

# ***DriveRight®***

## ***Innovative FLEET Management Tools***

***On-Board Consoles***  
for Instant Feedback

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***Easy-to-Use Software***  
for Fleet Managers

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***Wireless & SmartCard***  
Download Options

## What's New?

### Introducing CarChip Fleet Pro

—our latest version of this handy little on-board data logger. Includes all the same capabilities as our earlier models of CarChip Fleet, including trip logging, engine performance monitoring, and diagnostic trouble codes. But now you also get:

- **Expanded memory.** Was up to 300 hours of driving data. Now up to 1200!
- **Lower price.** Makes it more affordable than ever to monitor all the vehicles in your fleet. Page 4.
- **GPS capability.** See how and where your vehicles are being driven. Page 10.
- **Wireless download.** Introduced for DriveRight 600E last fall, now available for use with CarChip Fleet Pro, too! Page 12.

### How to Reach Us

As always, please contact one of our customer service representatives if you have any questions. We're always glad to help.

**(510) 732-9229**

Main telephone line.

**(510) 732-7814**

For answers to technical questions or help with troubleshooting.

**(510) 670-0589**

Fax to Customer Service or Tech Support.

**www.davisnet.com**

Visit our web site.

**sales@davisnet.com**

E-mail to Customer Service.

**support@davisnet.com**

E-mail to Technical Support.

**info@davisnet.com**

General e-mail.



Actual size

## Why choose CarChip or DriveRight?

We know that managing a fleet is a complex job. You need to improve safety, keep costs down, and worry about driver acceptance—all at the same time. We can help. Field-proven in fleets around the world, our fleet management systems give you the tools—and the information—you need.

### Actively oversee driver safety.

- Set safety limits for speed, acceleration, and deceleration.
- Improve driver performance with both short- and long-term feedback.
- Reduce accidents, encourage seatbelt and headlight use.

### Reduce wear and tear on the vehicle.

- Discourage jackrabbit starts, speeding, and hard braking.
- Log engine performance and troubleshoot engine repairs.
- Track unauthorized out-of-area or night or weekend driving.

### Keep costs down.

- Low initial capital outlay, no ongoing fees.
- Add to your system as your fleet grows.
- Our tech support staff has first-hand product knowledge, so you get the support you need.

## Three simple steps

### 1 Select one or more installation methods

DriveRight 600E with interactive console



#### OBDII

For quickest installation. Plugs into the on-board diagnostics port found on cars, vans, and pickup trucks, model-years 1996 and later. **Page 5.**

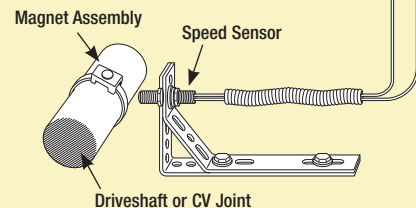
#### VSS

Taps into the vehicle's speed sensor signal. For passenger cars 1992 and later, and some earlier model-years with cruise control. **Page 5.**

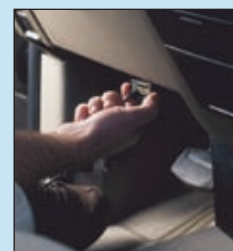


#### Driveshaft or CV Joint

For vehicles in which OBD or VSS installation is not possible. Mounts next to driveshaft or CV joint. Choose general duty for passenger cars or light duty trucks, heavy duty for tractors, big rigs, or buses. **Page 5.**



CarChip



#### CarChip Fleet Pro

Plugs quickly and unobtrusively into the on-board diagnostics port found on cars, vans, and pickup trucks, model-years 1996 and later. **Page 4.**





# to building your own fleet management system

**2**

## Choose one or more download methods

DriveRight 600E with interactive console

### SmartCard

Issue a credit card-sized SmartCard to each driver, then use to both identify and authorize the driver and download his driving data. *Page 13.*



### Palm® Pilot

In the field, download data from multiple consoles into a single Palm Pilot. Then, transfer the data from your Palm Pilot to your PC in one easy step. *Page 11.*



### Modem

Download the console from remote locations to your central office via modem using our Remote Download Kit. *Page 11.*



### Serial Port

In the office, download directly from console to PC via serial port. Serial-port cable is included with Fleet Management Software at no extra charge. *Page 9.*



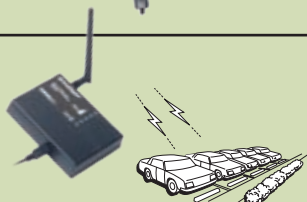
### USB

For CarChip, download directly to PC via the USB cable included with Fleet Management Software. For DriveRight, add our optional USB-to-serial cable. *Page 9.*



### Wireless

Transmit wirelessly from parking lot to office. Query the vehicle whenever you like or set up to download automatically. *Page 12.*



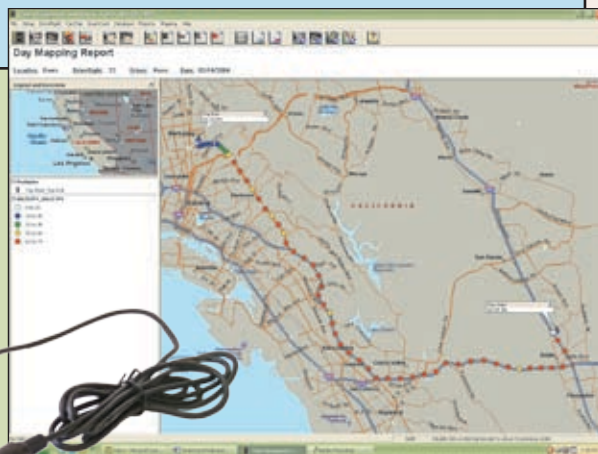
**3**

## Get the info you need!

CarChip or DriveRight

### GPS

Continuously collect data on the vehicle's location, then use with Microsoft MapPoint or other third-party mapping software to view the driver's route, his location, and each start and stop. *Page 10.*



GPS Module



CarChip or DriveRight

### Fleet Management Software

Use Fleet Management Software to quickly and easily analyze the data, view trends, and give feedback to both drivers and top management. *Page 6.*



## CarChip® Fleet Pro

### Simple installation, loads of information.

With CarChip Fleet Pro, installation is as simple as “plug and go.” Just plug the tiny data logger into the OBDII on-board diagnostics port and begin recording trip details immediately. Stores all the same driver-performance data as the DriveRight 600E on-board console. Plus, you’ll get these CarChip-only features:



#### New Model!

- GPS & Wireless Compatible
- Increased memory
- Lower price!

Plugs instantly and unobtrusively into the OBDII port in your car or truck.

#### Engine Performance Monitoring

Monitor any 4 out of 23 possible parameters including:

- RPM
- Throttle position
- Engine load
- Fuel pressure
- Fuel system status
- Short-term fuel trim (2 ea)
- Long-term fuel trim (2 ea)
- Battery voltage
- Timing advance
- Coolant temperature
- Air flow rate
- Intake air temperature
- Intake manifold pressure
- O2 sensor output voltage (8 ea)

- Engine performance monitoring to keep your vehicles in top running condition.
- Diagnostic trouble codes, freeze-frame sensor readings, and the ability to clear the vehicle’s check engine light.
- Emissions readiness reports to check the status of the vehicle’s smog-control systems.

To monitor engine performance, use a CarChip Fleet Pro in each vehicle. To monitor driver performance, issue each driver his own CarChip with a unique ID number. Drivers can quickly and easily take their CarChip with them from one vehicle to the next. Stores up to 1200 hours of driving data depending on the logging interval and number of parameters selected. Download at any time and clear the memory, or simply let the newest data overwrite the oldest. Requires Fleet Management Software, sold separately.

**8246 CarChip Fleet Pro \$169**

## Mix and Match DriveRight® 600E & CarChip® Fleet Pro

Our Fleet Management Software accepts data from both the DriveRight 600E on-board console and the CarChip Fleet Pro data logger—so you can mix and match to create the driver safety or vehicle monitoring system you need.

- **Choose CarChip Fleet Pro** for quickest installation and engine performance monitoring.
- **Choose DriveRight 600E** for enhanced security and for use in vehicles without OBDII ports.
- **Mix and match to suit your needs.** Put CarChip Fleet Pro in some vehicles, DriveRight 600E in others.

Installation Method	Quickest installation. Plugs into the on-board diagnostics port found on cars, vans, and pickup trucks, 1996 and later.*	●	●			
	Uses the vehicle's speed sensor signal. For vehicles 1992 and later, and some earlier model-years with cruise control.			●		
	Mounts next to driveshaft or CV joint. For tractors, big rigs, and buses, and for older-model cars, vans, and pickup trucks.				●	●
On-Board Feedback	Interactive console gives instant feedback to drivers during and after each trip.		●	●	●	●
	On-board alarms alert the driver to excessive speed, acceleration, or deceleration.	●	●	●	●	●
Download to Software	Download directly to PC via USB or serial port.	●	●	●	●	●
	Transmit wirelessly from parking lot to office with optional wireless download system.	●	●	●	●	●
	Add other download options: SmartCard, Palm Pilot, or via modem using Remote Download Kit.		●	●	●	●
Other Features	Monitor engine performance, view diagnostic trouble codes, and reset check engine light.	●				
	Monitor seatbelt and headlight usage with optional digital inputs.		●	●	●	●
	Enhanced security options include driver ID and optional Starter Interrupter Kit.		●	●	●	●



## DriveRight® 600E

### Interactive on-board console gives instant feedback to drivers.

Like an on-board coach, DriveRight 600E gives instant feedback to drivers, improving their performance with every mile. Set the audible alarms, and the driver will know instantly whenever he has exceeded company safety limits for speed, acceleration, and hard braking. After the trip, query the console for details on time, speed, distance, and more. Download to our Fleet Management Software to compare driver performance and track improvement over time. Easily mounts on dashboard or sun visor.

- Current speed
- Starting time for trip
- Maximum speed for trip

- Distance traveled
- Ending time for trip
- Number of times deceleration safety limit was exceeded

- Current acceleration or deceleration rate
- Amount of time over speed safety limit
- Number of times acceleration safety limit was exceeded.

- Current time & date
- Time & date for trip

Use PLUS and MINUS buttons to:

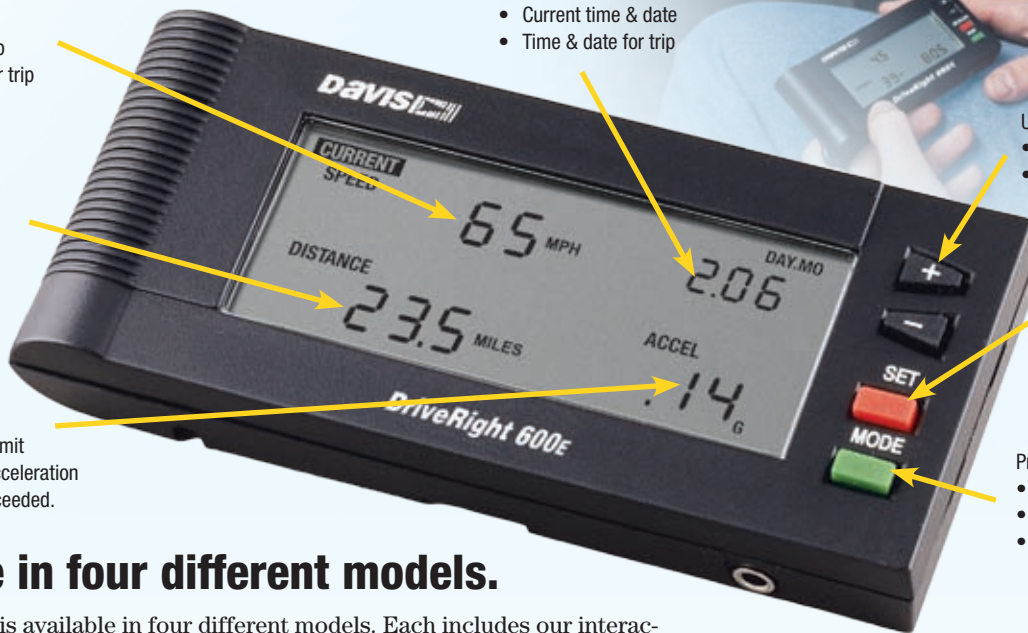
- Enter driver ID at beginning of trip
- Specify trip type: business, personal, commute, or other

Press SET to change format for:

- Speed (mph or km/h)
- Time (12- or 24-hour)
- Date (month/day or day/month)

Press MODE to cycle through:

- Current readings
- Details for each trip
- Driver safety limits



### Available in four different models.

DriveRight 600E is available in four different models. Each includes our interactive on-board console and vehicle installation hardware. Hardware varies to meet the needs of specific vehicle types and model-years.

#### 81260BD DriveRight 600E with OBDII Installation Kit \$395

Includes OBDII connector with 6' (1.8 m) cable. For cars, vans, and pickup trucks, model-years 1996 and later. If outside the USA and Canada, see our note for international customers on page 15.

#### 8126VSS DriveRight 600E with VSS Installation Kit \$375

Includes wires and splice connectors to tap into the vehicle's speed sensor. For cars, vans, and pickup trucks, 1992 and later, and some earlier model-years with cruise control.

#### 8126GD DriveRight 600E with General Duty Installation Kit \$375

Includes reed switch sensor, magnet, and nylon mounting strap. For older-model cars, vans, and pickup trucks, and for other vehicles in which OBDII or VSS installation is not possible.

#### 8126HD DriveRight 600E with Heavy Duty Installation Kit \$395

Includes reed switch sensor, magnet, heavy-duty stainless steel mounting strap, and extra-long cables. For tractors, big rigs or other large trucks, or buses.

## Installation Options

### FOR DRIVERIGHT 600E

#### Extra Installation Kits

To use a single console in multiple vehicles, save money by purchasing an extra installation kit for each instead of a complete system.

81600BD OBDII Kit \$120

8160VSS VSS Kit \$100

8160GD General Duty Kit \$100

8160HD Heavy Duty Kit \$120

#### Extra Display Consoles

Give each driver their own on-board display console, and then use the 4-digit "driver ID code" to track project or address codes instead of driver IDs. Compatible with all our DriveRight 600E models.

8179 Extra Console \$295

#### Tension Tools

For installing the DriveRight 600E heavy-duty model. Tightens the stainless steel strap onto the driveshaft or CV joint. Choose the economical standard screwdriver-style tool for single installations. Choose the deluxe ratcheting tool for easiest, most efficient installation in multiple vehicles.

8196 Standard Tension Tool \$20

8195 Deluxe Tension Tool \$250



# Fleet Management Software

FOR CARCHIP FLEET PRO and DRIVERIGHT 600E

The info you need to manage your fleet—where you need it, when you need it.



Map driving details with optional GPS and MS MapPoint.

Download the data from CarChip Fleet Pro and DriveRight 600E, and you'll have all the information you need to give feedback to your drivers, make decisions about performance, and report back to top management. Our Fleet Management Software lets you track and compare drivers and vehicles in summary or detail form, for your entire fleet or just selected groups. See the following pages for a detailed look at just some of the available reports. You can also use the software to:

- **Set vehicle or driver IDs** for CarChip Fleet Pro data loggers and DriveRight 600E on-board consoles.
- **Set the unit of measure** for speed and distance (miles or kilometers) and the format for time and date (U.S. or international).
- **Set multiple levels of corporate structure** for reporting purposes.
- **Set onboard safety alarms** for speed, acceleration, and hard braking.
- **View security reports** showing unsuccessful login or security code attempts and the times and dates the units were disconnected.
- **For CarChip Fleet Pro**, select engine monitoring parameters and logging interval, and reset the check engine light.
- **For DriveRight 600E**, require SmartCard use or set alarms to remind drivers to login manually before each trip.
- **With optional GPS system**, see the routes your drivers took, the speeds they drove, and the location of any accidents or near-accidents.

## Multiple download options offer ultimate flexibility.

We know that different fleets have different needs. Whether you manage a fleet of a dozen vehicles in a single location or hundreds of vehicles across the globe, our data-download options give you the flexibility you need to download data quickly and easily. See the following pages for more details on each.

Download Option		CarChip Fleet Pro	DriveRight 600E
Serial Port	In the office, download directly from console to PC via serial port. Page 9.		•
USB	For CarChip, download directly to PC via the USB cable. For DriveRight, add our optional USB-to-Serial cable. Page 9.	•	•
Modem	Download the console from remote locations to your central office via modem using our Remote Download Kit. Page 11.		•
Palm Pilot	In the field, download data from multiple consoles into a single Palm Pilot. Page 11.		•
SmartCard	Issue a credit-card sized SmartCard to each driver, then use to both authorize the driver and download driving data. Page 13.		•
Wireless	Transmit wirelessly from parking lot to office. Query the vehicles whenever you like, or set up to download automatically. Page 12.	•	•



## Driver Safety Score

Ranks driver safety performance using a single concise score. You choose the factors you want to include in the safety score and how much to weigh each.

### For CarChip Fleet Pro and DriveRight 600E

- Choose detailed or summary report.
- Select starting and ending dates.
- Sort by current score, cumulative score, or driver name.

Compare current and cumulative safety scores to see how drivers are doing over time.

Weigh each factor appropriately by changing the safety score formula as needed.

Group drivers in color bands by high, medium, and low safety scores.

Drivers	Current Score	Cumulative Score	Max. Download Days	Total Distance Driven (Miles)	Accel. Counts per 100 Miles	Decel. Counts per 100 Miles	Maximum Speed (MPH)	Vehicle Speed Limit (MPH)	% of Driving Time over Threshold	Accel.	Decel.	Download	Speed
Light Vehicle Drivers													
Roger Larson	95	98	11	3437.5	0	0.1	72	70	0	100	99	100	98
Alberto Velasquez	95	98	21	1643.9	0	0	72	70	0	100	100	100	98
Joe Judah	94	90	5	2017.4	0	4.1	70	70	0	100	75	100	100
Deborah Billings	93	96	16	1706.8	0.1	0.2	73	70	0	100	99	100	92
Jan Perkins	90	92	5	2259.1	0	0	74	70	0	100	100	100	76
Ronnie Jacobson	90												
Michael Jax	89	89											
Bernie Woodward	89	89											
Mike Ilin	88	85											
Pos Villament	84	86											
Edward Michaels	84	81											
Joey Dubonnet	83												
Ed Duckhalter	81	76											
Roy Rogers	79	79											
Clay Cotton	78												
Jed Bluchler	78												
Michael Vick	78	74	37	1560.6	0.2	0.3	79	70	0	99	98	70	46
Anson Williams	78	69	55	768.2	0.1	0.2	79	70	0	99	99	20	46
Bob Kirby	77	79	36	1937.7	1.9	0.5	78	70	0	89	97	70	51
Erno Dickerson	77	74	56	1726.6	0.1	0.5	78	70	0.3	98	97	20	46
Dan Duttlinger	76	70	41	4507.8	0.1	0.4	80	70	0	100	95	70	40
Hube Humphries	65	68	56	2506.4	0.1	0.3	80	70	0	99	95	20	40
William Cook Benge	64	64	7	1855.6	0	0.1	82	70	0	100	100	100	34
Wend Chad Fox	63	63	54	4094.7	0	0.8	81	70	0	100	99	20	34

Actual screens may vary.

Compare the driver's top speed with your company's established speed safety limit.

View only those drivers who exceeded your selected criteria.

Determine the appropriate action by reviewing how much time was spent over the limit.

Driver ID	Driver Name	Trip Starting Date	Trip Starting Time	Trip Top Speed (MPH)	Vehicle ID	License Plate	Time Over Speed	DriveRight Speed Limit (MPH)
9703	Bob Bouchet	10/09/2003	05:49 AM	76	6	1LMR499	00:00:11	73
9703	Bob Bouchet	11/12/2003	11:13 AM	75	6	1LMR499	00:00:02	73
9703	Bob Bouchet	12/04/2003	11:31 AM	77	6	1LMR499	00:00:07	73
9703	Bob Bouchet	12/09/2003	05:49 AM	76	6	1LMR499	00:00:11	73
9703	Bob Bouchet	03/04/2004	11:13 AM	75	6	1LMR499	00:00:02	73
9703	Bob Bouchet	04/12/2004	05:49 AM	77	6	1LMR499	00:00:07	73
9703	Bob Bouchet	05/12/2004	05:49 AM	76	6	1LMR499	00:00:11	73
9703	Bob Bouchet	07/04/2004	11:13 AM	75	6	1LMR499	00:00:02	73
9703	Bob Bouchet	07/08/2004	11:31 AM	77	6	1LMR499	00:00:07	73
9703	Bob Bouchet	09/12/2004	05:49 AM	76	6	1LMR499	00:00:11	73
9703	Bob Bouchet	10/04/2004	11:13 AM	75	6	1LMR499	00:00:02	73
9703	Bob Bouchet	10/08/2004	11:31 AM	77	6	1LMR499	00:00:07	73
9703	Bob Bouchet	11/12/2004	05:49 AM	76	6	1LMR499	00:00:11	73
9703	Bob Bouchet	12/04/2004	11:13 AM	75	6	1LMR499	00:00:02	73
9703	Bob Bouchet	12/09/2004	11:31 AM	77	6	1LMR499	00:00:07	73

## Exception Reports

Make it easy to pay attention to what matters most. No need to sort through reams of data for each driver—simply enter your selected criteria, and let the software do the work.

### For CarChip Fleet Pro and DriveRight 600E

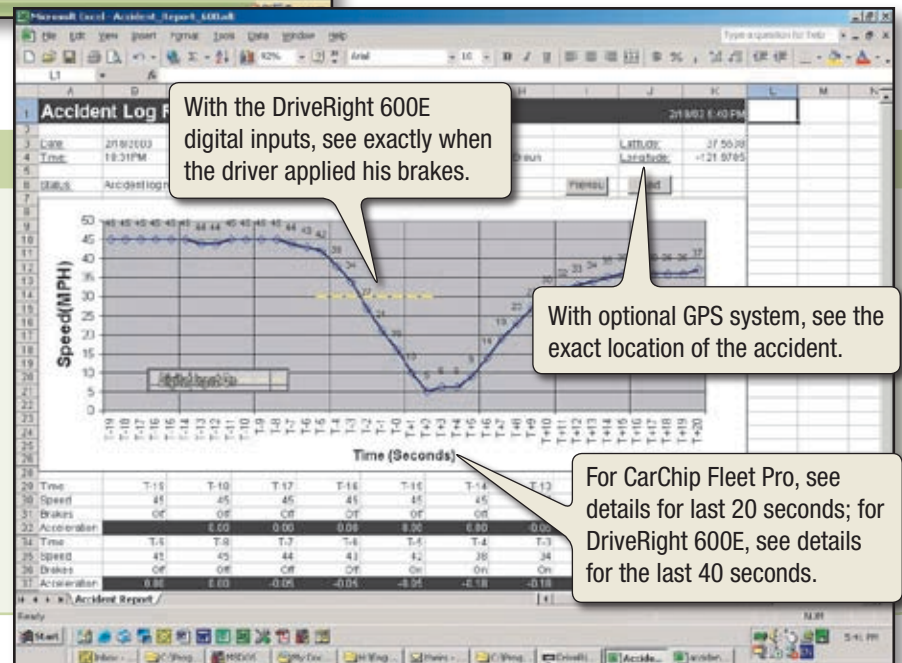
- Excessive speed and amount of time over speed.
- Number of hard braking events.
- Driving at night or outside of authorized hours.

## Accident Log

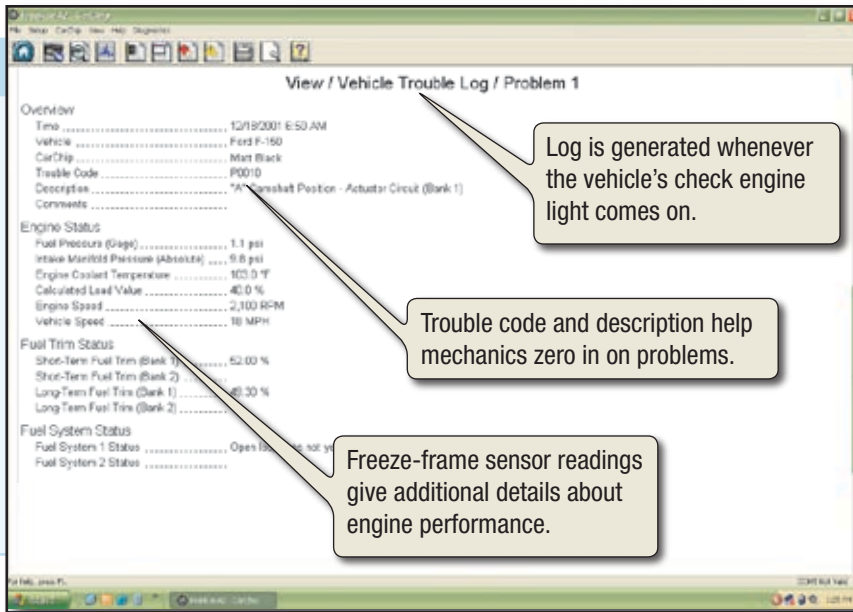
Whether the driver slammed on the brakes or hit an unmovable barrier, now you can get the detailed, moment-by-moment information needed to help reconstruct the accident.

### For CarChip Fleet Pro and DriveRight 600E

- Select specific CarChip or DriveRight ID and date.
- Output to the included Excel template to view in graphic format.
- View using Microsoft MapPoint or other third-party mapping software with optional GPS system.



# With CarChip Fleet Pro, not just driver performance, but engine performance, too!



## Diagnostic Trouble Codes

Helps take the guesswork out of diagnosing engine problems. Unlocks the information stored by a vehicle's engine control unit whenever there's an emissions problem or sensor failure.

### For CarChip Fleet Pro

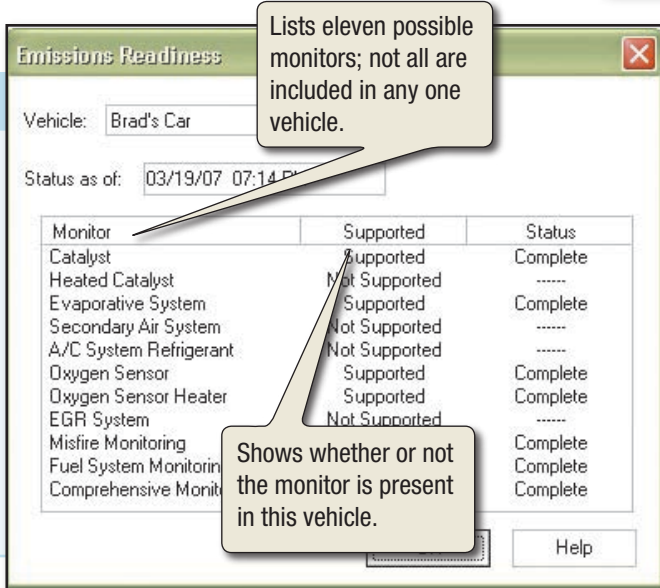
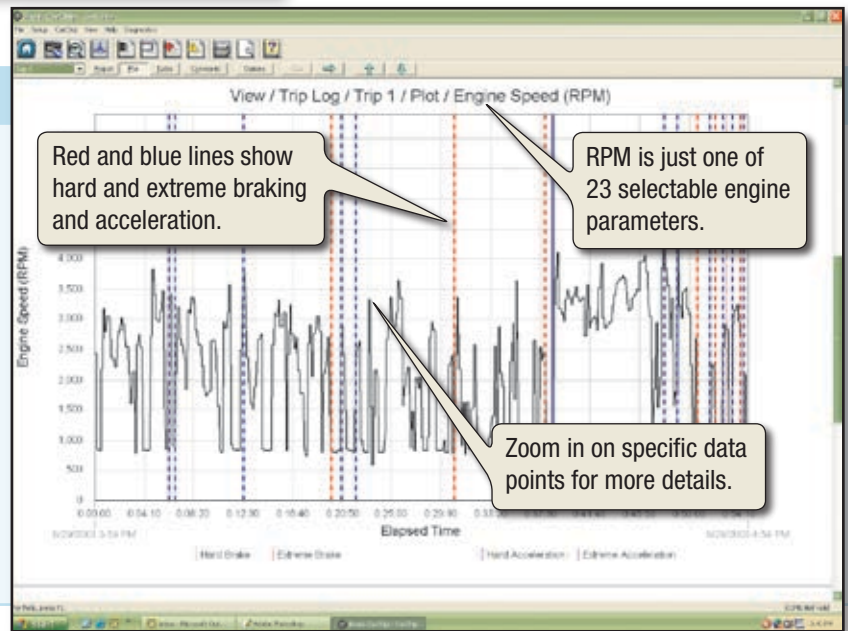
- Read the diagnostic trouble code whenever the check engine (or malfunction indicator) light comes on.
- Get detailed "freeze-frame" sensor readings—a snapshot of what was happening at the time.
- Clear the check engine light yourself.

## Engine Monitoring

Lets you see how your vehicles are performing under real-life driving conditions, not just when they're in the shop. Log any 4 out of 23 parameters at a time, at intervals from 5 to 60 seconds.

### For CarChip Fleet Pro

- RPM
- Throttle position
- Engine load
- Fuel pressure
- Fuel system status
- Short-term fuel trim (2 ea)
- Long-term fuel trim (2 ea)
- Battery voltage
- Timing advance
- Coolant temperature
- Air flow rate
- Intake air temperature
- Intake manifold pressure
- Oxygen sensor output voltage (8 ea)



## Emissions Readiness

Shows which emissions control systems have been tested by the vehicle's OBDII system. You'll know whether or not a vehicle will pass a smog test and can take action to keep it in top running condition.

### For CarChip Fleet Pro

- Misfire, fuel trim, and comprehensive component monitors are found in all OBDII-compliant vehicles.
- Other system monitors vary depending on manufacturer, make, and model.
- Some systems are monitored continuously; others only when certain operating conditions are met.

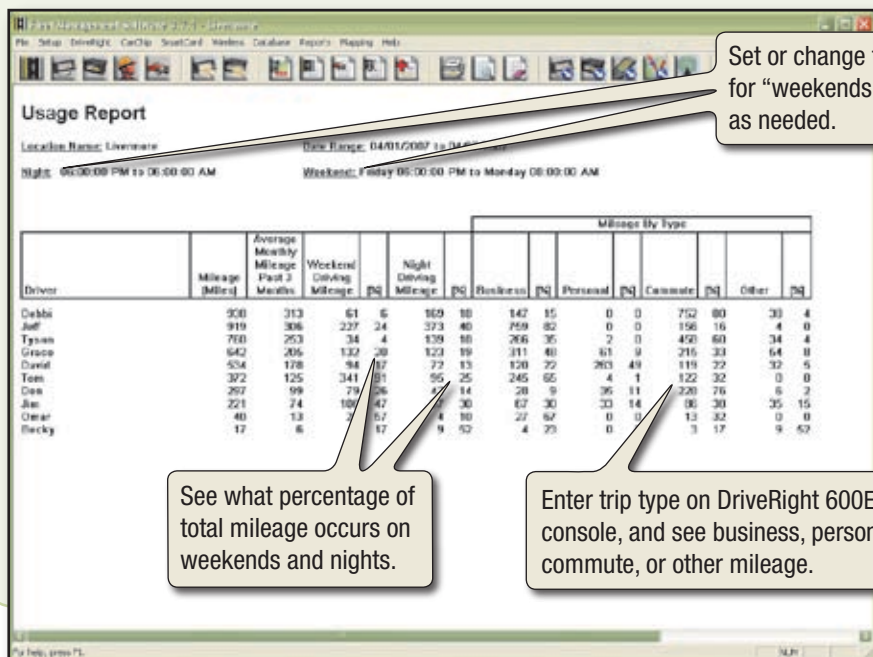


## Usage Report

Lets you see how much your vehicles are being driven, and when. Use to reimburse employees for business driving, to charge back personal use of company vehicles, or to monitor driving outside of authorized hours.

### For CarChip Fleet Pro and DriveRight 600E

- Display distance in miles or kilometers.
- Select starting and ending dates, and print for all or selected drivers or vehicles.
- Sort by driver name, total mileage, or weekend or nighttime mileage.



Set or change the definitions for "weekends" and "nights" as needed.

See what percentage of total mileage occurs on weekends and nights.

Enter trip type on DriveRight 600E console, and see business, personal, commute, or other mileage.

## Fleet Management Software

### FOR CARCHIP FLEET PRO and DRIVERIGHT 600E

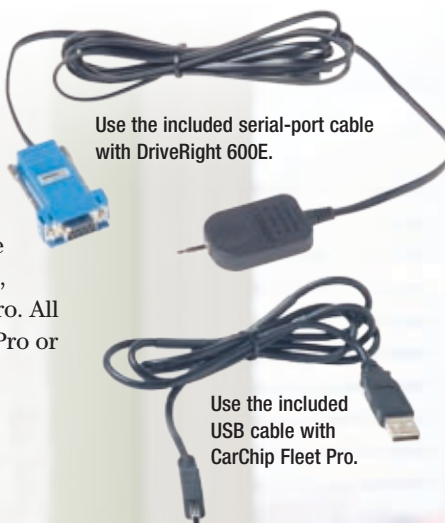
Includes software on CD, serial-port cable for downloading from the DriveRight 600E on-board console, and USB cable for downloading from CarChip Fleet Pro. For easy, automatic downloading, add the wireless download system shown on page 12. Data from DriveRight 600E may also be downloaded using the optional USB-to-Serial Cable shown below, the Palm or Remote Download Kits shown on page 11, or the SmartCard System shown on page 13. Reports for diagnostic trouble codes, engine monitoring, and emissions readiness require the use of CarChip Fleet Pro. All other reports are available whether you use CarChip Fleet Pro or any of our DriveRight 600E models.

**8186 Fleet Management Software \$395**

### USB-to-Serial Cable

Optional cable. Use with DriveRight 600E to connect the included serial-port cable to the USB port on your PC.

**8434 USB-to-Serial Cable \$20**



## Fleet Management Software System Requirements

- Windows 98SE, ME, NT 4.0, XP, 2000, or Vista

### Works with

- MS Excel. Use our included templates or create your own reports from tab-delimited text files.
- MS Outlook. Place the report in the body of the e-mail if HTML-enabled, or send as an Excel attachment.
- MS MapPoint or other third-party mapping software. Use with our GPS Module to see how and where your vehicles are being driven.
- FTP Client/Server. For secure transfer of large amounts of data from remote sites via the Internet.

## Runs on Multiple Database Platforms

- For smaller fleets, includes Microsoft Access and MSDE databases; no additional software or licenses required.
- For larger fleets, use with MySQL, MS SQL Server, or Oracle.

## GPS Module

FOR CARCHIP FLEET PRO and DRIVERIGHT 600E

### See how and where your vehicles are being driven.

Add a GPS system to the DriveRight 600E or CarChip Fleet Pro in each vehicle, and you can see not just how your vehicles are being driven—but where. Download the data to our Fleet Management Software, then use Microsoft MapPoint or other third-party mapping programs to create detailed maps showing each driver's routes, the speeds driven, and the locations of any accidents or near-accidents.

#### GPS/WIRELESS Interface Module

Connects the GPS Module to either your DriveRight 600E on-board console or the CarChip Fleet Pro data logger. You'll need one per vehicle. Easily mounts under dashboard using the included Velcro® strips or double-sided foam tape. Available in two models. A single Interface Module can be used to install both a GPS system and a wireless download system. See page 12 for details on our wireless download system.

**8127 Interface Module** for DriveRight 600E **\$65**

**8251 Interface Module** for CarChip Fleet Pro **\$65**

**New!** Our GPS Module now works with CarChip Fleet Pro



#### GPS Module

Plugs quickly and easily into the DriveRight 600E on-board console or CarChip data logger using the appropriate GPS/Wireless Interface Module. For maximum visibility to GPS satellites, position the module on the dashboard or windshield. Includes 6.5' (2 m) cable.

**8128 GPS Module \$100**

For CarChip Fleet Pro, includes a 2.5' (0.7 m) cable to connect to the CarChip data logger.

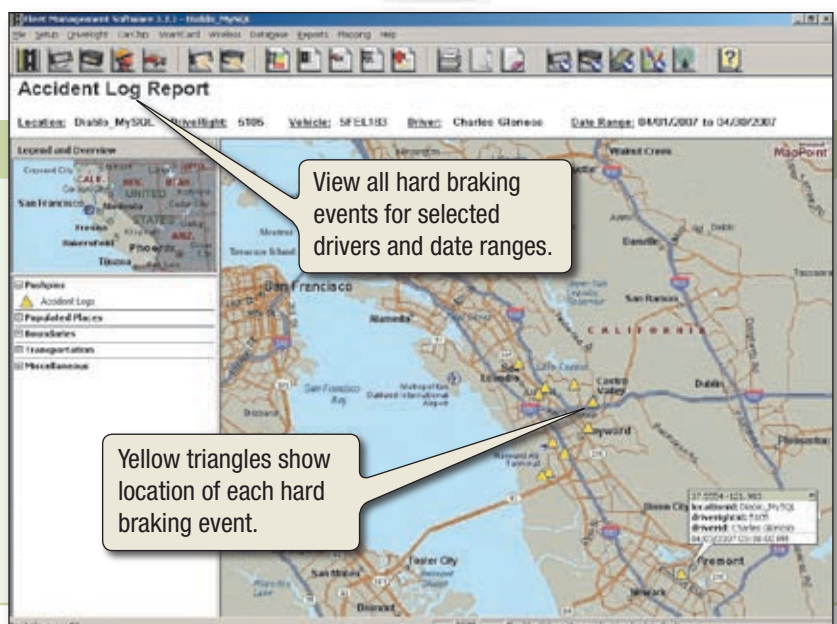
For DriveRight 600E, includes a 2' (0.6 m) cable to connect to the console or SmartCard On-Board Reader, and a shorter, 14" (0.3 m) cable to connect to the optional digital input cable used to monitor seatbelt or headlight use.

### Accident Map

Too many hard decelerations, and your driver is probably following too closely or driving too fast—and at an increased risk of having an accident.

#### For CarChip Fleet Pro and DriveRight 600E

- View the location of each hard braking event.
- Query each triangle for details on time and date.
- Zoom in to see exact location or to see details on the entire trip.



Screens created using Microsoft MapPoint. Actual screens will vary.

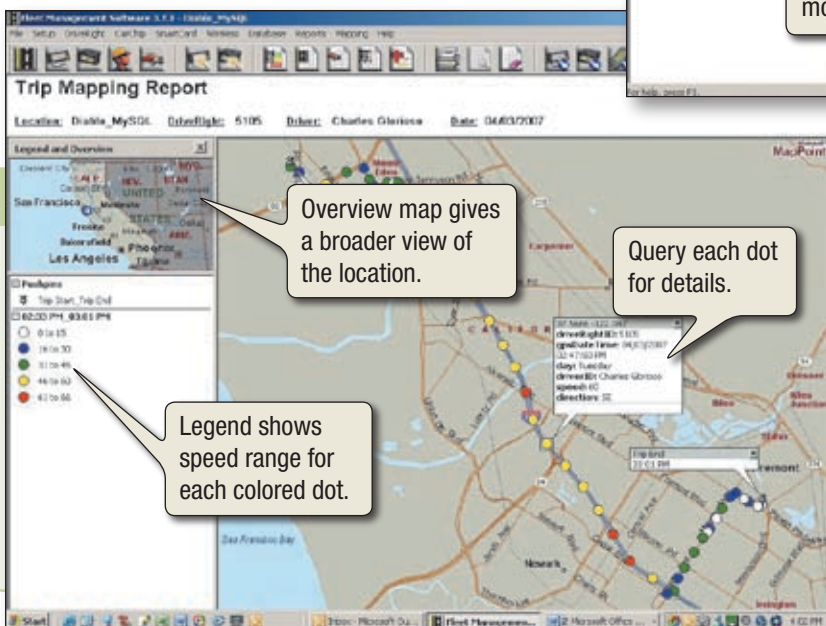
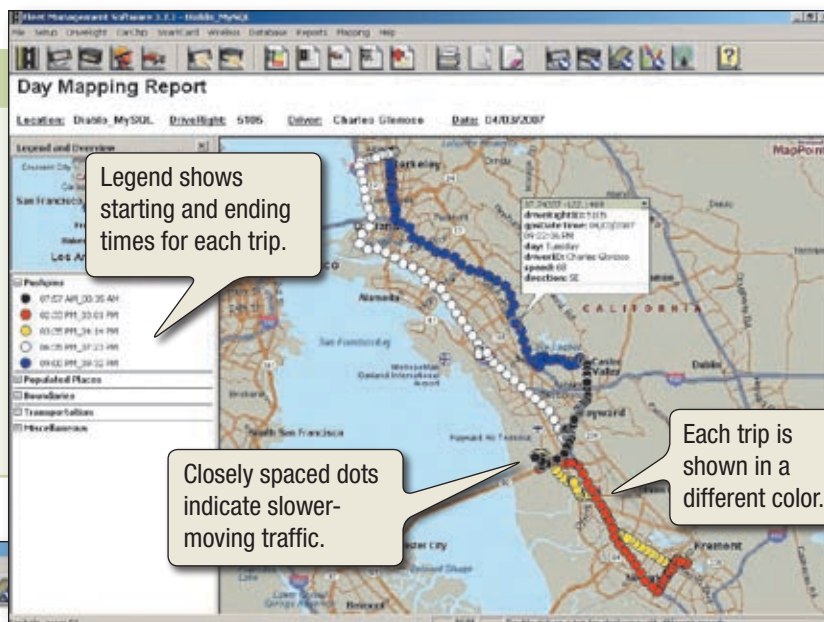


## Day Map

See where your drivers went each day, each place they stopped, and the routes they took.

### For CarChip Fleet Pro and DriveRight 600E

- Select for specific DriveRight or CarChip IDs, drivers, dates, and speeds.
- Query each dot for details on time, speed, and direction.
- Zoom in for a closer view of the route or to see the details of each trip.



## Trip Map

See how long it took your driver to get from one place to another, and view details for the entire trip.

### For CarChip Fleet Pro and DriveRight 600E

- Query each dot for details on time, speed, and direction.
- Set or change the number of speed ranges and the speed for each.
- Zoom in to see streets and intersections; zoom out to see the broader geographical area.

## More About GPS

- Location accuracy to 30' (9 m).
- Logging interval from one second to 15 minutes.
- DriveRight 600E stores last hour of GPS data at one-second intervals; last 650 hours at 15-minute intervals.
- CarChip Fleet Pro stores last 24 hours of all data when GPS is logged at one-second intervals (assuming speed logged every second, other engine parameters every 5 seconds); last 90 hours at 15-minute intervals.
- For North America and Europe, use with Microsoft MapPoint (available from third-party software retailers; not sold by Davis Instruments).
- Outside North America and Europe, export data into other third-party GPS mapping software.

## Palm & Remote Download Kits

### FOR DRIVERIGHT 600E

#### Capture data from multiple vehicles via Palm Pilot.

Allows you to download data quickly and easily from multiple DriveRight 600E on-board consoles. No need to bring the consoles into the office for downloading—simply take your Palm Pilot out to the vehicles. Even the basic Palms have enough memory to hold the data from dozens of vehicles. Back in the office, transfer the data to your PC using a single Fleet Management Software menu selection. Includes software on CD, download cable, and adapters. For use with older-model Palms with serial-port connectors only.

**8181 Palm Download Kit \$95**



#### Download from remote locations via modem.

If your fleet is spread out over a large geographic area, use our Remote Download Kit to allow drivers to send the data from their DriveRight 600E on-board consoles to your central office via modem. Coordinate with your drivers to download at scheduled times, or run the software continuously to allow transfer at any time. Includes download cable, modem-interface cable, and adapters. Requires third-party external modem (not available from Davis Instruments).

**8188 Remote Download Kit \$95**



# Wireless Download System

FOR CARCHIP FLEET PRO and DRIVERIGHT 600E

## Makes data download automatic — and effortless!

Our easiest, most foolproof download system yet. There are no buttons to push, nothing for your drivers to remember to do. They simply pull into the parking lot, and the data from their DriveRight 600E or CarChip Fleet Pro is transmitted wirelessly—and automatically—to your office. Components are sold separately so you can customize the installation for your fleet. You'll need at least one of each plus our Fleet Management Software. Transmission distance is 600' (200 m) line of sight.

### WIRELESS Base Station

Receives data from the Wireless On-Board Module and passes it on to the Fleet Management Software. You'll need at least one Base Station per parking lot or office. Larger parking lots may require more than one Base Station; maximum five per Fleet Management Software package. Includes 8' (2.4 m) cable to connect to the USB port on your PC. For longer distances, add one of these third-party solutions (not sold by Davis Instruments):

- A standard USB extension cable. Maximum total cable length is 16.5' (5 m).
- A USB extender. Maximum distance is 150' (45 m).
- A USB device server connected to your company intranet, for virtually unlimited distances.

**8130 Wireless Base Station \$200**

### WIRELESS On-Board Module

Transmits the data collected by a DriveRight 600E or CarChip Fleet Pro to a Wireless Base Station. You'll need one per vehicle. Before installation, complete a few simple steps using our Configuration Cable and Fleet Management Software. Then, plug the module into the DriveRight 600E on-board console or CarChip data logger using the appropriate GPS/Wireless Interface Module. Mounts in window of vehicle using the included Velcro® strips or double-sided foam tape.

**8129 Wireless On-Board Module \$120**

### GPS/WIRELESS Interface Module

Connects the Wireless On-Board Module to either your DriveRight 600E on-board console or the CarChip Fleet Pro data logger. You'll need one per vehicle. Easily mounts under dashboard using the included Velcro® strips or double-sided foam tape. Available in two models. A single Interface Module can be used to install both a wireless download system and a GPS system. See page 10 for details on our GPS system.

**8127 Interface Module for DriveRight 600E \$65**

**8251 Interface Module for CarChip Fleet Pro \$65**

**New! Our Wireless Download System now works with CarChip Fleet Pro!**

### Configuration Cable For Wireless On-Board Module

Connects the Wireless On-Board Module to the USB port on your PC for configuration before initial use. Includes 8' (2.4 m) cable. You'll need one per office or fleet location.

**8131 Configuration Cable for Wireless On-Board Module \$65**

### Multi-Purpose Shelter

For outdoor installations, mount the Base Station in our weatherproof Multi-Purpose Shelter. Measures 3¾" × 9½" × 12½" (9.5 × 24 × 32 cm).

**7728 Multi-Purpose Shelter \$85**



For CarChip Fleet Pro, includes a 2.5' (0.7 m) cable to connect to the CarChip data logger.

For DriveRight 600E, includes a 2' (0.6 m) cable to connect to the console or SmartCard On-Board Reader, and a shorter, 14" (0.3 m) cable to connect to the optional digital input cable used to monitor seatbelt or headlight use.





## SmartCard System

FOR DRIVERIGHT 600E

### Easy download, enhanced security — all in one smart package.

Add our SmartCard system to your DriveRight 600E, and you'll have an easy and economical way to set driver safety limits, ensure that your vehicles are being driven by authorized individuals only, and download driving data.

- **Use the Desktop Reader** and our Fleet Management Software to program an administrative SmartCard with driver IDs, authorized vehicles, and your company's driver safety limits for speed, acceleration, and deceleration.
- **Use the On-Board Readers** to quickly and easily transfer the information from the administrative SmartCard to the DriveRight 600E on-board consoles, right in the parking lot. No need to bring the consoles into the office!
- **Issue a personalized SmartCard** to each driver. Before his first trip, all the driver needs to do is insert his SmartCard into the on-board reader. The system will check to make sure that he's authorized and let him know that he's good to go. At the end of the day, he just presses a button to transfer his driving data to the SmartCard, ready to be turned into the office—that's all there is to it!

#### SMARTCARD On-Board Reader

Plugs simply and easily into the DriveRight 600E on-board console. Mounts to dashboard using the included Velcro® strips or double-sided foam tape. Includes one SmartCard to help you get started. Additional SmartCards are sold separately in packs of ten.

**8105 On-Board Reader \$120**



Convenient, credit-card sized SmartCard can be worn on a lanyard, clipped to a belt, or carried in a wallet.

#### SMARTCARD Desktop Reader

For programming SmartCards with driver ID and safety limits, and for downloading driving data. Connects quickly and easily to the USB port on your PC. Includes 4.5' (1.3 m) cable. You'll need one per download location.

**8108 Desktop Reader \$80**

#### SmartCard

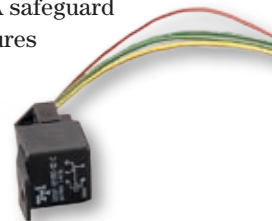
Available in packs of ten. You'll need at least one for each driver, plus an additional SmartCard for administrative purposes.

**8112 SmartCard, Pack of 10 \$80**

#### SMARTCARD Starter Interrupter Kit

With our optional Starter Interrupter Kit, the vehicle won't start until the driver has inserted his SmartCard and the system has verified his ID. A safeguard against driver forgetfulness—it ensures that all driving data is captured for every trip—and a way to prevent unauthorized drivers from using the vehicles.

**8116 Starter Interrupter Kit \$20**



## Warranty

We warrant our products to be free of defects in material and workmanship for one year from the date of original purchase. While we make every effort to carefully manufacture our products to the highest standards of quality, occasionally parts may be found to be missing, defective, or damaged.

If you have a defective part, return the product to us, shipping charges prepaid. Include proof of purchase and a written explanation of the trouble. During the warranty period, we will, at our option, either repair or replace the product free of charge. This warranty does not cover damage due to improper installation or use, negligence, accident, or unauthorized service, or to incidental or consequential damages beyond the Davis products themselves. Implied warranties are limited in duration to the life of this limited warranty.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights. You may have other rights, which vary from state to state and country to country.

## Important Safety Notice

CarChip and DriveRight OBD have been carefully designed and tested to comply with the OBDII protocols used on vehicles sold in the USA, model-year 1996 or later. However, some vehicle models are not in full compliance with these protocols. In addition, the computer control systems on any given vehicle may be malfunctioning or out of spec, as may be the sensors used by these systems.

Before installing CarChip or DriveRight OBD, be sure to review the list of known exclusions on our website at [www.carchip.com](http://www.carchip.com), where you'll also find the latest software and firmware downloads. For an in-depth discussion of OBDII anomalies, we recommend The Equipment and Tool Institute's website at [www.etools.org](http://www.etools.org).

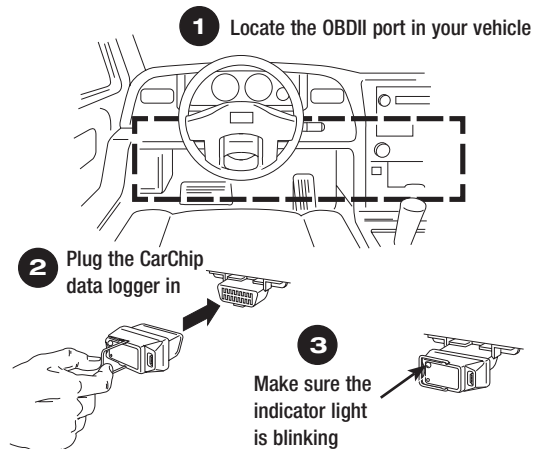
While our testing and the experience of thousands of CarChip and DriveRight OBD users have shown the units to be safe and reliable, there is an inherent risk in adding any aftermarket product that may potentially affect the operation or drivability of your vehicle. Should you be concerned about the operation of your vehicle at any time while using any of our products, you should pull over, off the roadway, immediately or as soon as it is safe to do so. Remove the unit from the OBDII port, and consult a licensed mechanic or automobile service center.

Report any issues or concerns to our Technical Support Department at (510) 732-7814 or [support@davisnet.com](mailto:support@davisnet.com). We are open Monday through Friday, 7:00 a.m. to 5:30 p.m. Pacific Time. We maintain an active database of the feedback we receive, and your comments can help us continuously improve the product.

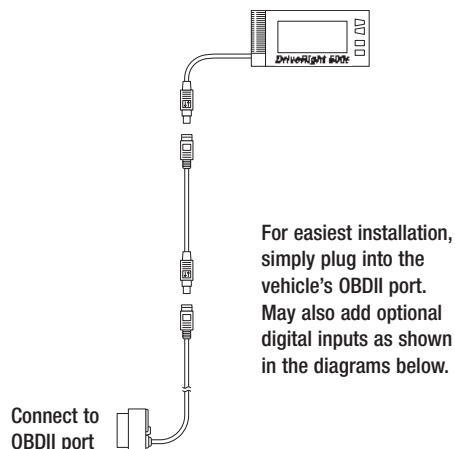
# Installation Diagrams

FOR CARCHIP FLEET PRO and DRIVERIGHT 600E

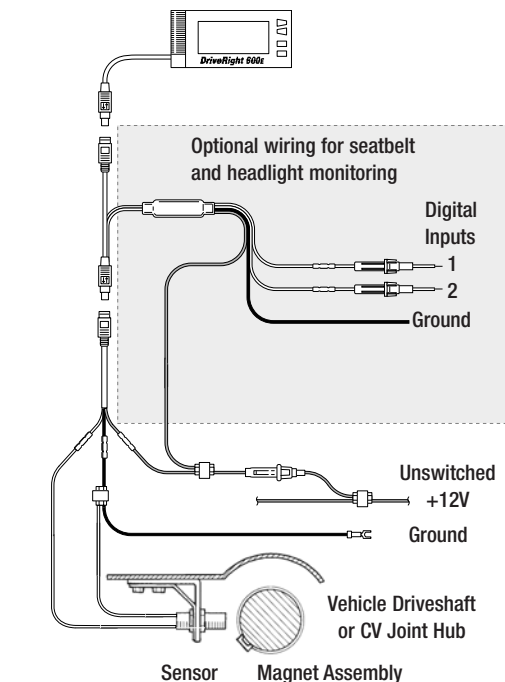
## CarChip Fleet Pro



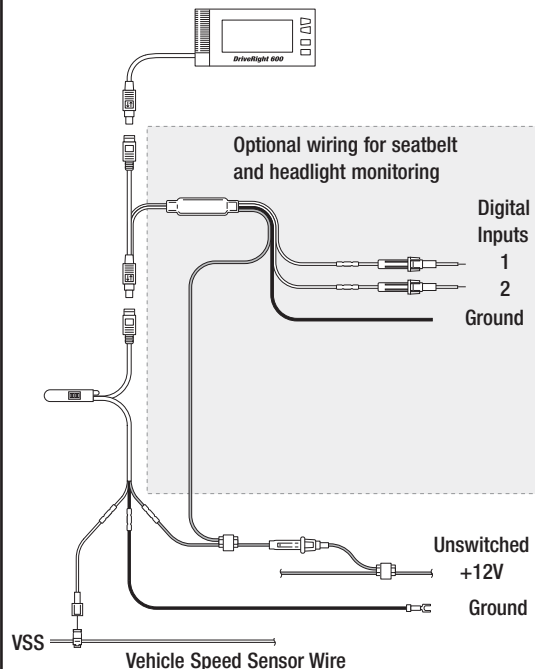
## DriveRight 600E OBDII Installation



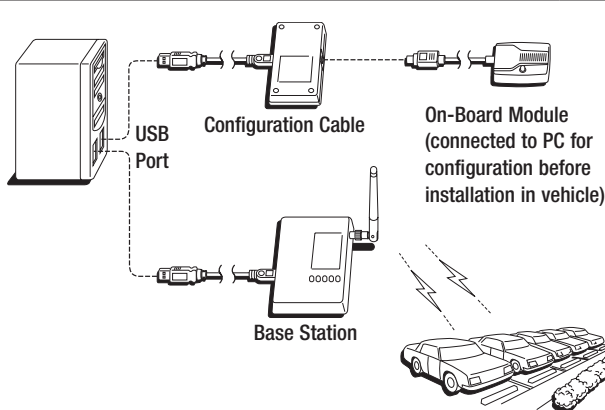
## DriveRight 600E General Duty/Heavy Duty



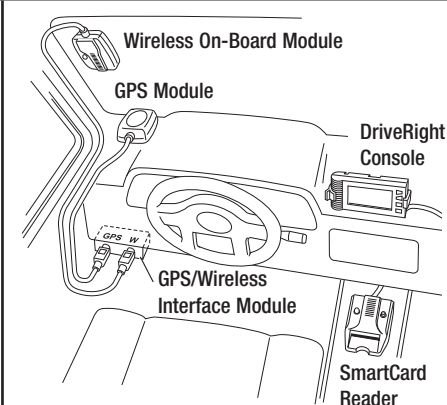
## DriveRight 600E VSS Installation



## Wireless Download System



## DriveRight 600E with Optional Components





# Feature Comparisons

FOR CARCHIP FLEET PRO and DRIVERIGHT 600E

			8246 & 8186 CarChip Fleet Pro with Fleet Management Software	8126 & 8186 DriveRight 600E with Fleet Management Software
FEATURES & OPTIONS	List Price	Data logger or on-board display console	\$169	\$375–395
		Software (requires just one software package per fleet)	\$395	\$395
	Installation	Installs using	OBDII connector	OBDII, VSS, driveshaft, or CV joint
		For model years	1996 and later	Any
		For cars, vans, and pickup trucks	●	●
		For tractors, big rigs or other large trucks, and buses		●
		Professional installation recommended (for GD, HD, or VSS)		●
		Estimated installation time	15 seconds	10 min (OBD) to 1–2 hrs (GD, HD, VSS)
	Download to Computer	Using included USB cable	●	
		Using the included serial-port cable or optional USB cable		●
		Wireless using optional system (additional \$450)	●	●
		Via modem using optional Remote Download Kit (additional \$95)		●
		Via Palm Pilot using optional Palm Download Kit (additional \$95)		●
		Via SmartCard using optional system (additional \$280)		●
	Backup Battery	Battery type	Internal	3-volt lithium
		Expected battery life if unit not in vehicle	10–15 years	2–4 months
		Expected battery life under normal usage	10–15 years	3–5 years
DRIVER PERFORMANCE	Acceleration & Deceleration	Hard accelerations	●	●
		Hard decelerations	●	●
		On-board alarms for hard accelerations and decelerations	●	●
	Accident Log	After hard deceleration, speed every second for the last 20 seconds before a complete stop.	●	
		Speed every second for 20 seconds before and 20 seconds after hard deceleration.		●
	Distance	Distance traveled per trip	●	●
	GPS	Optional GPS position logging (additional \$165)	●	●
	Trip Time	Starting and ending time for each trip	●	●
		Total elapsed time for each trip	●	●
		Engine idle time	●	
		Weekend/night driving time	●	●
	Trip Type	Specify trip type using on-board console		●
	Speed	Top speed	●	●
		Average speed	●	●
		Time over safety limit for speed	●	●
		Time within user-specified speed ranges	●	
		On-board alarm for high speed	●	●
	Seatbelt Use	If selected as one of two digital inputs		●
ENGINE	Diagnostic trouble code with “freeze-frame” sensor readings		●	
	Ability to reset “check engine” light		●	
	Logging of user-selectable engine parameters (see list on page 4)		●	
SECURITY	Security code to change settings on on-board console			●
	Driver ID code and vehicle login restrictions			●
	Tamper indicator shows on on-board console			●
	Tamper log may be viewed in software		●	●

Hours of data varies depending on the logging interval. GPS logging requires optional components.	LOGGING INTERVAL			HOURS OF DATA
	Speed	GPS Location	Engine Parameters	
CARCHIP FLEET PRO	1 second	1 second	5 seconds	24 hours
	5 seconds	60 seconds	60 seconds	520 hours
	5 seconds	Not logged	Not logged	1200 hours
DRIVERIGHT 600E *	1 second	1 second	n/a	1 hour
	30 seconds	30 seconds	n/a	30 hours
	15 minutes	15 minutes	n/a	650 hours

\* For DriveRight 600E, the hours of speed data stored does not vary whether or not GPS location data is stored. DriveRight 600E also stores data for up to 600 trips in a separate trip log. Each trip log includes starting and ending time and date, distance, top speed, average speed, and more. Engine parameter logging is not available with DriveRight 600E; to log these, use CarChip Fleet Pro. Details, specifications, and prices are subject to change at any time without notice.

## Here's what people are saying about CarChip and DriveRight:

When my drivers saw how they were breaking the law, it woke some of them up. CarChip has helped us to remind them that sometimes you forget how fast you are really driving.

*Roadside Assistance, Arizona*

In the first year of using DriveRight, our company achieved its goal. Over the two-year period, corporate officials reported zero accidents.

*Fleet Operations Manager, Algeria*

It's not an exaggeration to say that for this project, CarChip provided a more reliable and cost-effective means to obtain vehicle operating data than any other approaches that we know.

*Air Pollution Researcher, California*

Recently had a customer ring me about an incident involving one of their motor vehicles. Using information from their DriveRight 600, I was able to redirect their culpability of involvement. The cost of the DriveRight was repaid just on this occasion alone.

*Driver Training, Australia*

CarChip is a simple tool every fleet manager can use. Ever since we began using it and informing drivers that their vehicle “may” have a vehicle data recorder installed, citizen complaints have decreased.

*University Fleet Manager, Nebraska*

## A note for our international customers.

OBDII on-board diagnostics became mandatory for all cars, pickups, and vans manufactured for sale in the U.S. and Canada beginning with model-year 1996. Many vehicles manufactured for sale elsewhere are also OBDII-compliant, and CarChip Fleet Pro and the OBD version of DriveRight 600E will work with these vehicles as well. However, there is no easy way to tell which are OBDII-compliant and which are not, even if the vehicle appears to have the proper connector. If you want to use CarChip Fleet Pro or the OBD version of DriveRight 600E, we suggest that you purchase a sample unit and test it in your fleet before committing to a larger purchase.



**Three  
simple steps  
to building your own  
fleet management system**

**1 Select one or more  
installation methods**

- OBDII On-Board Diagnostics
- VSS Vehicle Speed Sensor
- Driveshaft or CV Joint

**2 Choose one or more  
download methods**

- USB or Serial Port
- Palm Pilot
- SmartCard
- Remote Modem
- Wireless Transmission

**3 Get the info  
you need!**

- Fleet Management Software
- Engine Diagnostics & Troubleshooting
- GPS

**DAVIS**  
**Davis Instruments**

3465 Diablo Avenue, Hayward, CA 94545-2778

FORWARDING SERVICE REQUESTED