



### Touch Programming

- To activate touch programming, the unit needs to be in a Normal Surface Interval.
- Shorting contacts 1 & 2 with a coin changes the top level menu selection.
- Shorting contacts 1 & 2 with wet finger takes you into that menu selection.

-The digit that is flashing is the one that is going to be incremented.

**FO2 or PO2 Mode Select**  
**Main Menu Selection**

Bridge Contacts 1 & 2  
with wetted fingers to  
switch to other Mode.

FO2

PO2

Select FO2  
or PO2

Short Contacts 1 & 2 with a Coin  
selects the next programming option.

**PreDive Prediction**  
**Main Menu Selection**

Bridge Contacts 1 & 2  
with wetted fingers to  
access PreDive Prediction.

Predict Time (h:mm)  
(Programmed FO2 or PO2  
value influences time).

PdP

Predict  
Screen

REMAIN TIME  
1:37<sup>NDC</sup>

PO2

DEPTH  
50

Calculated PO2  
(Computed from FO2  
Blend #1 Set Point  
for predict depth.)

Predict Depth  
(Bridge Contact 1 & 2  
with wetted finger to  
increment depth.)

**Information Screen**  
**Main Menu Selection**

Bridge Contacts 1 & 2  
with wetted fingers to  
access Information.

Mode/Blend Identifiers  
(F0=Air only, F1=1 FO2  
F2=2 FO2, P1=1 PO2,  
P2=2PO2.)

Inf

Information  
Screen

Inf

F1

c09

b30

a03

Short Contacts 1 & 2 with a Coin  
selects the next programming option.

CNS Oxygen  
Toxicity in %

Battery  
Voltage

OTU Oxygen  
Toxicity in %

**Information Screen**  
**Alternate Display**

Tap the Unit's face  
to access Alternate  
Display Information.

Information  
Screen

o16

H54

n30

Oxygen %  
in Blend #1

Helium %  
in Blend #1

Nitrogen %  
in Blend #1

**Depth Alarm**  
**Main Menu Selection**

Bridge Contacts 1 & 2  
with wetted fingers to  
access Depth Alarm.

Short Contacts 2 & 3 with Coin  
to increment digit value.  
(Digit being programmed flashes)

dEP

AL

Setting  
Depth

dEP

AL

122

Short Contacts 1 & 2 with a Coin  
selects the next programming option.

Depth Alarm can be set from 0 to 320 Feet

Bridge Contacts 1 & 2 with wetted  
fingers to select next digit.

**Conservatism**  
**Main Menu Selection**

Bridge Contacts 1 & 2  
with wetted fingers to  
access Conservatism.

Short Contacts 2 & 3 with Coin  
to increment digit value.  
(Digit being programmed flashes)

Con

Setting  
Conservatism

Con

15

Short Contacts 1 & 2 with a Coin  
selects the next programming option.

Conservatism can be set from 0 (no conservatism) to 50 (Maximum conservatism)

Bridge Contacts 1 & 2 with wetted  
fingers to select next digit.

- Shorting contacts 1 & 2 with a wet finger makes the next digit flash.
- Touch Programming is automatically terminated after 5 minutes of no activity.
- Touch Programming is automatically terminated if a dive is started.
- Always scroll back through data to ensure it was entered and stored as desired.
- CLOCK comes from the factory disabled. If enabled, "CLC" will be the first screen seen in Touch Programming. See back page for details.
- Shorting contacts 2 & 3 with a wet finger or coin increments the digit that is flashing.

**Set Default Blend PO2**  
**Main Menu Selection**

Bridge Contacts 1 & 2  
with wetted fingers to  
access Default Blend PO2.

Short Contacts 2 & 3 with Coin  
to increment digit value.  
(Digit being programmed flashes)

PO2

1

130

Setting  
Blend #1

Short Contacts 1 & 2 with a Coin  
selects the next programming option.

Bridge Contacts 1 & 2 with wetted  
fingers to select next digit.

**Set Default Blend O2%**  
**Main Menu Selection**

Bridge Contacts 1 & 2  
with wetted fingers to  
access Default Blend O2%.

**Set Diluent O2%**  
**Main Menu Selection**

O2

1

160

Setting  
O2 %

O2

1

160

Short Contacts 1 & 2 with a Coin  
selects the next programming option.

Default Blend O2 percentage can be set from 5.0 to 99.9%.

Bridge Contacts 1 & 2 with wetted  
fingers to select next digit.

**Set Default Blend Helium %**  
**Main Menu Selection**

Bridge Contacts 1 & 2  
with wetted fingers to  
access Default Blend Helium %.

**Set Diluent Helium %**  
**Main Menu Selection**

HE

1

700

Setting  
O2 %

HE

1

700

Short Contacts 1 & 2 with a Coin  
selects the next programming option.

Default Blend Helium percentage can be set from 0.0 to 95.0%.

Bridge Contacts 1 & 2 with wetted  
fingers to select next digit.

**Set Deco Blend PO2**  
**Main Menu Selection**

Bridge Contacts 1 & 2  
with wetted fingers to  
access Deco Blend PO2.

Short Contacts 2 & 3 with Coin  
to increment digit value.  
(Digit being programmed flashes)

PO2

2

070

Setting  
Deco Blend

Short Contacts 1 & 2 with a Coin  
selects the next programming option.

Bridge Contacts 1 & 2 with wetted  
fingers to select next digit.

Deco Blend PO2 from 0.50 to 1.50 ata.

**Set Deco Blend O2%**  
**Main Menu Selection**

Bridge Contacts 1 & 2  
with wetted fingers to  
access Deco Blend O2%.

**Set Deco Diluent O2%**  
**Main Menu Selection**

O2

2

360

Setting  
O2 %

O2

2

360

Short Contacts 1 & 2 with a Coin  
selects the next programming option.

Deco Blend O2 percentage can be set from 5.0 to 99.9%.

Bridge Contacts 1 & 2 with wetted  
fingers to select next digit.

**Set Deco Blend Helium %**  
**Main Menu Selection**

Bridge Contacts 1 & 2  
with wetted fingers to  
access Deco Blend Helium %.

**Set Deco Diluent Helium %**  
**Main Menu Selection**

HE

2

300

Setting  
O2 %

HE

2

300

Short Contacts 1 & 2 with a Coin  
selects the next programming option.

Deco Blend Helium percentage can be set from 0.0 to 95.0%.

Bridge Contacts 1 & 2 with wetted  
fingers to select next digit.



# Cochran

Undersea Technology

[www.divecochran.com](http://www.divecochran.com)

Ph 972.644.6284 800.856.3483 (US)  
Fax 972.644.6286 877.288.3483 (US)

PROGRAMMING SCREENS

**Commander EMC-20H**  
**Two Blend FO2/PO2**  
**with Helium**

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**Set Deco Blend**  
**Time Benchmark**  
**Main Menu Selection**

Bridge Contacts 1 & 2  
with wetted fingers to  
access Time Benchmark.

Short Contacts 2 & 3 with Coin  
to increment digit value.  
(Digit being programmed flashes)

dEC

b

600

Setting  
Time  
Benchmark

dEC

b

070

Short Contacts 1 & 2 with a Coin  
selects the next programming option.

Deco Blend Bottom Time Benchmark can be set from 0 to 999 minutes

Bridge Contacts 1 & 2 with wetted  
fingers to select next digit.

**Set Deco Blend**  
**Depth Benchmark**  
**Main Menu Selection**

Bridge Contacts 1 & 2  
with wetted fingers to  
access Depth Benchmark.

Short Contacts 2 & 3 with Coin  
to increment digit value.  
(Digit being programmed flashes)

dEC

d

00

Setting  
Depth  
Benchmark

dEC

d

20

Short Contacts 1 & 2 with a Coin  
selects the next programming option.

Deco Blend Depth Benchmark can be set from 0 to 999 feet

Bridge Contacts 1 & 2 with wetted  
fingers to select next digit.

**Tacilite Dwell Time**  
**Main Menu Selection**

Bridge Contacts 1 & 2  
with wetted fingers to  
access Tacilite on Time.

Short Contacts 2 & 3 with Coin  
to increment digit value.  
(Digit being programmed flashes)

rAC

dL

10

Setting  
Tacilite

rAC

dL

15

Short Contacts 1 & 2 with a Coin  
selects the next programming option.

Tacilite delay time can be set from 1 to 98. 0 = Tacilite always off. 99 = Tacilite always on.

Bridge Contacts 1 & 2 with wetted  
fingers to select next digit.

### NOTES:

#### Ascent Rate Bar Graph in Feet Per Minute (fpm)

Via the Analyst, the Ascent Bar Graph can be set to:  
- Variable-by-depth where Bar value determined by depth:  
59 to 30 feet - 60 fpm  
Less than 30 feet - 30 fpm  
- Proportional Each Bar is 20% of selected rate  
- Fixed (Speed) Each bar is 10 fpm  
- Sensitivity from 0 to 7 (See Manual)

Greater than 60 Feet Per Minute,  
WARNING and top bar of graph will flash.

Current factory settings for the Ascent  
Rate Bar Graph are: Variable-by-depth,  
Proportional, with a Sensitivity of '3'  
(Nominal). Subject to change without  
notice.

Fixed at 60 fpm

A 50 fpm or more  
S 40 To 49 fpm  
C 30 To 39 fpm  
E 20 To 29 fpm  
N 10 To 19 fpm  
T

Variable-by-depth and Proportional Selected  
Depth less than 30 ft

A 25 fpm or more  
S 20 To 24 fpm  
C 15 To 19 fpm  
E 10 To 14 fpm  
N 5 To 9 fpm  
T

Depth Greater than 60 ft

A 50 fpm or more  
S 40 To 49 fpm  
C 30 To 39 fpm  
E 20 To 29 fpm  
N 10 To 19 fpm  
T