

| LAUNCH  |                           | MAN V14.93 Diagnostics List (Note:For reference only) |            |                           |           |      |      |      |    |     |           |
|---------|---------------------------|-------------------------------------------------------|------------|---------------------------|-----------|------|------|------|----|-----|-----------|
| VEHICLE | MODEL / SYSTEM / SUB.SYS. |                                                       |            |                           | CONNECTOR | INFO | RDTC | CDTC | DS | ACT | Spec.Func |
|         |                           | E 2000                                                | Engine     | Bosch EDC MS 5(BUS)       | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |            | Bosch EDC MS 5(TRUCK)     | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |            | BOSCH EDC MS 6.4 VERSION1 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  |     |           |
|         |                           |                                                       |            | BOSCH EDC MS 6.4 VERSION2 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | ABS        | ABS CI-12                 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | Suspension | Wabco ECAS                | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           | E 2000 Evolution                                      | Engine     | Bosch EDC MS 5(BUS)       | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |            | Bosch EDC MS 5(TRUCK)     | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |            | BOSCH EDC MS 6.4 VERSION1 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  |     |           |
|         |                           |                                                       |            | BOSCH EDC MS 6.4 VERSION2 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | ABS        | ABS CI-12                 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | Suspension | Wabco ECAS                | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           | F 2000                                                | Engine     | Bosch EDC MS 5(BUS)       | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |            | Bosch EDC MS 5(TRUCK)     | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |            | BOSCH EDC MS 6.4 VERSION1 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  |     |           |
|         |                           |                                                       |            | BOSCH EDC MS 6.4 VERSION2 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | ABS        | ABS CI-12                 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | Suspension | Wabco ECAS                | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           | F 2000 Evolution                                      | Engine     | Bosch EDC MS 5(BUS)       | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |            | Bosch EDC MS 5(TRUCK)     | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |            | BOSCH EDC MS 6.4 VERSION1 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  |     |           |
|         |                           |                                                       |            | BOSCH EDC MS 6.4 VERSION2 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | ABS        | ABS CI-12                 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | Suspension | Wabco ECAS                | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           | F 90                                                  | Engine     | Bosch EDC MS 5(BUS)       | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |            | Bosch EDC MS 5(TRUCK)     | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |            | BOSCH EDC MS 6.4 VERSION1 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  |     |           |
|         |                           |                                                       |            | BOSCH EDC MS 6.4 VERSION2 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | ABS        | ABS CI-12                 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | Suspension | Wabco ECAS                | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           | L 2000                                                | Engine     | Bosch EDC MS 5(BUS)       | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |            | Bosch EDC MS 5(TRUCK)     | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |            | BOSCH EDC MS 6.4 VERSION1 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  |     |           |
|         |                           |                                                       |            | BOSCH EDC MS 6.4 VERSION2 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | ABS        | ABS CI-12                 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | Suspension | Wabco ECAS                | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           | LE 2000                                               | Engine     | Bosch EDC MS 5(BUS)       | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |            | Bosch EDC MS 5(TRUCK)     | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |            | BOSCH EDC MS 6.4 VERSION1 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  |     |           |
|         |                           |                                                       |            | BOSCH EDC MS 6.4 VERSION2 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | ABS        | ABS CI-12                 | ①MAN-37   | ✓    | ✓    | ✓    | ✓  | ✓   |           |

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|---------|---------------------------|-------------------------------------------------------|-----------------------------------|---------------------------|----------------|------|------|------|----|-----|-----------|
| VEHICLE | MODEL / SYSTEM / SUB.SYS. |                                                       |                                   |                           | CONNECTOR      | INFO | RDTC | CDTC | DS | ACT | Spec.Func |
| VEHICLE |                           |                                                       | Suspension                        | Wabco ECAS                | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           | M 2000                                                | Engine                            | Bosch EDC MS 5(BUS)       | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |                                   | Bosch EDC MS 5(TRUCK)     | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |                                   | BOSCH EDC MS 6.4 VERSION1 | ①MAN-37        | ✓    | ✓    | ✓    | ✓  |     |           |
|         |                           |                                                       |                                   | BOSCH EDC MS 6.4 VERSION2 | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | ABS                               | ABS CI-12                 | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | Suspension                        | Wabco ECAS                | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           | M 2000 L Evolution                                    | Engine                            | Bosch EDC MS 5(BUS)       | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |                                   | Bosch EDC MS 5(TRUCK)     | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |                                   | BOSCH EDC MS 6.4 VERSION1 | ①MAN-37        | ✓    | ✓    | ✓    | ✓  |     |           |
|         |                           |                                                       |                                   | BOSCH EDC MS 6.4 VERSION2 | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | ABS                               | ABS CI-12                 | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | Suspension                        | Wabco ECAS                | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           | M 2000 M Evolution                                    | Engine                            | Bosch EDC MS 5(BUS)       | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |                                   | Bosch EDC MS 5(TRUCK)     | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |                                   | BOSCH EDC MS 6.4 VERSION1 | ①MAN-37        | ✓    | ✓    | ✓    | ✓  |     |           |
|         |                           |                                                       |                                   | BOSCH EDC MS 6.4 VERSION2 | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | ABS                               | ABS CI-12                 | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | Suspension                        | Wabco ECAS                | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           | M 90                                                  | Engine                            | Bosch EDC MS 5(BUS)       | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |                                   | Bosch EDC MS 5(TRUCK)     | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |                                   | BOSCH EDC MS 6.4 VERSION1 | ①MAN-37        | ✓    | ✓    | ✓    | ✓  |     |           |
|         |                           |                                                       |                                   | BOSCH EDC MS 6.4 VERSION2 | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | ABS                               | ABS CI-12                 | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | Suspension                        | Wabco ECAS                | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           | ME 2000                                               | Engine                            | Bosch EDC MS 5(BUS)       | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |                                   | Bosch EDC MS 5(TRUCK)     | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       |                                   | BOSCH EDC MS 6.4 VERSION1 | ①MAN-37        | ✓    | ✓    | ✓    | ✓  |     |           |
|         |                           |                                                       |                                   | BOSCH EDC MS 6.4 VERSION2 | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | ABS                               | ABS CI-12                 | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           |                                                       | Suspension                        | Wabco ECAS                | ①MAN-37        | ✓    | ✓    | ✓    | ✓  | ✓   |           |
|         |                           | TG-A                                                  | Engine/Exhaust post-treatment     |                           | ①SMART OBD-16E |      |      |      |    |     |           |
|         |                           |                                                       | Brakes/Sustained-action brakes    |                           | ①SMART OBD-16E |      |      |      |    |     |           |
|         |                           |                                                       | Climate control/auxiliary heaters |                           | ①SMART OBD-16E |      |      |      |    |     |           |
|         |                           |                                                       | Central                           |                           | ①SMART OBD-16E |      |      |      |    |     |           |
|         |                           |                                                       | Comfort/assistance/safety         |                           | ①SMART OBD-16E |      |      |      |    |     |           |
|         |                           |                                                       | Running gear/Steering             |                           | ①SMART OBD-16E |      |      |      |    |     |           |
|         |                           |                                                       | Gearbox/Powertrain                |                           | ①SMART OBD-16E |      |      |      |    |     |           |
|         |                           | TG-L                                                  | Engine/Exhaust post-treatment     |                           | ①SMART OBD-16E |      |      |      |    |     |           |
|         |                           |                                                       | Brakes/Sustained-action brakes    |                           | ①SMART OBD-16E |      |      |      |    |     |           |
|         |                           |                                                       | Climate control/auxiliary heaters |                           | ①SMART OBD-16E |      |      |      |    |     |           |

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|---------|---------------------------|-------------------------------------------------------|--------------------------------------|-----------------|----------------|------|------|------|----|-----|-----------------------------------------------|
| VEHICLE | MODEL / SYSTEM / SUB.SYS. |                                                       |                                      |                 | CONNECTOR      | INFO | RDTC | CDTC | DS | ACT | Spec.Func                                     |
| HD_MAN  |                           |                                                       | Central                              |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Gearbox/Powertrain                   |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           | TG-M                                                  | Engine/Exhaust post-treatment        |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Brakes/Sustained-action brakes       |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Climate control/auxiliary heaters    |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Central                              |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Comfort/assistance/safety            |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Running gear/Steering                |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Gearbox/Powertrain                   |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           | TG-S                                                  | Engine/Exhaust post-treatment        |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Brakes/Sustained-action brakes       |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Climate control/auxiliary heaters    |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Central                              |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Comfort/assistance/safety            |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Running gear/Steering                |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Gearbox/Powertrain                   |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           | TG-X                                                  | Engine/Exhaust post-treatment        |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Brakes/Sustained-action brakes       |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Climate control/auxiliary heaters    |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Central                              |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Comfort/assistance/safety            |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Running gear/Steering                |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | Gearbox/Powertrain                   |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           | Vehicle search                                        |                                      |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           | Brakes/Sustained-action brakes                        | Quick test                           |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       | EBS 2.2 Knorr                        |                 | ①SMART OBD-16E | √    | √    | √    | √  |     | FREEZE FRAME                                  |
|         |                           |                                                       | EBS 5, Knorr                         |                 | ①SMART OBD-16E | √    | √    | √    | √  |     | FREEZE FRAME                                  |
|         |                           |                                                       | EBS 2,Wabco                          |                 | ①SMART OBD-16E | √    | √    | √    |    |     | FREEZE FRAME                                  |
|         |                           |                                                       | Haldex ECAM                          |                 | ①SMART OBD-16E | √    | √    | √    |    |     | FREEZE FRAME                                  |
|         |                           |                                                       | ZF Intarder                          |                 | ①SMART OBD-16E | √    | √    | √    | √  | √   | FREEZE FRAME                                  |
|         |                           |                                                       | Retarder R115E/R120-3/R133-2 Voith   |                 | ①SMART OBD-16E | √    | √    | √    | √  | √   | FREEZE FRAME                                  |
|         |                           |                                                       | PriTarder(Voith water pump retarder) |                 | ①SMART OBD-16E | √    | √    | √    | √  |     | FREEZE FRAME                                  |
|         |                           |                                                       | Quick test                           |                 | ①SMART OBD-16E |      |      |      |    |     |                                               |
|         |                           |                                                       |                                      | EDC MS6.1 BOSCH | ①SMART OBD-16E | √    | √    | √    | √  | √   | 1、FREEZE FRAME<br>2、Governor linkage dynamics |
|         |                           |                                                       |                                      | EDC 7 BOSCH     | ①SMART OBD-16E | √    | √    | √    | √  | √   | 1、FREEZE FRAME<br>2、COMPRESSION TEST          |

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|---------|---------------------------|-------------------------------------------------------|-------------------------------------------|-----------------------|----------------|------|------|------|----|-----|-------------------------------------------------------------------------------------------------------------------------------|
| VEHICLE | MODEL / SYSTEM / SUB.SYS. |                                                       |                                           |                       | CONNECTOR      | INFO | RDTC | CDTC | DS | ACT | Spec.Func                                                                                                                     |
|         | SYSTEM                    | Engine/Exhaust post-treatment                         | EDC                                       | EDC 7C32,Bosch        | ①SMART OBD-16E | √    | √    | √    | √  |     | 1、FREEZE FRAME<br>2、COMPRESSION TEST<br>3、Cylinder shut-off test<br>4、Rev-up test<br>5、Reset torque limiting and flashing MIL |
|         |                           |                                                       |                                           | EDC MS 6.4,Bosch      | ①SMART OBD-16E | √    | √    | √    | √  |     |                                                                                                                               |
|         |                           |                                                       |                                           | EDC 7 master,Bosch    | ①SMART OBD-16E | √    | √    | √    | √  | √   | 1、FREEZE FRAME<br>2、COMPRESSION TEST                                                                                          |
|         |                           |                                                       |                                           | EDC 7 slave,Bosch     | ①SMART OBD-16E | √    | √    | √    | √  |     | FREEZE FRAME                                                                                                                  |
|         |                           |                                                       |                                           | EDC 7C32 Master,Bosch | ①SMART OBD-16E | √    | √    | √    | √  | √   | 1、FREEZE FRAME<br>2、COMPRESSION TEST                                                                                          |
|         |                           |                                                       |                                           | EDC 7C32 Slave,Bosch  | ①SMART OBD-16E | √    | √    | √    | √  |     | FREEZE FRAME                                                                                                                  |
|         |                           |                                                       | Adblue system                             |                       | ①SMART OBD-16E | √    | √    | √    | √  |     |                                                                                                                               |
|         |                           |                                                       | Gas ME 7,Bosch                            |                       | ①SMART OBD-16E | √    | √    | √    | √  |     | FREEZE FRAME                                                                                                                  |
|         |                           |                                                       | CRT(self-cleaning prarticle filter)MAN    |                       | ①SMART OBD-16E | √    | √    | √    | √  |     | FREEZE FRAME                                                                                                                  |
|         |                           | Running gear/Steering                                 | Quick test                                |                       | ①SMART OBD-16E |      |      |      |    |     |                                                                                                                               |
|         |                           |                                                       | ECAS Wabco                                |                       | ①SMART OBD-16E | √    | √    | √    | √  |     | FREEZE FRAME                                                                                                                  |
|         |                           |                                                       | ECAS CDC Wabco                            |                       | ①SMART OBD-16E |      |      |      |    |     |                                                                                                                               |
|         |                           |                                                       | ECAS2 Wabco                               |                       | ①SMART OBD-16E |      |      |      |    |     |                                                                                                                               |
|         |                           |                                                       | ECAS2 CDC Wabco                           |                       | ①SMART OBD-16E |      |      |      |    |     |                                                                                                                               |
|         |                           |                                                       | RAS-EC1 steering system,rear axle,ZF      |                       | ①SMART OBD-16E | √    | √    | √    | √  |     | FREEZE FRAME                                                                                                                  |
|         |                           |                                                       | Electrohydraulic steering system(EHLA)ME  |                       | ①SMART OBD-16E | √    | √    | √    |    |     | FREEZE FRAME                                                                                                                  |
|         |                           | Gearbox/Powertrain                                    | Quick test                                |                       | ①SMART OBD-16E |      |      |      |    |     |                                                                                                                               |
|         |                           |                                                       | ASTRONIC ZF                               |                       | ①SMART OBD-16E | √    | √    | √    | √  |     | FREEZE FRAME                                                                                                                  |
|         |                           |                                                       | ASTRONIC mid ZF                           |                       | ①SMART OBD-16E | √    | √    | √    | √  |     | FREEZE FRAME                                                                                                                  |
|         |                           |                                                       | 6AS 850 ASTRONIC lite ZF                  |                       | ①SMART OBD-16E | √    | √    | √    | √  |     | FREEZE FRAME                                                                                                                  |
|         |                           |                                                       | Ecomat 2/4 Step 2                         |                       | ①SMART OBD-16E |      |      |      |    |     |                                                                                                                               |
|         |                           |                                                       | DIWA.5 Voith Turbo                        |                       | ①SMART OBD-16E | √    | √    | √    | √  |     | FREEZE FRAME                                                                                                                  |
|         |                           |                                                       | EcoLife,ZF                                |                       | ①SMART OBD-16E | √    | √    | √    | √  |     | FREEZE FRAME                                                                                                                  |
|         |                           |                                                       | Ecomat 2/4 ZF                             |                       | ①SMART OBD-16E | √    | √    | √    |    |     | FREEZE FRAME                                                                                                                  |
|         |                           |                                                       | Hydro Drive MAN                           |                       | ①SMART OBD-16E | √    | √    | √    | √  | ✓   | FREEZE FRAME                                                                                                                  |
|         |                           |                                                       | Torque converter and clutch system TC2 ZF |                       | ①SMART OBD-16E | √    | √    | √    |    |     | FREEZE FRAME                                                                                                                  |
|         |                           |                                                       | VSM SVDO                                  |                       | ①SMART OBD-16E | √    | √    | √    | √  |     | FREEZE FRAME                                                                                                                  |
|         |                           |                                                       | Quick test                                |                       | ①SMART OBD-16E |      |      |      |    |     |                                                                                                                               |
|         |                           |                                                       | Behr/GKR air-conditioning control         |                       | ①SMART OBD-16E | √    | √    | √    | √  |     | FREEZE FRAME                                                                                                                  |

| LAUNCH  |                                               | MAN V14.93 Diagnostics List (Note:For reference only)       |  |  |                |           |      |      |      |    |     |              |
|---------|-----------------------------------------------|-------------------------------------------------------------|--|--|----------------|-----------|------|------|------|----|-----|--------------|
| VEHICLE | MODEL / SYSTEM / SUB.SYS.                     |                                                             |  |  |                | CONNECTOR | INFO | RDTC | CDTC | DS | ACT | Spec.Func    |
|         | Climate control/auxiliary heaters             | Air-conditioning system KR 49x Bader                        |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    |      |    |     | FREEZE FRAME |
|         |                                               | Heatingair conditioningauxiliary air conditioning BHTC,Behr |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    | ✓  |     | FREEZE FRAME |
|         |                                               | Behr independent air-conditioning system SKG                |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    |    |     | FREEZE FRAME |
|         |                                               | D1LC-/D3LC Compact,Eberspaecher                             |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    |    |     | FREEZE FRAME |
|         |                                               | Air Top 3500 ST,Webasto                                     |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    |    |     | FREEZE FRAME |
|         |                                               | Hydronic D5W,Eberspaecher                                   |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    | ✓  |     | FREEZE FRAME |
|         |                                               | Thermo 50,Webasto                                           |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    | ✓  |     | FREEZE FRAME |
|         |                                               | Airtronic D2/D4, Eberspaecher                               |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    | ✓  |     | FREEZE FRAME |
|         |                                               | Themo S,Spheros                                             |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    |    |     | FREEZE FRAME |
|         |                                               | Hydronic 24/30/35,Eberapaecher                              |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    |    |     | FREEZE FRAME |
|         |                                               | Air Top 3500,Webasto SG 1580 old                            |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    | ✓  |     | FREEZE FRAME |
|         |                                               | Air Top 2000 OEM,Webasto                                    |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    | ✓  |     | FREEZE FRAME |
|         | Central computer/instrumentation              | Quick test                                                  |  |  | ①SMART OBD-16E |           |      |      |      |    |     |              |
|         |                                               | VDO-Kienzle instrumentation                                 |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    |    |     | FREEZE FRAME |
|         |                                               | Instrumentation Stoneridge Electronics                      |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    |    |     | FREEZE FRAME |
|         |                                               | VDO FFR                                                     |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    | ✓  |     | FREEZE FRAME |
|         |                                               | CBR II Wabco up to version E5                               |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    | ✓  |     | FREEZE FRAME |
|         |                                               | ZBRO control unit software status 'ZR_103' or earlier       |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    | ✓  |     | FREEZE FRAME |
|         |                                               | ZBRO control unit software status 'ZR_104'                  |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    | ✓  |     | FREEZE FRAME |
|         |                                               | VDO KSM                                                     |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    |    |     | FREEZE FRAME |
|         |                                               | ZFR MAN                                                     |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    |    |     | FREEZE FRAME |
|         | Comfort/assistance/safety systems             | Quick test                                                  |  |  | ①SMART OBD-16E |           |      |      |      |    |     |              |
|         |                                               | LGS ITERIS                                                  |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    |    |     | FREEZE FRAME |
|         |                                               | Tire Pressure Monitor(TPM) Wabco                            |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    |      |    |     | FREEZE FRAME |
|         |                                               | Telematik Boardmodul(TBM) OHB                               |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    |    |     | FREEZE FRAME |
|         |                                               | Door module TRW                                             |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    | ✓  |     | FREEZE FRAME |
|         |                                               | Berifors door module                                        |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    | ✓    | ✓  |     | FREEZE FRAME |
|         |                                               | Universal mobile phone preparation(UHV)FWD                  |  |  | ①SMART OBD-16E | ✓         |      |      | ✓    |    |     |              |
|         |                                               | BOSCH airbag                                                |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    |      |    |     | FREEZE FRAME |
|         | central computer,marine and auxiliary engines | Quick test                                                  |  |  | ①SMART OBD-16E |           |      |      |      |    |     |              |
|         |                                               | Ship vehicle management computer(SFFR)                      |  |  | ①SMART OBD-16E | ✓         | ✓    | ✓    |      |    |     | FREEZE FRAME |

(\*):Tested;

(?):Manual on website(www.x431.com)

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| CONNECTOR        | Heavy Duty(980390*****) | Heavy Duty(980391*****) |
|------------------|-------------------------|-------------------------|
| SMART OBD II-16H | SMART OBD II-16H        | SMART OBD II-16E        |
| OBD - 6&9 II     | OBD - 6&9 II            | SMART OBD II-16E        |

|         |                           |                                                       |  |  |  |           |      |      |      |    |     |           |
|---------|---------------------------|-------------------------------------------------------|--|--|--|-----------|------|------|------|----|-----|-----------|
| LAUNCH  |                           | MAN V14.93 Diagnostics List (Note:For reference only) |  |  |  |           |      |      |      |    |     |           |
| VEHICLE | MODEL / SYSTEM / SUB.SYS. |                                                       |  |  |  | CONNECTOR | INFO | RDTC | CDTC | DS | ACT | Spec.Func |
| MAN-37  | MAN-37                    |                                                       |  |  |  | MAN-37    |      |      |      |    |     |           |