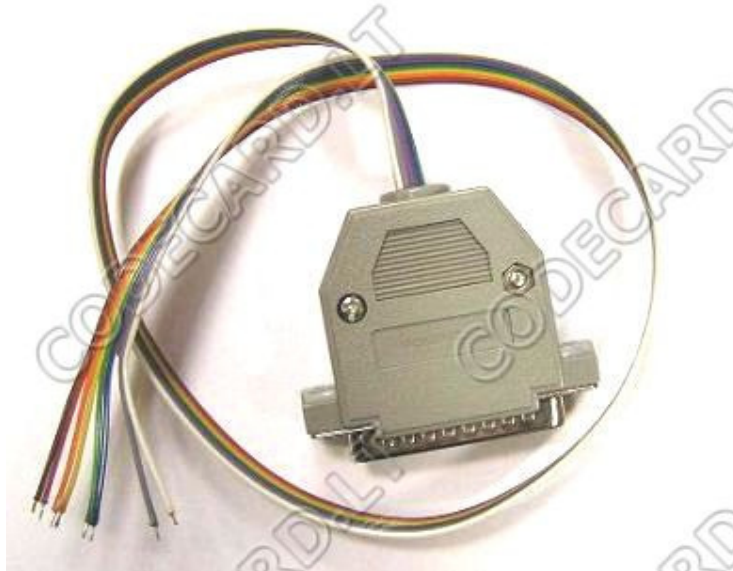


S4.4 CarProg Motorola HC08 Programmer manual

For Motorola MPU MC68HC08 series programming use A10 cable.



You can recognize Motorola (Freescale) MPU by maskset:

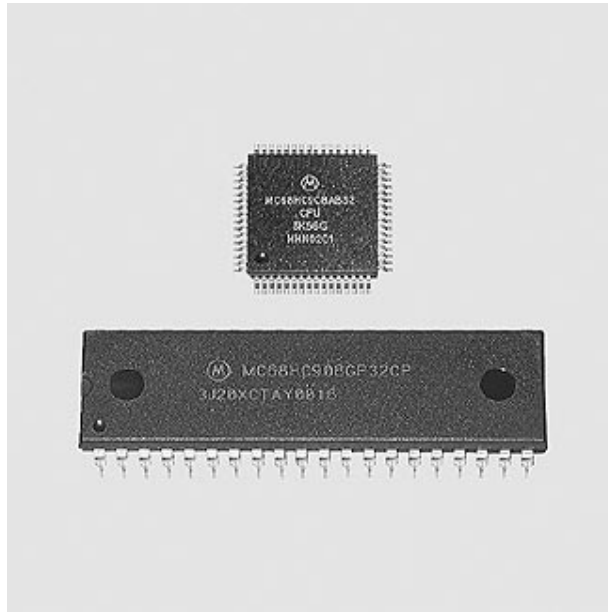


This MPU maskset is 4C11W.

- First digit "4" is mask series number, in practice can be 0, 1, 2, 3, 4 or 5, but for programming is not important.

- Second 4 symbols is always letter + digit + digit + letter: this is processor maskset or encrypted processor type. All processor marking can be custom made, like "FORD S2234234" or SC2323454 but always you can find maskset on Motorola or Freescale processors.

Before programming always select right processor type according maskset.



How to connect CarProg programmer:

For HC08 programming use A10 cable 6 color wires:

- BLUE** – Reset signal to MPU;
- ORANGE** – PTC0 signal to MPU, must be high level;
- BROWN** – GND (ground);
- GREY** – PTA0 communication signal;
- WHITE** – IRQ +8-10V signal – in most cases you must pull-up this processor pin;
- RED** – switched +5V;
- VIOLET** - switched +12V;

Troubleshooting:

CarProg ERROR messages:

- **Communication error** - no communication between CarProg and Motorola processor - check MPU type, try to select quartz frequency manually.

To understand better onboard MPU programming problems, you can use table with right programming signals and voltages, described in table.

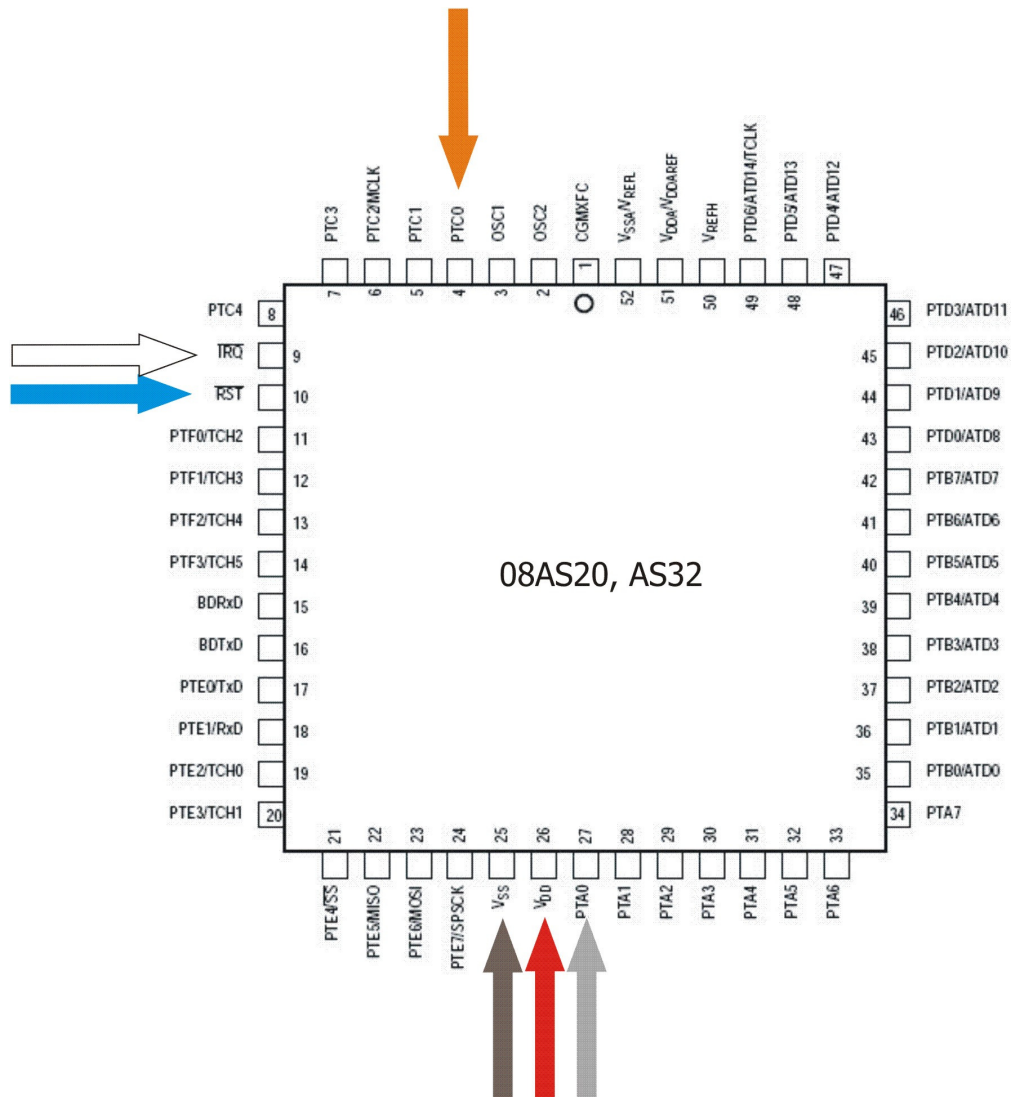
If you can't read or write MPU with CarProg, check:

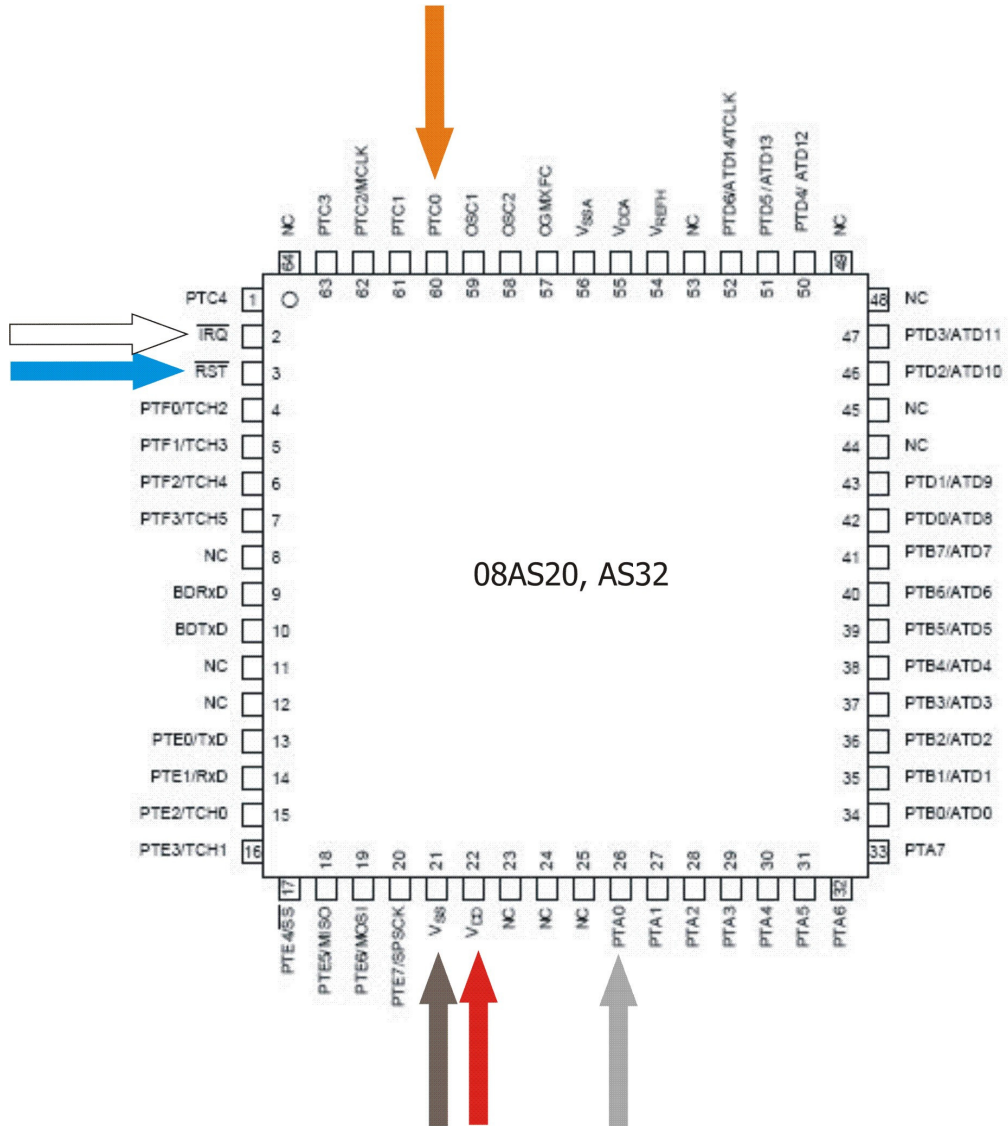
- did you was select right MPU type;
- did quartz resonator Q is the same in circuit board and in CarProg options;
- did all programming signals have right form and voltage;

	Grey PTA0	Blue RESET	Orange PTC0	White IRQ
All HC08 MPU	Impulse 3.3-5V 	Reset 	Must by HIGHT 	+9-10 V 

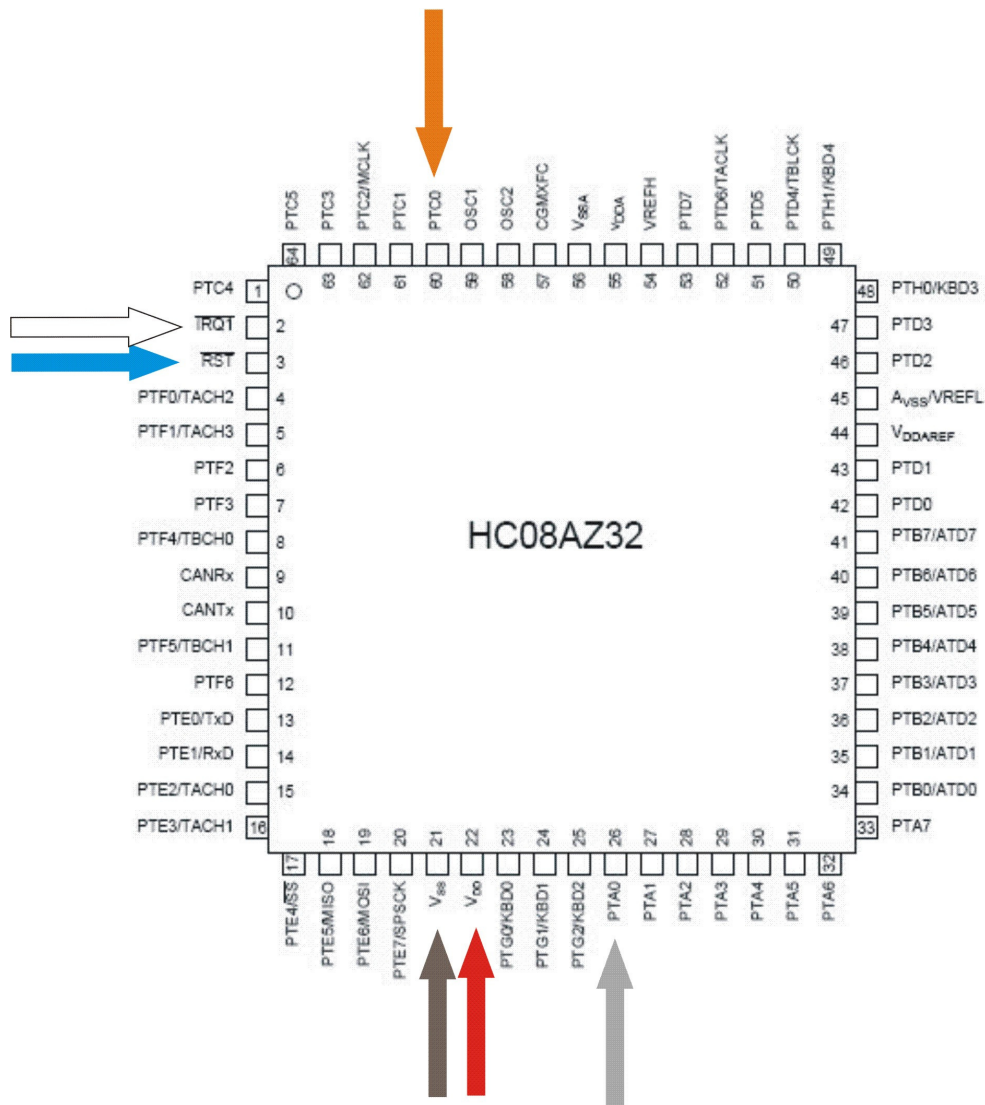
If all conditions are OK and still "no connection" ask support@codecard.lt

1. MC68HC908AS20, MC68HC908AS32

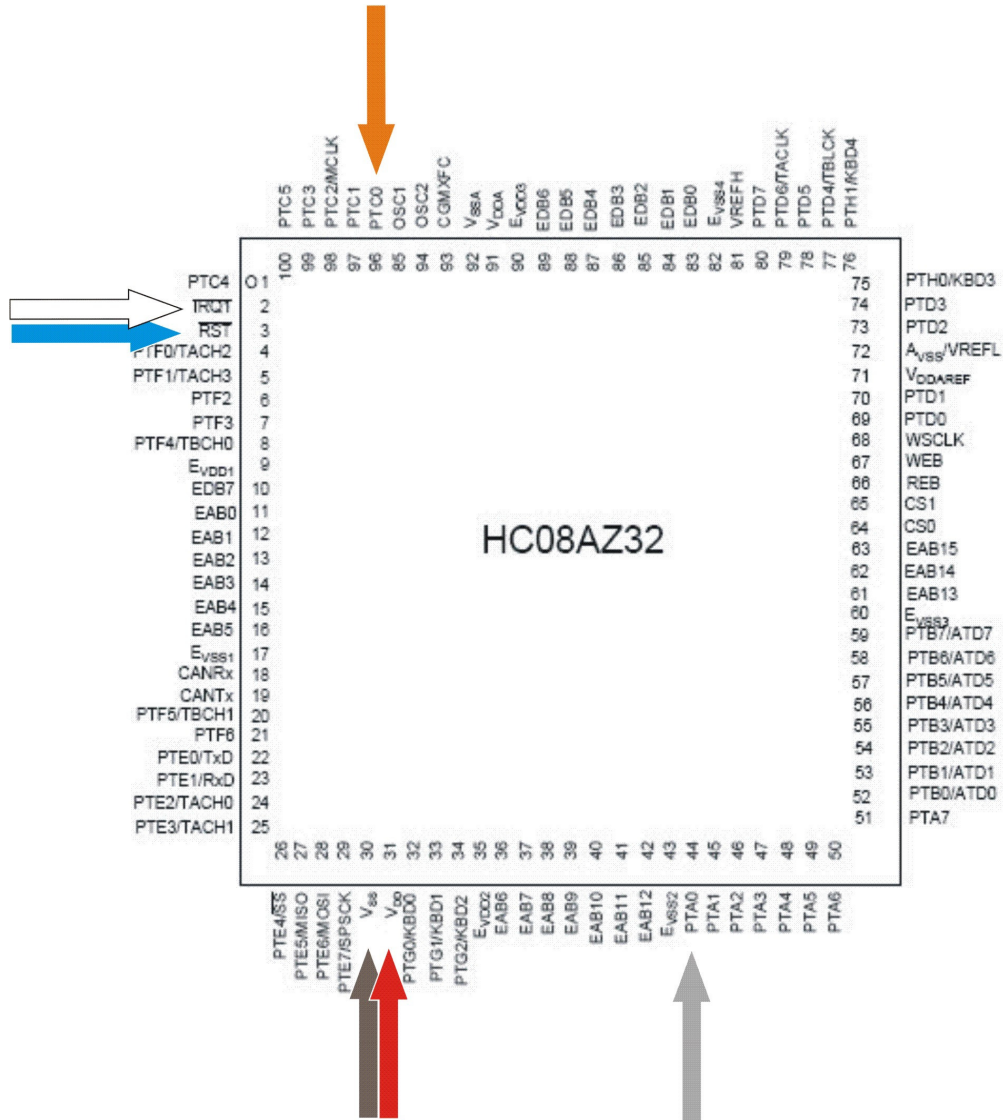




**2. MC68HC908AZ0, MC68HC908AZ16, MC68HC908AZ32, MC68HC908AZ60,
MC68HC908AZ60A, MC68HC908AB32, MC68HC908AB60**



CARPROG



3. MC68HC908AZ0 2J74Y in-circuit flash programming wiring (CarProg A10 cable)

