



Adaptive Driver Evaluation

Getting Into the Driver's Seat

Assisting Consumers with Disabilities to Become Independent Drivers

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Licensed Driver Educator

Alpha One - Who we are

Our Vision

As the result of Alpha One's endeavors, Maine will be a model for the nation in enabling people with disabilities of all ages to live independently.

Our Mission

Alpha One, Maine's Center for Independent Living, directed by and for people with disabilities, is committed to providing the disabled community in Maine with information, services and products that create opportunities for people with disabilities to live independently.

Alpha One - Our Services

Housing

- *CAPS*
- *Access Design (Architectural Accessibility specialists)*
- *Home Retro*
- *Critical Access*

Financing

- *mPower (Maine's adaptive loan fund)*
- *Personal Finance Skills Training*
- *Title 7 part b*

Independent Living Services

- *AgrAbility*
- *Hear in Maine*
- *Sign Net*

Alpha One - Our Services

Personal Assistance Services

- *Consumer Directed*

Transportation

- *Adaptive Driver Evaluation*

Recreation

- *Open Waters (Adaptive Scuba diving)*
- *Rink Link (Adaptive Ice sports program)*

Adaptive Equipment

- *Adapted Home and Business*
- *Renegade Wheelchairs*

Other

- *Maine affiliate for New England ADA Technical Assistance*

Learning Objectives

- The importance of driving for a person with a disability
- Driver evaluation and driver training process
- General understanding of vehicle specifications and adaptive equipment
- Funding options

Driver Program History

- First in state and operational for over 25 years
- Team of four licensed Occupational Therapists/Licensed Driver Educators
- Membership in ADED and MDEA
- Performance based
- Consumer directed

More about the program

- Adapted evaluation vehicle
 - 4 interchangeable hand controls
 - left footed gas pedal
- Cross disability
 - Entry level driver – Developmental Delay
 - Experienced driver – change in medical/functional status
- Non-medical model; not prescriptive
- Designed to ENABLE drivers
- Consultants to DMV
- Maine's self-report law

Intake Process

- Information & referral call
- Consumer completes application
- Physician completes Driver Medical Evaluation; FAP
- Solicit relevant information; VR, vision
- Application can be downloaded at alphaonenow.org

Intake Process continued

Appointment is scheduled (3-4 hours)

- Screen disability and mobility equipment
- Driving readiness for entry level drivers
 - Pre-driving experience
 - Be at home alone, independence in the community
 - How interested or determined in learning to drive
 - Attention and processing skills

Components of a Comprehensive Adapted Driving Evaluation

Assessment of visual, perceptual and cognitive skills

- Visual skills – acuity, contrast sensitivity, peripheral vision
- Visual Perceptual – depth perception, visual spatial skills
- Cognitive skills - problem solving, reasoning, attention, judgment, insight, memory

Components of a Comprehensive Adaptive Driving Evaluation 2

Motor function

- range of motion
- muscle tone
- reaction time
- mobility or adaptive equipment used
 - Is the equipment adequate for function in the community?
- ability to transfer & load mobility equipment

Components of a Comprehensive Adapted Driving Evaluation 3

Personal transportation needs

- functional/medical
- work, recreation, school, family
- type of driving environment in the community

Components of a Comprehensive Adapted Driving Evaluation 4

Behind-the-wheel performance evaluation

- visual search, selective and alternating attention, and distinguishing visual information
- executive functions in decision making, anticipating and prioritizing potential hazards
- reaction time, speed of movement
- motor learning – steering, acceleration, braking and coordinating these functions
- opportunity to try adaptive equipment & seek recommendations from the evaluator

Wrap up discussion

- discuss driving readiness/evaluator recommendations
- product & vendor information
- driver training for new drivers/review for returning drivers or when adaptive equipment is recommended
- Identify individual training needs; classroom & on road

More discussion

- Identify adaptive equipment needs & vehicle specifications
- Provide information to identify local instructors or schools
- Report goes to the consumer and BMV
- Outreach to driving schools
- BMV determines need for a road test

Question for the Audience:

- What types of consumers are you seeing that may need an adapted driving evaluation?
- Do you have questions? Comments?

Adaptive Driving Equipment and Vehicle Modifications



Adaptive Driving Equipment and Vehicle Modifications 2

- Vehicle Access
- Driver Position
- Steering System
- Brake/Accelerator System
- Secondary Controls and Systems
- Wheelchair/Scooter Loaders

Raised Roof



Raised Door Opening

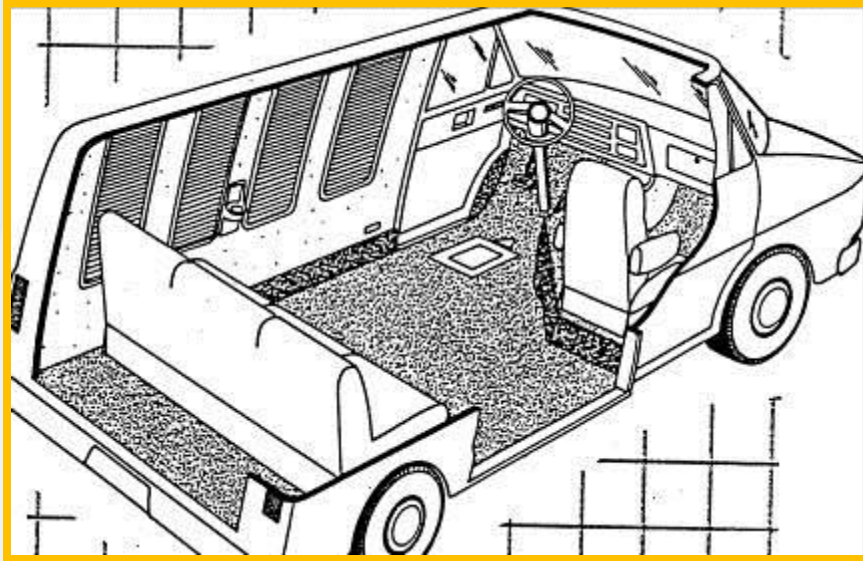


Cargo Doors



Sliding Door

Dropped Floor



Driver From a Wheelchair



Dropped Floor 2



Driver and Front Passenger Lowered Floor

Wheelchair Lifts



Platform Lift



Rotary Lift

Transfer Seats



Elevating Transfer seat for Pickup Trucks and SUV' s

Transfer Seats 2



Allow Passenger Transfers to Smaller Vehicles

Lowered Floor Minivan



Side Entry

Rear Entry



Power Transfer Seat



Seat Base Swivels; Moves for/aft; and, raises/lowers

Automatic Wheelchair Tie-down



Secures an Occupied Wheelchair Acting as a Vehicle Seat

Reduced Effort Steering Systems

- For individuals with deficits in strength and endurance affecting their ability to operate the standard steering system.
- The installation of one of these systems should always include an emergency backup system.

Steering Devices



Steering Extensions



Remote Steering Systems



Joystick Driving System



Operates Brake, Gas, And Steering

Brake/Accelerator System

- Mechanical Hand Controls
- Powered Control Systems
- Left Foot Accelerator
- Pedal Extensions

Mechanical Hand Controls



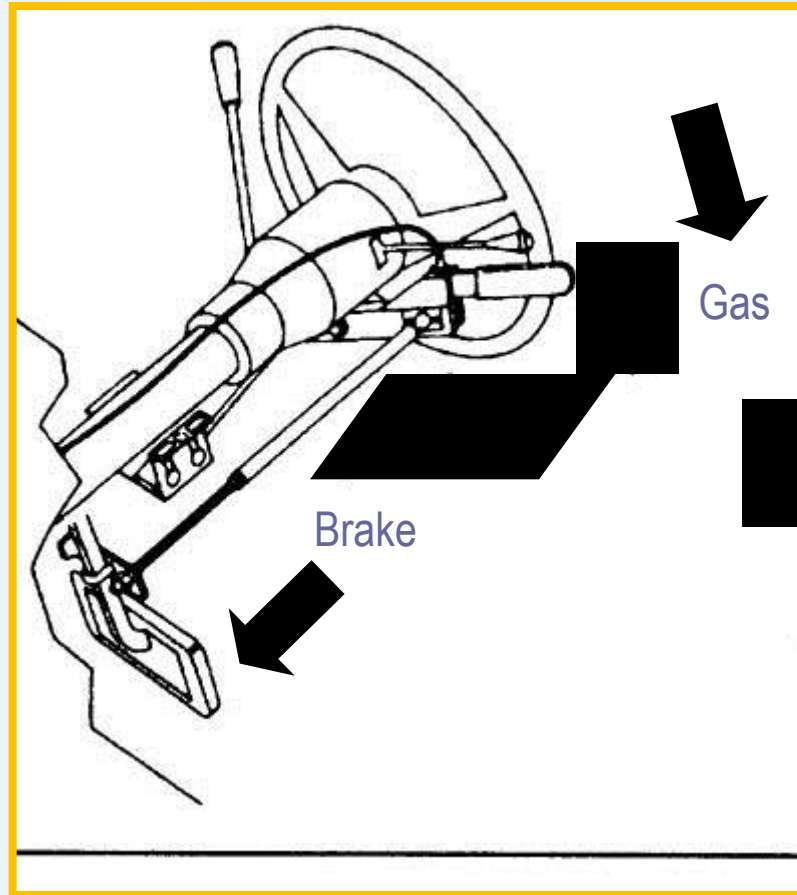
Brake



Throttle

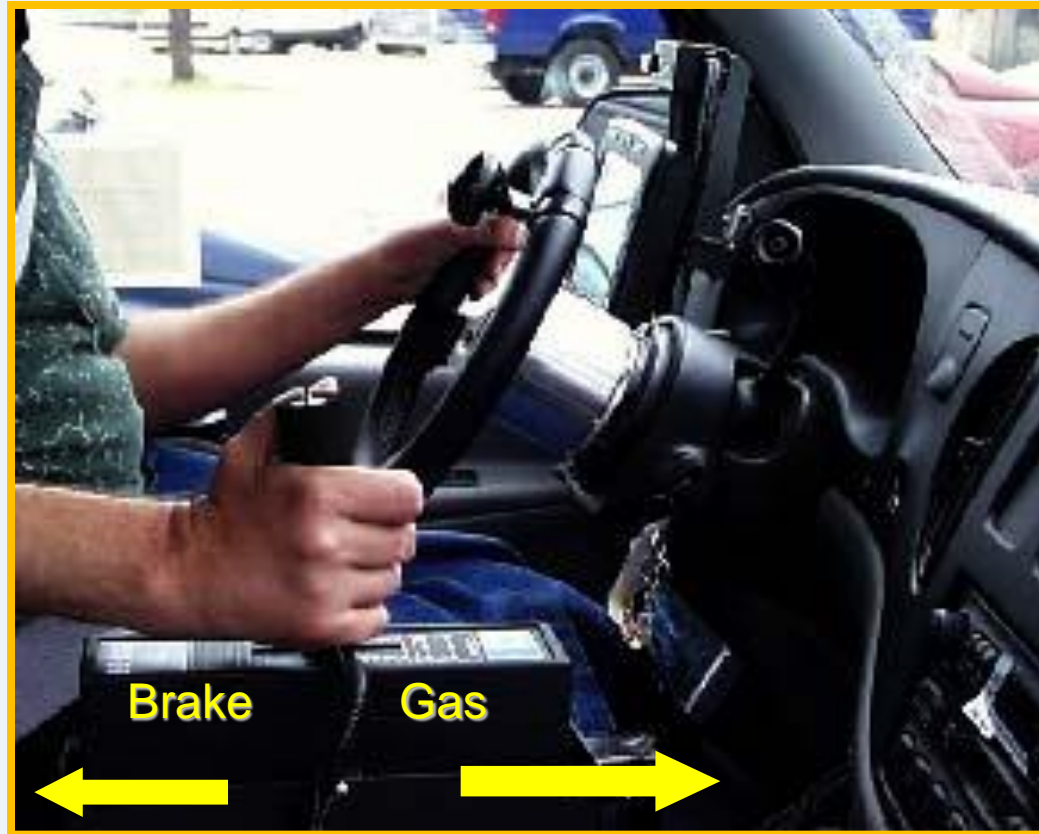
Push/Rock Hand Control

Mechanical Hand Controls 2

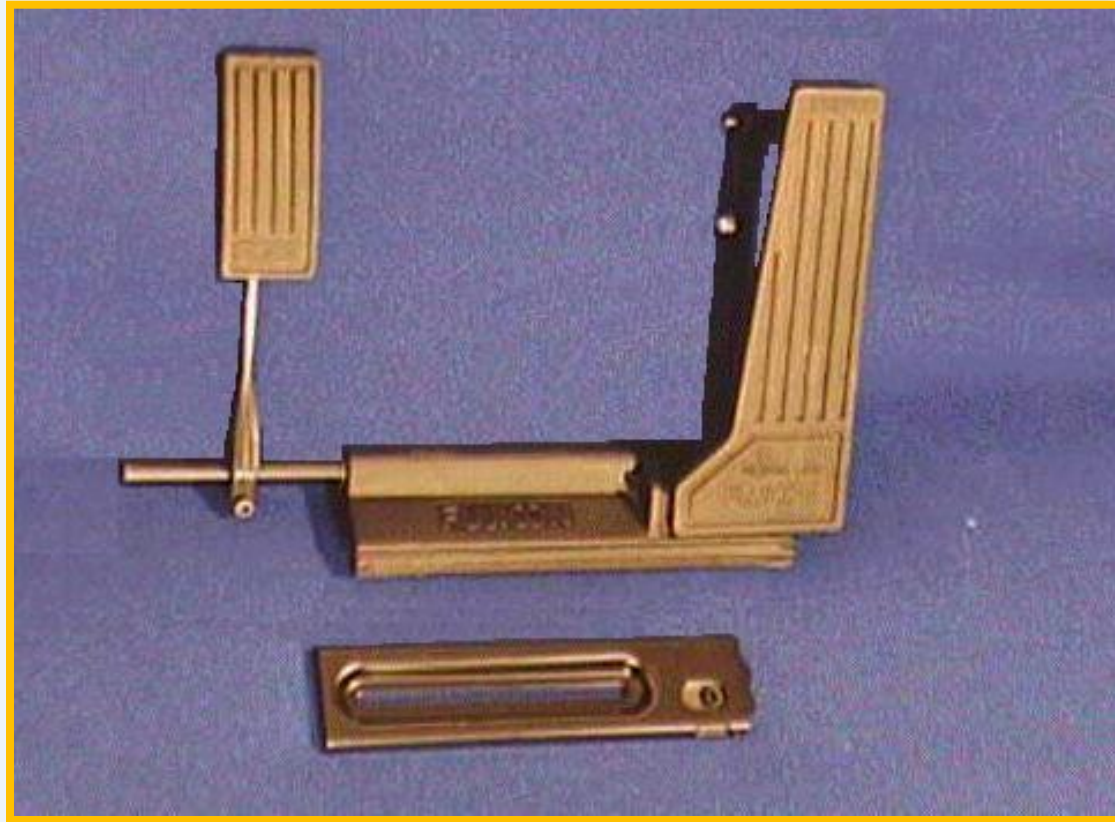


Push/Right Angle Hand Control

Powered Control Systems



Left Foot Accelerator



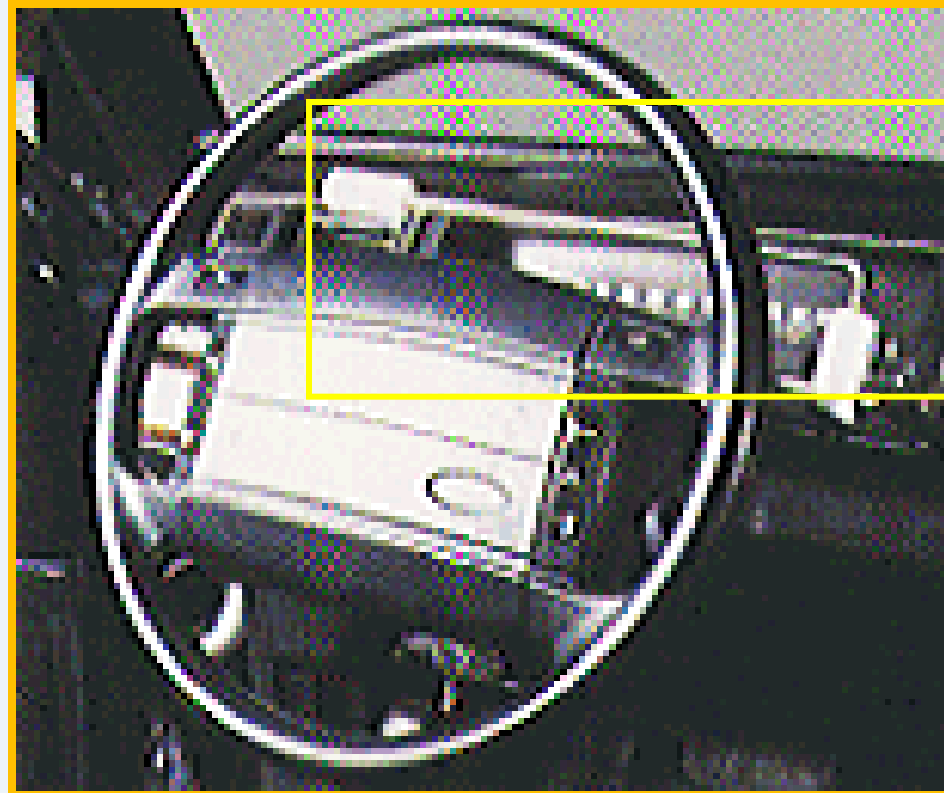
Pedal Extensions



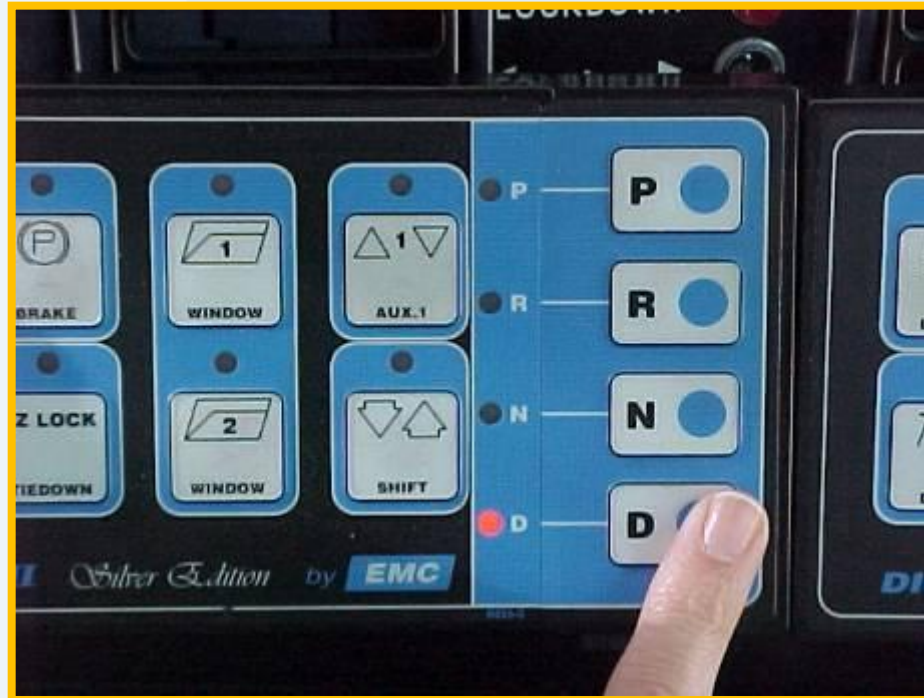
Secondary Controls and Systems

- Left Hand Gear Selector
- Power Gear Selector
- Power Parking Brake
- Electronic Secondary Control Systems
- Audible Scanning Systems
- Voice Activated Systems

Left Hand Gear Selector



Power Gear Selector



Control Touchpad

Power Parking Brake



Control Touchpad

Electronic Secondary Control Systems



Multi-Function Control Touchpad

Voice Activated Systems



Voice Recognition Module

Wheelchair/Scooter Loaders

Interior

- Mid-Vehicle
- Rear
- Trunk
- Truck Bed

Exterior

- Car Top
- Hitch Mounted
- Trailer

Interior



Mid-Vehicle

Interior 2



Rear

Interior 3



Scooter



Manual Wheelchair

Trunk

Interior 4



Truck Bed



Interior 5



Pickup Truck

Exterior



Car Top Carrier

Exterior 2



Hitch-Mounted

Choosing a Vender

Following the evaluation we provide a list of venders that serve Maine consumers. We also encourage consumers to shop around:

- Quality of Installation
- Service After the Sale
- Price & Warranty
- First Impressions and Reputation
- Installation Time

Financing Options

- M Power Adapted Loan Program
mpowerloans.org
- Vocational Rehabilitation
maine.gov/rehab/
- Independent Living Services Grant \$5000 cap (modifications only). Call 800-640-7200 (v/tty)
- Worker's Compensation

Used Vehicles

- Alpha One Classifieds
alphaonenow.org/classified_ads
- Disabled Dealer
disableddealer.com
- GetATStuff
getatstuff.org

Manufacturer Rebate Programs

Ford

GM

Toyota

Volkswagen

Acura

Chrysler

Saturn

Lexus

Honda

Funding

Combining Funding Options - 2011

Ford Van	\$28-32,000.00	
Adaptive Equip. Cost	<u>\$24,090.00</u>	(lift, tie-down, automatic door, 6" dropped floor, hand control, Tri-pin)
Total	\$52,090.00	
Vocational Rehab.	<u>-\$24,090.00</u>	
	\$28,000.00	
Ford Mobility Motoring	<u>-\$ 1,000.00</u>	
	\$27,000.00	
Fundraiser	<u>-\$ 4,000.00</u>	
	\$23,000.00	

Financing \$23,000.00 with mPower Loan Program at 4% for 8 years with a monthly payment of \$280.34.
2008, 2097 mini vans purchased and converted w/ lowered floor/ramp \$38,000+/-
2011 with new conversion \$54,000 driving equipment and tie-downs – additional cost

Questions - Comments?



Thank you

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Please complete the electronic evaluation form and you will receive an attendance certificate.