



MSU TEAM

David Oglesby - Team Leader
 Stephen Phillips - Electrical/Mechanical
 Matthew Young - Controls
 Christopher Whitt - Powertrain
 Ryan Williams - Powertrain
 Brian Christian - Mechanical
 Kennebec Walp - Controls
 Kyle Crawford - Emissions
 Amanda McAlpin - Outreach
 Ron Lewis - Electrical
 Dustin Black - Business
 Michael Barr - Mechanical
 G. Marshall Molen - Faculty Advisor
 Robert Kirkland - Staff Advisor



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Mississippi State
UNIVERSITY



To design a through-the-road, hybrid Equinox that is charge sustaining, consumer acceptable, production feasible, and capable of meeting both the team's and the competition's performance requirements.



CAVS

MISSISSIPPI STATE UNIVERSITY
 CENTER FOR ADVANCED VEHICULAR SYSTEMS

Ballard IPT
AC induction
electric drive

Overall fuel efficiency
improvement of over 45%



CD Player featuring GPS
navigation capability and
Bluetooth compatibility

Side and front
airbags

1.9 L Turbo-diesel
utilizing B20 bio-
diesel

Manual 6 speed
transmission

Johnson Controls
NIMH battery
pack

SCR exhaust system
substantially reducing
emissions



Run-flat technology
eliminating spare tire

5 Passenger seating with
full trunk space

