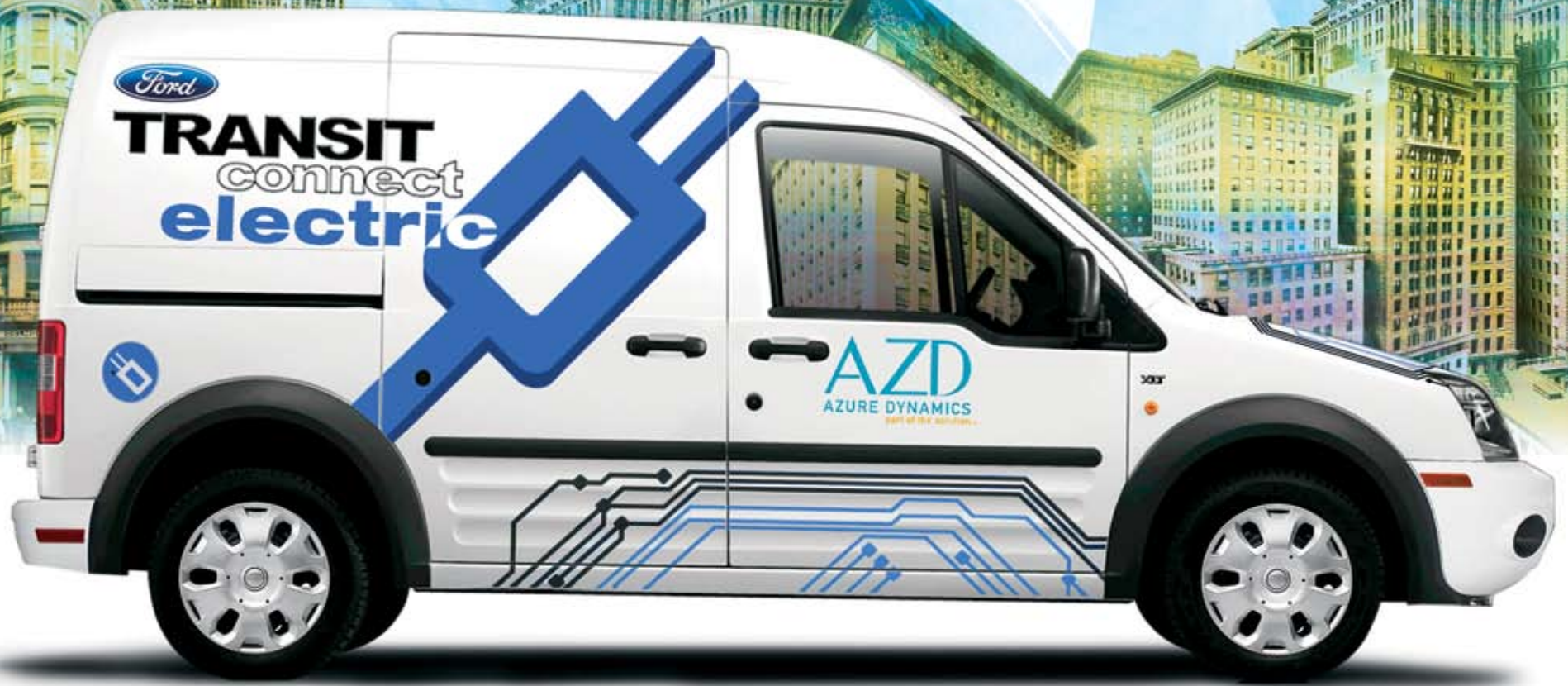


# transit connect electric

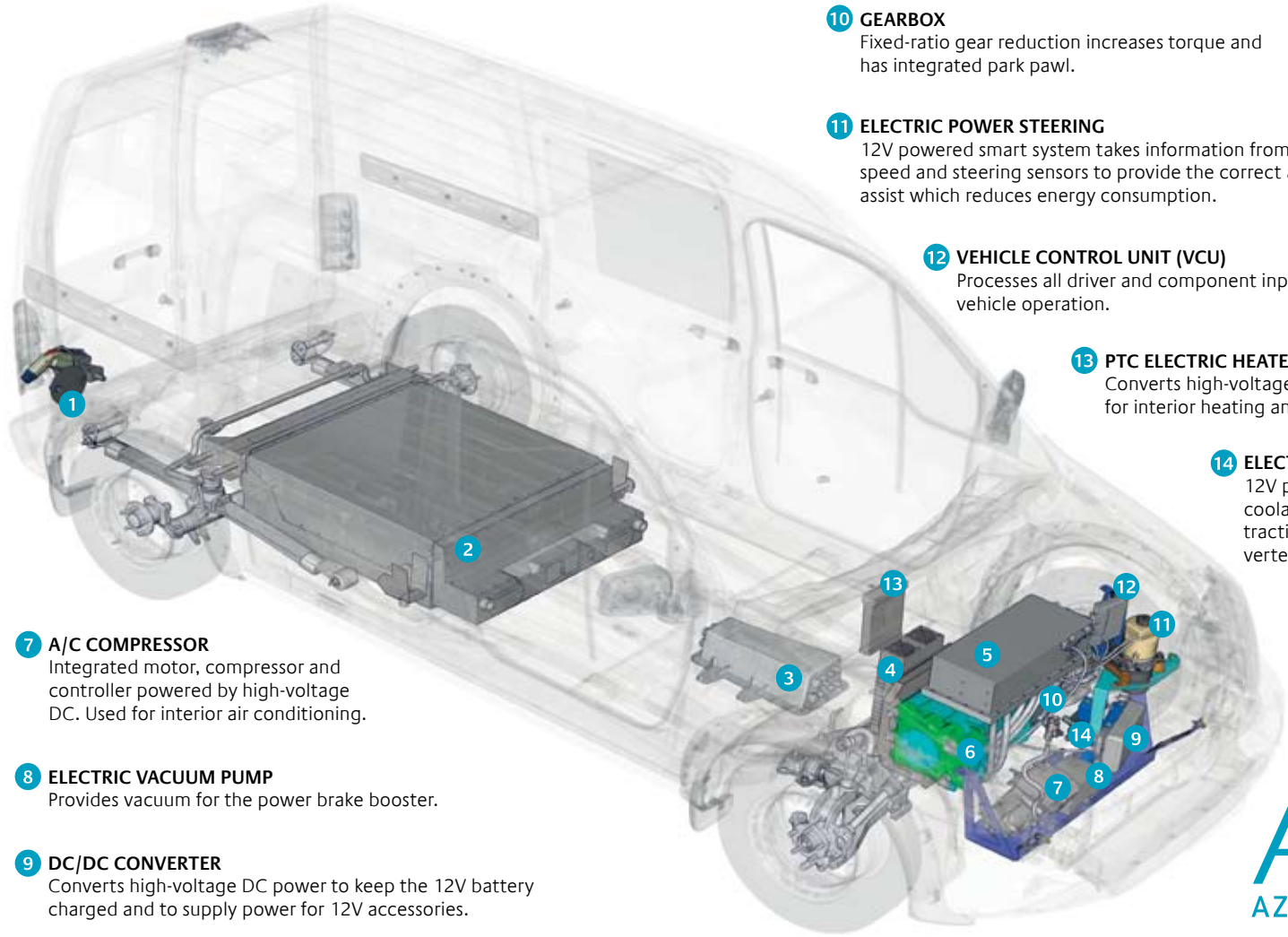
Driving a world of difference in a light-duty electric vehicle.



The 2010 Ford Transit Connect—North American Truck of the Year.



# force drive™ components



**1 LEVEL 2 CHARGE PORT**  
The vehicle is connected to the electrical grid through this port when charging. Capable of 120V or 240V AC charging.

**2 HIGH-VOLTAGE BATTERY**  
Liquid cooled 28 kWh lithium-ion battery pack with internal sensors and controller.

**3 HIGH-VOLTAGE JUNCTION BOX**  
Distributes DC power from battery to components and contains high-voltage fuses.

**4 LEVEL 2 CHARGER**  
Uses 120V or 240V AC input from charge port. Converts AC power to DC power to charge battery in 6 to 8 hours at 240V.

**5 MOTOR CONTROLLER & INVERTER**  
Converts DC from the battery to 3 phase AC for the traction motor. Controls the speed and torque of the traction motor.

**6 TRACTION MOTOR**  
Converts electrical energy to wheel torque. Speed & torque outputs are based on accelerator input.

**7 A/C COMPRESSOR**  
Integrated motor, compressor and controller powered by high-voltage DC. Used for interior air conditioning.

**8 ELECTRIC VACUUM PUMP**  
Provides vacuum for the power brake booster.

**9 DC/DC CONVERTER**  
Converts high-voltage DC power to keep the 12V battery charged and to supply power for 12V accessories.

**10 GEARBOX**  
Fixed-ratio gear reduction increases torque and has integrated park pawl.

**11 ELECTRIC POWER STEERING**  
12V powered smart system takes information from vehicle speed and steering sensors to provide the correct amount of assist which reduces energy consumption.

**12 VEHICLE CONTROL UNIT (VCU)**  
Processes all driver and component inputs in order to control vehicle operation.

**13 PTC ELECTRIC HEATER**  
Converts high-voltage DC power to heat. Used for interior heating and windshield defrosting.

**14 ELECTRIC COOLANT PUMP**  
12V powered pump circulates coolant through battery pack, traction system, DC/DC converter and heat exchanger.



## battery electric attributes

### AZD FORCE DRIVE™ BATTERY ELECTRIC SYSTEM

- 28 kWh, lithium-ion battery (supplied by Johnson Controls-Saft)
- Driving range: up to 80 miles (drive cycle dependent)
- Charge time: 6 to 8 hours with 240V/30A supply
- Max speed: 75 mph
- Able to ascend up to 20% grade
- Ambient operational temp: -30° F to 120° F\*

\* Some power reduction may occur above 110° F and lower temperatures require pre-conditioning. Specifications preliminary and subject to change upon introduction of the Transit Connect Electric 2010.

## Ford transit connect attributes

- GVWR: 5,005 lbs
- Maximum payload: 1000 lbs (estimated)
- 114.6 in. wheelbase and high roof
- Over 135 cu. ft. of cargo space
- 2 sliding side doors, 2 swinging rear doors
- Low side and rear load floor
- AdvanceTrac® with RCS® (Roll Stability Control™)
- Standard front and front seat-side airbags
- Standard Tire Pressure Monitoring System
- 39-ft. curb-to-curb turning radius
- Cargo vans have seating for 2 and an open cargo box