Softlog Systems (2006) Ltd.

ICP2-COMBO-12: Address Assignment to Programmer

1 Background

- ICP2-COMBO-12/ICP2-COMBO(G3)-12 ("programmer unit") logically consists of 3 "boxes", i.e. 1 box = 4 channels
- Only one box at the same time can be "learned/assigned" by "Programmer → Assign Address to GANG/COMBO Box"
- Jumper JP1 is used to disable "boxes" which don't "participate" in the assignment procedure
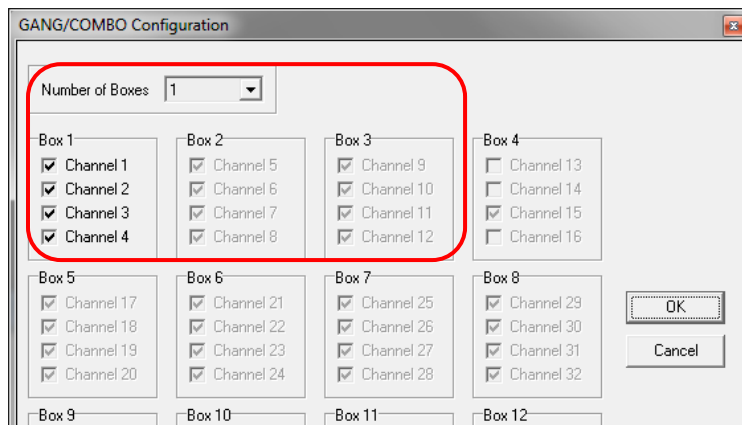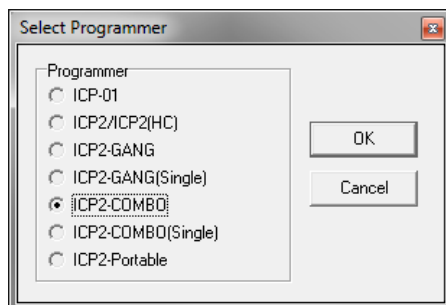- USB interface <mark>only</mark> must be used for the learn procedure

2 <mark>Important</mark>

- "RS-232 Default Baud Rate" in chained programmers (channels 13…) should be set according to primary interface connection:
  - USB: 115KBaud (default, recommended) or 460KBaud
  - RS-232: 115KBaud (default)
  - LAN: **460**KBaud, ICP2-COMBO(**G3**) only
- Minimum firmware for LAN chained connection: 33.7 (Jul-2020)
- **All** programmer channels in the chain must have the same DLL/Command Line Activation (-D): "YES" for all or "NO" for all
- Apply power OFF/ON cycle for **all** programmer units after the primary interface is changed
- Firmware upgrade for entire chain (if required) should **not** be done via LAN interface
- Good ventilation should be provided

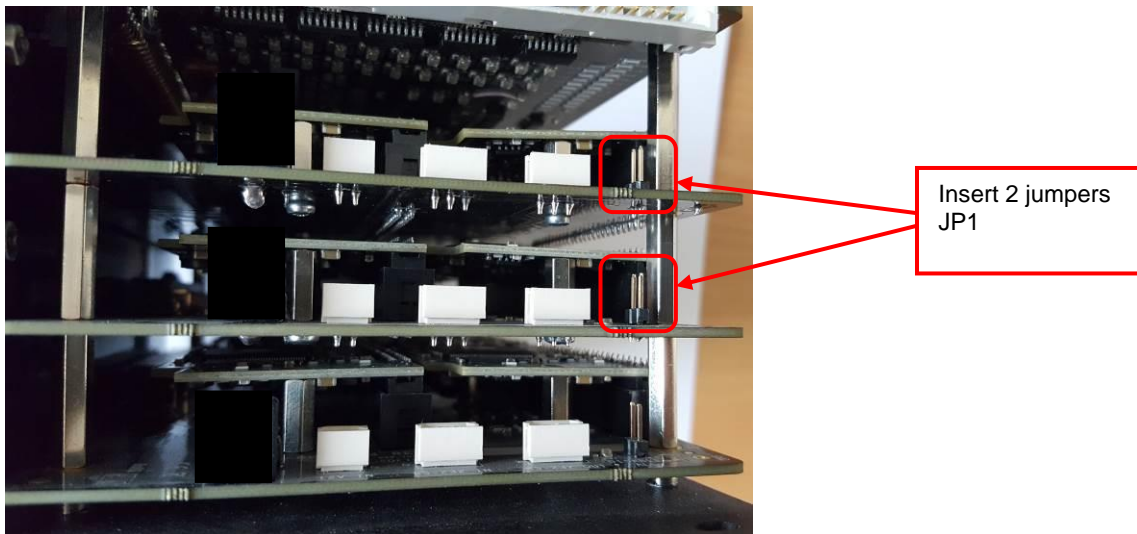## 3 Address Assignment for Channels 13-24 (One-Time Procedure)

3.1 Step 1: Run ICP for Window

- Connect a programmer unit to be used as channels 13-24
- Run ICP for Windows
- Select ICP2-COMBO with **4** channels (Number of boxes = 1)
- Validate that communication with the programmer is OK (but ignore communication error if the programmer is already assigned to channels 9-16 or higher)
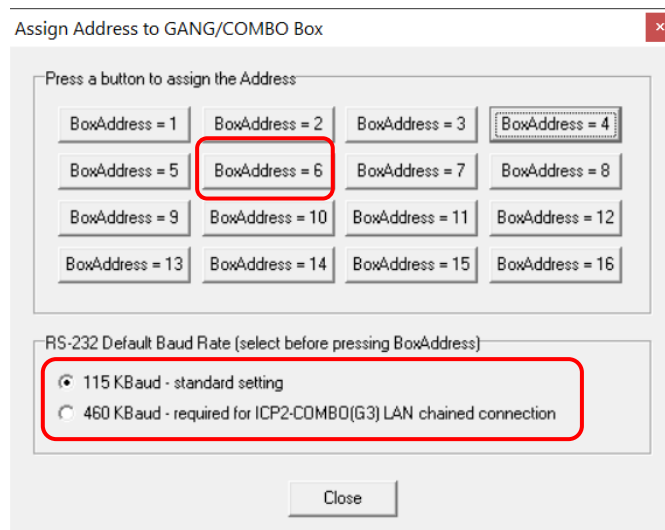
3.2 Step 2: Assign new box number for channels 9-12

- Insert jumpers JP1 to disable channels 1-4 and 5-8
- **ATTENTION:** If "USB" LED is not ON then contact Softlog Systems (don't continue, workaround is required)
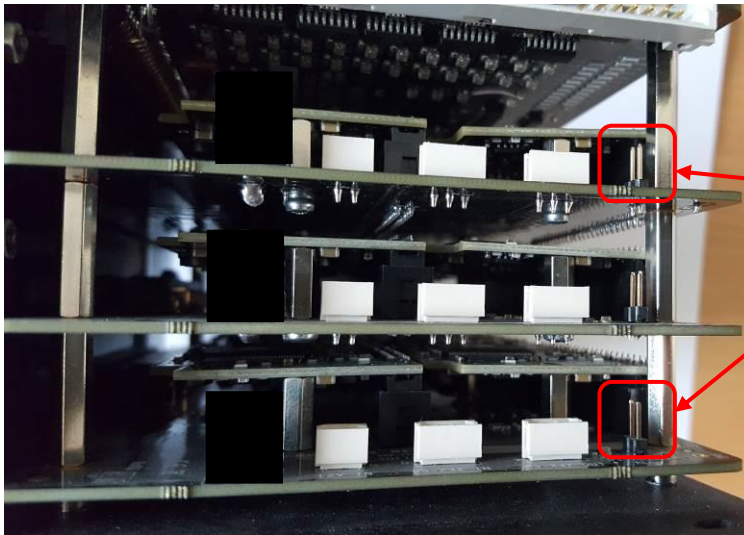

Insert 2 jumpers JP1

- Enter Programmer → Assign Address to GANG/COMBO Box:
  - set "RS-232 Default Baud Rate" as shown below
  - press BoxAddress BoxAddress=**6**

- Remove jumpers JP1
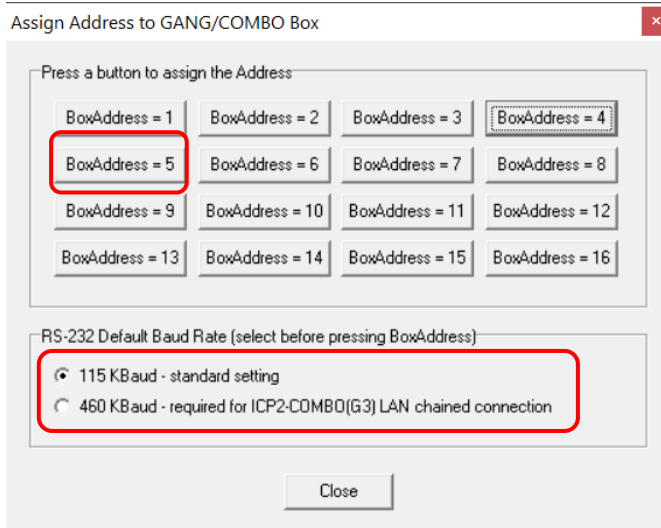- **IMPORTANT:** Turn power OFF and then ON

3.3 Step 3: Assign new box number for channels 5-8

- Insert jumpers JP1 to disable channels 1-4 and 9-12
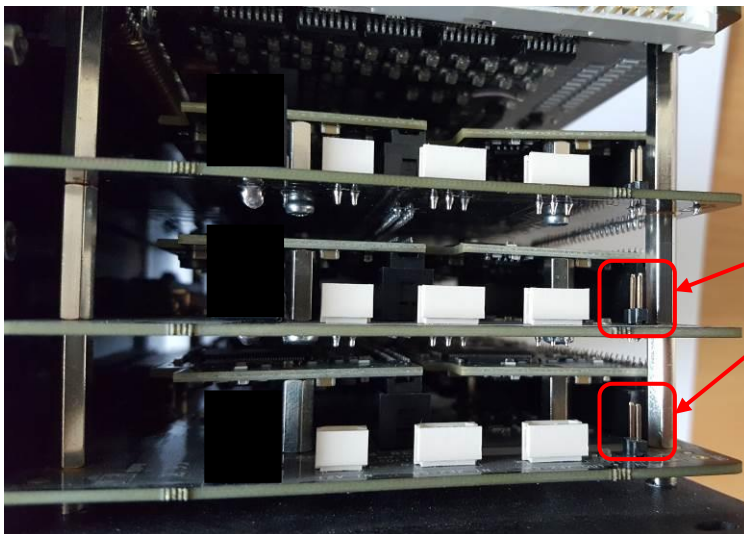
Insert jumpers JP1

- Enter Programmer → Assign Address to GANG/COMBO Box:
  - set "RS-232 Default Baud Rate" as shown below
  - press BoxAddress=**5**

- Remove jumpers JP1
- **IMPORTANT:** Turn power OFF and then ON

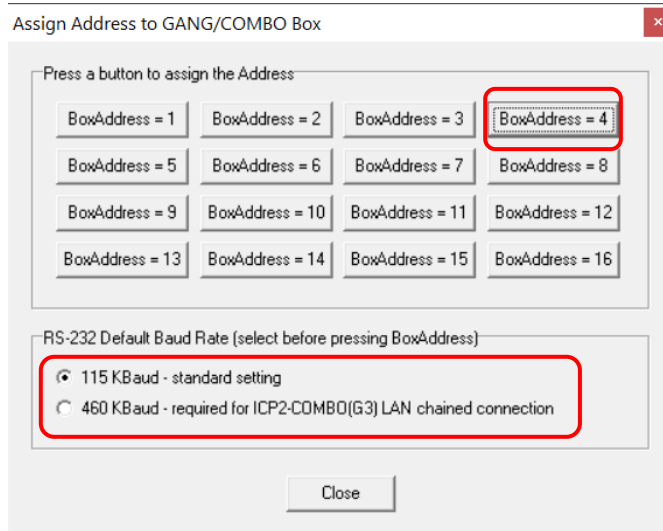### 3.4 Step 4: Assign new box number for channels 1-4

- Insert jumpers JP1 to disable channels 5-8 and 9-12

Insert jumpers JP1

- Enter Programmer → Assign Address to GANG/COMBO Box:
  - set "RS-232 Default Baud Rate" as shown below

- press BoxAddress = **4**

3.5   Step 4: Remove all jumpers JP1

- Remove all jumpers JP1
- **IMPORTANT:** Turn power OFF and then ON
- Place sticker **"Unit No.2 / Channels 13-24 / Baud Rate 115KBaud"** on programmer unit number 2

4   Address Assignment for Channels 25-36, 37-48 and 49-60

- Repeat paragraph 2 above for more channels if required as follows:
  - channels 25-35 as boxes 7,8 and 9
  - channels 36-48 as boxes 10,11 and 12
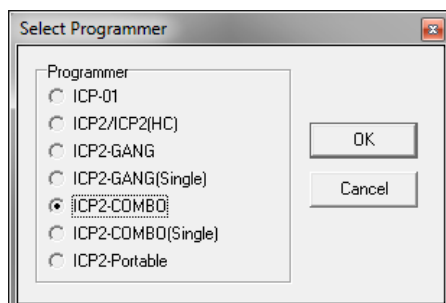 - channels 49-60 as boxes 13,14 and 15

5   Chain Connection

- **IMPORTANT:** apply power OFF/ON cycle after the assignment operations above

- Connect RS-232 output of programmer 1 (channels 1-12) to RS-232 input of programmer 2 (channels 13-24)

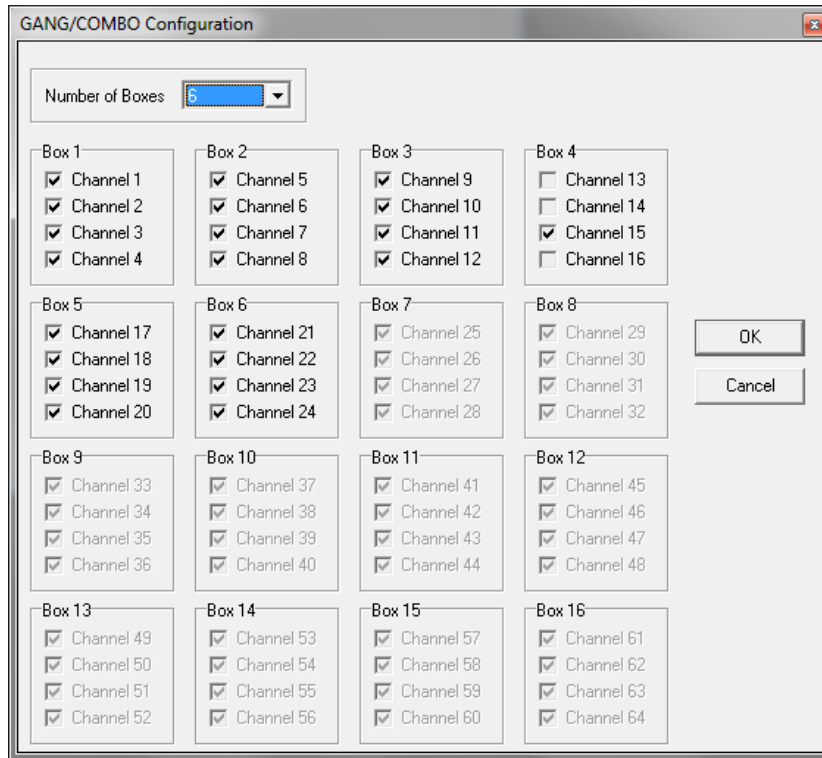| Net (as from Master)	Programmer Unit 1: Connector DIN-64	Programmer Unit 2: Connector DIN-64
GND_ISO	A2 or/and B2	A2 or/and B2
RS-232 (TX)	B4 (CHAIN_232_TXD_ISO)	B3 (PC_TXD_ISO)
RS-232 (RX)	A4 (CHAIN_232_RXD_ISO)	A3 (PC_RXD_ISO)

- If required: connect RS-232 output of programmer 2 (channels 13-24) to RS-232 input of programmer 3 (channels 25-36)

Net (as from Master)	Programmer Unit 2: Connector DIN-64	Programmer Unit 3: Connector DIN-64
GND_ISO	A2 or/and B2	A2 or/and B2
RS-232 (TX)	B4 (CHAIN_232_TXD_ISO)	B3 (PC_TXD_ISO)
RS-232 (RX)	A4 (CHAIN_232_RXD_ISO)	A3 (PC_RXD_ISO)

- Select ICP2-COMBO mode (parallel programming): Programmer → Select Programmer → ICP2-COMBO

- Select required number of channels (24 channels shown):

- Validate that all channels work: Options → Activation of Options → Summary…

6 Appendix A: Operations in Chain for ICP2(COMBO)-<u>G3</u>

##	Primary Connection	Primary Programmer: RS-232 Default Baud Rate	Programmers in Chain: RS-232 Default Baud Rate	Functionality
1.	USB	Any	Any	All operations
2.	LAN	Any	**460KBaud**	All operations **excluding firmware upgrade**
3.	RS-232, true COM port	**115KBaud**	**115KBaud**	All operations
		Any	**460KBaud**	**Communication error**
		460KBaud	Any	**Can't open port**
4.	RS-232, virtual COM port	Any	Any	All operations. Note: virtual COM supports 921KBaud or more)

7 Appendix B: Operations in Chain for ICP2(COMBO)

Note: RS-232 default baud rate is fixed to 115KBaud

##	Primary Connection	Primary Programmer: RS-232 Default Baud Rate	Programmers in Chain: RS-232 Default Baud Rate	Functionality
1.	USB	115KBaud	115KBaud	All operations
2.	LAN	115KBaud	**115KBaud**	**Can't connect to programmer in chain**
3.	RS-232, true COM port	115KBaud	115KBaud	All operations
4.	RS-232, virtual COM port	115KBaud	115KBaud	All operations

8 Revision History

- Jan-2022: added power OFF/ON cycle after every assignment operation

- Jul-2020: added "RS-232 Default Baud Rate" for proper operation with LAN connection

- Jan-2019: Original document