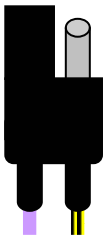


The HPI Shift Delay Function will enable you to set a period in which the ignition will have a retarded ignition (60° after 0°) or no spark all.

The flexibility of the system allows you to fully adapt it to your wishes:

- You can determine what kind of switch you use.
- You can precisely determine the length of the period.

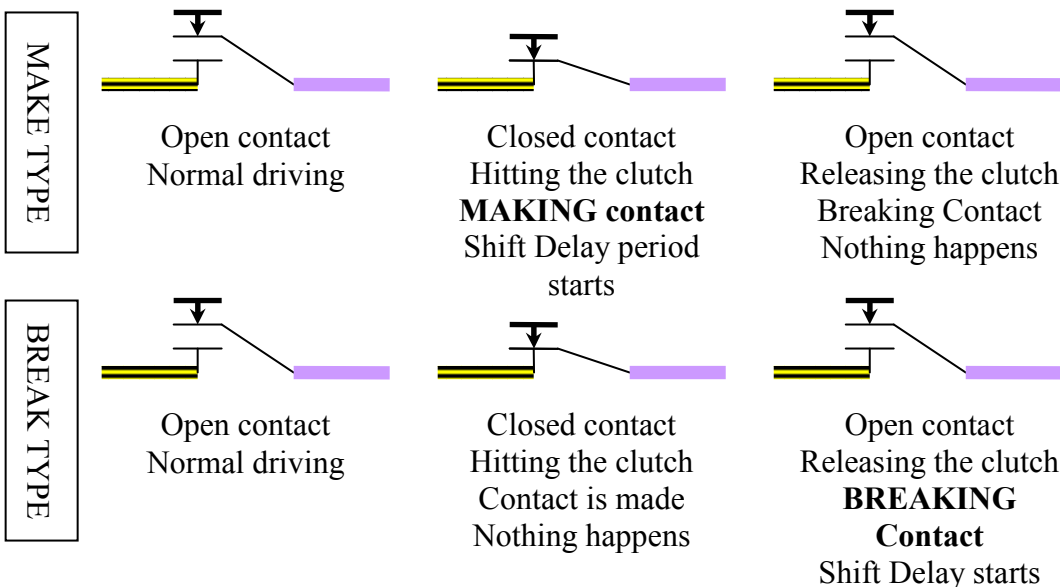
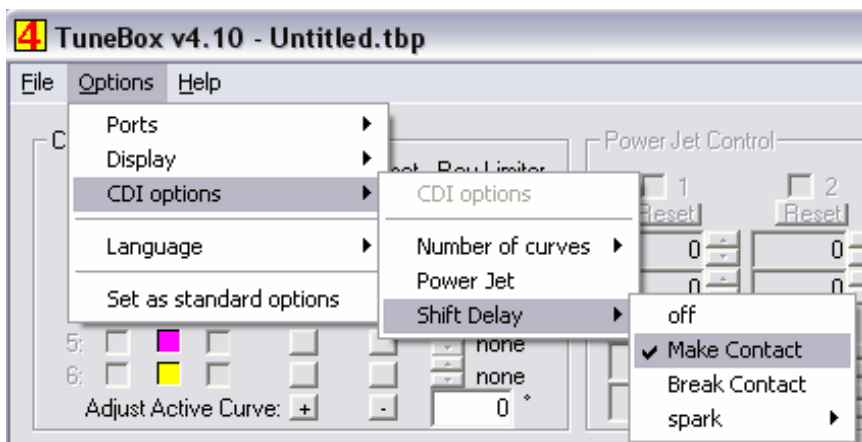
On the CDI the Shift Delay output is the 2 pole connector with a purple and a black-yellow cable.



Inside the CDI, the black-yellow cable is connected to ground or frame. The purple cable will drive the internal electronics of the CDI.

We deliver a counter part for this connector with our CDI units with Shift Delay. You can place any type of button or switch between the black-yellow and purple cable using this counter part.

In TuneBox V4, you can determine whether your CDI will react on a contact making or breaking event. To do so, go to the Options menu => CDI options => Shift Delay => choose Make Contact or Break Contact. See the images below for more more info.



INSTALLATION MANUAL

QUICK SHIFT SYSTEM

HPI – Kuilenstraat 97, 3960 Bree, Belgium
 TEL: (0032) 089-46 74 39 | FAX: (0032) 089-47 33 28 | GSM: (0032) 0495-53 90 21
 Email: hpi@hpi.be | Website: www.hpi.be

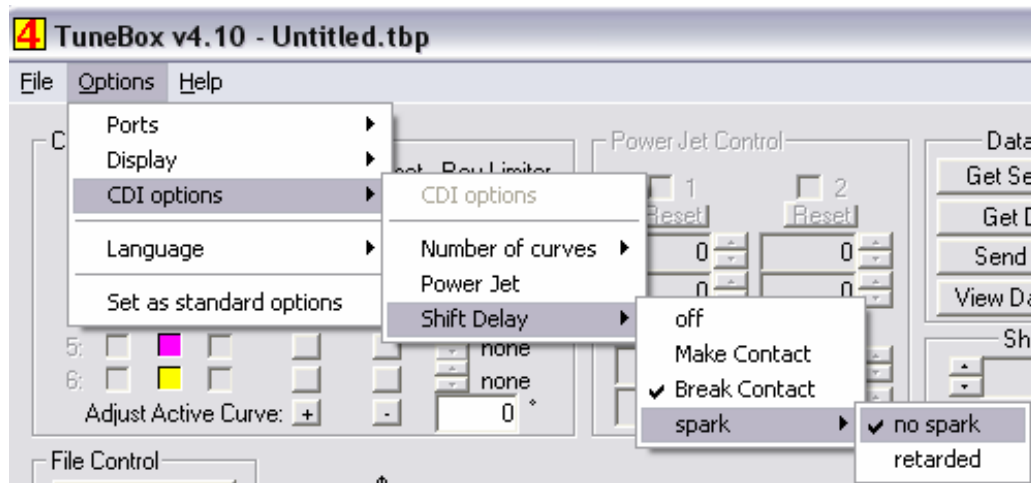
You can see in the first picture that the Shift Delay will start when you hit the clutch. In the second picture the Shift Delay period will start when you release the clutch. In both pictures a button that is normal open (black-yellow and purple not connected) is used. If you use a normal closed button, the break type will react on hitting the clutch and the make type will react on releasing the clutch.

Best is to use a button or switch with a short lever, so that the button picks up the movement of the clutch pedal very quick. The longer the lever, the longer it takes before the button will react. And that could cause the Shift Delay to start to late.

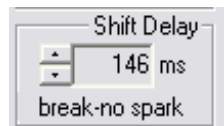
It is also important that the button is not sensitive to vibrations, these may cause to start the Shift Delay to start unwanted.

In TuneBox you can also determine whether you want the CDI to spark 60° after Top Death Point or whether you don't want a spark at all during the Shift Delay period.

Go to the Options menu => CDI options => Shift Delay => spark => choose no spark or retarded.



You can also use TuneBox to determine the length of the period that the Shift Delay effect will take place.



Use the arrow to set the period of the Shift Delay.
 You can enter any value between 0 and 1000 ms.
 In most cases a value about 200 ms is sufficient.

If you don't have a shift sensor or if you don't want to use the shift system, you can go to the TuneBox Options menu => CDI options => Shift Delay => and select off. Or you can set a period of 0 ms.

Do this to be sure that the CDI will not react on electronic noise, since it may cause the CDI start the Shift Delay unwanted.