Mercedes-Benz

service information

Date: March 2001
Order No.: S-SI-58.00/118
Supersedes:
Group: 58

SUBJECT: **ALL ENGINES**

APPROVED OIL EVACUATION EQUIPMENT

The purpose of this Service Information is to inform dealers that Approved Oil Evacuation Equipment, which is used to extract used engine oil from the engine via the oil dipstick tube, is now available for order.

Mercedes-Benz engines are designed to allow the extraction of engine oil from under the hood via the dipstick tube. The engine dipstick tube has an enlarged cross section, plus a formed extension at the top end where the dipstick is inserted and the approved engine oil evacuation equipment interfaces. The opposite end of the dipstick ends just short of the oil pan bottom, thus engine oil can be extracted via the approved oil evacuation equipment by using the dipstick tube. Additionally, the engine dipstick tube itself is the conduit through which spent engine oil is moved to the oil evacuation equipment.

In addition, service and repair components for existing approved oil evacuation equipment is also available.

Note:

Because the engine oil dipstick tube is the conduit through which spent engine oil is extracted, inserting tubular probes through the dipstick tube is **NOT** recommended.

Special Note for M-class:

Due to the location of the vehicle frame and suspension components, the draining of engine oil via the engine crankcase oil drain plug is not recommended, since this can lead to engine oil coming in contact and subsequently be damaging to the rubber suspension components. Thus, it is strongly recommended to use the approved oil evacuation equipment contained in the Service Information for this purpose.

This bulletin has been created and maintained in accordance with MBUSA-SLP 5.1, Document and Data Control, and MBUSA-SLP 16.1, Control of Quality Records.

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⚠ WARNING!

This approved oil evacuation equipment is to be exclusively used for the evacuation of engine oil, transmission oil, power steering oil, and differential oil only.

- Do not use this equipment to extract caustic (i.e. battery acid) or flammable liquids (i.e. gasolines).
- Do not expose the waste oil reservoir to any source of heat.
- Do not perform any welding repairs on the oil evacuation equipment.
- Wear face and hand protection when extracting engine oil of high temperature.
- Use the oil evacuation equipment only for the extraction of oil.
- Do not modify any of the equipment component.

Price List

Vendor	Product	Part Number/Model	Retailer Cost
FLACO	Oil Evacuation Unit	40 403 150	$ 2782.00*
FLACO	Oil Drain Pan	40 403 110	$ 262.00*
RAASM	Oil Evacuation Unit	43091 (Aspiroil)	$ 864.00*
BDM	Oil Evacuation Unit	“Oil Handler”	$ 423.00*

*** Note:** Prices are subject to International Currency fluctuations, please call Standard Service Equipment Program (SSEP) for current price at 1-888-458-4040.

1.0 Orders can be placed via the MBUSA Standard Service Equipment Program (SSEP), by calling 1-888-458-4040

2.0 All equipment is delivered and serviced by:

AGA, Inc.
1041 Carriage Place Drive
Bettendorf, IA 52722
Phone Toll–Free: 1-888-824-2462

FLACO OIL EVACUATION EQUIPMENT

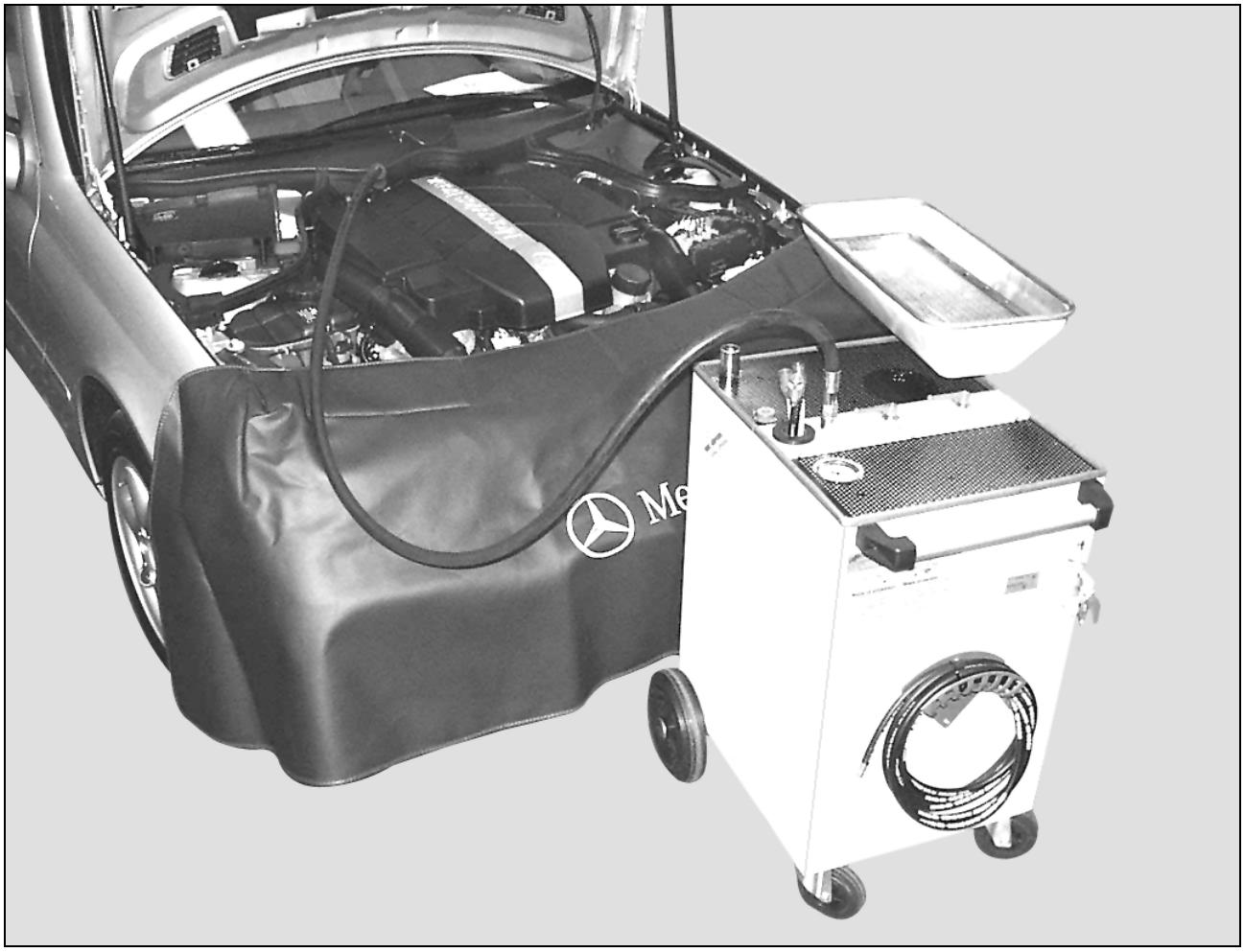

Figure 1 P58.20-2009-06

The FLACO oil extraction equipment is designed to extract waste oil via the oil dipstick of the engine, using the special M-B adapter.

- Suction probes are provided for use to extract waste oil from other components such as the rear axle assembly.
- The unit has a 15 gallon reservoir which holds the extracted waste oil, along with an oil level indicator.
- With a flip of the control handle, the pump is converted to pump out the used oil into a used oil holding tank.
- A pneumatic vacuum pump.

- A full set of suction probes to extract used oil.
- A 5 mm air hose (DN 6).
- A 2mm oil extraction hose DN 16 with M-B adapter.
- The unit rolls on 2 rigid and 2 swivel steering casters, which are lockable.

Accessories:

- A large drain pan (accessory Part number 40 403 110), which is telescopically mounted and includes a removable strainer is available.

Technical Data:

Dimemsions:

Width:	24.2 inches (615 mm)
Height:	34.8 inches (885 mm)
Length:	24.8 inches (630 mm)
Weight	132 lbs. (60 kg)

Pump Data:

Type of pump:	diaphragm
Material of diaphragm:	Buna N
Extraction capacity:	max. 10 liters/minute [1)]
Max. oil temp.:	+ 80 ° C
Max. size of impurities:	max. 1.5 mm

[1)] Note: Max. waste oil extraction rate is 10 liters/minute, which depends on type of suction probe used, as well as temperature and viscosity of waste oil being extracted.

Air pressure Data:

Required air pressure:	102 psi
Air press. Connection:	type 26, Dia. 7.2 mm
Air consumption:	15 CFM

RAASM OIL EVACUATION EQUIPMENT

Figure 2 P58.20-2008-06

The RAASM # 43091 “Aspiroil” is designed to extract spent fluids through the dipstick opening.

- The unit rolls on 2 rigid and 2 swivel steering casters, which are lockable.
- A graduated transparent bowl (capacity of 8 liters) is mounted above the waste oil reservoir, to show the quantity of waste oil extracted, as well as allow a visual inspection of the waste oil extracted.
- The unit has a 90 liter reservoir which holds the extracted waste oil, along with an oil level indicator.
- A removal tool tray for the placement of tools needed to perform the job.

- Suction probes are provided for use to extract waste oil from other components such as the rear axle assembly.
- Extraction capacity after creating a vacuum in the reservoir: 55-60 liters of waste oil.
- Extraction capacity with hot oil (70/80 ° C) and a probe diameter of 6 mm: 1.5 – 2.0 liters per minute.
- A full set of flexible/non-flexible suction probes to extract waste oil.
- Extraction of waste oil from unit reservoir is air operated at approx. 7 psi.

Specifications:

Width: 25 inches (diameter)
Height: 51 inches
Weight: 80 lbs. (empty)
Reservoir capacity: 23.7 gallons (90 liters)
Globe diamensions: 9“ width X 11“ height (230 mm X 280 mm)
Globe capacity: 8.5 quarts (8.0 liters)
Extractor hose length: 78 inches (1980 mm)
Fluid transfer hose length: 80 inches (2032 mm)
Activation time: 3 – 4 minutes
Oil suction operation capacity with one operation: 47 – 56 quarts

Air pressure Data:

Air requirement for activation: 100 psi
Air requirement for emptying: 7 – 14 psi

Additional Operational Information:

The technician activates the unit by simply connecting shop air for 3-4 minutes. (*TIP: when depressurizing the unit, open the valve between globe and reservoir tank.) This creates a vacuum in both the globe and the tank. Then close the valve after unit is fully charged. When extraction of one vehicle is completed, open the dump valve and the vacuum in the tank will automatically recharge the globe while the oil is being transferred into the holding tank. To empty the unit, close the valve between the globe and the reservoir, then charge the unit with 7 – 5 psi of shop air, move unit to bulk waste oil holding tank, place the hooked hose in the tank, open the exhaust valve and it will automatically empty.

BDM OIL EVACUATION EQUIPMENT

Figure 3 P58.20-2010-06

The BDM oil extraction equipment is designed to extract waste oil via the oil dipstick of the engine, BDM's MB adapter (Pat. Pending) with collet lock for 8mm (5/16") adapter hoses.

- The unit consists of BDM Engineering's Stainless Steel Oil Recovery Unit of five gallon capacity.
- Several adaptor hoses are included.
- Fluid level indicator.
- The unit can extract 4 to 11 quarts of warm waste oil in two to five minutes.
- All replacement parts are sold separately with the exception of the Vacuum Generator.
- BDM offers a tandem unit: oil-coolant.

Accessories:

BDM Stainless Steel Tandem Oil and Coolant Recovery System

Figure 4 P58.20-2011-02

Technical Data:

Dimemsions:
Width: 9 inches (230 mm)
Height: 24 inches (610 mm)
Weight: 14 lbs.

Air pressure Data:
Required air pressure: 70 psi, regulator supplied
Air press. Connection: Automotive Air Hose connector
Air consumption: 2.0 CFM @ 70 psi

BDM Engineering's Stainless Steel Vacuum Generator:

Vaccum generated: 28 inches of vacuum @ 3.1 CFM
Regulated via: 70 psi regulator
Silenced via: replaceable ABS Plastic silencer with ¼ inch pipe thread.

Deutsche Tecalemit (DT) OIL EVACUATION EQUIPMENT

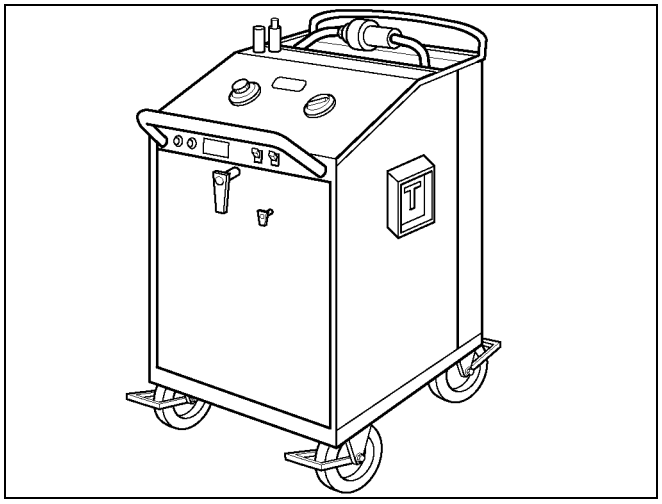

Figure 5 P58.20-2012-01

Deutsche Tecalemit (DT) oil evacuation unit: Repair and spare parts are available for existing units, as well as upgrade pump kits to ensure you Deutsche Tecalemit (DT) unit has the latest waste oil extraction capability.

Please contact: AGA, Inc. Bettendorf, Iowa at 1-888-824-2462