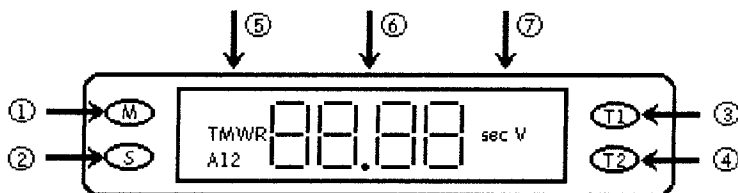**HKS**

Turbo Timer Type-0
Users Manual

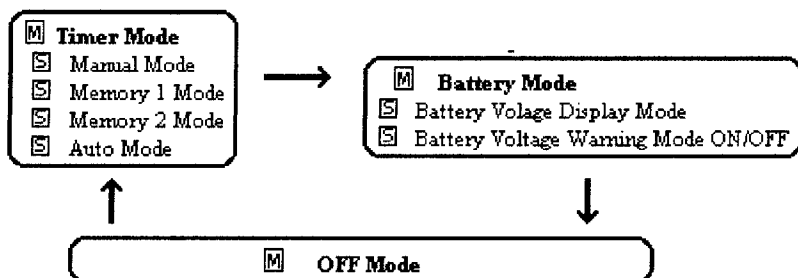## Names and functions of various parts

1. [M] switch
   - When the timer is not running, it will switch modes.
   - When the timer is running, it will shut it off (use when you want to stop the engine while the timer is counting down.)
2. [S] switch
   - It will select the functions in timer mode.
   - Use to display the voltage / voltage warning and the ON/OFF of the warning.
3. [T1] switch: Will be used for the following.
   - Increase the setting time (up).
   - While the timer is active, it will increase the active time (up).
   - Selects timer memory 1.
4. [T2] switch: Will be used for the following.
   - Decrease the setting time (down).
   - While the timer is active, it will decrease the active time (down).
   - Selects timer memory 2.
5. Turbo Timer Reset: Used when the timer is not functioning properly.
   1. Hold down the [S] switch and [T2] switch together for more than 2sec.
   2. Manual timer mode, will go back to initial settings.

Control Instructions
1. **Mode Select**

   There are 3 main modes to the turbo timer, which are shown below and in each of those there are sub modes. To change between main modes, press the [M] switch when the timer is not in effect. And to change sub modes, press the [S] switch.

   (▣ :Main Mode ⑤ :Sub Mode)

2. **Timer Mode**
   When the [S] switch is pressed during Timer Mode, it will switch sub modes.
   (1) Sub Mode settings
   (1) Manual Mode: [TM] will flash. The setup can be made between 0~10min.
       The timer setting can be made using the [T1] switch (up) and [T2] switch (down). (The setting interval is in increments of 30 sec.)
   (2) Memory 1 Mode: [TM1] will flash. A setting for a fixated timer for 1min.
       If you press the [T2] switch, it will change to memory 2, which is the fixated 3min timer.
   (3) Memory 2 Mode: [TM2] will flash. A setting for a fixated timer for 3 min.
       If you press the [T1] switch, it will change to memory 1, which is the fixated 1min timer.
   (4) Auto Mode: [TMA] will flash. This will determine the engine rpm and automatically set the timer between 0~5min due to the condition of the engine.
       · The auto setting time changes due to the rpm
       · Turn the ignition ON and if [A] is blinking, then it means that the auto setting is ready.
       · After turning on the engine, if the Turbo Timer detects the rpm, [A] will flash.
       · If you change to auto mode while the engine is running, [A] will flash and displays the auto time.
       · [A] may flash when slowing down extremely quick, but this is normal.

   (2) Timer Activation
       · When the ignition is turned OFF, the Turbo Timer will countdown according to the set time.
       · The countdown is occurs every 1 second, along with the flashing backlight and beeping taking place simultaneously.
       · When the display numbers hit 0.00 the engine will shut off along with the display.
   λ   Timer OFF function
       · If the [M] switch is pressed during the countdown, the countdown will stop and the Timer will turn OFF (the next time the ignition is turned ON, the Turbo Timer will automatically turn ON and goes back to the normal setup.)
   λ   Switching from Auto Timer to Memory Mode
       · If the [T1] switch is pressed while the auto timer is in effect, it will switch to Memory 1 Mode. And if the [T2] switch is pressed, it will switch to Memory 2 Mode.
   λ   Revising the setting time while Manual Mode is in effect
       · While the Manual Mode is in effect, press [T1] (up) or [T2] (down) to set the time in 30-second intervals (the set time for the Manual Mode will not change).
   λ   Timer function in battery mode
       · When the ignition is turned OFF while in battery mode, it will automatically go to the previous set Timer Mode and begins to countdown.

3. **Battery Voltage Mode**
   (1) Press the [M] switch to change to the Battery Voltage Mode. [V] will flash on.
   (2) Press the [S] switch to change between voltage display, warning value, and warning ON / OFF. (initial setting is at warning OFF)
       The battery voltage warning 1 is a set value of 16[V].
       The battery voltage warning 2 is a set value of 10[V].
   λ   When the warning is on, [WR] will flash on. But when it's off, [WR] will blink for 5sec and turn off.
   λ   During Warning ON, if the voltage were to exceed 16[V] or go below 10[V], the backlight will turn red and warns the driver with a beep noise.
   λ   If the [S] switch is pressed while the warning is on, it will shut the function off.

4. **OFF Mode**
   · All the displays will turn off.
   · The Turbo Timer is not active.
   · Ignition ON/OFF does not matter.
5. **Parking Brake**
   · If the ignition is turned off without the parking brake up, the Turbo Timer will not countdown and the engine will shut off.
   · If the parking brake is disabled during the countdown of the Turbo Timer, the countdown will stop and the engine will shut off.