Commitment to power BY JOE SAGE

e were struck by the high level of interest this plug-in hybrid generated on social media, with many comments from people who were dyin' to try it and dyin' to buy it. None of them had been in one yet; their enthusiasm was largely grounded in the vehicle's PHEV architecture and its price.

While, as with hybrids themselves, the various implementations of plug-in hybrids vary, the basic idea is to combine the full-time advantages of a hybrid powertrain with the shorter-range benefits of an electric vehicle (EV). When regular doses of EV juice are not available or convenient (as on a road trip), you can drive anyway, on its gasoline engine—all in all, a best-of-both-worlds scenario.

The Outlander PHEV's 117-hp 2.0L gasoline engine is modest, but that's not really the key spec. Add to that two electric motors, front and rear, each rated 60 kW. These equate to about 80 hp each, for almost 280 hp of total system power (though Mitsubishi does not officially state this, as some do). Torque—as with any EV—is even more prodigious, at about 382 lb-ft total. It's a combination used on some race cars and supercars. And this is what you feel as you realize your 117-hp gasoline engine SUV can pass every other vehicle on a freeway on-ramp and choose its lanes freely.

Even if you can't plug in, you'll never lack the power and torque of the EV components, as they remain powered by the gasoline engine, which

also functions as a range-extending generator. Better still, stopping force is not sapped by the regenerative systems, as is all too often the case—the Outlander PHEV has extremely strong brakes.

There are a number of PHEVs in the market, but few SUVs, and Mitsubishi claims to own this price range. An Outlander PHEV SEL costs just \$34,595, while this top GT model runs \$40,295 (before potential tax, registration, insurance or other benefits that may offer significant savings).

The Mitsubishi Eclipse Cross, new last year, delivers the prior Eclipse sports car's persona in crossover form, showing foresight as sedan sales drop and crossovers continue to climb. Outlander PHEV's formula was already partway there: a twoton SUV with rapid acceleration and solid handling —plus the bonus of a 74 MPGe rating, 310 miles of range on just an 11.3-gallon tank and 21 miles of pure EV range, enough for most daily driving.

The interior is well laid out, though some controls remain highly touch-dependent, as is currently common. The Park button, down low in front of the shift joystick, is hard to reach; and we'd suggest making both front windows one-touch—two things that could be so easily fixed in design-build. We would also work on locks and lock buttons.

The engineers' biggest commitment was to the powertrain, and at this it has done very well. As with any taste of power, you will want to punch the pedal and experience this for yourself.

Mitsubishi is a huge company in the rest of the world, though not so big in the US to date. However, they have recently hired Fred Diaz as North

SPECIFICATIONS

<u> </u>		
ENGINE	2.0L MIVE	C DOHC 16v 4-cylinder
HP/TORQUE		117 hp / 137 lb-ft chronous perm magnet
ELECTRIC MOT	OR Iwin AC sync	chronous perm magnet
POWER/TOI	RQUE / FRONT	60 kW / 137 Nm
POWER/TOI	RQUE / REAR	60 kW / 195 Nm 12.0 kWh Li-ion, 300V
MAIN DRIVE B	ATTERY	12.0 kWh Li-ion, 300V
AUX BATTE	RY max ge	enerator output 70 kW
		le speed, drive modes
	120V / 12A	single speed, fixed
DRIVETRAIN	= 14 DI	S-AWC (AWD)
SUSPENSION.	F: MacPhe	erson strut w stblzr bar
OTEFRINO	K:	multi-link w stblzr bar electric power steering
STEEKING	F 11 C	electric power steering
BRAKES	F: 11.6 vented, twi	n piston / R: 11.9 solid
		um alloy / 225/55 R18
		184.8 / 105.1 in
ODOLLAD OLEA	LE	35.6 ft
GROUND CLEA	KANCE	7.3 ir
HEADKOUM (F)	(K)	40.6 / 38.3 in
CARCO CARAC	i)	40.9 / 37.9 in
LAKGU CAPAC	(CADACITY	30.4 / 78.0 cu.ft
WEIGHT / TOW	CAPACITY	11.3 ga
CHARCE TIME	1201/ / 0 /	11.3 ya
CHARGE HIME:		8.0 hours
		3.5 hours
	DC FAST CHARGE	to 80%: 25 minutes
CHARGE-DEPL		45 kWh / 100 miles
		74 MPGe / 25 MPG
		310 miles
Dill'VE III III GE.		21 miles
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BASE PRICE	and Mhita Basil	\$40,295 int (200); tonneau cove
(190): hody	graphics (285); bood	emblem (85); carpeted
floor mats &	portfolio (135).	embiem (00), carpetet
noor mate o	portiono (100).	

DESTINATION CHARGE

American president and CEO. A superstar previously with Nissan and FCA, not only does Diaz's presence itself suggest good things will happen, but also that the company wants 'em to happen.

