

"MOTOROLA TEST SET"
Beryl Dassow W9HKA
73 Magazine-March 1961

An Alignment test set for those Motorola police radio sets that are coming into amateur use.

"SURPLUS POLICE RIGS FOR CD"
Bill Bailey W9JJD
CQ-May 1955

Conversion notes on using surplus Motorola police equipment, fixed and mobile, on 10 meter FM.

"CONVERTING THE RCA MI-7800 POLICE TRANSMITTERS FOR 28-MC. MOBILE USE"
Warren Chase W1QNM
QST-September 1951

Rebuild of this popular VHF, commercial surplus transmitter gives good 10 meter performance.

"USING THE MOTOROLA T-69-20A ON
10 AND 6"

L. W. May, Jr. W5AJG
QST-August 1951

This commercial mobile transmitter
needs little conversion for amateur
10 meter use.

CRV-59AAE TELEVISION CAMERA

"HAM TV"

Donald L. Stoner W6TNS
CQ-May 1957 (Surplus Column)

Detailed conversion data and much
information on amateur use of this
surplus Navy "Block III" Television
bomb guidance equipment.

CRYSTALS — APPLICATION

"TAKE YOUR PICK"

73 Magazine Staff
73 Magazine-April 1961

Complete discussion of crystal filters
for receivers. Application of surplus
crystals is covered.

"HIGH-FREQUENCY CRYSTAL
FILTERS FOR S.S.B."

D. J. Healey W3HEC
QST-October 1960

Design procedures and a practical
circuit for high performance crystal
filters using surplus crystals.

"THE PHJ-1"

Clyde B. Lee W4PHJ
QST-September 1960

This CW receiver uses surplus DC-
34 crystals in a cascade filter-am-
plifier.

"IMPROVED SELECTIVITY FOR
OLDER RECEIVERS"

John M. Palmer W1SGN
QST-July 1960

A low-cost, half-lattice crystal filter
for use with the Super Pro or the
HQ-129X receivers.

"THE 'IMP' — A 3-TUBE FILTER RIG"

Joseph S. Galeski, Jr. W4IMP
QST-May 1960

An SSB exciter using surplus high
frequency crystals in a half-lattice
filter.

"SOME NEW IDEAS IN A HAM-BAND
RECEIVER"

Pitt W. Arnold W9BIY and
Craig R. Allen W9IHT
QST-May 1960

A superior receiver using surplus
crystals in a high frequency filter.

"MOBILE S.S.B. TRANSCEIVER"

Benjamin H. Vester W3TLN
QST-June 1959

High frequency crystal filter uses
FT-243 crystals.

"SURPLUS-CRYSTAL HIGH-FRE-
QUENCY FILTERS"

Benjamin H. Vester W3TLN
QST-January 1959

Design and application notes on half-
lattice filters using surplus 4 to 7
MC crystals.

"A SIDE-BAND PACKAGE"

George K. Bigler W6TEU
QST-June 1958

A well designed and much duplicated
exciter using surplus crystals in the
sideband filter.

- "AN INEXPENSIVE CRYSTAL-FILTER I.F. AMPLIFIER"
Hugh L. Gottfried W6YBR
QST-February 1958
High frequency surplus crystals are used in this CW IF strip.
- "SUPER SELECTIVITY WITH CRYSTALS"
Richard F. Burns W9NVC
Radio & T.V. News-July 1957
Details on an outboard IF filter using surplus FT-241-A crystals.
- "SSB CRYSTAL FILTER"
E. L. Klein W4UHN
CQ-June 1957
A printed circuit version of the Edmonds crystal filter using FT-241 crystal units.
- "VOX SSB EXCITER"
Robert C. Treadwell W3TCQ
CQ-August 1956
A 10 watt exciter using FT-241A crystals in an Edmonds filter.
- "USING 'OUT OF BAND' CRYSTALS FOR THE AMATEUR BANDS"
Herbert Greenberg W2EEJ
CQ-February 1956
Multiplication tricks enable these surplus "dogs" to be used.
- "A RECEIVER VARIABLE SELECTIVITY ADAPTER"
John T. Richards W6RUD
CQ-November 1955
A full lattice filter with shunt crystals designed for installation in an HQ-120X receiver.
- "A VARIABLE BANDWIDTH FILTER"
H. E. Thomas W6CAB
QST-February 1955
Filters using FT-241 crystals and an ingenious inversion system do the job.
- "SIDEBAND FILTERS USING CRYSTALS"
Richard F. Burns W9NVC
QST-November 1954
A full discussion on the use of surplus FT-241 crystals in sideband filters.
- "CASCADED HALF-LATTICE CRYSTAL-FILTERS FOR 'PHONE AND C.W. RECEPTION"
Howard L. Morrison W7ESM
QST-May 1954
Surplus FT-241 crystals give the old Super-Pro new life.
- "'PHONE SELECTIVITY FOR THE BC-312"
Howard L. Morrison W7ESM
QST-February 1954
Adding an FT-241 crystal filter to the BC-312.
- "SIMPLIFIED CRYSTAL I.F. FILTER"
William Bruce Cameron W8IVJ
Radio & Television News-November 1953
Surplus 200 KC crystal is the heart of this "odd frequency" IF system.
- "A HALF-LATTICE CRYSTAL-FILTER EXCITER"
Byron Goodman W1DX
QST-June 1953 (On The Air With SSB)
Another cascaded filter using surplus crystals.

- "BANDPASS CRYSTAL FILTERS FOR RECEIVING"
Byron Goodman W1DX
QST-April 1953 (On The Air With SSB)
- "DESIGN NOTES ON A SPECIALIZED 'PHONE RECEIVER"
Robert W. Erlich W2NJR
QST-April 1953
- "A DIFFERENT BALANCED MODULATOR AND CRYSTAL FILTER"
Byron Goodman W1DX
QST-April 1953 (On The Air With SSB)
- "GETTING STARTED ON SINGLE SIDEBAND"
Jack N. Brown W4OLL
CQ-April 1953
- "A CRYSTAL FILTER FOR 'PHONE RECEPTION"
William E. Good W3LQE
QST-October 1951
- "CRYSTAL LATTICE FILTERS FOR TRANSMITTING AND RECEIVING"
C. E. Weaver W2AZW and
J. N. Brown W4OLL
QST-June and August 1951
- "A CRYSTAL-FILTER S.S.B. EXCITER"
F. E. Edmunds W1JEO/9
QST-November 1950
- "A DUAL-CRYSTAL 'Q5-ER'"
Reginald A. Titt Ex-G3CMJ
QST-September 1950
- "A HIGH FREQUENCY CRYSTAL FILTER"
Kenneth P. Lange WØBEN
QST-April 1950
- "fool proof socket for ft-243"
Felix W. Mullins W5BVF
CQ-September 1948
- CRYSTALS -- PROCESSING
"UTILIZING SMALL PIN CRYSTALS"
Antonio Gelineau W4LEQ
CQ-February 1961
- A simple configuration of surplus crystals in front of the BC-453 Q5-er tightens up the bandpass to 1.3 KC.
- A deluxe receiver using 8 surplus crystals in a cascaded, full-lattice arrangement.
- Cascaded half-lattice filter uses surplus crystals.
- The Edmunds crystal filter, using FT-241 crystals, is used in this SSB exciter.
- Another filter circuit using the surplus FT-241-A crystal units.
- A classic. Surplus, low frequency crystals come into their own.
- Another classic. First of a long line of filters using crystals from the SCR-508 - SCR-608 Radio Sets.
- Surplus crystals give improved selectivity in CW reception.
- Increased selectivity for those converter-BC-453 combinations.
- Wiring scheme for the octal socket that prevents wrong insertion of the crystal.
- How to adapt the HC-6/U holder to the FT-243 socket.

- "ANOTHER CRYSTAL GRINDING COMPOUND"
Kim A. Boriskin K2MGS
QST-November 1959 (Hints and Kinks)
Electric razor sharpening compound used for crystal grinding.
- "ADAPTER FOR FT-243 CRYSTALS"
Francis LeBaron W1TQZ
QST-May 1959 (Hints and Kinks)
How to enlarge the pins of the FT-243 to fit the SCR-522 and other surplus equipment.
- "CHANGING CRYSTAL FREQUENCIES"
J. H. Ellison W6AOI
QST-October 1958 (Hints and Kinks)
All about how to etch crystals with household chemicals.
- "CRYSTALS WHERE YOU WANT THEM"
Lewis G. McCoy W1ICP
QST-June 1958
Those surplus crystals are usable. Grinding techniques for the novice.
- "A SAFE METHOD FOR ETCHING CRYSTALS"
Albert J. Newland W2IHW
QST-January 1958
Ammonium bifluoride etches those surplus rocks up to frequency.
- "HOW TO GRIND CRYSTALS"
Robert B. Kuehn WØHKF
CQ-November 1957
Full details on grinding and etching those surplus crystals to frequency.
- "A VARIABLE FREQUENCY CRYSTAL HOLDER"
Allen A. Engleman W4RMU
QST-February 1956
Modification of the FT-243 holder provides limited frequency adjustment.
- "COTTER-PIN ADAPTER FOR SURPLUS TYPE CR-1A CRYSTALS"
Lee Rogers W5HGH
QST-February 1955 (Hints and Kinks)
Simple means of using these crystals in standard sockets.
- "QUARTZ CRYSTAL ETCHING"
Gene Brizendine W4ATE
Radio & Television News-May 1954
How to bring those surplus crystals to frequency without work.
- "MODIFIED CRYSTAL HOLDER"
Robert B. Kuehn WØHKF
CQ-August 1952
Lots of work but it can be done. How to replace the pins in the large holders to fit the FT-243 sockets.
- "CRYSTALS FOR BC-625 TRANSMITTERS"
John B. Riley
CQ-October 1948
Adjustment of the BC-624 - BC-625 socket clips allows use of the FT-243 crystals.
- "MODIFYING THE FT-243 CRYSTAL HOLDER"
Jim Rothsten W2MXG
CQ-October 1948
How to modify the FT-243 holder to permit use in the large pin crystal sockets.

"CHANGING THE FREQUENCY OF A
'PLATED' CRYSTAL"
E. B. McIntyre W3KHJ
CQ-October 1947

A wealth of valuable information, in a couple of paragraphs, on plating, reverse plating and etching of sur-

"CRYSTAL GRINDING WITHOUT TEARS"
Francis R. Cowles W1AOK
QST-April 1946

How to use those surplus crystals.

"QUARTZ CRYSTAL FINISHING FOR
HAMS"
Richard E. Nebel W2DBQ
CQ-July 1945

How to determine the "cut" of a crystal and bring it in on frequency.

DYNAMOTORS

"FULL DYNAMOTOR OUTPUT WITH
1/2 THE INPUT VOLTAGE"
Donald L. Stoner W6TNS
CQ-August 1957 (Surplus Column)

This article tells how to rotate one brush to provide half-voltage operation.

"ROTARY CONVERTERS"
M. K. Brooks and W. Brooks W6JAB
CQ-May 1956

Using those dual voltage dynamotors as DC transformers.

"USING YOUR 12-VOLT DYNAMOTORS"
Dale L. Hileman W0MCB
CQ-May 1953

The "two battery" system of mobile operation is described. For today's 12 volt ignition systems, the method has equal merit with respect to 28 volt units.

"ANOTHER DYNAMOTOR USE"
M. L. Winner W3NCV
CQ-May 1952

A maritime mobile use for 28 volt dynamotors. Series operation allows use with any reasonable source voltage.

FL-8 RADIO FILTER

"SAF-4 - THE C.W. MAN'S QRM
ELIMINATOR"
Gilbert C. Ford W7OXD
CQ-November 1957

Cascaded FL-8 filters, with inter-stage amplifiers, provide real CW selectivity.

"PROJECT CONELRAD"
Joseph E. Howell K9CKP
CQ-June 1957

A CONELRAD system, using the surplus FL-8 range filter, that really works.

"IMPROVED S/N WITH THE FL-8"
Marv Gonsior W6VFR
CQ-July 1952

How the FL-8, in the "voice" mode, reduces receiver noise.

"AUDIO FILTER CONNECTION"
C. Ray Wagner W2FEN
QST-August 1950 (Hints and Kinks)

An easy way to connect the surplus FL-8 without mutilating the receiver.

"VARIABLE AUDIO SELECTIVITY WITH THE SURPLUS FL-8 FILTER"

John P. Tyskewicz W1HXU
CQ-May 1950

1 Resistor + FL-8 = Variable Selectivity.

"AUDIO FILTERS FOR ELIMINATING QRM"

Robert O. Bennett W6DVE
QST-July 1949

Details on using the FL-8 filter as a receiver accessory.

"A QRM ELIMINATOR"

G. L. Countryman, W3HH, W1RBK
CQ-June 1949

Two audio filters team up in this outboard device designed to reduce the hash in the crowded bands.

"LOW COST AUDIO SELECTIVITY"

Richard G. Talpey W2PUD
CQ-September 1948

An effective bandpass filter made from components of the FL-8A filter.

"QRM SLICERS! REINTRODUCING AUDIO SELECTIVITY"

Clayton F. Bane W6WB
CQ-June 1948

Discussion, pro and con, of peaked audio filters with the FL-8 being the case in point.

GENERAL

"A DIGEST OF SURPLUS RADIO EQUIPMENT"

Gordon E. Hopper W1MDG
73 Magazine-October 1960

Practical suggestions on various items of surplus radio equipment.

"SURPLUS EQUIPMENT INFORMATION"

Charles J. Schauers F7FE/W6QLV
CQ-October 1959 (Ham Clinic Column)

A discussion of surplus electronic equipment for the amateur.

"SURPLUS ON THE CITIZENS BAND"

Kenneth B. Grayson W2HDM
CQ-June 1959 (Surplus Column)

General information. WARNING: Check current FCC regulations.

"AN INTRODUCTION TO SURPLUS EQUIPMENT"

Kenneth B. Grayson W2HDM
CQ-January and February 1958 (Surplus Column)

A tabulation of surplus equipment with characteristics and conversion required.

"SURPLUS CONVERSIONS"

Donald L. Stoner W6TNS
CQ-September 1956

A general discussion of surplus and surplus conversions. Much of this information is still valid.

"SURPLUS REFERENCE SHELF FOR THE CONSTRUCTOR"

Dr. L. B. Hedge
Radio-Electronics-October 1950

A library listing to light your way to better surplus utilization.

- "CONFESSIONS OF A SURPLUS HOUND"
Cecil R. Nelin
Radio & Television News-September 1948
- "SURPLUS CONVERSIONS"
Milton Kalashian
Radio-Craft-August 1948
- "ARMY SURPLUS RADIO MATERIALS"
Lt. Col. David Talley W2PF
CQ-April 1946
- "MORE ON SURPLUS"
Maurice Gutman W2VL
CQ-March 1946
- "WAR SURPLUS FOR THE HAM"
Major M. R. Gutman USAF (Inactive)
W2VL
CQ-December 1945
- GF-11 RADIO TRANSMITTER
"MOBILE WITH THE GF-11"
R. H. Brown W6OVX
CQ-January 1957
- "IMPROVED KEYING FOR THE
GF-11 TRANSMITTER"
R. W. Thornally W6NG
QST-July 1950 (Hints and Kinks)
- HS-33 HEADSET
- "THE AMATEUR'S 'WIRELESS'
TELEPATCH"
Walter S. Rogers W1DFS
Radio & Television News-December 1951
- "THE R-5 MIKE"
Walter S. Rogers W1DFS
CQ-November 1949
- I-83 TEST SET
"CONVERTING THE I-83"
Roy E. Pafenberg W4WKM
CQ-November 1960
- I-177 TUBE TESTER
"ADAPTER FOR SURPLUS TUBE
TESTERS"
J. R. Throop WA6CLT
CQ-May 1961
- Surplus can be bad.
- An early bibliography of surplus conversions.
- A look at the Army surplus picture.
- A status report on surplus in early 1946.
- General discussion of the surplus picture in late 1945.
- 40 and 80 meter operation with this older, Navy surplus transmitter.
- Modified keying circuit for this Navy aircraft transmitter.
- No electrical connection is required with this patch which uses A.N.B. units from the HS-33 headset.
- Using the ANB-H-1 headset unit as a microphone. Response curves are given.
- This very well metered dynamotor tester makes an easy conversion to a bench power supply.
- An easily constructed adapter allows test of modern tubes on the I-177

"I-177 TUBE TESTER ADAPTER"
Kenneth B. Grayson W2HDM
CQ-September 1959 (Surplus Column)

Details on an adapter to permit test of modern tubes. A test setting chart is provided.

ID-11/APS-4 INDICATOR
"USING THE APS-4"
Kenneth B. Grayson W2HDM
CQ-March 1961 (Surplus Column)

Make a scope for the shack. The surplus ID-11/APS-4 provides a good start.

ID-60/APG-15 INDICATOR
"CONVERTING THE ID-60/APG-15"
Kenneth B. Grayson W2HDM
CQ-August 1958

A compact, surplus scope. Although power supply is shown, voltages can usually be stolen from the transmitter.

KEY J-38
"ANCHORING' THE J-38 KEY"
Don Simon KNØJCY
QST-March 1958 (Hints and Kinks)

"A BUILT-ON CLICK FILTER FOR THE TYPE J-38 KEY"
Clifford A. Mason K2AFO
QST-February 1956 (Hints and Kinks)

Reversing the key on the base keeps it from walking off the table.

There is room on the base of this surplus key to install a shielded filter box.

LM See: BC-221

MARK II See: B19 MARK II

MILITARY SURPLUS COMMERCIAL EQUIPMENT

"C.W. XMITTER FOR 20 OR 10"
Kenneth B. Grayson W2HDM
CQ-January 1961 (Surplus Column)

A 10 watt rig from a balloon-borne telemetry transmitter. A simple modulator is described.

"VOX WITH THE TYPE 3 CARRIER OPERATED LOUDSPEAKER PANEL"
Kenneth B. Grayson W2HDM
CQ-June 1959 (Surplus Column)

A further application of the equipment described in CQ-January 1959.

"TYPE 3 CARRIER OPERATED LOUDSPEAKER CONTROL PANEL"
Kenneth B. Grayson W2HDM
CQ-January 1959 (Surplus Column)

Outboard squelch is provided by this \$5.00 wonder. ←

"MORE BANDSPREAD ON NATIONAL MILITARY MODELS"
Robert J. Murray W1FSN
CQ-August 1956

Notes on making the surplus National receivers more suitable for amateur band use.

"CIRCUIT IMPROVEMENTS IN THE TELRAD 18-A"
Floyd A. Trueblood W3LZC/7
QST-October 1950

Modification improves crystal starting in this surplus crystal standard.

"SOUPING UP A WAR-SURPLUS HRO"
Paul D. Rockwell W3AFM
QST-February 1949

A new RF stage and oscillator stabilization for this old-timer.

"IMPROVING THE MEISSNER 150-B FOR C.W. WORK"
Bob M. Simmons W0ARH
QST-May 1948 (Hints and Kinks)

Break-in for this popular surplus transmitter.

"F.M. RECEPTION WITH THE WILCOX F-3"
John A. Dinter W8OAP
QST-April 1948

Simple FM modification of this "strip" receiver.

"REVAMPING THE 150-B FOR 14-MC OPERATION"
John M. Murray W1BNN
QST-September 1947

Details on converting this Meissner transmitter to 20 meters and adding a low level mike input.

MISCELLANEOUS

"ECONOMICAL CUSTOM RESISTORS"
Roy E. Pafenberg W4WKM
73 Magazine-May 1961

How to change those surplus precision resistors to required values.

"IMPEDANCE MATCHING IN SURPLUS EQUIPMENT"
Roy E. Pafenberg W4WKM
73 Magazine-March 1961

Listing of audio input and output impedances for various items of surplus equipment.

"CONVERTING THE BRITISH TYPE 26 CONVERTER"
Kenneth B. Grayson W2HDM
CQ-August 1960 (Surplus Column)

This converter is a fine 50 to 65 MC unit with an output frequency of 7.5 MC.

"INEXPENSIVE MODULATOR TRANSFORMERS"
R. P. Haviland K3BGX
Electronics World-May 1960

Information on how to use surplus power transformers as modulation transformers.

"A FOOLPROOF S METER"
H. O. Lorenzen W3BLC
QST-December 1959

A universal S meter circuit for surplus receivers.

"KNOBS FOR APC TYPE CAPACITORS"
Stanley O. Andrews W4AHW
QST-March 1959 (Hints and Kinks)

Shaft extensions make these surplus units usable.

"SURPLUS 6 METER GROUND PLANE VERTICAL"
Robert K. Wallace K8BYQ and
William B. Randolph W8VFT
CQ-July 1958

Use of surplus components makes this a cheap and good antenna design.

- "HOLDERS FOR RADAR-TYPE CRYSTALS"
William R. Deal K1CLD
QST-April 1958 (Hints and Kinks)
- "MODULATORS FOR SURPLUS EQUIPMENT"
Kenneth B. Grayson W2HDM
CQ-March 1958 (Surplus Column)
- "WAVEMETERS USING BUTTERFLY TANK CIRCUITS"
W. Gerald Bانشاک
QST-July 1957
- "USING THE 'Q' MULTIPLIER WITH MILITARY RECEIVERS"
Donald L. Stoner W6TNS
CQ-February 1957 (Surplus Column)
- "USE THOSE JUNK BOX CHOKES"
Sherman H. Hubelbank
Radio & Television News-October 1956
- "USING APC CAPACITORS WITH KNOBS"
Douglas R. Schneider W2ZVY
CQ-August 1956 (Letters Column)
- "MODIFYING UNDERSIZE SURPLUS PHONE JACKS"
Rev. Michael Windolph W9NEL
QST-July 1956
- "CONTROL SHAFTS FOR SURPLUS-TYPE APC CAPACITORS"
Herman W. Gross W9ITT
QST-December 1955 (Hints and Kinks)
- "A BROAD-BAND BANDSWITCHING CONVERTER/PRESELECTOR"
Robert F. Latter
QST-September 1954
- "RATING POWER TRANSFORMERS"
Darwin H. Harris
Radio-Electronics-December 1953
- "THE SILICON CRYSTAL NOISE GENERATOR"
William L. Orr W6SAI
CQ-June 1952
- Surplus diodes are mounted with electron tube hardware.
- General discussion of modulator requirements for surplus equipment with schematic diagrams of suitable units.
- Surplus assemblies are used in these instruments which cover 135 to 1,000 MC in two ranges.
- A discussion of Q multiplier use and a listing of component changes required to adapt the Heath QF-1 to IF frequencies from 85 to 2830 KC.
- Test procedure is described for finding the ratings of those unmarked surplus power chokes.
- A shaft extension method for using short-shaft APC units with knobs.
- How to use those odd size jacks.
- Another idea on how to use these surplus bargains.
- A device to extend the range of surplus receivers.
- Simple, rule of thumb formula for finding ratings on those unmarked surplus power transformers.
- All about noise generators and how to use them. Instructions on how to use them. Instructions on how to make one using a surplus diode.

**"CIRCUIT VARIATIONS FOR SURPLUS
DRY DISK RECTIFIERS"**

Evert Rodenhouse W7TQ
QST-January 1952

**"IMPROVED PERFORMANCE IN
SURPLUS RECEIVERS"**

Paul E. Griffith W2SOY
QST-February 1951 (Hints and Kinks)

**"SUGGESTIONS ON HOW TO DRESS
UP YOUR STATION"**

Charles Welch W5MHK
CQ-October 1950

**"DEPENDABLE VFO FOR 80-METER
BAND"**

Richard L. Parmenter W1JXF
Radio-Electronics-September 1950

**"GANGING SURPLUS TUNING
CONDENSERS"**

Peter J. Saveskie W2JFE
CQ-March 1950

"PUTTING SURPLUS METERS TO WORK"

R. L. Parmenter W1JXF
CQ-March 1950

"TUNING DEVICE FOR SURPLUS GEAR"

F. H. Maley W1GZH
QST-December 1949 (Hints and Kinks)

"HAND DRIVEN GENERATOR HINTS"

Russ Robinson W4JGS
QST-October 1949

"ON A CYCLE RIGHT FOR YOU"

W. H. Anderson VE3AAZ
CQ-September 1949

**"STILL MORE ON THE 'SUPER-
SELECTIVE' C.W. RECEIVER"**

Byron Goodman W1DX
QST-June 1949

"PEAKED AUDIO"

Eugene Black W2ESO
CQ-June 1948

**"OPERATING 28-VOLT RECEIVERS
FROM 115-VOLT SOURCE"**

R. R. Rosenberg W3NCJ
CQ-May 1948

How to identify and use those surplus
rectifiers.

Practical hints on how to restore
performance of war-weary equipment.

Has application to surplus gear where
new panels and mechanical additions
are often required.

This "solid" VFO is constructed in
an old Navy CAY tuning unit case.

Mechanical details on how to solve a
difficult problem.

How to find the characteristics of
surplus meters and how to apply
them.

A mechanical arrangement for tuning
those knobless controls.

Simplified operation of these surplus
muscle builders.

How to find the 60 cycle operating
voltage of components designed for
other power frequencies.

Listing of surplus equipment sources
of cup-core, low frequency IF trans-
former materials.

Variable audio selectivity with modi-
fied surplus filter units.

Lamp dropping resistors for 115 volt
filament operation.

- "MOUNTING FOR FIXED-CRYSTALS"
Felix W. Mullings W5BVF
CQ-May 1947
- How to use fuse holders to mount surplus radar diodes.
- "IMPROVED RECEIVER SELECTIVITY"
Commander E. H. Conklin, USNR W3JVX
CQ-March 1946
- Using those surplus audio filters to sharpen up old receivers.
- MN-26Y RADIO COMPASS
"A BARGAIN (?) NOVICE STATION"
J. B. Work WN7RMP
QST-December 1952
- Converting this surplus radio compass to AC operation and installing an 80 transmitter in the case.
- PE-73 DYNAMOTOR
"HIGH POWER MOBILE"
Joseph Marshall W3SNA
CQ-May 1957
- A fan-belt driven PE-73 and BC-375 components team up for high power mobile operation.
- PE-101 DYNAMOTOR
"NOTES ON THE PE-101-C DYNAMOTOR"
L. R. Langley W8DSX
QST-March 1957 (Hints and Kinks)
- How to reconnect the high voltage windings for various output voltages.
- "CONVERTING THE PE-101-C"
Leslie A. Venne WØCBW
CQ-May 1955
- Operating this surplus power house on 6 volts.
- "MORE ON THE PE-101-C"
Howard A. Bowman W6QIR
CQ-May 1955
- Reduced output voltage, with high efficiency, by reconnecting the output windings.
- "MORE POWER FOR THE MOBILE"
William C. Ryder W1JNM
CQ-May 1954
- A complete two battery mobile power system using the PE-101-C dynamotor.
- "MORE ON THE PE-101-C"
Gordon H. Miller W9KUX/8
CQ-December 1952
- Discussion of questions arising from the original article: "CONVERTING THE PE-101-C DYNAMOTOR", CQ-August 1952
- "CONVERTING THE PE-101-C DYNAMOTOR"
Gordon H. Millar W9KUZ and William Wollin W9GWK
CQ-August 1952
- Conversion information and application data for the PE-101-C dynamotor. Winding information is given.
- PE-103 DYNAMOTOR
"HOMEMADE POWER PLUG FOR THE PE-103"
C. A. Thunen W6ACT
QST-July 1953 (Hints and Kinks)
- Solution to the non-availability of connectors for this dynamotor.

"MORE ABOUT THE PE-103
DYNAMOTOR"
George Hart W1NJM
QST-December 1952 (Hints and Kinks)

"ALL ABOUT THE PE-103"
Richard Shongut W2QFR
QST-April 1951

"FILTER AND CONTROL CIRCUIT
FOR THE PE-103"
George Hart W1NJM
QST-October 1949 (Hints and Kinks)

"MOBILE IN MINIATURE"
M. Joffe W2BNY
QST-December 1948

"A MODIFICATION OF THE PE-103-A"
William L. Smith W3GKP
QST-August 1948

"LET'S GO MOBILE"
Sheldon W. Gates W8VWK
CQ-June 1948

PE-237 VIBRATOR POWER SUPPLY
"HYBRID 10 METER TRANSMITTER"
John A. Meissner K5CXN,
John Guerrero KL7BNJ and
Lloyd Crawford K5OVE
CQ-November 1960

PROP-PITCH MOTORS
"BACK TO THE PROP PITCH ROTOR"
E. H. Marriner W6BLZ
CQ-July 1959

"SIMPLIFIED APPROACH TO ROTARY
BEAM CONSTRUCTION"
Emmett P. Bonner W5RCA
QST-November 1950

"TOWER AND ROTATOR TECHNIQUES"
Louis H. Hippe W6APQ
QST-June 1950

"A QUICK CHANGE OF PACE FOR
THE PROP-PITCH MOTOR"
Dick Saunders W6MUO
CQ-August 1949

Operation of the PE-103 with negative ground systems.

Practical details on amateur use of the PE-103.

This dynamotor is used, less the base, with external control circuitry.

Construction details for a 10 meter transmitter built into and powered by the PE-103.

A method of obtaining half-voltage output from the PE-103-A for use with receivers.

An all-band, 80 watt, portable or mobile transmitter built around the PE-103 dynamotor.

The PE-237 power transformer finds a very unique application in this transmitter.

Mechanical details and diagrams on how to convert the prop-pitch motor to a heavy duty beam rotator.

Details on mounting the B-29 prop-pitch motor.

A comprehensive treatment of prop-pitch motors and surplus indicators.

A simple machine operation increases the output shaft speed to 1 RPM with a motor speed of 1,000 RPM. Only 9 volts AC is required for power.

**"SPEEDING UP 'PROP-PITCH'
BEAM ROTATORS"**

David G. Vanderhoek W2VLL
QST-June 1949

Gear modification gives up to 5 RPM
at the output shaft.

**"SUPPRESSION OF ELECTRICAL NOISE
FROM PROPELLER PITCH-CHANGING
MOTORS"**

C. C. Miller W2RDK
QST-November 1948

Details on disassembly and suppression
of noise on both the 12 and 24
volt versions of these motors.

**"DIRECTION INDICATOR FOR THE
PROP PITCH-CHANGE MECHANISM"**

George M. Brown W2CVV
CQ-April 1948

How to couple a selsyn to the output
gear for remote indication of an-
tenna bearing.

**RAO - RAS - RBJ - RCK - RCL RADIO
RECEIVERS**

**"MORE BANDSPREAD ON NATIONAL
MILITARY MODELS"**

Robert J. Murray W1FSN
CQ-August 1956

Notes on making the surplus National
receivers more suitable for amateur
band use. Changes are minor.

RBC RADIO RECEIVER

"RECEIVER S-METER OPERATION"

Commander E. H. Conklin, USN W3VQ
CQ-July 1947

A general discussion of S meter
calibration. Circuit of Navy RBC
receiver is shown as an example.

RDZ RADIO RECEIVER

"THE RDZ ON 220 MC"

Kenneth B. Grayson W2HDM
CQ-April 1960 (Surplus Column)

Lots of detail on converting the Navy
RDZ receiver for amateur use.

R-44/ARR-5 RADIO RECEIVER

"MODIFYING THE R-44/ARR-5"

L. W. May, Jr. W5AJG
Radio-Craft-September 1948

The aircraft version of the Halli-
crafters S-36 (S-27) makes a very
worth-while conversion.

R-48/TRC-8 See: AN/TRC-8

R-89/ARN-5 GLIDE PATH RECEIVER

**"A TEN-TUBE FM RECEIVER FOR
ONLY \$10.00"**

Robert C. Minnick
Radio-Electronics-March 1950

How to convert this navigation re-
ceiver to an FM broadcast tuner.

R-257/U RADIO RECEIVER

"CONVERTING THE R-257/U"

Kenneth B. Grayson W2HDM
CQ-October 1960 (Surplus Column)

Converting the preamplifier from this
receiver to 6 meter converter use.

- R-320/FRC RADIO RECEIVER
 "WORTHWHILE IMPROVEMENTS FOR
 THAT OLD RECEIVER"
 Paul H. Lee W3JHR
 CQ-February 1957
- RL-42 ANTENNA REEL
 "MOTOR DRIVEN LOADING COIL"
 Charles T. Miser W9MDC
 CQ-May 1955
- RM-52 REMOTE CONTROL UNIT
 Will A. Connelly W6QID
 CQ-October 1958
- RT-18/ARC-1 See: AN/ARC-1
- RELAYS
- "USING SURPLUS 24-28 VOLT RELAYS"
 George P. Oberto K4GRY
 Radio-Electronics-May 1960
- "CATHODE OPERATED RELAYS"
 Richard T. Van Wickle W6TKA
 CQ-February 1960
- "USING DC RELAYS ON AC"
 Joseph L. Reiffin W5CWP
 CQ-November 1959
- "SCREEN-GRID PROTECTION
 WITH A SURPLUS RELAY"
 I. S. Simpson W1FYN
 QST-July 1958 (Hints and Kinks)
- "USING THOSE SURPLUS RELAYS"
 E. B. Blett W8CBM
 QST-May 1956
- "CONVERTING 28 VOLT RELAYS
 TO 6 AND 12 VOLTS"
 Lloyd Mallet W7GRG
 CQ-January 1956
- "MODIFYING COMMAND TRANSMITTER
 RELAYS FOR 6-VOLT OPERATION"
 K. M. Isbell W6BOQ
 QST-April 1955
- "BANDSWITCHING YOUR LOADING
 COILS BY REMOTE CONTROL"
 Leon A. Wortman W2LJU
 Radio & Television News-June 1954
- The RCA AR-88 gets a new front
 end, audio circuit changes and a
 product detector.
- The drive motor from the RL-42 reel
 and the loading coil from a Command
 Set transmitter do the job remotely.
- A super-simple patch, of good de-
 sign, from the RM-52 remote unit.
- Application tips for those surplus
 units.
- Notes on designing your circuits to
 use surplus relays.
- How to make your mobile equipment
 relays work on AC for home station
 use.
- Dual-winding, surplus relay provides
 a latching protective circuit.
- Hints on adapting 28 volt DC relays
 to amateur use.
- An easy way to convert these surplus
 dogs. Must be read to be appreciated.
- Just what the title says.
- Surplus, rotary relays do this job
 with no fuss and at low cost.

"CONVERTING 12-VOLT RELAYS TO 6-VOLT OPERATION"

Hartland B. Smith W8VVD
CQ-February 1949

This short item describes a simple answer to a common problem.

"OPERATING 28-VOLT SURPLUS RELAYS"

Felix W. Mullings W5BVF
CQ-February 1949

This little article describes the minimum AC power supply for satisfactory operation of these relays.

"CONVERTING DC RELAYS"

Robert B. Tomer W1PIM
Radio & Television News-December 1948

Details on rewinding surplus relays.

"PUTTING SURPLUS 28-VOLT D-C RELAYS TO WORK"

Edward A. Whitlock W5LYH
CQ-December 1947

How to install these relays in tube circuits to obtain the required operating currents.

SELSYNS

"THE BEAM POINTER"

Tom Lamb K8ERV
CQ-July 1959

A neat beam direction indicator using surplus selsyn units.

"SYNCHROS - SELSYNS"

Wayne Green W2NSD
CQ-September 1956

General information on these units and how to use them in amateur applications.

"ANTENNA ROTATION WITH A SERVO-MECHANISM"

Henry G. Elwell W2JKH
CQ-November 1953

Surplus selsyn units and an aircraft controller are used in this automated beam control system.

"WIRE-SAVING KINK FOR 'SELSYN' USERS"

Roy A. Long W6YBL

Diagram of a method for using 4 conductor cable between selsyn units.

"DIRECTION INDICATOR FOR THE PROP PITCH-CHANGE MECHANISM"

George M. Brown W2CVV
CQ-April 1948

How to couple a selsyn to the output gear for remote indication of antenna bearing.

"A SELSYN DRIVEN V.F.O."

Robert V. McGraw W2LYH
CQ-March 1948

Selsyn control permits remote location of the VFO.

"SELSYN BEAM ROTATOR"

C. V. Hayes W6RTP
CQ-February 1948

How to use the larger size selsyn units as rotator motors.

"BASIC PRINCIPLES OF SELF-
SYNCHRONOUS REPEATERS"
John K. Gossland W2BJK
QST-May 1947

"PUTTING THE SELSYN TO WORK"
Merle C. Worster W1KVV
CQ-May 1946

SCR-211 See: BC-221

SCR-274-N See: COMMAND SET

SCR-284 RADIO SET
"THE SCR-284 CAR INSTALLATION"
Charles W. Boegel, Jr. WØCVU
CQ-March 1947

"TAILOR-MADE PORTABLE FOR 75"
Charles W. Boegel, Jr. WØCVU
CQ-October 1946

SCR-515 See: BC-645

SCR-522 RADIO SET
"S,S,B. ON 144 MC WITH THE 522"
Edward P. Tilton W1HDQ
QST-November 1956 (The World Above
50 MC)

"PUTTING THE BC-625 ON 220 MC"
L. W. May, Jr. W5AJG
CQ-November 1953

"IMPROVED BC-624 NOISE LIMITER"
Donald H. Rogers W2MLF
CQ-July 1949

"BETTER RESULTS WITH THE 522"
Robert E. Fairbrother W1PYO
QST-April 1949

"CRYSTALS FOR BC-625
TRANSMITTERS"
John B. Riley
CQ-October 1948

"A B.F.O. FOR THE 522 RECEIVER"
E. P. Tilton W1HDQ
QST-June 1948 (The World Above 50 MC.)

General information on selsyn units
with circuits and data for operation
of 400 cycle units on 60 cycles.

General information, along with a
trouble chart in case things don't
work out.

Helpful hints on making the SCR-284
mobile installation. ←

General information on this major
component of the SCR-284, the BC-
654. ←

A Central Electronics 20A excites
the surplus SCR-522 in this circuit
of W5HHU and W5AJG.

This article carries the standard
conversion of the BC-625 through to
operation on 220 MC. ←

Simple change in the noise limiter
circuit greatly improves this SCR-
522 receiver. ←

Circuit refinements give better sen-
sitivity and improved signal to noise
ratio.

Simple modification to the crystal
socket makes the surplus FT-243
crystal usable in this equipment.

Circuit of the BFO used by WØCCY. ←

"CONVERTING THE SCR-522 (BC-625A)
FOR 10"
Lem Smeltzer W4KZF
CQ-June 1948

Coil data for reaching 10 meters with
this popular 2 meter rig.

"FM RECEIVER FROM WAR SURPLUS
RADIO BC-624"
Robert C. Paine
Radio-Craft-June 1948

This article describes an FM broad-
cast conversion of the SCR-522 re-
ceiver.

"CONVERSION OF THE SCR-522 FOR
28 MC"
Bertram D. Aaron W4JXH and
Clyde E. Clark
QST-May 1948

A different approach to 10 meter
operation of the BC-625-AM trans-
mitter.

"CONVERSION OF THE SCR-522 FOR
28 MC"
Leonard H. Smeltzer W4KZF
QST-May 1948

Conversion details for 10 meter oper-
ation of this transmitter.

"INCREASING THE AUDIO OUTPUT
OF THE SCR-522"
Herbert S. Brier W9EGQ
CQ-May 1948

Circuit changes to increase the re-
ceiver audio gain.

"PUTTING THE 522 TRANSMITTER
ON 6 AND 10 METERS"
H. S. Brier W9EGQ
Radio News-April 1948

A very simple conversion puts the
BC-625A transmitter on 6 meters.

"A BANDPASS CONVERTER FOR 144 MC"
John E. Williams W2BFD
QST-March 1948

A new front end for the BC-624 re-
ceiver.

"BC-624 ON 2 METERS"
L. W. May, Jr. W5AJG
Radio-Craft-September 1947

Continuous tuning and rack panel
mounting are features of this re-
ceiver conversion.

"MODIFICATION OF THE SCR-522
FOR 2 METERS"
M. J. Gonda W2JBM
CQ-July 1947

A neat, rack mounted conversion of
SCR-522 transmitter and receiver
for 2 meter operation.

"BC-625 ON 144 MC"
L. W. May, Jr. W5AJG
Radio-Craft-April 1947

A neat, rack mounted conversion of
the SCR-522 transmitter.

"CONVERTING THE SCR-522
TRANSMITTER"
Ray Frank W9JU
Radio News-November 1946

A rack and panel mounted conversion
of the BC-625 which requires ex-
ternal AC power supply.

- "CONVERTING THE SCR-522 RECEIVER"**
Ray Frank W9JU
Radio News-October 1946
- The original published conversion of the BC-624. A neat job with rack panel mounting. ←
- SCR-602 See: BC-1284
- SCR-610 See: BC-659
- SCR-619 See: BC-1335
- SCR-718 See: BC-788
- TBS RADIO RECEIVER**
"CONVERTING THE TBS"
Kenneth B. Grayson W2HDM
CQ-May 1958 (Surplus Column)
- This conversion puts the receiver portion of the TBS on 2 meters and provides continuous tuning. ←
- TBX-8 RADIO SET**
"TBX-8 SCHEMATIC DIAGRAM"
Kenneth B. Grayson W2HDM
CQ-September 1958 (Surplus Column)
- Just that.
- "CONVERTING THE TBX-8"
Kenneth B. Grayson W2HDM
CQ-July 1958 (Surplus Column)
- Conversion details for this Navy transmitter-receiver. It covers 80 with 8 watts on CW and 2.5 on phone.
- TBY RADIO TRANSMITTER-RECEIVER**
"THE TBY CONVERSION"
Donald L. Stoner W6TNS
CQ-September 1957 (Surplus Column)
- Conversion of this Navy transmitter-receiver to 6 meters. Transmitter is crystal controlled.
- TBY-7 RADIO TRANSMITTER-RECEIVER**
"ADAPTING THE TBY-7 FOR AMATEUR USE"
W. B. Ford W6YT
Radio News-October 1947
- Putting this portable, Navy transmitter-receiver to use in the 28 and 50 MC bands.
- TCS RADIO TRANSMITTER**
"MODIFICATION OF THE TCS TRANSMITTER FOR COAXIAL LINE"
Henry Meiseles K2UOC
CQ-November 1960
- Modification of the antenna circuit of this Navy transmitter for standard 50 ohm output.
- "TCS CONVERSION"
Berden O. Bretz W7GQR
CQ-September 1959
- This conversion covers AC operation and provision for crystal microphone. A 150 watt conversion is discussed.
- T-17 MICROPHONE**
"A VERSATILE SWITCH FROM SURPLUS"
Roy E. Pafenberg W4WKM
73 Magazine-January 1961
- Push-to-talk switch from the T-17 microphone has many construction uses.

"MODERNING THE T-17"
Chuck Schauers W6QLV
CQ-September 1958

How to get more sock from this surplus carbon mike.

"ANOTHER T-17 CONVERSION"
Ben T. Wade W4GHB
CQ-May 1952

Another method of installing the F1 button in the T-17 case.

"SOUPING UP THE T-17"
Carl C. Drumeller W5EHC/AF5EHC
CQ-February 1952

Mounting the modern F1 button in the T-17 case for higher output and better quality.

"INCREASING THE OUTPUT OF THE T-MICROPHONE"
Joe L. Pryor W5MJD
CQ-February 1949

Simple change increases output of the T-17 microphone.

T-39/APQ-9 RADAR TRANSMITTER
"PUTTING SURPLUS TO WORK ON THE 420-MC HAM BAND"
T. R. Davis
CQ-February 1950

This conversion results in a modulated oscillator with 10 watts output.

T-47/ART-13 See: AN/ART-13

TG-34-A KEYS
"TRANSMITTER KEYING WITH THE SURPLUS TG-34-A KEYS"

A circuit for DC keying from a keyed tone input.

Lee Dilno W8DAP
QST-September 1957 (Hints and Kinks)

TS-1/ARR-1 TEST OSCILLATOR
"COAXIAL GRID CIRCUIT FOR THE 4X-150A AMPLIFIER"
E. P. Tilton W1HDQ
QST-August 1953 (The World Above 50 MC.)

Use of the "Gold Plated Special" cavity as a grid tank circuit for 432 MC.

"A 432-MC CONVERTER FROM THE GOLD PLATED TEST OSCILLATOR"
E. P. Tilton W1HDQ
QST-June 1952

High performance converter using components of the "Gold Plated Special".

TS-47/APR TEST OSCILLATOR
"TEST OSCILLATOR TS-47/APR"
David W. Moore, Jr.
Radio News-May 1946

Full description and circuit of this test oscillator which covers 40 to 500 MC in two calibrated bands.

TU-75 See: BC-1158

TUBES

"PLATE MODULATION FOR THE
TV-SET/SURPLUS TRANSMITTER"
Lewis G. McCoy W1ICP
QST-July 1961

"THE BIG CANNON"
Jack Holloway W6VVZ
73 Magazine-April 1961

"SURPLUS TUBES + AN OLD TV
SET = 150-WATT AMPLIFIER"
Lewis G. McCoy W1ICP
QST-April 1961

"A USE FOR THE SURPLUS 717A"
WA2AKT
73 Magazine-February 1961

"A PARAMETRIC AMPLIFIER FOR
1296 MC."
W. O. Troetschel K6UQH and
H. J. Heuer KH6CYI
QST-January 1961

"EXPERIMENTAL TRANSCEIVERS
FOR 5650 MC."
C. J. Prechtel W8DRR
QST-August 1960

"MODIFYING 1625'S AND 807'S FOR
LINEAR AMPLIFIER USE"
C. A. Morgan W9LRM
CQ-February 1960

"SOCKETS FOR 1625'S"
Richard Niessen K2SRA
QST-April 1959 (Hints and Kinks)

"R.F. AND AUDIO RATINGS FOR
THE SURPLUS 701A"
Stu Rockafellow W8NJH
QST-July 1958 (Hints and Kinks)


"LET'S GO MICROWAVE"
A. D. Bredon W6BGK
QST-June 1958

"MODIFYING 1625'S FOR
GROUNDED-GRID OPERATION"
Harry W. Land W5ZBF
QST-November 1957

The surplus 1625 tube is featured in
this modulator.

The 304TL again and still the most
for the money.

The surplus 1625 is still providing
high performance on a budget.

Some uses for the bargain priced
717A tube. 

The 2K25/723A/B reflex klystron is
still available from surplus and pro-
vides yeoman service in this state of
the art equipment.

The surplus 2K26 klystron tube is
the heart of the equipment described.

More on fishing out the beam form-
ing plate leads of these tubes. Notes
on using these tubes instead of 837's
in grounded grid operation.

A method of remounting Command
Set tube sockets.

Just what it says. Tube socket in-
formation is also given.

Application data on using surplus
klystrons in the amateur microwave
bands.

More on fishing out those elusive
beam-forming plate leads.

**"LIGHTHOUSE TUBE TANK
CIRCUITS FOR 432 MC"**

Edward P. Tilton W1HDQ
QST-June 1957

**"A 200-WATT GROUNDED-GRID
LINEAR AMPLIFIER"**

E. L. Hoover W9SAR and
R. L. Peck W9MOW
QST-June 1955

"A TWO BAND FINAL"

R. H. Mitchell W5DWT
Radio & Television News-May 1955

**"GETTING STARTED ON SINGLE
SIDEBAND"**

J. N. Brown W3SHY ex-W4OLL
CQ-September 1953

"100 WATTS ON THE TABLE"

D. V. R. Drenner WØLQS
Radio & Television News-June 1951

"PUTTING THE 304TL TO WORK"

Guy Dexter
Radio & Television News-September 1950

"USE YOUR 304TL'S"

Emmet P. Bonner W5RCA
CQ-August 1950

"UTILIZING THE 826"

Richard M. Smith W1FTX
QST-May 1950

"SOCKETS FOR TYPE 15E TUBES"

Tom McMullen W1QFV
QST-February 1950 (Hints and Kinks)

"MODULATING A KILOWATT"

Robert C. Cheek W3LOE
CQ-November 1949

**"EFFICIENCY MODULATION DATA
FOR SURPLUS TUBES"**

Radio & Television News Staff
Radio & Television News-May 1949

**"LOW-COST NEUTRALIZING
CONDENSERS FOR 304TL"**

Marv Gonsior W6VFR
CQ-September 1948

Easy to build amplifiers and frequency multipliers using surplus tubes.

1625 tubes are modified by reconnecting the beam forming plates to make efficient, grounded-grid amplifiers.


A 7 and 14 MC, 1 KW final that stars the surplus 304TL.

Design and operating data is given for use of the surplus power house, the 304TL, as a 1 KW linear amplifier.

A compact rig using surplus 826 tubes. Transmitter features VFO and 80 through 10 meter coverage.

Circuit applications for this low cost surplus tube. High power for pennies.

All about the 304TL and its amateur applications.

A budget 250 watts at VHF. 

Now what do we use them for?

A fine appearing modulator is described and operating data for the 304TL in modulator service is given.

Class B linear data for 20 popular, surplus tubes.

A pair of cold 304TL's serve as neutralizing capacitors for an active pair. No comment except that 304TL's were advertised at 90¢ each in this issue.

"PUTTING THE 826 TO WORK"
Richard L. Parmenter W1JXF and
C. E. Clark W1KLS
Radio News-July 1948

"MODULATING KLYSTRONS"
David Lee Thompson W6VQB
CQ-May 1948

"THE 829-B AND 832-A AT AUDIO
FREQUENCIES"
James A. Fred
Radio News-September 1947

"DISHING OUT THE MILLIWATTS
ON 10 KMC"
James A. McGregor W2RJM
QST-February 1947

"THE VT-127-A IN AMATEUR
TRANSMITTERS"
Gomer L. Davies Ex-W8AFW
QST-November 1946

VO-4 OSCILLATOR

"SURPLUS FREQUENCY STANDARD"
Roy E. Pafenberg W4WKM
73 Magazine-December 1960

Application details for these surplus
bargains. ←

Simple modulation circuit for sur-
plus klystrons such as the 726A and
the 723A/B.

Audio and modulator service oper-
ating data for these surplus tubes. ←

Description of the 2K25/723A tube
and the 3-CM equipment it is used in.

Operating characteristics and equip-
ment construction details. ←

An AC power supply makes a utility,
crystal controlled standard of this
surplus signal generator.

AVAILABLE BOOKS ON SURPLUS

These books are currently in print and are kept in stock by Radio Bookshop, 1379 E. 15th Street, Brooklyn 30, N.Y. The three Surplus Manuals are priced at \$2.50 each and the Surplus Handbook is \$3.00.

Surplus Radio Conversion Manual, Volume I.

This book gives circuit diagrams, photos of most equipment and rather good conversion instructions for the following:

BC-221 BC-342 BC-312 BC-348
BC-412 BC-645 BC-946 SCR-274N/
BC-453A receivers converted to 10M,
SCR-274N/BC-457A transmitters. SCR-522
BC-624 and BC-625 conversion to 2M.
TBY to 10 and 6 meters. PE-103A, BC-
1068A/1161A receiver to 2M, Surplus tube
index, cross-index of A/N tubes.

Surplus Radio Conversion Manual, Volume II

Original and conversion circuits diagrams plus photos of most equipments and full conversion discussion of the following:

BC-454/ARC-5 receivers to 10M, AN/APS13
xmtr/rcvr to 420mc, BC-457/ARC-5 xmtrs to
10M, Selenium rectifier power units, ARC-5
VHF, GO-9/TBW, BC-357, TA-12B, AN/ART-
13 to AC power and to include 10M, coil data
simplified winding charts, AVT-112A, AM-26,
LM frequency meter, rotators, power chart,
ARB diagram.

Surplus Radio Conversion Manual Volume III

Original and conversion diagrams. plus some photos of these equipments:

701A, AN/APN-1, AN/ARC-7, URC-4, ARA,
BC-442, 453-455, 456-459, BC-696, 950, 1066
BC-1253, CBY-29125, 50083, 50141, 52208,
52232, 52302-09, FT-241A for xtal filter,
MBF (COL-43065), MD-7/ARC-5, R9-APN-4,
R23-R28/ARC-5, RAT, RAV, RM-52 (53),
RT-19/ARC-4, SCR-274N, SCR-522, T-15/
ARC-5 to T-23/ARC-5.

The Surplus Handbook, Volume I (Receivers and Transmitters). This book consists entirely of schematics and photos of the following surplus units:

APN-1, APS-13, ARB, ARC-4, ARC-5, ARC-
5/VHF, ARR-2, ARN-5, ASB-7, BC-222,
-312, -314, -342, -344, -348, -603, -611, -624
(SCR-522), BC-652, -654, -659, -669, -683
-728, -745, -764, -779, -794, -923, -1000,
-1004, -1066, -1206, -1306, -1335, BC-AR-
231, CRC-7, DAK-3, GF-11, Mark II, MN-26,
RAK-5, RAX, Super Pro, TBY, TCS, JAN/VT
tube index.