Aquavar IPC Backward Compatibility for Duplex

**WIRING (should be completed):**

- Terminal # 5 from the MCO301 card to #69 on the RS485 on your other drive.
- Terminal #7 from the MCO301 card to #68 on the RS485 on your other drive.
- Please note only one transducer is required. The transducer will be wired into the master drive.

![Updated IPC with MC301 Card](image1)

**Install Transducer Cable on Master Drive:**

- Brown on Terminal 12 (24V)
- White on Terminal 53 (4-20MA)
- Place ground shield between spring clip and shielded cable.
PROGRAMMING MASTER DRIVE:

Perform three finger reset (Status + Main Menu + OK) while powering on.

Select North America

Select English US

Select booster or HVAC

Select motor power and voltage

Select frequency and motor speed

Input motor current and current limit
Select motor type

Select 30 hz for sleep frequency / low limit

Select filter type if applicable

Select yes to continue the application setup

Select multi-pump control

Select fixed master synch
Select constant pressure for application type

Select psi for pressure control units

Select fast for ramp time

Select number of pumps (up to 4 total)

Select 0 for standby pumps

Select yes for autoset
Enter setpoint

Scroll through and acknowledge your autoset parameters (total of four screens) and press Ok to complete your start-up genie

Go into Menu 8-32 and change the baud rate to (7) 115200

Press status key to exit to main screen
INSTRUCTIONS FOR PROGRAMMING FOLLOWER DRIVE:

For other drives, perform three finger reset (Status + Main Menu + OK) while powering on.

Select your language

Select application type

Input only your motor parameters in the start-up genie

Press status key to exit to main screen

Select motor power and voltage

Select frequency and rpm

Select motor current and current limit
INSTRUCTIONS FOR PROGRAMMING FOLLOWER DRIVE: (cont.)

Select motor type

Select 30 hz for sleep frequency / low limit

Select filter type if applicable

Select no for continue to the application setup

Select OK

Go to the main menu and menu 1-00 and select (0) open loop
INSTRUCTIONS FOR PROGRAMMING FOLLOWER DRIVE: (cont.)

Menu 8-31 select the address for the drives (up to four)
Master should always be address #1
Second drive would be address #2

Menu 8-32 Select (7) 115200 for baud rate

Menu 6-17 select (0) disabled

Menu 22-23 no flow detection
Select (1) sleep mode

Change 0-23 display line large to (1617) speed RPM

Power cycle drives so they can then synchronize together and establish communication.

Press Auto on all drives.