Exterior Transponder Vehicle List

There are certain vehicle features that may cause interior-mounted transponder performance to degrade. For the vehicle features listed below, an alternative that would facilitate continued transponder performance levels is the use of an exterior transponder.

Vehicle Features that May Warrant an Exterior Transponder

- Metallic/insulated/heated glass
- Low E glass
- Automatic sensing wipers
- Night View Assist™
- Solar/infrared reflective glass

Additionally, there are some passenger vehicles that have windshield features that may cause interior-mounted transponder performance to degrade. Kapsch recommends vehicle owners check their owner's manual or contact the vehicle manufacture or dealer prior to acquiring an interior-mounted transponder to determine whether their specific vehicle model has a feature listed above. The list of vehicles, shown below, have in the past been identified to have such features, or shown to have characteristics that prevent the use of an interior-mounted transponder, and thus an exterior mounted transponder would be indicated for such vehicles.

Please refer to the vehicle owner's manual, or contact the vehicle manufacturer or dealer to determine the recommended mounting location. Kapsch recommends mounting an interior-mounted transponder in accordance with manufacturer instruction only where the manufacturer-proposed location is near the top center of the windshield. If the manufacturer proposes other locations, Kapsch recommends using an exterior transponder.

There may be other features that may also cause interior-mounted transponders performance to degrade. If you believe that your transponder is not working properly, contact your tolling agency for assistance. The agency will be able to assist you to replace the transponder if it is defective, or to obtain an exterior transponder if necessary.

The following list of vehicles contains data from various sources, may not be complete or current, and is subject to change without notice. Kapsch does not warrant or guarantee the accuracy, currency or completeness of this list and vehicle owners should make an independent inquiry as to their specific vehicle's make and model. Entries marked “Maybe” indicate that an interior-mounted transponder may not function correctly when installed according to instructions.

Vehicles that Need an Exterior Transponder

Make	Model	Year	Alt. Mounting Location	Ext. Device Needed	Windshield Feature Possibly Affecting Interior Transponder	Alternative Placement
Aston Martin	Vanquish	2001-2007	No	Yes	Insulated/heated glass	
	Vantage	2003-2008	No	Yes	Insulated/heated glass	
Audi	A4	1995-1998	No	Yes	Insulated/heated glass	
	A6	1998-2013	No	Yes	Pilkington Automotive Siglasol™ solar/heat reflection windshield	
	A8	1998-2003	No	Yes	Pilkington Automotive Siglasol™ solar/heat reflection windshield	
Bentley	Continental (all versions)	All	No	Yes		
BMW	BMW's with automatic sensing wipers	All	No	Yes		
	BMW's with optional infrared reflecting windshield	All	No	Maybe		
	128	2003-Current	No	Maybe	Optional Infrared reflecting windshield	Top of windshield in black shaded area, left or right of rearview mirror post
	All 5 Series	2004-Current	No	Maybe		

Make	Model	Year	Alt. Mounting Location	Ext. Device Needed	Windshield Feature Possibly Affecting Interior Transponder	Alternative Placement
BMW (cont'd.)	645	2004-2013	No	Maybe		
	All 7 Series	1999-Current	No	Yes		
	X3	2011-Current	No	Yes		
	X5	1999-Current	No	Yes		
	X6	2008-Current	No	Yes		
	Xf	2000-2006	No	Yes		
Buick	LeSabre	1995-1998	No	Yes	Solar Control™ solar reflection windshield	
	Park Avenue	1991-1996	No	Yes	Solar Control™ solar reflection windshield	
	Rendezvous	2002-2005	No	Yes	Solar Control™ solar reflection windshield	
	Roadmaster	1991-1996	No	Yes	PPG Sungate® Low E glass	
Cadillac	Catera	1997-2001	No	Yes	Solar ray	
	Concours	1993-1998	No	Yes	Heated windshield	
	DeVille	1989-1999	No	Yes	Heated windshield	
	Eldorado	1992-2002	No	Yes	Heated windshield	
	Fleetwood	1989-1996	No	Yes	Heated windshield or PPG Sungate® Low E glass	
	Seville	1992-1999	No	Yes	Heated windshield	
	Sixty Special	1993 Only	No	Yes	Heated windshield	
	Touring Sedan	1992-1998	No	Yes	Heated windshield	
Car Hauler with Overhead Rack		All	No	Yes		
Chevrolet	Astra	2006-2009	No	Yes	PPG Sungate® Low E glass	
	Caprice	1991-1996	No	Yes	Heat reflective/ Solar control	
	Corvette	1990-1998	No	Yes	PPG Sungate® Low E glass	
	Impala	1993-2002	No	Yes	PPG Sungate® Low E glass	
	Lumina	All	No	Yes	Solar Control™ solar reflection windshield	

Make	Model	Year	Alt. Mounting Location	Ext. Device Needed	Windshield Feature Possibly Affecting Interior Transponder	Alternative Placement
Chevrolet (cont'd.)	Venture	All	No	Yes	Solar Control™ solar reflection windshield	
Ford	Crown Victoria	1987-2006	No	Yes	Insta-Clear™ windshield	
	Taurus	Prior to 1995	No	Yes	Heated windshield	
	Transit Connect	2011-2015	No	Yes	Heated windshield	
Jaguar	F Pace (SUV)	2017	Yes	Maybe	Infrared reflecting windshield	
	S-Type	2000-2004	No	Yes	Heated windshield	
	VDP	1999-2004	No	Yes	Heated windshield	
	XE	2017	Yes	Maybe	Infrared reflecting windshield	
	XF	2010-Current	No	Yes	Heated windshield	
	XJ Series	1999-2004	No	Yes	Heated windshield	
	XK Series	1999-2004	No	Yes	Heated windshield	
Land Rover	Discovery Sport	2015-2016	Yes	Maybe	Optional Infrared reflecting windshield	Top of windshield in black shaded area, left or right of rearview mirror post
	LR2	2008-2015	No	Yes	Optional Heated or Infrared reflecting windshield	
	LR3	2004-2016	No	Yes	Optional Heated or Infrared reflecting windshield	
	LR4	2009-2016	No	Yes	Optional Heated or Infrared reflecting windshield	
	Range Rover with optional IR Coating	2014-Current	Yes	Maybe	Optional Infrared reflecting windshield	Top of windshield in black shaded area, left or right of rearview mirror post
	Range Rover Evoque	2012-Current	No	Yes	Optional Infrared reflecting windshield	
	RR Sport	2016	Yes	Maybe	Optional Heated or Infrared reflecting windshield	Top of windshield in black shaded area, left or right of rearview mirror post
	Range Rover	2003-2013	Yes	Maybe		Top of windshield in black shaded area, left or right of rearview mirror post
Lincoln	Continental	1988-1994	No	Yes	Insta-Clear™ windshield	
	Continental	2001-2002	No	Yes	Insta-Clear™ windshield	

Make	Model	Year	Alt. Mounting Location	Ext. Device Needed	Windshield Feature Possibly Affecting Interior Transponder	Alternative Placement
Lincoln (cont'd.)	Town Car	1990-1997	No	Yes	Insta-Clear™ windshield	
	Town Car	2001-2002	No	Yes	Insta-Clear™ windshield	
Maybach	57	All	No	Yes	Infrared reflecting windshield	
	62	All	No	Yes	Infrared reflecting windshield	
Mazda	626	1990-1997	No	Maybe	Solar Control™ solar reflection windshield	
	929	1988-1997	No	Maybe	Solar Control™ solar reflection windshield	
Mercedes-Benz	All models	1998-2001	Yes	Maybe		Centered below rearview mirror. Half of the tag should be in the shaded/ tinted area, the other half out
	Mercedes models with "Night View Assist"	All	Yes	Maybe		Top of windshield, within shaded/tinted area if possible
	Mercedes models with IR (infrared reflecting) windshield	All	Yes	Maybe		Top of windshield, within shaded/tinted area if possible
	CL500	2002-2006	No	Yes		
	CLS500	2006-2013	No	Yes		
	E320	2003-2009	No	Yes		
	E350	2010-2013	No	Yes		
	GL Class	2007-2013	No	Yes		
	ML Class	2006-2012	No	Yes		
	R Class	2006-2012	No	Yes		
	S Class	2001-2013	No	Yes		
	SL Class (except SL500 & SL600)	2003-2008	No	Yes		
Mercury	Grand Marquis	1988-1994	No	Yes	Insta-Clear™ windshield	
	Grand Marquis	2001-2002	No	Yes	Insta-Clear™ windshield	
	Sable	1986-1994	No	Maybe	Metallized windshield	
	Sable	2001-2002	No	Maybe	Metallized windshield	
Oldsmobile	Custom Cruiser	1990-1992	No	Yes	Solar Control™ solar reflection windshield	

Make	Model	Year	Alt. Mounting Location	Ext. Device Needed	Windshield Feature Possibly Affecting Interior Transponder	Alternative Placement
Oldsmobile (cont'd.)	Eighty-Eight	All	No	Yes	Solar Control™ solar reflection windshield	
	LSS	1994-1999	No	Yes	Solar Control™ solar reflection windshield	
	Ninety-Eight	1991-1996	No	Yes	Solar Control™ solar reflection windshield	
	Silhouette	All	No	Yes	Metallized windshield	
Pontiac	Aztek	2001-2006	No	Maybe	EZ VIEW	
	Bonneville	1992	No	Yes	Solar Control™ solar reflection windshield	
	Bonneville	1993-1999	No	Maybe	Solar Control™ solar reflection windshield	
	Montana	1999-2009	No	Yes	Solar Control™ solar reflection windshield	
	Transport	Prior to 2002	No	Yes	Solar Control™ solar reflection windshield	
Porsche	Cayenne	2003-2013	No	Maybe	Solar ControlTM solar reflection windshield (Optional)	
	Macan	2015-2016	No	Maybe	Optional Thermal insulated glass	
	Panamera	All	No	Yes		
Rolls-Royce	Phantom	2004-2007	No	Maybe	Infrared reflecting windshield	
	Wraith	2014-2016	No	Maybe	Infrared reflecting windshield	
Subaru	SVX	All	No	Yes		
Tesla	Model S	All	No	Yes		
	Model X	All	No	Yes		
Volkswagen	Rabbit	2006-2009	No	Yes		
Volvo	S80	1988-1994	No	Yes		
	XC90	2001-2002	No	Yes		

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