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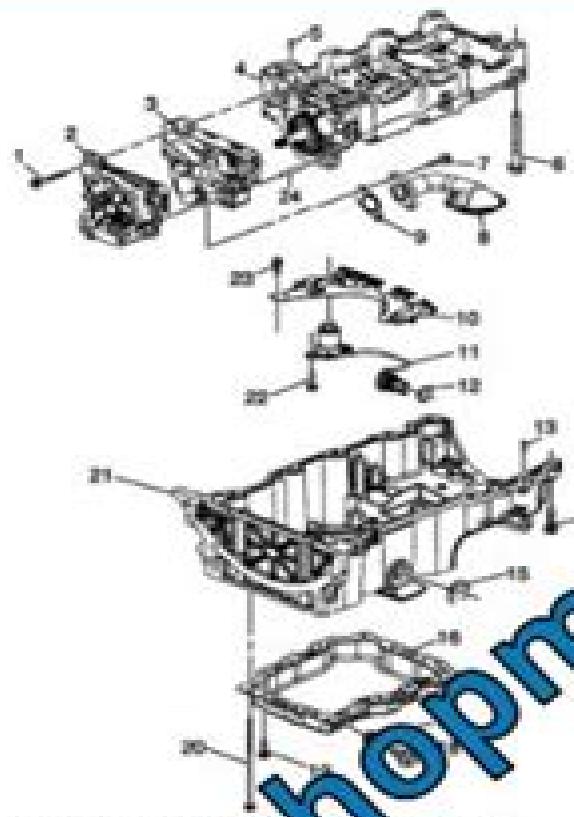


Fig. 7: Upper and Lower Oil Pump Components
Courtesy of GENERAL MOTORS COMPANY



Fig. 14: Camshaft Cover Heat Shield Bolt
Courtesy of GENERAL MOTORS COMPANY

Remove the camshaft cover heat shield bolt (1) that retains the turbocharger coolant return camshaft cover.

Disconnect the turbocharger coolant return pipe from the air bleed base.

Remove the turbocharger coolant return pipe bolt (3).

Remove the turbocharger coolant return pipe (2) and washers (4, 5). Discard the washers.

Callout	Component Name
1	Oil Pump Assembly Bolt
2	Oil Pump Assembly
3	Oil Pump Cover
4	Balancer Shaft Module
5	Balancer Shaft Housing Locating Pin
6	Balancer Shaft Housing Bolt
7	Oil Pump Suction Pipe Bolt

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Vauxhall Opel Astra Petrol Service & Repair Manual John S. Mead,2008 This is one in a series of manuals for car or motorcycle owners Each book provides information on routine maintenance and servicing with tasks described and photographed in a step by step sequence so that even a novice can do the work

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