### MAHLE



### MAHLE FluidPRO®

Introduce the oil restoration service in automatic transmission systems to your workshop. Thanks to the ATX line from MAHLE you are assured of maximum professionalism and great ease of use.

### Oil change stations ATX 280 ATX 250 ATX 190

Why do car manufacturers recommend periodic oil changes in automatic transmission system?

- To ensure a more comfortable ride
- To extend the life and high efficiency of the automatic transmission
- To prevent system malfunctions due to gearbox oil wear

#### Benefits at a glance



Line of fully automatic stations



Automatic flow direction detection



New web database with images of junction points



Everything under control with the ATF Remote Viewer App (ATX 280)



Exclusive recovery/recharge system (patented)



Dual pump: maximum performance in emptying the gearbox and the used oil tank (ATX 280)



Wide coverage guaranteed by multi-brand adapters system



Sump Oil Recovery Function



Zero Cross-Contamination guaranteed



Full Print Report



### Full Functionality

#### Zero Cross Contamination



The Zero Cross-Contamination function guarantees 100% cleanliness, removing oil and other types of residues, preventing possible serious damage to the automatic transmission.

With the ATX stations, you can be sure that the gearbox is always filled with oil that is free from contamination.

Interchangeable oil canisters, equipped with a quick-connect system, ensure rapid preparation of new oil and immediate station operation.

#### Current Cycle Back Up Function



No time wasted! If an interruption occurs during an oil change procedure, flushing will be resumed from the last completed step, avoiding the need to repeat the entire cycle (ATX 280 only).

#### FluidPRO® ATX Remote Viewer App



The new FluidPRO® ATX Remote Viewer App allows the operator to freely control all execution steps. Completely renewed in its graphics, it makes the control of the station operation accessible at any time.

### Report printing



At the end of the gearbox oil service, ATX MAHLE stations generate a full-color A4 "Service Report" that can be easily sent via WiFi (ATX 280) or exported to a USB stick (ATX 250; ATX 190).

#### Dipstick function



The Dipstick function allows you to work on sealed transmission systems, where the only access is the dedicated dipstick (ATX 280 only).

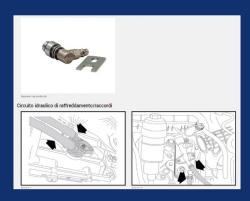
#### >

#### Renewed Web Graphical

The WEB Databank provides complete instructions for the flushing process:

- Connection procedure with images
- Technical Information
- Filter Removal Procedure
- Level Procedure
- Selector lever release procedure
- Hybrid Engine Management





### ATX 280

#### Fully automatic, simple to use. Now with WiFi connection and Touch display.

New design for the FluidPRO® ATX line, which, thanks to the large 7" touch screen display and a new graphic interface, allows the operator to make any automatic transmission oil flushing operation even simpler and more automatic.

The station is equipped with two pumps, for excellent performance and optimization of its characteristic functions, such as:

- Built-in Dipstick function for working on sealed transmission systems;
- Boost function, which boosts used oil drainage, speeding up oil change operations.
- Quick Discharge function: maximum speed in emptying the used oil tank

The WiFi connection enables the connection to the WEB Databank (included in the first year), constant updates and remote assistance (Re.Solve), as well as the possibility to print the final report directly from your workshop's PC (Nexus Print).

The provision of the complete online database, renewed in its graphics, provides complete instructions and information, supported by detailed images of each procedure.

The new FluidPRO® ATX Remote Viewer App (included as standard) allows the operator to freely view all execution steps.



Adapters Kit 1-17 included in sales configuration

| Technical Data                |   |
|-------------------------------|---|
|                               |   |
| Type of service               | Automatic and fully guided, 7" color touch display          |
| New oil filter                | 90μ mesh filter   |
| Inspection windows            | Oil quality visual control                                  |
| Dipstick function             | Integrated with ø6mm tube                                   |
| Zero-Cross Contamination      | Circuit flushing function after each oil type change        |
| Hoses                         | 2 x 3 m (service hoses), 1 x 1.5 m (for waste oil drainage) |
| BOOST function                | Integrated  |
| Service report printing       | Via WiFi (with Nexus print), export via USB to flash drive  |
| Upper grate                   | With joints holder functionality                            |
| Oil pump                      | 2 x 10 l/min hydraulic pumps each; PWM controlled           |
| Languages Menu                | 15 different languages                                      |
| Power supply                  | 90/240 VAC, 50-60Hz   |
| SW and Service Update         | Re.Solve via WiFi connection                                |
| Smartphone App                | FluidPRO® ATX Remote Viewer                                 |
| Dimensions/weight (H X B X T) | 120 x 74 x 74 cm, 62 kg                                     |





The oil drain grate is designed to conveniently accommodate the tools and fittings needed during operation.

### ATX 250

#### The simplest, but great performance. To introduce a high profitability service on the shop floor.

Small, but powerful. Ideal for bringing ATF transmission service to the shop for the first time.

As in the most advanced model, sophisticated electronics guide all phases of operation, activating the special functions that optimize the final result.

Integrated database with technical information (oil quantity, oil type, tightening torques, oil filter code) and indication of the type of fittings to be connected to the gearbox

The station enables the automatic detection of oil flow direction in the transmission and prevents any damage to the system.

The exclusive software that guides the recovery/recharge processes (patented) allows for maximum performance on every type of ATF transmission.

Also in the ATX 250, the new FluidPRO® ATX Remote Viewer App (optional) can be activated, allowing the operator to freely control all running steps.

Maximum control over new oil contamination is guaranteed by the Zero Cross-Contamination function (internal flushing of the circuit and external hoses), as well as by the interchangeable oil canister replacement system.



Adapters Kit 1-17 included in the sales configuration

| Technical Data                |  |
|-------------------------------|--|
|                               |  |
| Type of service               | Automatic and fully guided, 4.3" color display, keyboard |
| New oil filter                | 90µ mesh filter  |
| Inspection windows            | Oil quality visual control                               |
| Dipstick function             | Integrated with ø6mm tube                                |
| Zero-Cross Contamination      | Circuit flushing function after each oil type change     |
| Hoses                         | 2 x 3 m (service hoses)                                  |
| BOOST function                |  |
| Service report printing       | Export to USB flash drive                                |
| Upper grate                   | grate  |
| Oil pump                      | 1 10 l/min hydraulic pump; PWM controlled                |
| Languages Menu                | 15 different languages                                   |
| Power supply                  | 90/240 VAC, 50-60Hz                                      |
| SW Update   Service           | USB Type A   USB Type B                                  |
| Smartphone App                | FluidPRO® ATX Remote Viewer                              |
| Dimensions/weight (H X B X T) | 120 x 74 x 74 cm, 62 kg                                  |





A wide range of Adapters, available in kit and single packs, enable the range ATX to cover a wide range of vehicles.

### ATX 190



#### The ATF station approved by Mercedes-Benz.

The Mercedes-Benz service manual recommends regular oil changes on automatic transmissions.

Station ATX 190 by MAHLE meets all the requirements of the car manufacturer, which has therefore approved its introduction in its authorized workshops.

The simple and intuitive operation guides the user quickly through the entire automatic service procedure, with step-bystep instructions that mirror the manufacturer's specific procedure.

Transmission flushing and oil change are performed easily and completely (flushing with oil only - no additives).

Dedicated App increases productivity on the shop floor.

Visualization of process steps directly on the display or via App on smartphones, whether you are near the vehicle or inside it.

Interchangeable canister for quick change of oil types and guaranteed purity through an internal washing process (Zero-cross).

Automatic detection of oil flow direction in the transmission.



| Technical Data                |  |
|-------------------------------|--|
|                               |  |
| Type of service               | Automatic and fully guided, 4.3" color display, keyboard             |
| New oil filter                | MAHLE filters for flushing/cleaning and new oil inlet                |
| Inspection windows            | Oil quality visual control   |
| Filter Control                | Continuous monitoring of filters and warning of upcoming replacement |
| Zero-Cross Contamination      | Circuit flushing function after each oil type change                 |
| Hoses                         | 2 x 3 m (service hoses), 1 x 1.5 m (for waste oil drainage)          |
| BOOST function                | Integrated   |
| Service report printing       | export via USB to flash drive  |
| Upper grate                   | Collected oil measurement  |
| Oil pump                      | 2 x 10 l/min hydraulic pumps each; PWM controlled                    |
| Languages Menu                | 15 different languages   |
| Power supply                  | 90/240 VAC, 50-60Hz  |
| SW Update   Service           | USB Type A (USB 2.0 flash drive)   USB Type B (direct to PC)         |
| Smartphone App                | FluidPRO® ATX Remote Viewer  |
| Dimensions/weight (H X B X T) | 120 x 74 x 74 cm, 65 kg  |



Quick-release couplings: direct connection to the original Mercedes-Benz adapter

| ATF Stations  | ATX 280  | ATX 250  | ATX 190  |
|---|--|--|--|
| Interchangeable new/spent oil canister:   |  |  |  |
| Capacity  | 25   | 25   | 201  |
| Weight measurement  | -  | Scale  | Scale  |
| Additive container  | 500 ml   | 500 ml   | 500 ml   |
| Drain grate for gearbox pan   | +  | +  | +  |
| Hydraulic circuit:  |  |  |  |
| Delivery pump   | 10 l/min single stage gear                       | 10 l/min single stage gear                       | 10 l/min single stage gear                       |
| Boost Pump  | 10 l/min single stage gear                       | -  | 10 l/min single stage gear                       |
| Pump displacement   | 3.6 cm <sup>3</sup>                              | 3.6 cm <sup>3</sup>                              | 3.6 cm <sup>3</sup>                              |
| New oil filter:<br>Filter   | Stainless steel mesh   90 µm                     | Stainless steel mesh   90 µm                     | Oil filter MAHLE original OC47                   |
|   |  |  | (2 pcs)  |
| Hydraulic Equipment:  | 2 m  | 2 m  | 2 m  |
| Net length of service hoses 1 and 2   | 3 m  | 3 m  | 3 m  |
| Length of spent oil emptying hose   | 1.5 m  | -  | 1.5 m  |
| User Interface:   |  |  |  |
| Display   | Touch Screen 7" colors                           | LCD 4.3"   | LCD 4.3"   |
| Keyboard  |  | Membrane   | Membrane   |
| Software update   | Via WiFi connection                              | USB type A                                       | USB type A                                       |
| Service   | Re.Solve via WiFi                                | USB type B                                       | USB type B                                       |
| Functions and Features:   |  |  |  |
| Fully AutomaticMode   | +  | +  | +  |
| ATFcharge   | +  | +  | +  |
| ATFRecovery   | +  | +  | +  |
| Flushing A/T  | +  | +  | +  |
| Additive Injection  | Load Cell  | Timed  | Load Cell  |
| Zero-Cross ontamination   | +  | +  | +  |
| Emptying of spent ATF tank  | Dedicated pipeline with tap                      | Adapter on tube 1                                | Dedicated pipeline with tap                      |
| Boost function  Web data bank   | 1 at waar from                                   | Ontional   | +  |
| Dipstick function   | 1st year free                                    | Optional   | -  |
| Thermal printer   | +<br>Optional                                    | -<br>Optional                                    | •  |
| Dimensions:   |  |  |  |
|   |  |  | 740 × 740 × 1000 mm                              |
| LxWxH   | 740 x 740 x 1200 mm                              | 740 x 740 x 1200 mm                              | 740 x 740 x 1200 mm                              |
| Empty weight  | 740 x 740 x 1200 mm<br>approx. 62 kg             | 740 x 740 x 1200 mm<br>approx. 62 kg             | approx. 65 kg                                    |
|   |  |  |  |
| Empty weight  |  |  |  |
| Empty weight  Power supply:   | approx. 62 kg                                    | approx. 62 kg                                    | approx. 65 kg                                    |
| Empty weight  Power supply: Frequency   | approx. 62 kg<br>50-60 Hz                        | approx. 62 kg<br>50-60 Hz                        | approx. 65 kg<br>50-60 Hz                        |
| Empty weight  Power supply: Frequency Voltage   | approx. 62 kg<br>50-60 Hz<br>90/240 VAC          | approx. 62 kg<br>50-60 Hz<br>90/240 VAC          | approx. 65 kg<br>50-60 Hz<br>90/240 VAC          |
| Empty weight  Power supply: Frequency Voltage Power Thermal switch                            | approx. 62 kg  50-60 Hz  90/240 VAC  500 W       | approx. 62 kg  50-60 Hz  90/240 VAC  500 W       | approx. 65 kg  50-60 Hz  90/240 VAC 500 W        |
| Empty weight  Power supply: Frequency Voltage Power Thermal switch  Environmental conditions: | approx. 62 kg  50-60 Hz  90/240 VAC  500 W       | approx. 62 kg  50-60 Hz  90/240 VAC  500 W       | approx. 65 kg  50-60 Hz  90/240 VAC 500 W        |
| Empty weight  Power supply: Frequency Voltage Power Thermal switch                            | approx. 62 kg  50-60 Hz  90/240 VAC  500 W  12 A | approx. 62 kg  50-60 Hz  90/240 VAC  500 W  12 A | approx. 65 kg  50-60 Hz  90/240 VAC  500 W  12 A |



Thanks to the large number of adapters available, 90% of the automatic transmissions on the market is covered. The correct adapter is indicated on the station display, so peace of mind is guaranteed.









| Adapter Kits      |                    |   |
|-------------------|--------------------|---|
| Code              | Article            | Description                                     |
| included with ATX | ADAPTERS KIT 1-17  | Fitting kit (17 fittings) from no. 1 to no. 17  |
| 1010320108XX      | ADAPTERS KIT 18-33 | Fitting kit (16 fittings) from no. 18 to no. 33 |
| 1010320106XX      | ADAPTERS KIT 34-47 | Fitting kit (14 fittings) from no. 34 to no. 47 |
| 1010320107XX      | ADAPTERS KIT 48-60 | Fitting kit (13 fittings) from no. 48 to no. 60 |

| Adapters I | Kit 1-17    |  |                           |   |
|------------|-------------|--|---------------------------|---|
| Code       | Description | Models   | Variants                  |   |
| -          | 1           | BMW, VOLVO,<br>MERCEDES-BENZ, AUDI,<br>RENAULT, SAAB, FORD             | Various Transmission Type |   |
| -          | 2           | BMW, AUDI, RENAULT,<br>SAAB, FORD,<br>RANGE-ROVER, JAGUAR              | Various Transmission Type | 2 |
| -          | 3           | AUDI, VOLKSWAGEN,<br>JEEP  | Various Transmission Type |   |
| -          | 4           | OPEL-SUBARU-MAZDA-<br>CITROEN-RENAULT-ALFA<br>ROMEO-LANCIA             | Various Transmission Type |   |
| -          | 5           | AUDI, BMW (8 SPEED),<br>JAGUAR, LAND-ROVER,<br>ALFA ROMEO, JEEP, IVECO | ZF                        |   |
| -          | 5A          | BMW (8 SPEED)<br>D. 18mm   | ZF                        |   |
| -          | 6           | JEEP, FIAT, CHRYSLER,<br>MERCEDES-BENZ,<br>SUBARU                      | Various Transmission Type |   |
| -          | 7           | AUDI, MERCEDES-BENZ,<br>MITSUBISHI                                     | Various Transmission Type |   |
| -          | 8           | JAGUAR, MERCEDES-<br>BENZ, SSANGYONG                                   | Various Transmission Type |   |
| -          | 9           | JAGUAR, MERCEDES-<br>BENZ,MITSUBISHI,<br>SSANGYONG                     | 5-SPEED                   |   |
| -          | 10          | JAGUAR, FORD, MAZDA  | 5-SPEED                   |   |

| Adapters Kit 1-17 |  |   |   |  |
|-------------------|--|---|---|--|
| Description       | Models   | Variants  |   |  |
| 11                | VOLKSWAGEN, AUDI,<br>MITSUBISHI                        | ZF  |   |  |
| 12                | AUDI, VOLKSWAGEN,<br>PORSCHE, LEXUS,<br>MITSUBISHI     | AISIN /ZF   |   |  |
| 13                | VOLVO  | Various Transmission Type   |   |  |
| 14                | HYUNDAI,<br>TOYOTA, KIA,<br>MITSUBISHI, ISUZU          | Various Transmission Type   |   |  |
| 15                | "PIPES FOR GENERAL<br>USE Diameter 10 - 13 -<br>15 mm" | -   | 665   |  |
| 16                | AUDI, VOLKSWAGEN,<br>SEAT, SKODA                       | DSG VW  | ( %)  |  |
| 17                | JEEP, FIAT, ALFA ROMEO,<br>OPEL, CITROEN               | AISIN   | .0  |  |
|                   | 11 12 13 14 15   | Description       Models         11       VOLKSWAGEN, AUDI, MITSUBISHI         12       AUDI, VOLKSWAGEN, PORSCHE, LEXUS, MITSUBISHI         13       VOLVO         14       HYUNDAI, TOYOTA, KIA, MITSUBISHI, ISUZU         "PIPES FOR GENERAL USE Diameter 10 - 13 - 15 mm"         16       AUDI, VOLKSWAGEN, SEAT, SKODA         17       JEEP, FIAT, ALFA ROMEO, | Description     Models     Variants       11     VOLKSWAGEN, AUDI, MITSUBISHI     ZF       12     AUDI, VOLKSWAGEN, PORSCHE, LEXUS, MITSUBISHI     AISIN /ZF       13     VOLVO     Various Transmission Type       14     HYUNDAI, TOYOTA, KIA, MITSUBISHI, ISUZU     Various Transmission Type       15     USE Diameter 10 - 13 - 15 mm"     -       16     AUDI, VOLKSWAGEN, SEAT, SKODA     DSG WW |  |

| Adapters Kit 18-33 |             |   |                           |            |
|--------------------|-------------|---|---------------------------|------------|
| Code               | Description | Models                                  | Variants                  |            |
| 1010320023XX       | 18          | RENAULT, MITSUBISHI,<br>NISSAN          | Jatco / Multitronic       |            |
| 1010320024XX       | 19          | FIAT, JEEP, LAND-ROVER                  | ZF                        |            |
| 1010320025XX       | 20          | TRANSMISSION DIPSTICK FORD, JEEP, DODGE | -                         |            |
| 1010320026XX       | 21          | MERCEDES-BENZ,<br>RENAULT               | DSG Mercedes              |            |
| 1010320027XX       | 22          | FORD, RENAULT,<br>PEUGEOT, VOLVO        | POWERSHIFT                |            |
| 1010320028XX       | 23          | TOYOTA, SUZUKI, MAZDA                   | CVT                       |            |
| 1010320029XX       | 24          | FIAT, CITROEN,<br>PEUGEOT, RENAULT      | 4-Speed                   | <b>Q</b> . |
| 1010320030XX       | 25          | AUDI (Q7/A8), BMW                       | ZF / CVT                  |            |
| 1010320031XX       | 26          | MITSUBISHI PAJERO                       | 4-Speed                   | (B)        |
| 1010320032XX       | 27          | AUDI                                    | Various Transmission Type | 27 ke      |
| 1010320033XX       | 28          | GM                                      | Various Transmission Type |            |
| 1010320034XX       | 29          | JEEP, DODGE, OPEL, GM                   | 4-Speed                   |            |

| Adapters Kit 18-33 |             |   |                           |     |
|--------------------|-------------|---|---------------------------|-----|
| Code               | Description | Models                                    | Variants                  |     |
| 1010320035XX       | 30          | JEEP                                      | 5-Speed                   |     |
| 1010320036XX       | 31          | RENAULT                                   | Various Transmission Type | 8 8 |
| 1010320037XX       | 32          | QUICK COUPLER 90°<br>(2 pcs)              | -                         |     |
| 1010320038XX       | 33          | Dipstick for<br>MERCEDESBENZ,<br>CHRYSLER | -                         |     |

| Adapters Kit | Adapters Kit 34-47 |   |                           |              |  |
|--------------|--------------------|---|---------------------------|--------------|--|
| Code         | Description        | Models  | Variants                  |              |  |
| 1010320054XX | 34                 | JEEP, MITSUBISHI,<br>MERCEDES GLK, GM,<br>SUZUKI, TOYOTA        | Various Transmission Type |              |  |
| 1010320055XX | 35                 | VOLVO XC60, V60   | AISIN                     |              |  |
| 1010320056XX | 36                 | MERCEDES-BENZ CLK,<br>C, AMG                                    | 5-Speed                   |              |  |
| 1010320057XX | 37                 | CITROEN, PEUGEOT  | Various Transmission Type | •••          |  |
| 1010320058XX | 38                 | GM, FIAT, FORD, JEEP,<br>CHRYSLER VOYAGER,<br>SAAB, MERCEDES ML | Various Transmission Type | and the same |  |
| 1010320059XX | 39                 | BMW-JAGUAR  | Various Transmission Type |              |  |
| 1010320060XX | 40                 | GM, DODGE RAM   | Various Transmission Type |              |  |
| 1010320061XX | 41                 | PEUGEOT, CITROEN, VW,<br>FIAT DUCATO                            | ZF                        |              |  |
| 1010320062XX | 42                 | VOLVO, MINI, BMW  | AISIN                     |              |  |
| 1010320073XX | 43                 | VOLVO   | AISIN                     |              |  |
| 1010320082XX | 44                 | MERCEDES, JEEP, FIAT  | 9 Gtronic                 |              |  |
| 1010320089XX | 45                 | PEUGEOT, CITROEN  | AISIN                     | 00           |  |
|              |                    |   |                           |              |  |

| Adapters Kit | Adapters Kit 34-47 |                     |                           |   |  |
|--------------|--------------------|---------------------|---------------------------|---|--|
| Code         | Description        | Models              | Variants                  |   |  |
| 1010320090XX | 46                 | BMW X1              | Various Transmission Type | 0 |  |
| 1010320091XX | 47                 | MERCEDES Level Tool | 9 Gtronic                 | • |  |

| Adapters Kit 4 | Adapters Kit 48-60 |                                  |                           |      |  |
|----------------|--------------------|----------------------------------|---------------------------|------|--|
| Code           | Description        | Models                           | Variants                  |      |  |
| 1010320092XX   | 48                 | PEUGEOT                          | AISIN                     | (OO) |  |
| 1010320093XX   | 49                 | JEEP FREEMONT                    | Various Transmission Type |      |  |
| 1010320094XX   | 50                 | RENAULT LAGUNA III,<br>ESPACE IV | Various Transmission Type |      |  |
| 1010320095XX   | 51                 | AUDI                             | CVT                       |      |  |
| 1010320096XX   | 52                 | AUDI A8                          | ZF                        |      |  |
| 1010320097XX   | 53                 | AUDI                             | DSG 7-Speed               |      |  |
| 1010320098XX   | 54                 | MAZDA                            | 6-Speed                   | 11   |  |
| 1010320099XX   | 55                 | NISSAN JUKE<br>(2011 - 2014)     | CVT                       |      |  |
| 1010320100XX   | 56                 | NISSAN JUKE<br>(2014 - 2019)     | CVT                       | 000  |  |
| 1010320101XX   | 57                 | FIAT-CITROEN- PEUGEOT            | AISIN                     | 60   |  |
| 1010320102XX   | 58                 | LAND ROVER-VOLVO                 | ZF                        |      |  |
| 1010320103XX   | 59                 | PEUGEOT-BMW-MINI                 | Various Transmission Type | 00   |  |
| 1010320104XX   | 60                 | PEUGEOT-VOLVO                    | AISIN                     | (GO) |  |
|                |                    |                                  |                           |      |  |

# MAHLE Other Adapters

| Other Adapters |             |                                 |                           |   |  |  |  |  |
|----------------|-------------|---------------------------------|---------------------------|---|--|--|--|--|
| Code           | Description | Models                          | Variants                  |   |  |  |  |  |
| 1010320105XX   | 61          | MERCEDES                        | ZF                        |   |  |  |  |  |
| 1010320112XX   | 62          | FIAT-CITROEN- SAAB-<br>VOLVO    | AISIN                     |   |  |  |  |  |
| 1010320113XX   | 63          | VARIOUS ADAPTER                 | Various Transmission Type |   |  |  |  |  |
| 1010320114XX   | 64          | MERCEDES                        | 7-Speed                   |   |  |  |  |  |
| 1010320115XX   | 65          | AUDI-VOLKSWAGEN                 | Various Transmission Type |   |  |  |  |  |
| 1010320125XX   | 66          | AUDI, PORSCHE,<br>VOLKSWAGEN    | 7-Speed                   |   |  |  |  |  |
| 1010320126XX   | 67          | VOLVO, BMW,<br>LAND ROVER       | GA8G45W                   | 0 |  |  |  |  |
| 1010320127XX   | 68          | TOYOTA IQ                       | All                       |   |  |  |  |  |
| 1010320128XX   | 69          | BMW X1/X2, MINI,<br>PEUGEOT 508 | AISIN                     |   |  |  |  |  |
| 1010320129XX   | 70          | LIVELLO CAMBI DSG               | Various Transmission Type | • |  |  |  |  |



### Long live the gearbox

#### The importance of completing the service with the replacement of the filter

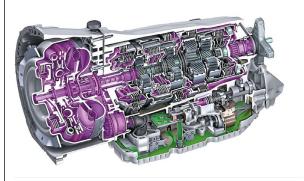
Like all consumables in a vehicle, transmission oil is subject to aging and wear. At very high temperatures, e.g. in sports driving or in vehicles with trailers, the oil in the automatic transmission can age faster than normal. To ensure that increasingly complex automatic transmissions last a long time and run smoothly, many vehicle manufacturers are changing their gearbox oil requirements from filling for the entire service life to replacing the oil periodically or as needed.



#### Simply better: dynamic oil change

The traditional, i.e. static, method involves replacing about 30-50% of the oil, which means that the new oil mixes with the old oil. Dynamic oil changes, performed with MAHLE ATX 250/280 stations, on the other hand, allow up to 100% of the oil to be changed.

#### Comparison of oil change methods



- Static oil change
- ■+■ Dynamic oil change

- Almost 90% of all automatic transmissions on the market are compatible with MAHLE ATX 250/280.
- Dynamic oil change allows for 90 to 100% oil change.
- Currently 25% of newly registered vehicles in the EU are equipped with automatic transmissions and the trend is increasing.
- Changing the transmission oil every 60,000 km or every 4 years will extend the life of complex automatic transmissions and ensure their optimal operation.

#### **Driver benefits:**

- Avoid gearbox repair costs
- Significantly easier gear shifts
- Elimination of minor gearbox problems (e.g. jerking or malfunctioning at the start)
- Higher gearbox mileage

# Overview of the transmission oil filter program

| Article<br>Number | Brand                    | Model   | Available | In Preparation |
|-------------------|--------------------------|---|-----------|----------------|
| HX 155            | AUDI                     | A4 B8 Avant (8K5), A4 B8 (8K2), A6 C7 (4G2, 4GC)                                      | +         |                |
| HX 192D           | AUDI                     | A4 B8 Avant (8K5), A6 C7 (4G2, 4GC), A5 Sportback (8TA)                               | +         |                |
| HX 233D           | AUDI                     | A5 (8T3), A4 B8 Avant (8K5), A4 B8 (8K2)  | +         |                |
| HX 85D            | AUDI                     | A6 C4 Avant (4A5), A6 C4 (4A2), 100 C4 Saloon (4A2)                                   | +         |                |
| HX 168D           | AUDI                     | A6 C5 (4B2), A4 B6 Convertible (8H7), A6 C5 Avant (4B5)                               | +         |                |
| HX 268D           | AUDI                     | A6 C5 (4B2, 4F2), A6 C5 Avant (4B5, 4F5), A8 (4D2, 4D8)                               |           | +              |
| HX 235D           | AUDI                     | A8 D3 (4E2, 4E8), A6 C6 Avant (4F5), A6 C6 (4F2)                                      | +         |                |
| HX 235D1          | AUDI                     | A8 D3 (4E2, 4E8), A6 C6 Avant (4F5), A6 C6 (4F2)                                      | +         |                |
| HX 189KIT         | AUDI                     | Q5 (8RB), A7 Sportback (4GA, 4GF), A6 C7 Avant (4G5, 4GD)                             | +         |                |
| HX 185D           | AUDI / PORSCHE           | Q5 (8RB), A6 C7 Avant (4GS, 4GD) / Macan (95B)  | +         |                |
| HX 186D           | AUDI / PORSCHE           | Q5 (8RB), A6 C7 Avant (4GS, 4GD) / Macan (95B)  | +         |                |
| HX 167D           | AUDI / SEAT              | A4 B7 Avant (8ED), A6 C6 Avant (4F5) / EXEO ST (3R5)                                  | +         |                |
| HX 255            | AUDI / W                 | Q5 (FYB, FYG), Q7 (4MB, 4MG) / TOUAREG (CR7)  |           | +              |
| HX 154            | BMW                      | 1 (E87), 3 (E90)  | +         |                |
| HX 240D           | BMW                      | 1 (E87), 3 (E90), X1 (E84)  | +         |                |
| HX 184 KIT        | BMW                      | 1 (F20), 2 (F45), Z4 (E89)  | +         |                |
| HX 88D            | BMW                      | 3 (E30), 3 (E36), 5 (E34)   | +         |                |
| HX 165KIT         | BMW                      | 3 (E46), 5 (E39), X3 (E83)  | +         |                |
| HX 159KIT         | BMW                      | 3 (E46), X3 (E83), Z3 Roadster (E36)  | +         |                |
| HX 87D            | BMW                      | 5 (E34), 7 (E32), 8 (E31)   | +         |                |
| HX 239D           | BMW                      | 5 (E39), 3 (E46)  | +         |                |
| HX 163KIT         | BMW                      | 5 (E39), X5 (E53), 3 (E36)  | +         |                |
| HX 162D           | BMW                      | X5 (E53), X3 (E83), 7 (E65, E66, E67)   | +         |                |
| HX 152            | BMW / ALPINA             | 3 (E90) / B5  | +         |                |
| HX 278D           | BMW / ALPINA /<br>JAGUAR | 5, 7, 8 / B10 / XK 8 Convertible, XK II Coupe / RANGE ROVER III                       |           | +              |
| HX 276 KIT        | DODGE / JEEP / RAM       | DURANGO, RAM / CHEROKEE, GRAD CHEROKEE / 1500 Crew, Extended, Standard Cab Pickup     |           | +              |
| HX 273            | FORD                     | C-MAX II, FOCUS III, KUGA II, GALAXY II, MONDEO IV, S-MAX                             |           | +              |
| HX 149D           | FORD                     | Fiesta VI (CB1, CCN), Focus II (DA, HCP, DP), Focus I (DAW, DBW)                      | +         |                |
| HX 153D           | FORD                     | Focus II (DA, HCP, DP), Focus II Saloon (DB, FCH, DH), Focus II Turnier (DA, FFS, DS) | +         |                |
| HX 151KIT         | FORD / RENAULT           | Focus II (DA, HCP, DP), Focus II Saloon (DB, FCH, DH) / Kadjar (HA, HL)               | +         |                |
| HX 244            | HYUNDAI / KIA            | ACCENT IV Saloon (RB), RIO III Saloon (UB), i20 I (PB, PBT)                           | +         |                |
| HX 254D           | HYUNDAI / KIA            | ACCENT IV Saloon (RB), RIO III Saloon (UB), TUCSON (TL, TLE)                          |           | +              |
| HX 246D           | HYUNDAI / KIA            | GETZ (TB), ACCENT III Saloon (MC), RIO II (JB)  | +         |                |
| HX 156            | HYUNDAI / KIA            | ix35 (LM, EL, ELH) / SPORTAGE III (SL), Tucson (JM)                                   | +         |                |
| HX 193D           | MAZDA                    | 3 (BM, BN), CX-3 (DK), CX-5 (KF)  | +         |                |
| HX 158D           | MERCEDES-BENZ            | A-Class (W169), B-Class Sports Tourer (W245)  | +         |                |
| HX 158D1          | MERCEDES-BENZ            | A-Class (W169), B-Class Sports Tourer (W245)  | +         |                |

| Article<br>Number | Brand Model               |   | Available | In Preparation |
|-------------------|---------------------------|---|-----------|----------------|
| HX 161D           | MERCEDES-BENZ             | A-Class (W176), B-Class Sports Tourer (W246), GLA-Class (X156)  | +         |                |
| HX 232 D          | MERCEDES-BENZ             | A-Class (W176), B-Class Sports Tourer (W246), GLA-Class (X156)  | +         |                |
| HX 46             | MERCEDES-BENZ             | C-Class (W202), 190 (W201), 124 Saloon (W124)   | +         |                |
| HX 46D1           | MERCEDES-BENZ             | C-Class (W202), 190 (W201), 124 Saloon (W124)   | +         |                |
| HX 46D2           | MERCEDES-BENZ             | C-Class (W202), 190 (W201), 124 Saloon (W124)   | +         |                |
| HX 196 KIT        | MERCEDES-BENZ             | C-Class, GLC-Class, S-Class   | +         |                |
| HX 48             | MERCEDES-BENZ             | E-Class (W210), SL (R129), E-Class (W124)   | +         |                |
| HX 230 KIT        | MERCEDES-BENZ             | M-Class (W164), C-Class (W205), GLK-Class (X204)  | +         |                |
| HX 81D            | MERCEDES-BENZ             | Sprinter 3,5t Van (B906), C-Class (W203), C-Class (W202)  | +         |                |
| HX 124D           | MERCEDES-BENZ             | Sprinter 3,5t Van (B906), C-Class (W203), C-Class (W205)  | +         |                |
| HX 169KIT         | MINI                      | MINI (R56), Countryman (R60), Clubman (R55)   | +         |                |
| HX 157D           | OPEL                      | Corsa C (X01), Corsa D (S07), Astra H (A04)   | +         |                |
| HX 166D           | OPEL                      | Zafira A MPV (T98), Astra G Hatchback (T98), Vectra B (J96)   | +         |                |
| HX 148D           | PEUGEOT / CITROEN         | 206 Hatchback (2A/C), 208 I (CA, CC) / C3 I (FC, FN)  | +         |                |
| HX 238D           | PEUGEOT / CITROËN         | 407 (6D_), 407 SW (6E_) / C5 I (DC_)  | +         |                |
| HX 147KIT         | SEAT / VW                 | Ibiza III (6L1) / Golf IV (1J1), Polo (6N2)   | +         |                |
| HX 234D           | TOYOTA                    | CAMRY Saloon (V5), RAV 4 IV (A4)  | +         |                |
| HX 245D           | TOYOTA / LEXUS            | ALPHARD I (H1,H2), AVENSISCAMRY, COROLLA (E12) / ES, RX   |           |                |
| HX 237D           | TOYOTA / LEXUS            | CAMRY Saloon (_V4_), RX (_U3_) / AVENSIS Estate (_T25_)   | +         |                |
| HX 188            | VOLVO / RENAULT /<br>OPEL | V70II (285) / Espace IV (JK0/1) / Vectra C (Z02)  | +         |                |
| HX 164D           | VW                        | A6 C6 Avant (4F5), A6 C6 (4F2), A8 D3 (4E2, 4E8)  | +         |                |
| HX 164D1          | VW                        | A6 C6 Avant (4F5), A6 C6 (4F2), A8 D3 (4E2, 4E8)  | +         |                |
| HX 132D           | VW                        | Golf V (1K1), Touran (1T1, 1T2), Passat B8 Variant (3G5, CB5)   | +         |                |
| HX 82D            | VW                        | Jetta II (19E, 1G2, 165), Transporter IV Platform/Chassis (70E, 70L, 70M, 7DE, 7DL, 7D), Golf II (19E, 1G1) | +         |                |
| HX 84D            | VW                        | Passat B5.5 Variant (3B6), Passat B5.5 (3B3), A4 B6 Avant (8E5)   | +         |                |
| HX 139D           | VW                        | Tiguan (5N), Tiguan (AD1, AX1), Transporter V Bus (7HB, 7HJ, 7EB, 7EJ, 7EF, 7EG, 7HF, 7EC)                  | +         |                |
| HX 236D           | VW                        | TIGUAN (5N_), PASSAT CC B6 (357)  | +         |                |
| HX 150KIT         | VW                        | TOURAN (1T1, 1T2), Polo (9N), Golf V (1K1)  | +         |                |
| HX 272D           | VW / AUDI                 | CALFORNIA T4 Camper, CORRADO, GOLF III, PASSAT / 80, 90, 100, A6  |           | +              |
| HX 160KIT         | WW / AUDI / PORSCHE       | TOUAREG (7LA, 7L6, 7L7) / Q7 (4LB) / Cayenne (9PA)  | +         |                |
| HX 187KIT         | W / AUDI / PORSCHE        | TOUAREG (7P5, 7P6) / Q7 (4LB) / Panamera (970)  | +         |                |
| HX 272D1          | VW / SEAT                 | CORRADO, GOLF III, PASSAT / TOLEDO I, IBIZA II  |           | +              |
| HX 147KIT1        | VW / SEAT / SKODA         | Golf IV (1J1) / Ibiza II (6K1) / Octavia I (1U2)  | +         |                |
| HX 256D           | VW / SKODA                | GOLF V (1K1), TOURAN (1T1, 1T2) / OCTAVIA II (1Z3)  | +         |                |
| HX 191            | VW / SKODA                | POLO V (6R1, 6C1) / YETI (5L)   | +         |                |
| HX 190D           | VW / SKODA / AUDI         | PASSAT B8 Variant (3G5, CB5) / OCTAVIA II Combi (5E5, 5E6) / A3 Sportback (8VA, 8VF)                        | +         |                |





MAHLE Aftermarket Italy S.r.l. Via Rudolf Diesel 10/a 43122 Parma Italy Tel. +39 0521 9544-11

Tel. +39 0521 9544-11 Fax +39 0521 9544-90

info.aftermarket@mahle.com

MAHLE Aftermarket Deutschland GmbH Dürrheimer Straße 49a D-78166 Donaueschingen Germany Tel. +49 771 89653-24200

Fax +49 771 89653-24290 mss.sales.de@mahle.com

MAHLE Aftermarket S.L.U. C/Mario Vargas Llosa 13 Pol ind Casablanca 28850 Torrejón de Ardoz, Madrid Spain

Tel. + 34 91 888 6799 Fax + 34 91 888 6311

administracion.iberica@mahle.com

www.mahle-aftermarket.com www.mpulse.mahle.com