

RECYCLED TECHNOLOGY AT ITS BEST

Repairing the old spaceship
(Don't throw away those old calculators !!)

THIS PROGRAM ORIGINALLY MADE BY ME AT PORT MORESBY 1979

IT WORKS

IT IS SIMPLE TO USE

AND IS AN EFFICIENT COMPUTATION TECHNIQUE TO CORRECTLY EXTRACT
A MISSING BEARING AND DISTANCE.

INSTRUCTIONS FOR USE

FOR THE HP 15C

- 1 Turn calculator on - should be in *user* mode
if not key in *f user*

- 2 Press **A** - calculator flashes "running" and 4 zeros appear.
Calculator has been "cleared" and is ready to accept a close.
Note for each new calculation **A** must be pressed first.

- 3 Key in BEARING
Press **ENTER**
Key in DISTANCE
Press **E** - calculator flashes "running" and
The number of the traverse leg is displayed
Repeat step 3 for each leg of traverse

- 4 After last traverse line entered
Press **R/S**
MISSING BEARING IS DISPLAYED
Press **R/S**
MISSING DISTANCE IS DISPLAYED

- 5 For a new close press **A**

PS?
5/12/95.

HP 15C Calculator

Program Steps for RAPID CLOSE by RJP

Initialisation - "clearing calculator" to accept any new close

F LBL A
F CLEAR REG
F CLEAR Σ
G DEG
F FIX 4
0
ENTER
ENTER
ENTER
RTN ✓

Actual program steps for the missing bearing and distance computation

F LBL E
X \leftrightarrow Y
HMS \rightarrow
X \leftrightarrow Y
 \rightarrow R
 Σ +
R/S
RCL Σ
 \rightarrow P
STO 9
R \downarrow
G TEST 2
GTO 1
1
8
0
+
 \rightarrow HMS
R/S
F LBL 2
RCL 9
R/S
F LBL 1
1
8
0
+
 \rightarrow HMS
R/S
GTO 2
R/S

IN THE EVENT THAT THE PROGRAM IS ACCIDENTLY LOST. REPLACE THE ACTUAL PROGRAM BY THE FOLLOWING STEPS

- ① g P/R
PUTS CALCULATION IN PROGRAM MODE.
- ② f CLEAR PRGM
CLEARS THE PROGRAM
- ③ ENTER THE ACTUAL PROGRAM STEPS AS PER THIS SCHEDULE.
- ④ KEY g P/R
TO PUT INTO NORMAL MODE
- ⑤ KEY f USER
THEN "CLOSE" PROGRAM IS READY TO USE.

RJP
5/12/95.