ADVENT IGNITIONS
Anaheim, CA USA

Tempest 3 (T3)
User Guide
Sea-Doo Ignition

For use with all model years:

The Tempest 3 Model 2186 Ignition is designed for use with 1999 through 2005 Sea-Doo dual coil 951 Rave engines. Your Tempest 3 Ignition is the first of a new breed of fully integrated engine controllers.

User Guide Overview

This Ignition is designed to give you trouble-free service if used properly. Read the entire user guide before setting any switches or operating the engine. If you do not understand any portion of these instructions, please call Advent Ignitions for technical help.

Selecting the Sea-Doo Model

The T3 ignition for Sea-Doo must be set for the correct model of boat. Even though the engines are the same there are two types of electrical systems. Setting the model type switch informs the ignition how to handle these different signals from the engine.

1. Set SwB position 6 according to Figure 3 to match your model of Sea-Doo.

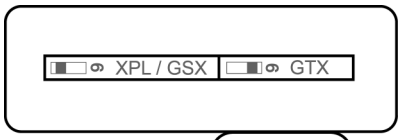

Figure 3

Note: If the switch is set incorrectly the engine will not be harmed. However, the engine will start very badly then die. If it does idle, you'll know things are not right. Set the switch to the other position and the engine will start and run properly.

Selecting an Advance Curve

Curve Selection Overview: The T3 Ignition has four built-in advance curves. The curve you select must be properly suited to the engine configuration and how you ride your boat. **Do not assume the curve with the more advanced timing is the best. Adding too much timing can lead to a large engine repair bill – please be careful – see Figure 4 for information on selecting the correct advance curve.**

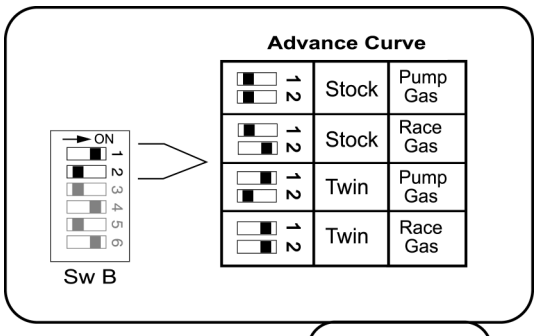

Figure 4

The best advance curve is the one that gives you the best performance. If you are not sure which curve to select, please consult with your local dealer or other qualified person to determine the optimal curve to use.

Using Figure 4 as a guide, set Switch B, positions 1 and 2, to the desired curve.

Note: The second column is an example – it will be filled in with specifics for the curve set installed in your ignition.

Setting the Rev Limiter Switches

Proper setting of the Rev Limiter RPM is important to ensure that the engine is not damaged from over-revving. The following procedure is recommended for determining the ideal limiter setting.

1. Turn all five rev limiter setting switches to the ON position (Switch A, positions 1 through 5). This sets the limit to its maximum setting of 9000 RPM.

2. Run your Sea-Doo on smooth water at the highest speed you can attain.

3. Note the RPM reading on your tachometer.

4, Return to shore and set the limiter RPM to the tachometer reading rounded up to the next 100 RPM.
Example: If you got a reading of 7750 RPM on your tachometer, set the switches at the next highest RPM setting. This would be 7800 RPM.

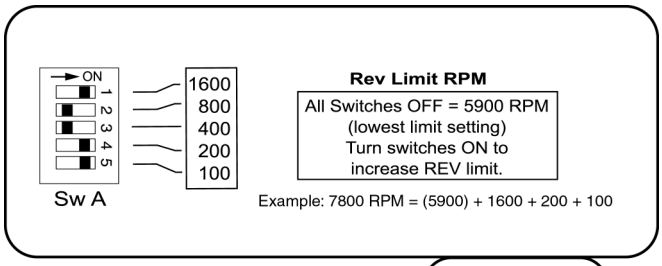

Figure 6

Programming Example

The minimum rev limiter setting is 5900rpm. Therefore you add RPM to this number to achieve the desired limit RPM.

Switch setting for 7800rpm limiter
7900rpm = (5900) + 1900.
To program 1900, refer to Figure 6 and turn ON
switch 1 (1600)
switch 4 (200)
switch 5 (100)

Switches 2 and 3 are OFF.

7900rpm = (5900) + 1600 + 200 + 100

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