

Introductions

Who does evaluations and training

Occupational Therapist

Certified Driver Rehabilitation Specialist

(CDRS)

Driver Rehabilitation Specialist (DRS)

Certified Driving Instructors









WHAT IS A DRIVING SPECIALIST

CDRS: Certified Driver Rehab Specialist

Driver rehabilitation specialists are professionals with backgrounds in health care and/or driver education and have completed additional training and education in the field of driver rehabilitation. The most knowledgeable of the specialists are Certified Driver Rehabilitation Specialists.

DRP: Driver Rehab Professional

The DRP micro-credential represents a professional in the field of driver rehabilitation who, through successful completion of specific training courses, is equipped to provide service within basic and low-tech programs.

- Follow Best Practice Guidelines and Code of Ethics
- CEUs are required for renewal

ASSOCIATIONS

ADED: Association for Driver Rehab Specialists

- ADED.net
- Resources for fact sheets
- Directory of CDRS's
- International Association

NMEDA: National Mobility Equipment Dealer Association

- A national organization that supports mobility dealers and certifies the dealers for levels of technical quality control.
- NMEDA.org
- Directory of Dealers and Manufacturers

Who Can Benefit from Driver Rehab Services

ADHD Muscular Sclerosis ALS

Anxiety Dwarfism Arthritis

Autism Deafness Vision Impairments

Cerebral Palsy Traumatic Brain Injury Parkinson's

Spina Bifida Mental Health Psychological

Spinal Cord Injury Learning <u>Disabilities</u>

Stroke Arthrogryposis

Muscular Dystrophy Neuropathy

Amputations Aging

How Can Clients get referred to a CDRS Program

- Vocational Rehab Counselors
- Rehab Centers
- Rehab Techs
- Self-Referral
- Physicians
- Medical Review Board
- VA
- Mobility Dealer
- Workman's Comp

UK Driving Program

- Currently only accepts VR referrals
- Referrals are received from Erica Oechsli,
 DRTP Administrative Specialist

Erica.Oechsli@ky.gov

CDRS will make contact and schedule services



PROGRAM REQUIREMENTS

- Valid Permit/License
- Physicians Consent
- Eye Exam State requirements
- VR Authorization

Clinical Evaluation

What
Does a
Driver
Evaluation
Assess

Physical Evaluation

On the Road Evaluation

Clinical Evaluation Components

Client Interview

Diagnosis

Social History

Pertinent Medical History, including Hx of seizures

Medications

Driving History

Permit/license information

Physical Evaluation

Range Of Motion

Sensation

Balance

Transfer

Strength

Coordination

Tone

Ambulation

Cognitive Assessment



CLINICAL TOOLS

- MVPT
- VISION BIOPTER
- TRAILS A & B
- MAZE TEST
- CLOCK DRAWING
- KING DEVICK TRACKING TEST
- SYMBOL DIGIT TEST
- MINI MENTAL

These tools assess attention, focus, processing speed, scanning, divided attention, sequencing, mental flexibility



Vehicle Set Up

- Determine if any equipment is needed for driving based on the clinical presentation of the client.
- Equip vehicle for eval
- Have other equipment available if needed
 - Steering devices, chest straps, seat cushions, switches



Purpose of in-traffic evaluations

Basic vehicle control on real roads

Awareness and response to environmental details and potential hazards

Use of secondary controls and mirrors

Ability to control vehicle around different traffic patterns

Judgment of vehicle boundaries..space management

Operation/orientation to adaptive equipment if needed

Driving problems or behaviors will vary according to disability, diagnosis, driving experience, age, etc



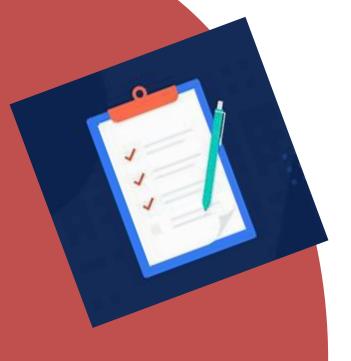
ADDITIONAL CONSIDERATIONS

- Can they enter and exit the vehicle safely, independently and in a timely manner
- Can they load and unload their mobility device

Evaluation Recommendations

- Driver training
- Passenger activities for 3-6 months
- Family training
- Visual Field Exam
- Referral to other services:
 - OT/PT
 - Speech
 - Counseling for mental health or life skills





Recommendations (cont)

- Other services (cont)
 - Wheelchair seating evaluation
 - Rehab Tech
 - Equipment Orientation
 - Vehicle Modification
 - Resume Independent Driving
 - Not a Candidate for Services at this time
 - Defensive Driving Course
 - Department of the Blind

Driver Training

- Skilled hours
- Progression of training lessons
- Obstacles to learning
- Goals/outcomes
- Family Instruction

Basis for Skilled Driver Training Hours

- Previous driver with low-tech equipment
 - min. 6 hours
- Previous driver with high-tech equipment
 - Min. 20 hours
- New Driver with/without low-tech equipment
 - 10 20 hours
- New Driver with high-tech equipment
 - Min. 30 hours



Routes

- Parking lots
- Residential streets
- Two and four lane roads
- Inner city streets
- Rural roads
- Interstate

If a driver plateaus in learning any given traffic pattern(s), an increase in training hours could occur or family training could be recommended Progression of Training

Progression of simple to complex traffic patterns

Obstacles to Learning

- Decreased problem solving
- Decreased reaction time
- Decreased decision making skills
- Decreased interactive social skills
- Decreased visual scanning
- Difficulty learning rules of the road
- Decreased awareness of other users
- Poor R/L discrimination

Obstacles to learning...cont

- Visual Perceptional Deficits
 - Poor time and space management
 - Parking difficulties
 - Not "seeing signs", confusing arrows
 - Difficulty positioning car correctly with lane
 - Getting lost in familiar surroundings
 - Inability to pick out important information

Obstacles to learning...cont

- Cognitive Demands of Driving
 - Arousal/Alertness
 - Attention
 - Memory
 - Judgment
 - Organization
 - Mental Flexibility
 - Problem solving
 - Following Directions

- Visual Demands of Driving
 - Focus
 - Focus while moving
 - Perceive distance
 - See the entire driving environment and attend to multiple stimuli
 - Discriminate colors
 - See in different levels of light

Obstacles to driving...cont

- The Effects of Aging and Illness on Driving
 - Performance changes
 - Visual acuity
 - Visual field
 - Sensitivity to light
 - Eye-related diseases
 - Physical changes
 - Cognitive changes

Obstacles to learning...cont

- Adaptive equipment needs
 - Ability to operate smoothly
 - Changes how you operate the OEM controls
 - Another learning objective to teach
 - Family teaching

Goals/Outcomes for Driver Training

Licensure

Supervised driving with family

Alternative transportation

Equipment Orientation

family training



Family ride along

- Determine if family can handle unsafe driving issues
- Provides a firsthand look into driving deficits

Supervised driving

- Installation of training brake
- Re-evaluation 6 12 months

Graduated License

- 16 18 years old
- Must complete a min. of 60 hrs. OTR, 10 of which are at night.
- Must complete a 4-hour course provided by the KY Transportation Cabinet in their home county
- Over 18 years of age, no longer needs 60 hours documented.
- After passing the road test 16 –
 17-year-olds begin the intermediate phase which lasts an additional 180 days.

Low Tech

Vehicle Modifications Process

Mid Tech

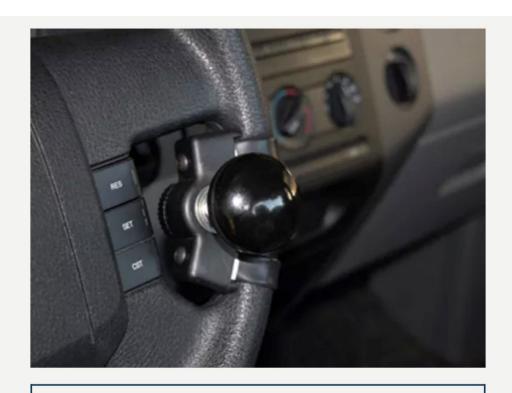
High Tech



Low Tech Steering Devices

- Round Spinner Knob
- Single Post
- V Grip
- Bi-Pin
- Tri-Pin
- Amputee Ring
- Custom

Steering Device -Spinner Knob



Spinner Knob

Steering Device -Single Pin Foam Grip



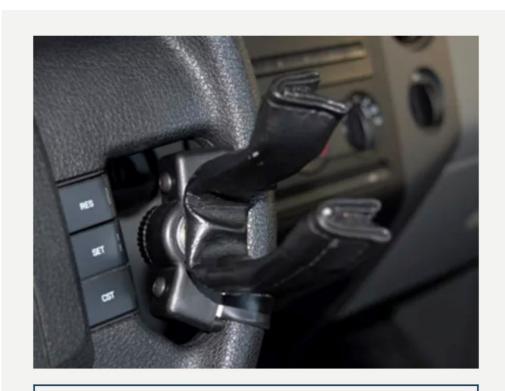
Single Pin Foam Grip

Steering Device -Tri-Pin Grip



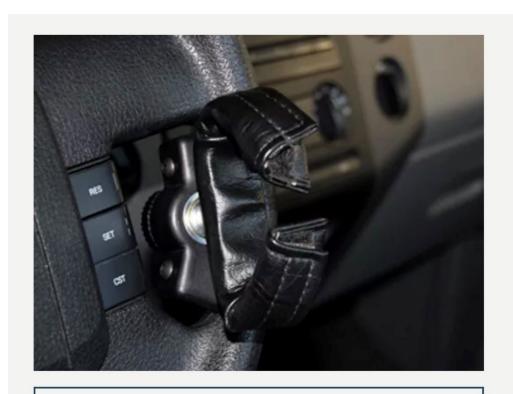
Tri-Pin Grip

Steering Device -Quad Fork Spinner



Quad Fork Spinner

Steering Device -Palm Spinner



Palm Spinner

Steering Device -Amputee Spinner



Amputee Spinner

Steering Device -Amputee Ring



Amputee Ring

Steering Device -Single Post



Single Post



Low Tech Hand Controls

Several different
 manufactures make hand
 controls. The most common
 types are right angle and
 push rock.

Hand Controls -Monarch Right Angle



Monarch Right Angle

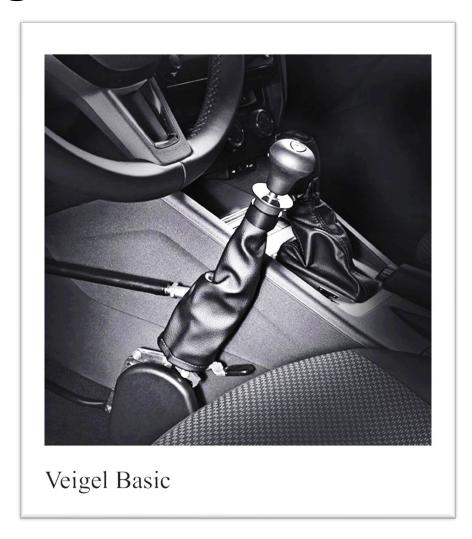
Hand Controls - Push/Rock



Hand Controls – Push/Pull Veigel Compact II



Hand Controls – Push/Pull Veigel Basic





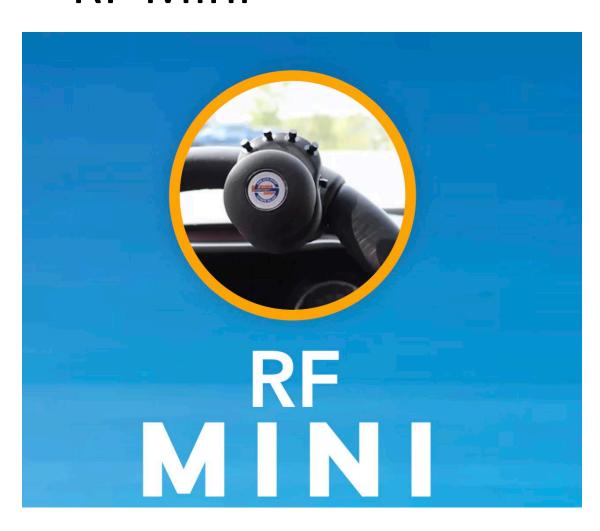
Secondary Controls -Sure Switch



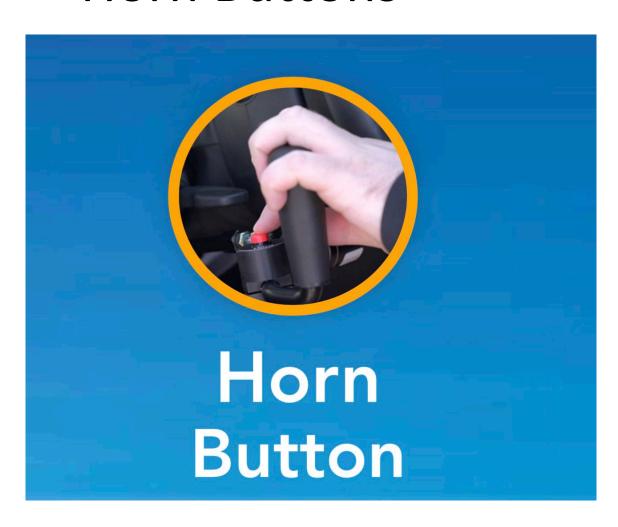
Secondary Controls - RF Touch



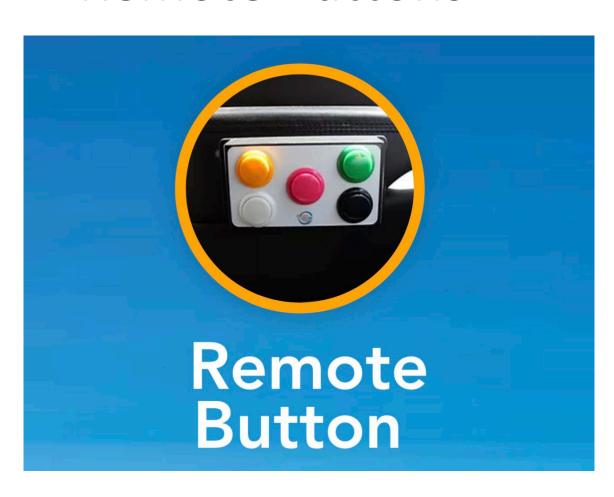
Secondary Controls - RF Mini



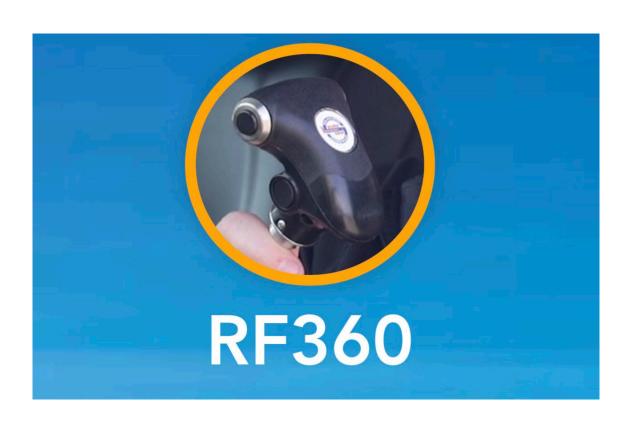
Secondary Controls -Horn Buttons



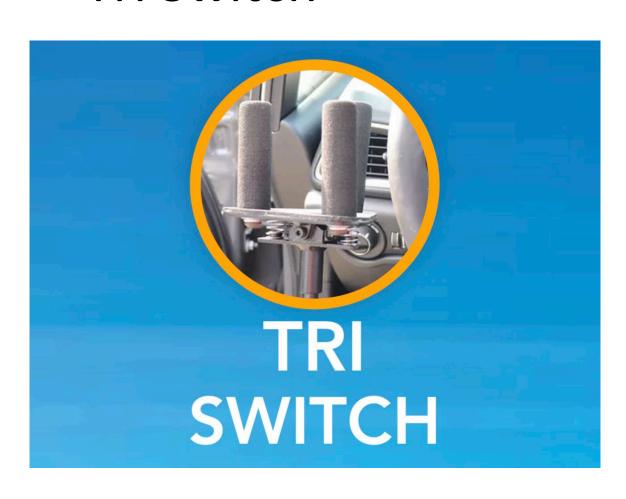
Secondary Controls -Remote Buttons



Secondary Controls - RF360



Secondary Controls -Tri Switch





- Zero Effort Steering
- Hand controls with reduced effort brakes
- Smaller diameter steering wheels
- Powered gas and brake unit
- Power shifter





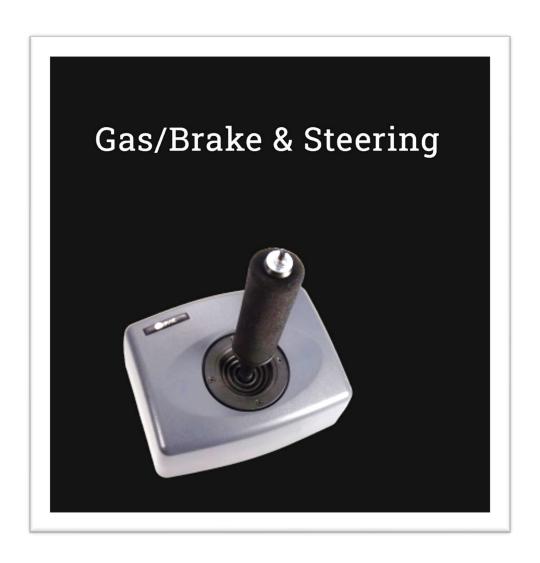
High Tech - Joystick



High Tech - Single Axis Joystick



High Tech - Joystick



High Tech - Remote Steering



High Tech – Powered Gas and Brake unit (1)



High Tech – Powered Gas and Brake unit (2)

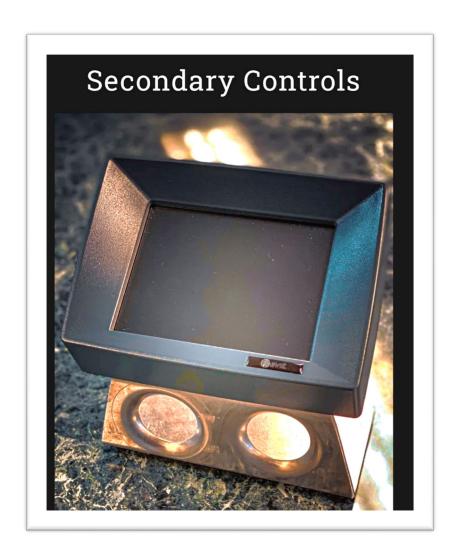


High Tech Secondary Control

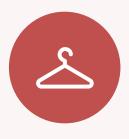
- panel/screen for ignition, shifting, windows, door locks, HVAC
- Digitone or Voice Scan for secondaries



High Tech - Secondary Controls



Vehicle Modification Process



FITTING



INSPECTION



ORIENTATION



DELIVERY

Transport Evaluations



EQUIPMENT



CONSIDERATIONS



FITTING/INSPECTIONS/
ORIENTATION WITH
FAMILY



Wake Up !!! We are done!!!

• Please join us outside to view equipment on the vehicles.

