

# ECO-STAR™

## ANTI-IDLE STOP/START TECHNOLOGY

### FEATURES & BENEFITS

- ◆ Automatically turns the engine off when specific conditions are met
  - ◆ Vehicle in "Park"
  - ◆ Battery voltage normal
  - ◆ A/C "off"
  - ◆ Driver/ Passenger door open
- ◆ Automatically turns the engine "on" when either condition is met
  - ◆ Service brake pressed with doors closed
  - ◆ Battery voltage is low
- ◆ Configurable Idle Timer Shutdown
- ◆ Easy to install
- ◆ Microprocessor controlled
- ◆ Helps to meet new state anti-idling regulations



### WHY ECO-STAR

- ◆ **Fuel Savings**
  - ◆ Pays for itself in a short period of time
- ◆ **Efficient**
  - ◆ It is more efficient to turn a warm engine off & then back on, than to idle for more than *5 seconds*
- ◆ **Automatic**
  - ◆ Conserve fuel without your driver thinking about it
- ◆ **Eco-Friendly**
  - ◆ Reduces CO<sub>2</sub> emissions (saves 19lbs per gallon of gasoline burned just for idling)



Rev E

An ISO 9001:2008 Registered Manufacturer  
www.InterMotive.net 800-969-6080



# ECO-STAR™

## 1 & 5 Year of Eco-Star Stop/ Start Technology Economics

PARA-TRANSIT BUS	20 Passenger Ford E450 Conventional 6.8L Gasoline	Year 1	Year 5
		InterMotive EcoStar Stop/Start Same App.	InterMotive EcoStar Stop/Start Total
Est. Cost of EcoStar Stop/Start (installed)		\$ 800	\$ 800
Federal Grant Percentage		80%	80%
Miles/Year	30,000	30,000	150,000
Low-Speed Fuel Economy (mpg)	7.1	7.1	7.1
Hours of Operation per Day	9	9	9
Days of Operation per Week	5	5	5
Avg. Driving Speed (mph)	24	24	24
Idle Consumption-Gear (gal/hr)	0.69	0.69	0.69
Idle Consumption-Park (gal/hr)	0.61	0.61	0.61
Total Hours of Operation perYear	2,340	2,340	11,700
Hours of Operation per Year	1,250	1,250	6,250
Hours Idling per Year (in gear)	315	315	1,575
Hours Idling per Year (in park)	190	4	20
# of Pick-ups/Drop-offs per Day	12	12	12
Driving Gallons per Year	4,225	4,225	21,127
Idle Gallons per Year (gear)	217	217	1,087
Idle Gallons per Year (park or equiv.)	116	3	13
Total Gallons per Year	4,559	4,445	22,227
<b>Annual Savings (gallons)</b>	—	<b>113</b>	<b>566</b>
Effective MPG	6.6	6.7	6.7
<b>% Increase in Effective MPG</b>	—	<b>2.5%</b>	<b>2.5%</b>
Price of Fuel	\$ 4.00	\$ 4.00	\$ 4.25
Annual Fuel Bill	\$ 18,234	\$ 17,781	\$ 94,464
<b>Annual Savings</b>	—	<b>\$ 453</b>	<b>\$ 2,407</b>
Actual Agency Acquisition Cost		\$ 160	
<b>Years Payback</b>	—	<b>0.4</b>	
lbs of CO2 per Gallon of Gasoline	19	19	19
CO2 put into environment (lbs/year)	86,613	84,462	422,308
<b>Savings (lbs/year)</b>	—	<b>2,152</b>	<b>10,759</b>

Equivalent is 5 seconds of idle (park) per start

Assumes 3% inflation per year for fuel costs

\*Contact InterMotive for your customized worksheet

