DRIVING THE FUTURE
The new AEVIT 2.0® Driving Control System features the latest technological advancements in AEVIT® “Drive-by-Wire” adaptive driving controls. The system is sold as a totally integrated unit that contains both primary and secondary controls.

The following is a list of the major components found in the new AEVIT 2.0®:

• **Servomotor**: The same dual wound redundant servomotor with (3) safety critical feedback channels as found in AEVIT 1.0®. These powerful servos are used to directly control the gas/brake and/or steering functions.

• **Input Devices** – The same safety critical electronics as found in AEVIT 1.0® but with a brand new look! All of the input devices have been redesigned to be smaller and lighter, as well as more ergonomic and attractive. The neutral gray color matches almost every vehicle interior! The plug and play design allows you to choose from any of the input devices to configure your AEVIT 2.0® Driving Control System. See additional information on the next page.

• **AEVIT Chassis**: This component is brand new to the AEVIT 2.0® Driving Control System! It replaces the older AEVIT Mounting System (AMS) and takes up 40% less space. Measuring a mere 12”L x 7”W x 12”H, it saves valuable floor space in the vehicle. The main purpose of the AEVIT Chassis is not only to house the primary control modules, but also allow for quick removal of any module for service. Each module is locked into the chassis with only (2) screws using a custom designed “wedge-lock” system. The chassis housing also serves as the strain relief point for all primary control wire harnesses so removing a module takes only a few seconds.

• **Vehicle Interface Module (VIM)**: This component is also brand new to the AEVIT 2.0® Driving Control System! It may look like the Gold Series CPU, but it is smaller and packs a larger punch! This single module contains the termination point for all secondary control wire harnesses as well as a direct connection to the vehicle’s On Board Diagnostic (OBD) computer. Talk about integrated!

• **Display**: This single touch screen display is brand new to the AEVIT 2.0® Driving Control System! It replaces not only the AEVIT® 1.0 Information Center but also the Gold Series touchpad. That means that all operation and programming is performed through this single touch screen. Since each icon is on the screen and not around the perimeter like in the Gold Series, the overall size can be reduced without changing the spacing of the functional “target-area”. The display measures 7”L x 5”H x 2 ½”D which is approximately 30% the size of the previous screens.
Primary Control Options

Select from one or more of the following input devices to configure your AEVIT 2.0® Driving Control System. Each device has a communication port on the bottom which can connect up to three remote switches used to trigger secondary vehicle functions. This makes it very handy when configuring the vehicle for individual needs! The type of input device(s) selected determines the name of system. For example, a steering (W) input device along with a lever (L) input device makes the system a WL-Series. The following is a brief description of all of the input devices currently available:

**LEVER (L)** - A gas/brake input with 4" of travel and requiring 4 lbs of force from the full gas to the full brake position. It is designed for customers that have a wider range of motion and a larger effort level.

**JOYSTICK (J or SJ)** - A joystick input that is available in a two-axis configuration for gas/brake and steering or a single axis for gas/brake or steering. It has a total range of motion of 60˚ and requires a maximum 3.2 oz of force to operate. It is designed for customers with a minimal range of motion and effort level.

**WHEEL (W)** - A steering input that has a 2:1 turn ratio between the AEVIT wheel and the vehicle’s steering wheel. It requires 3.2 oz of force at the proper orthotic position of 3 3/8” from center. It is also designed for customers that have a wider range of motion.

**WHEEL/JOYSTICK (WJ)** - A wheel/Joystick combination input that utilizes the wheel for steering and joystick for gas/brake. It is designed to be mounted in the center of the driving area just above the lap.

**EVALUATOR CONSOLE (EC-1)** - A joystick input with a pendant switch specifically designed to allow a driver trainer to assume control of the gas/brake and steering controls of any AEVIT® Driving Control System. A feature called Inhabited Takeover (ITO) allows the driver trainer to take over steering the vehicle’s steering wheel and gas/brake using either the Joystick or a mechanical training brake.
Secondary Control Options

The following options are sold only in conjunction with a primary control system:
See page 5 for stand alone secondary systems.

**OPTION A** - Our most popular option contains almost every function that would be required in a modified vehicle! Look at what you get!

- Ignition
- Starting
- Lights
- Turn Signals/Hazards
- Horn/Dimmer
- Wipers

**Plus...**

- (4) Programmable Auxiliary Functions
- Customer Screens

**OPTION B** - With this option you get most of the standard secondary functions including:

- Ignition
- Starting
- Lights
- Turn Signals/Hazards
- (1) Programmable Auxiliary Function
- Customer Screens

**OPTION C** - With this option you get a small number of secondary functions including:

- Turn Signals/Hazards
- Horn/Dimmer
- Wipers
- Cruise On/Set
- Electric Park Brake

**With Optional HVAC Servo**

- Cruise On/Set
- Shift (P,R,N,D,D2)
- Windows
- Locks
- Electric Park Brake

- Front & Rear Fans
- Vent Selection
- Temperature

**OR**

- Front & Rear Fans
- Customer Screens

**OR**

- Front & Rear Fans
- Temperature

**AND**

- (1) Programmable Auxiliary Function
- Customer Screens
The following options are sold only in conjunction with a primary control system:

See page 5 for stand alone secondary systems.

**ORTHOTICS**

**Gas/Brake**

- LVR-HAND-SPLNT: Hand Splint
- LVR-PIN-SWITCH: Controller Pin Switch
- LVR-T-HANDLE: T-Handle
- LVR-TRI-PIN: Tri-Pin w/Switches
- LVR-THUMB-SW: Thumb Switch for Tri-Pin

**Steering**

- WHL-HAND-SPLNT: Hand Splint
- WHL-SPIN-PIN: Swivel Pin
- WHL-TRI-PIN: Tri-Pin
- WHL-SPIN-KNOB-1 & 2: 1” & 2” Spinner Knobs

**Joystick**

- DIGI-PIN-SWITCH: Joystick Pin Switch
- Pin: Pin (included with all Joysticks)
- Round Knob: Round Knob (included with all Joysticks)
- Oval Knob: Oval Knob (included with all Joysticks)

**Power Headrest**

- PWRHR: Power Headrest (no switches)
- PWRHR-1: Power Headrest w/1 button
- PWRHR-6: Power Headrest w/ 6 buttons

Designed for the wheelchair driver that requires assistance with upper body support and secondary switch activation.
Secondary Controls Only (without Primary Control)

These are stand alone console systems designed to utilize the AEVIT® 2.0 components for the operation of secondary functions. They do NOT contain any primary controls. Both options listed below contain the following components:

- Vehicle Interface Module
- Display
- Control Module

Stand Alone OPTION A

- This system contains the following functions:
  - Ignition
  - Starting
  - Lights
  - Turn Signals/Hazards
  - Horn/Dimmer
  - Wipers

  Plus...

  - (4) Programmable Auxiliary Functions
  - Customer Screens

  OR

  - Left and Right Power Mirror Control
  - (1) Auxiliary Function
  - Customer Screens

  OR

  - Front & Rear Fans

  OR

  - Front & Rear Fans
  - Vent Selection
  - Temperature

With Optional HVAC Servo

Stand Alone OPTION B

- This system contains the following functions:
  - Ignition
  - Starting
  - Lights
  - Turn Signals/Hazards

  AND

  - Horn/Dimmer
  - Wipers
  - Cruise On/Set
  - Electric Park Brake

  OR

  - (1) Programmable Auxiliary Function
  - Customer Screens
**Additional Control Accessories** - These accessories are available for either an integrated AEVIT 2.0® Driving Control System or a stand alone console system.

**Voice Interactive Controls (VIC)** – Provides “voice activation” of up to 18 secondary controls and communicates instructions to the driver on the status/operation of AEVIT primary driving controls.

**HVAC** – Operates the direction of airflow, temperature control and AC Compressor for manual HVAC units.

**Remote Start** – Push button starting of the vehicle from up to 250 feet away. Automatic shut-off after 15 minutes if the vehicle is left unattended.

**External Digitone Option** - Allows the use of auditory skills for selection of up to 8 secondary controls from a single switch.

**AVPS Battery System** – The world’s first dual battery system that allows the vehicle’s alternator to “intelligently” maintain two independent batteries. Microprocessor based circuits automatically cycle the batteries for charging but also allow the client to manually switch to a fully charged backup battery. The AVPS will provide critical back up power for:

- AEVIT Power
- Emergency Egress
- Emergency Vehicle Starting

With AVPS, you will never be stranded again!
**ECONO SERIES** - An intermediate console system that provides access to only the most commonly used vehicle functions.

**Electric Park Brake w/ Interface Module** - This system replaces the vehicle's mechanical park brake with an electric actuator installed in a custom designed aluminum housing. The Interface Module has all the electronic timing circuits required to operate the park brake from a single button.

**Digitone** - Allows the use of auditory skills for selection of up to 8 secondary controls from a single switch.

**HBR KIT** - Three control modules that operate the Turn Signal/Hazards, Horn/Dimmer, and (2) additional functions such as Wiper Lo/Wash or Cruise On/Set. They can be configured for use in almost all vehicles.

**POWER KIT** - Provides a central power distribution point to simplify the adaptive equipment conversions.

**LOW EFFORT SWITCH** - 1.5" Dia. - A low effort dome switch used for the activation of Digitone or VIC.