D.C. RESISTANCE (OHMS).

SET

SOURCE SELECTOR SWITCH TO D.C.

BRIDGE SELECTOR SWITCH TO R.

CONNECT UNKNOWN TO "R" TERMINALS AND

SELECT A SUITABLE D.C. RANGE.

DEPRESS GALVANOMETER KEY AND BALANCE
ON P ARM ONLY.

R = DC RESISTANCE IN OHMS.

.R = SETTING OF P X D.C. RANGE FACTOR.

LOW RESISTANCES

FOR LOW RESISTANCES A PRELIMINARY
TEST SHOULD BE MADE TO DETERMINE THE
RESISTANCE OF THE LEADS CONNECTING THE
TEST RESISTANCE TO THE BRIDGE.

CAPACITY (MCRO - MICROFARADS).

SET

SOURCE SELECTOR SWITCH TO A.C. BRIGE SELECTOR SWITCH TO C.

SATCH M TO +

SELECT SUITABLE A.C. RANGE AND OBTAIN BALANCE ON TELEPHONE BY SUCCESSIVE AJUSTMENT, OF P AND Q ARMS.

NOTE SELTING Q.

C = CAPACITY IN MICRO - MICROFARADS.

Q - Q - A A.C. RANGE FACTOR.

EFFECTIVE SERIES RESISTANCE IN OHMS

VALUES OF K.

AC. RANGE FACTOR. A 500 A 100 A 100 A 100 A 100 A 1000 A 1

COS 9 = 0063 X/0 X.R. X C.

SELF INDUCTANCE (MICROHENRIES)

SET.

SOURCE SELECTOR SWITCH TO A.C. BRIDGE SELECTOR SWITCH TO L
SWITCH M TO +

CONNECT UNKNOWN TO L TERMINALS.

SELECT A SUITABLE A.C. RANGE AND OBTAIN
BALANCE ON THE TELEPHONE BY SUCCESSIVE
ADJUSTMENT OF P AND Q.

NOTE SETTINGS P AND Q.

SHORT CIRCUIT LEADS TO TEST INDUCTANCE

AND REBALANCE P AND Q ARMS.

NOTE SETTINGS PO AND QO.

L = INDUCTANCE IN MICROHENRIES.

L - (Q - Qo) X A.C. RANGE FACTOR.

WHEN USING THE X 100 AND 10,000 RANG FACTORS. THE CORRECTIONS GIVEN IN THE INSTRUCTION FOLDER SHOULD BE APPLIED.

Re = EFFECTIVE RESISTANCE IN OHMS.

$$R_e = (p - P_0) K$$

K = AC RANGE FACTOR - 1

MUTUAL INDUCTANCE MICROHENRIES

SET

SCURCE SELECTOR . TO A.C.

BRIDGE SELECTOR TO M.

A.C. RANGE SWITCH TO M.

CONNECT UNKNOWN TO TERMINALS MI, M2, AND

BALANCE P AND Q ARMS USING TELEPHONE AS

M = MUTUAL INDUCTANCE IN MICROHENRIES.

M .= SETTING OF Q.

IMPURITY 'N OHMS

= SETTING OF P.

FREQUENCY.

SET

SOURCE SELECTOR TO "OFF."

BRIDGE SELECTOR TO "F".

A. C. RANGE SWITCH TO "F"

SWITCH M TO -

CONNECT TEST SUPPLY TO F TERMINALS AND BALANCE P AND Q ARMS USING TELEPHONE AS DETECTOR.

PONDING OF Q AND FIND CORRES

FONDING VALUE OF FREQUENCY FROM CHARTS.

(SEE INSTRUCTION FOLDER).

NOTES.

WHEN THE BRIDGE IS NOT IN USE THE SOURCE SELECTOR SWITCH SHOULD BE SET TO OFF.

ALL TERMINALS NOT ACTUALLY REQUIRED FOR A TEST MUST BE LEFT OPEN CIRCUITED.

EXAMINE THE DRY BATTERY PERIODICALLY.
TO SEE THAT THE CELLS ARE IN GOOD
CONDITION.