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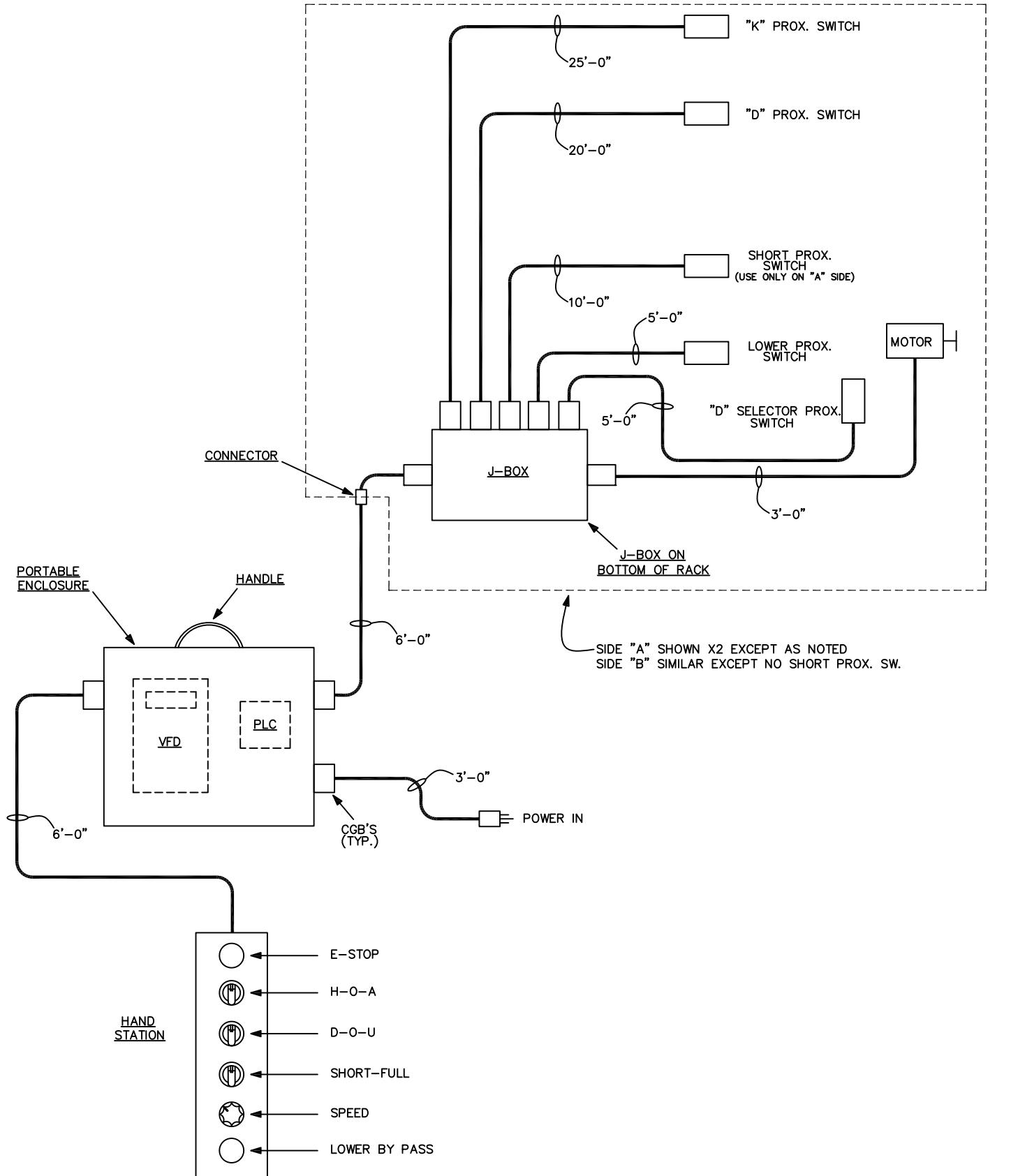
# COX

Research and Technology, Inc.

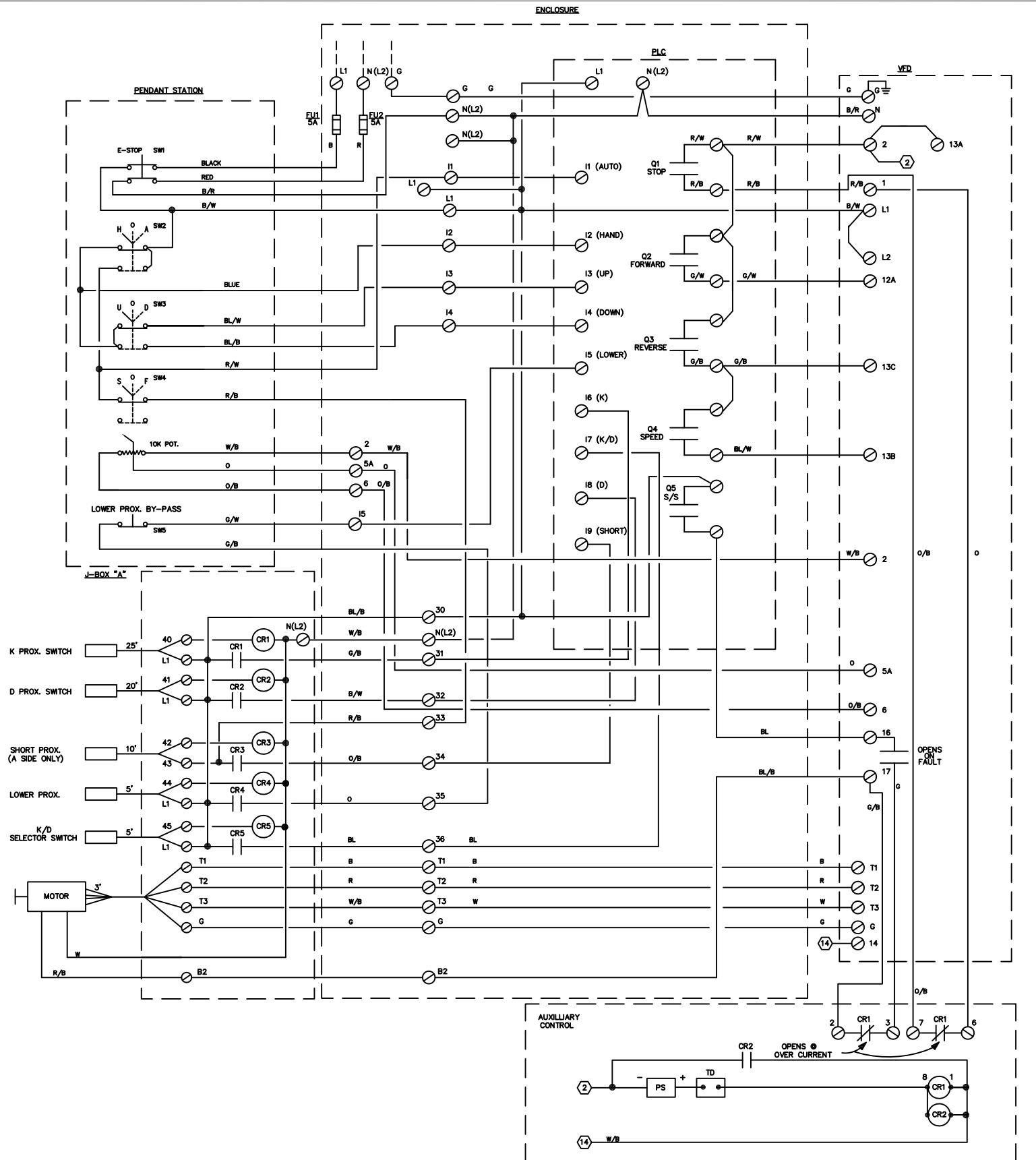
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CONTROL PANEL  
PINE BEND  
BUNDLE WASHER  
CONTROL PROCESS DESCRIPTION

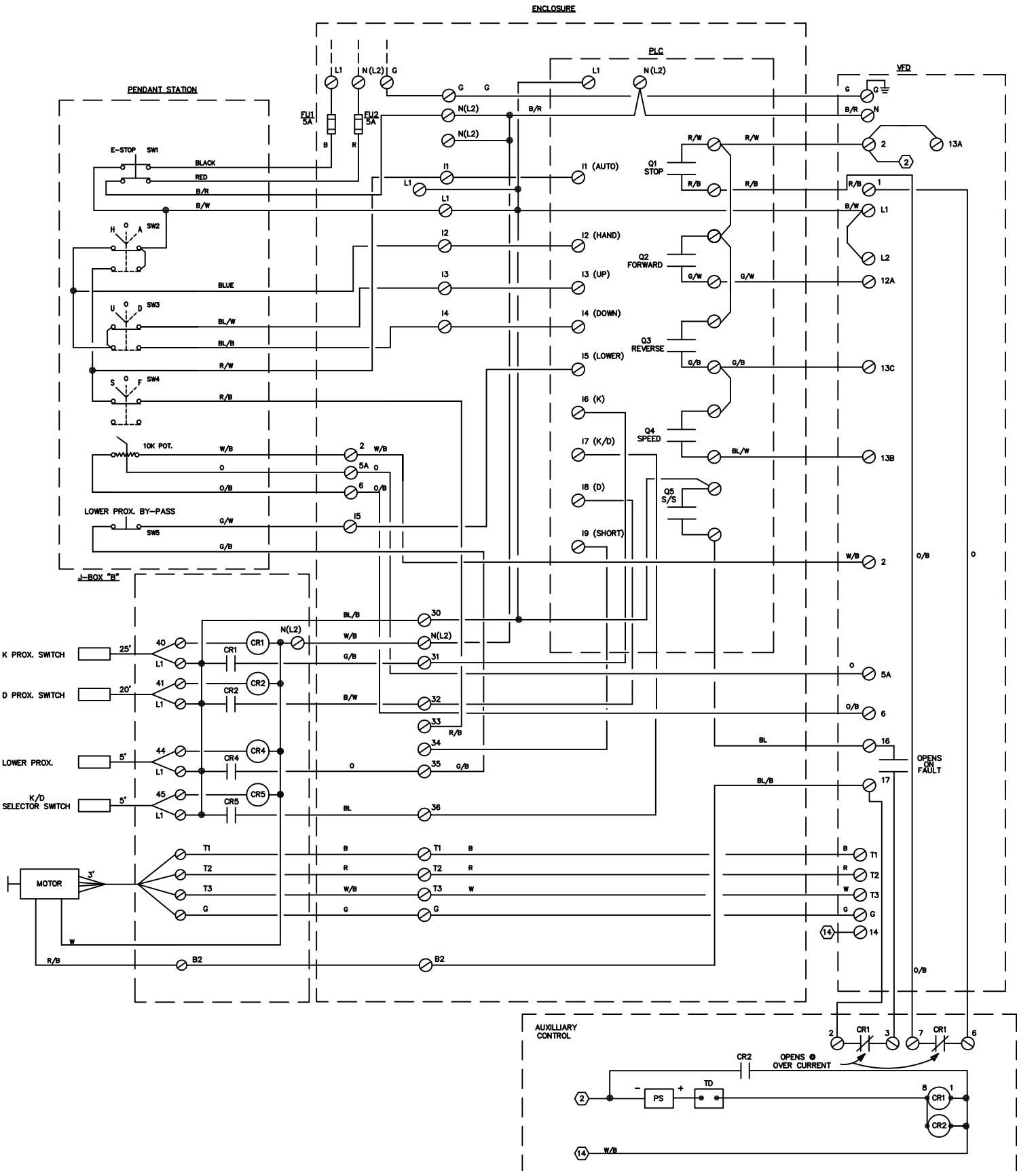
Cox Research and Technology, Inc.  
14697 S. Harrells Ferry Road  
Baton Rouge, LA. 70816  
(225) 756-3271 Fax (225) 755-1030



|                 |                                |                               |   |     |   |      |                             |  |
|-----------------|--------------------------------|-------------------------------|---|-----|---|------|-----------------------------|--|
|                 | Drawing Title                  |                               |   |     |   |      |                             |  |
|                 | CONTROL<br>GENERAL ARRANGEMENT |                               |   |     |   |      |                             |  |
| DATE<br>3/15/04 | REFERENCE DRAWING<br>S/N       | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>Application Engineer<br>R.C. | ECN | DATE  | BY   |                             |  |
|                 |                                |                               | DRAWN<br>BY C. RACHAL                             |     | APPROVED<br>BY  | DATE |                             |  |
|                 | Project Title                  |                               | COX<br>Research and Technology, Inc.              |     | PURCHASE ORDER NUMBER<br>P.O. Box 77808<br>Baton Rouge, LA<br>70809<br>Ph. (225)756-3271<br>Fax (225)756-1030 |      | DRAWING NUMBER<br>CP-1598r1 |  |
|                 | BUNDLE WASHER                  |                               |   |     | SHEET NUMBER<br>1   |      |                             |  |



|  |  |                          |   |  |   |
|--|--|--------------------------|---|--|---|
|  | Drawing Title<br><b>CONTROL<br/>GENERAL ARRANGEMENT<br/>"A" SIDE</b> |                          |   |  |   |
|  |  |                          | 1   | ADDED CR6 & POWER SUPPLY   | 3/15/04 RC  |
|  | DATE<br>3/15/04  | REFERENCE DRAWING<br>S/N | NO.<br>Sales Engineer<br>C.C.               | REVISION-LOCATION<br>Application Engineer<br>R.C.                                    | ECN<br>DRAWN<br>BY C. RACHAL<br>APPROVED<br>BY DATE                 |
|  | Project Title<br><b>BUNDLE WASHER</b>                                |                          | <b>COX</b><br>Research and Technology, Inc. | P.O. Box 77808<br>Baton Rouge, LA<br>70809<br>Ph. (225)756-3271<br>Fax (225)756-1030 | PURCHASE ORDER NUMBER<br>DRAWING NUMBER CP-1598r1<br>SHEET NUMBER 2 |



|                 |  |   |   |  |   |
|-----------------|--|---|---|--|---|
|                 | Drawing Title<br><b>CONTROL<br/>GENERAL ARRANGEMENT<br/>"B" SIDE</b> |   |   |  |   |
|                 |  | 1   | ADDED CR6 & POWER SUPPLY                          |  | 3/15/04 RC  |
|                 | REFERENCE DRAWING<br>S/N   | NO.<br>Sales Engineer<br>C.C.               | REVISION-LOCATION<br>Application Engineer<br>R.C. | ECN<br>DRAWN<br>BY C. RACHAL   | DATE<br>APPROVED<br>BY DATE   |
| DATE<br>3/15/04 | Project Title<br><b>BUNDLE WASHER</b>                                |   |   | P.O. Box 77808<br>Baton Rouge, LA<br>70809<br>Ph. (225)756-3271<br>Fax (225)756-1030 | PURCHASE ORDER NUMBER<br><br>DRAWING NUMBER CP-1598r1<br>SHEET NUMBER 3 |
|                 |  | <b>COX</b><br>Research and Technology, Inc. |   |  |   |

|   |  |
|---|--|
| Drawing Title<br><b>PECKER HEAD</b><br><b>CONNECTIONS</b><br><hr/> DATE<br>3/15/04<br><hr/> Project Title<br><b>BUNDLE WASHER</b><br><hr/>  | <p style="text-align: center;"><b>PECKER HEAD</b></p> <p style="text-align: center;">SO CORD FROM J-BOX</p> <p style="text-align: center;">NOT USED      BLUE      ORANGE      WHITE      RED/BLACK</p> <p style="text-align: center;">BLACK      WHITE/BLACK      RED</p> <p style="text-align: center;">GREEN</p> <p style="text-align: center;">MOTTA      MOTTA</p> <p style="text-align: center;">TO MOTOR BRAKE (EXISTING)</p> <p style="text-align: center;">PINK (T1)      PINK (T7)<br/>WHITE (T3)      WHITE (T9)<br/>GREY (T2)      GREY (T8)<br/>(T6)      (T4)<br/>(T5)</p> |
| REFERENCE DRAWING NO. REVISION-L-LOCATION ECN DATE BY<br>S/N Sales Engineer Application Engineer R.C. DRAWN BY APPROVED DATE PURCHASE ORDER NUMBER<br>C.C. BY DATE PURCHASE ORDER NUMBER<br><hr/> COX<br>Research and Technology, Inc.<br><hr/> P.O. Box 77308<br>Baton Rouge, LA<br>70809<br>Ph. (225)756-3271<br>Fax (225)756-1030<br><hr/> DRAWING NUMBER CP-15981<br>SHEET NUMBER 4 |  |

PARAMETER 52: TB14 OUT (OPEN COLLECTOR OUTPUT)  
THIS IS SET TO I LIMIT (CURRENT LIMIT)  
TO ADJUST THE POINT OF TRIP, GO TO  
PARAMETER 16 CURRENT. THIS IS FACTORY  
SET @ 25% OF THE OUTPUT CURRENT OF  
THE DRIVE (2.2A). THE CURRENT LIMIT SHOULD  
TRIP AND SHUT DOWN THE DRIVE AT .55A.  
A TIME DELAY IS INSTALLED SO THAT ON INITIAL  
START UP, THE DRIVE WILL NOT TRIP ON HIGH  
CURRENT FOR AN ADJUSTABLE AMOUNT OF TIME.  
THIS IS FACTORY SET AT .2 SEC.

TO ADJUST CURRENT LIMIT:

PRESS  AND USE  TO ENTER 0019 AS PASSWORD.

PRESS .

PRESS  UNTIL CURRENT APPEARS ON THE SCREEEN.

PRESS .

THE SCREEN SHOULD SHOW 25%.

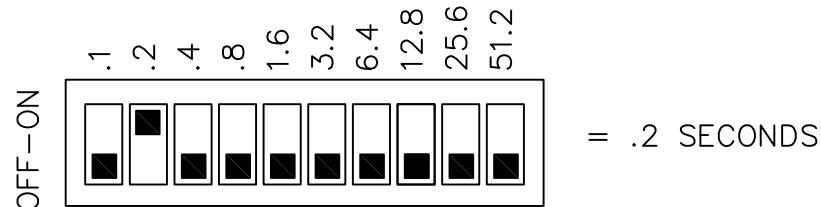
PRESS  TO RAISE THE % OF DRIVE OUTPUT CURRENT TO BE USED.

PRESS .

WHEN FINISHED, PRESS .

WE RECOMMEND ADJUSTING THE % CURRENT BY ONLY A SMALL AMOUNT  
AT A TIME, AND RETESTING TO SEE IF THE DRIVE TRIPS.

TO ADJUST THE TIME DELAY, SIMPLY MOVE THE DIP SWITCHES UP OR DOWN.  
COMBINE TIMES FOR TOTAL TIME IN SECONDS.



WHEN DRIVE TRIPS ON HIGH CURRENT, IT LOCKS OUT. TO RESET LOCKOUT,  
TURN POWER OFF AND BACK ON BY PUSHING AND PULLING THE EMERGENCY STOP  
BUTTON ON THE HAND STATION, OR BY UNPLUGGING THE UNIT AND THEN  
PLUGGING IT BACK IN AGAIN.