

SOLID TO SUCCEED



Tandem Vibratory Roller

***XD105T***



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XD105T vibratory roller meets the requirements of high-end customers and special working conditions in the European market. It is suitable for the compaction of asphalt pavement, capable of compaction of different materials and thicknesses of pavement, and is especially suitable for road, parking lot, airport and other large-scale engineering pavement compaction operations.





# Convenient maintenance performance

## 1 Convenient maintenance performance

- The integral design hood tilts forward allowing for a complete view of the engine compartment.
- The parts that need to be maintained and replaced, such as air filter, machine filter, diesel fuel filter, hydraulic oil filter, etc., are all placed in easy-to-access locations;
- The fragile parts are also placed in the position of easy access or can be replaced without disassembling more parts.

## 2 Efficient compaction performance

- 55Hz high frequency vibration greatly shortens the operation time;
- 0 ~ 12km/h infinitely adjustable speed to meet the needs of different working conditions;
- Dual-frequency and dual-amplitude vibration system, front and rear drum can be vibrated independently.

## 3 Comfortable operation

- The rotating and sliding control system allows for seat adjustment in multiple directions, including forward and backward, up and down, as well as load-bearing adjustment. The seat's mobility, including sliding and rotation to the left and right, enhances operator visibility, facilitating observation of the drum edges and surface.
- The side of the cab adopts 2° beveled surface to enhance the field of visibility, and the large space cab increases the operation space and improves the operation comfort.
- The digital display instrument intuitively shows the working status, and the driver has better maneuvering space and is more comfortable.

## 4 High reliability

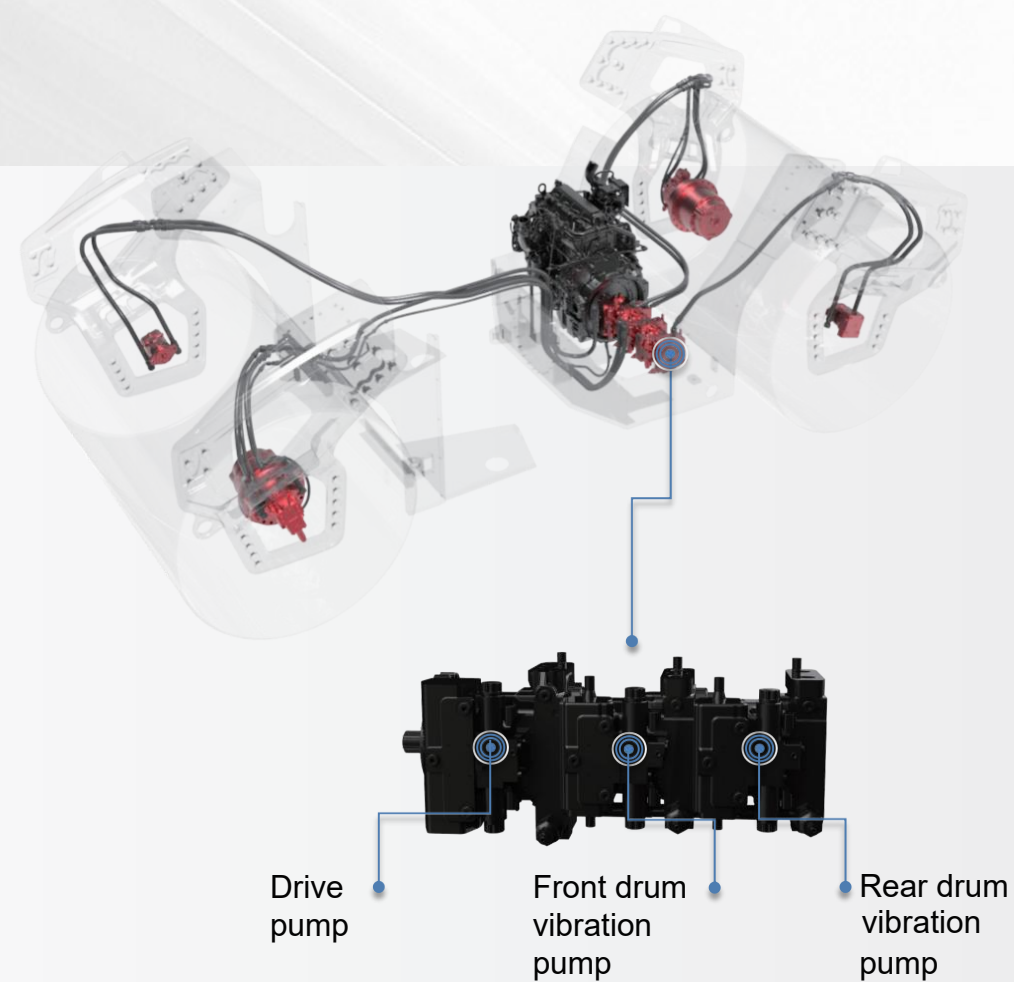
- The traditional cylindrical four-support structure uses XCMG's patented lubrication and oil scraping device, and cooperates with the long-life vibration bearing, which greatly improves the service life of the vibratory steel drums;
- The key components such as engine, hydraulic pump, hydraulic motor, etc. are of well-known brands, which effectively ensures the durability and reliability of the machine and prolongs the service life of the whole machine.





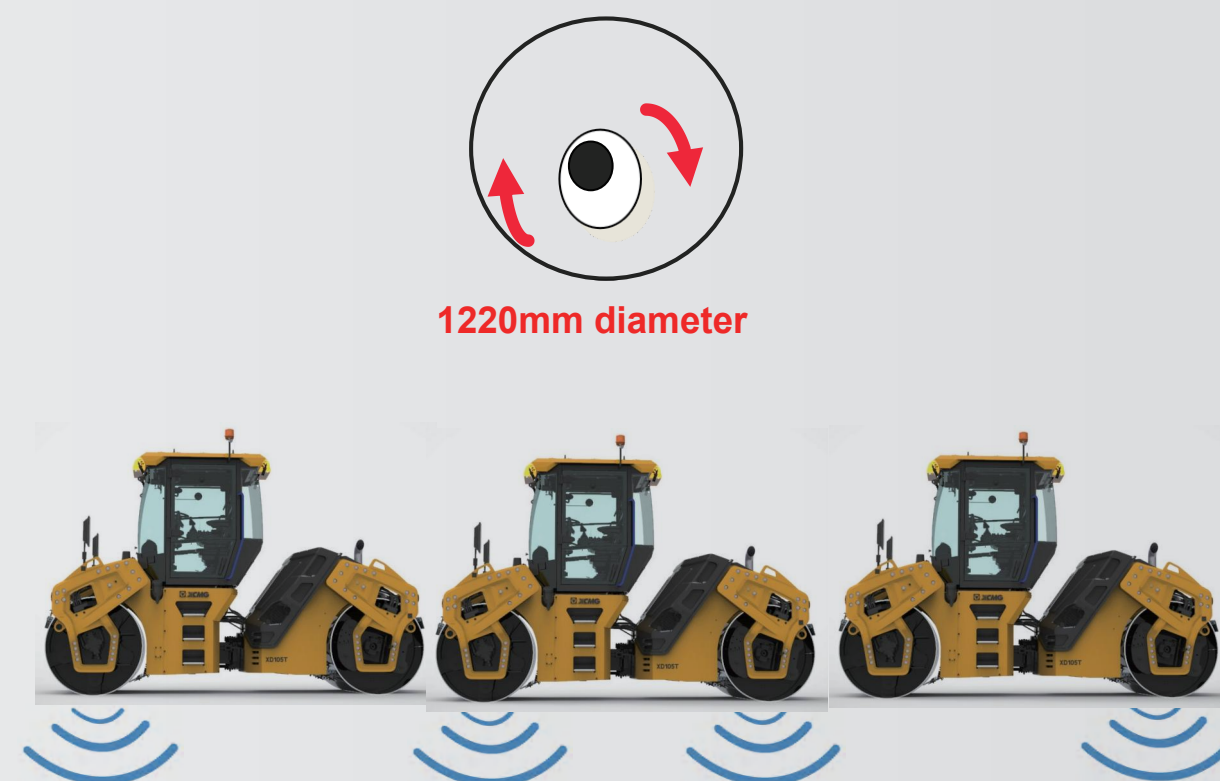
## Dual Vibration Drum

- Two vibration pumps hydraulic system
- Front and rear wheel vibration is controlled by dual pumps individually for more powerful vibration.
- Front and rear steel wheels frequency is controlled independently and can be adjusted individually, no flapping vibration phenomenon
- No vibration valve required, simplified system, reduced failure rate
- High efficiency and longer service life of hydraulic system



## Independent vibration of front and rear drum

- The front and rear drum vibrate independently to meet the needs of different operation scenarios
- Compaction of joints, local repairs and potholes after milling. Increase the contact area between drum and the ground and improve the evenness of the road surface.
- Three centers in one, good amplitude uniformity
- Equal pressure technology realizes the static and dynamic uniform effect of the whole machine and improves the compaction flatness.



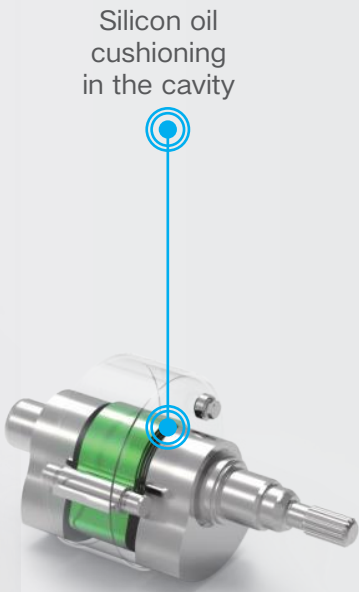
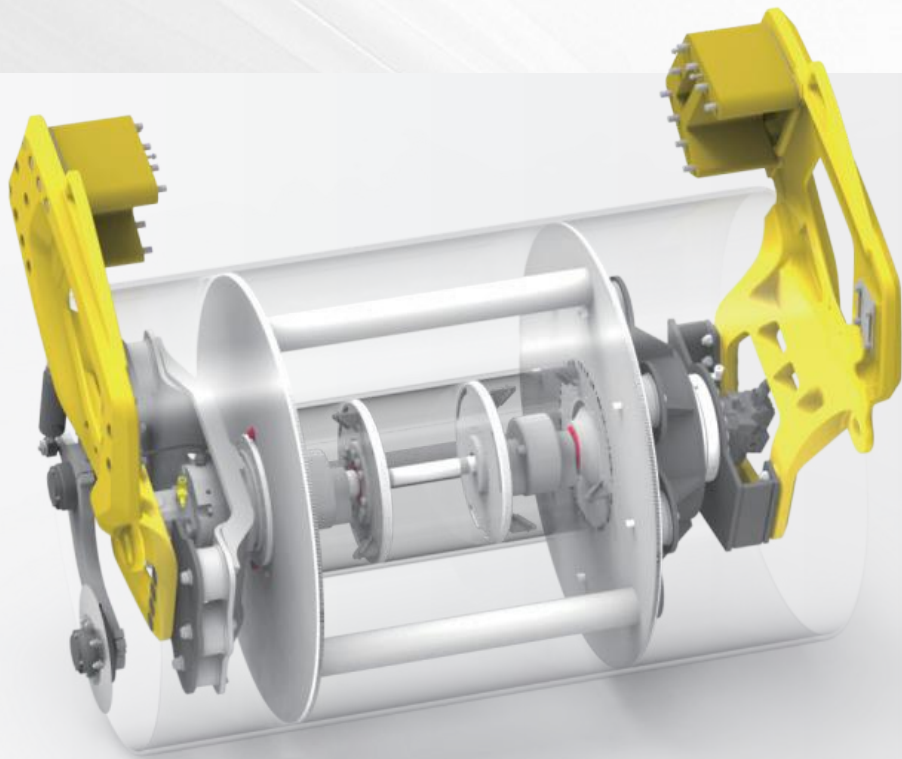
# strengthened working device

- Shockless exciter with low noise and long life
- Silicon oil damping buffer attenuates the inertial shock during direction changes and ensures no impact during the start and stop of the vibrating drum.
  - XCMG customized silicone oil with small viscosity and temperature coefficient, suitable for various temperature environments.
  - The closed chamber ensures sealing and eliminates the need to change the silicone oil during product life cycle.
- Shockless vibration technology
- Shockless exciter has internal silicone oil buffer. Compared with conventional exciter, the movable eccentric block has less impact when starting and stopping the vibration, and has a longer service life.

- Large diameter forging traveling bearing seat, the most reliable in the industry
- Shaft diameter is 45% larger than the previous generation for greater support ability.
  - The forging integral molding delivers good consistency.
  - Alloy structural steel quenched and tempered, excellent mechanical properties
- High frequency special Mobil lubricating oil
- Low liquid friction reduces working temperature and improves working efficiency.
- Strengthened transmission shaft, more durable vibration drum
- The spline is drawn into shape at one time, with high precision and smooth operation.
  - Hollow shaft structure, high torsional rigidity, low moment of inertia.

# full-size side-sliding and rotating operating platforms

Large LCD analog display, intuitive and accurate  
Standard with one key start, easy to operate  
Electric control lever, light to operate





## Electronic control soft start/stop

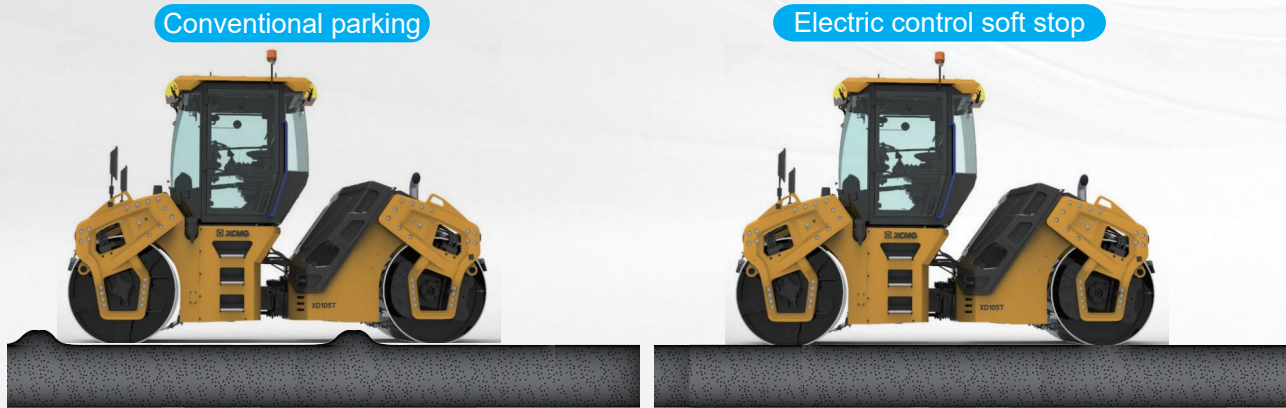
Simple operation, easy to control compaction, high road surface evenness

- Smooth start, avoiding piles of material on the road surface.
- Smooth parking, avoiding road congestion.
- Easy to operate, reducing the driving skill requirements for the driver;

Based on the travel data model, matching the best start/stop control strategy, realizing the optimal adaptation of control curve, pressure curve and speed curve.

Starting current optimization, improving the compaction quality in the starting and stopping phase.

The soft start and stop function is built-in, so the driver does not need to pay special attention to it, giving an excellent driving experience.



## high efficiency power performance

- The whole machine adopts flow field analysis to ensure reliable heat dissipation, and at the same time reduces the fan speed by 20%, reducing the noise by 1.2dB.

Low maintenance costs

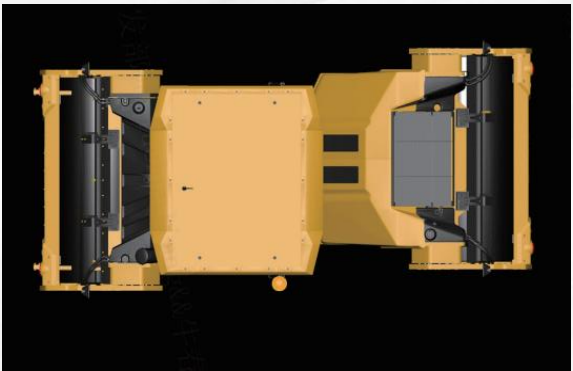
- Fuel and oil filter replacement intervals up to 500 hours
- Routine maintenance area within easy reach
- Sliding overall hood, power space at a glance



## excellent visibility and good edge fit

Standard crab-walk system

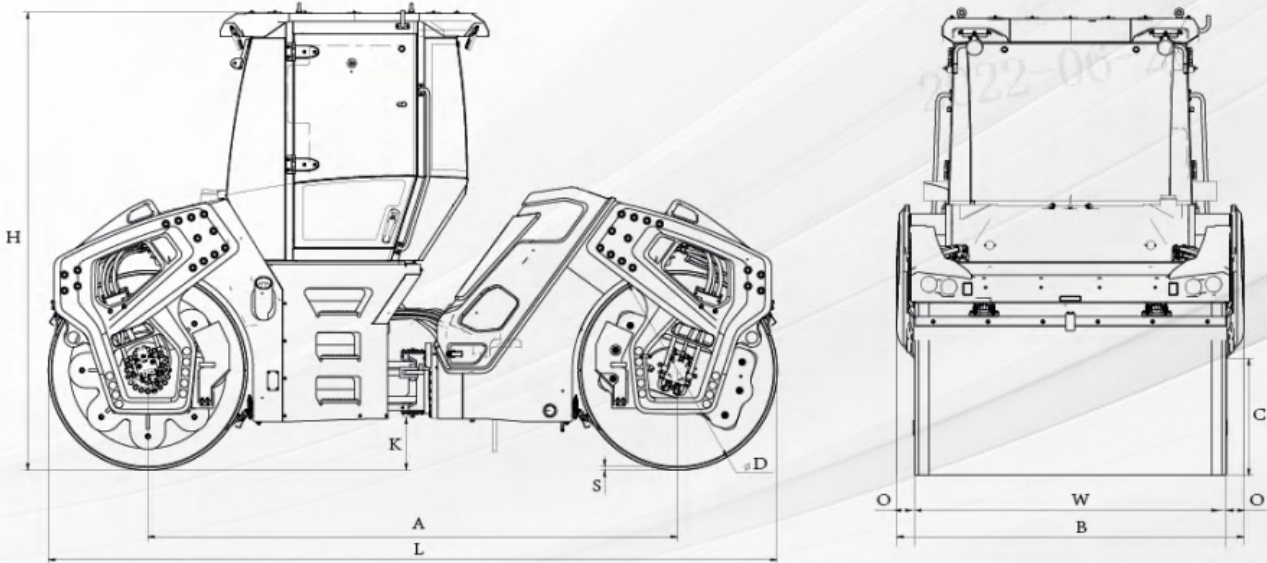
- Crab-walk of 170mm, better curb performance
- One-touch crab-walk from the lever for easy operation
- Compaction of curb edge and curves with small turning radius



## Main Technical Parameters

| Items                 | Content                                 | Unit  | Value                        |
|-----------------------|-----------------------------------------|-------|------------------------------|
| Weight Parameters     | Operating Weight                        | kg    | 10000                        |
|                       | Front Axle Weight                       | kg    | 5000                         |
|                       | Rear Axle Weight                        | kg    | 5000                         |
|                       | Static linear load (front/rear)         | N/cm  | 292/292                      |
| Maneuverability       | Operating Speed                         | km/h  | 0 - 12                       |
|                       | Theoretical Gradeability                | -     | 35%                          |
|                       | Minimum turning radius (inside/outside) | mm    | 5606/7286                    |
|                       | Minimum Ground Clearance                | mm    | 290                          |
|                       | Wheel Base                              | mm    | 3570                         |
|                       | Steering Angle                          | -     | +31°                         |
|                       | Oscillation Angle                       | -     | ±8°                          |
|                       | Braking Distance                        | m     | ≤4.36                        |
| Compaction Parameters | Vibration Frequency                     | Hz    | 55/45                        |
|                       | Nominal Amplitude                       | mm    | 0.45/0.8                     |
|                       | Centrifugal force (high/low)            | kN    | 110/90                       |
|                       | Drum diameter                           | mm    | 1220                         |
|                       | Working Width                           | mm    | 1680                         |
| Hydraulic system      | Charging pressure, drive system         | MPa   | 2.4                          |
|                       | Peak pressure, drive system             | MPa   | 38                           |
|                       | Peak pressure, vibration system         | MPa   | 32                           |
|                       | Peak pressure, steering system          | MPa   | 17.5                         |
| Engine                | Model                                   | -     | F3.8(Stage V)                |
|                       | Rated Power                             | kW    | 90                           |
|                       | Rated Speed                             | r/min | 2200                         |
| Miscellaneous         | Drive type                              | -     | Static hydraulic-closed type |
|                       | Driving type                            | -     | Static hydraulic-closed type |
|                       | Service Brake                           | -     | Hydraulic                    |
|                       | Parking Brake                           | -     | Mechanical/Hydraulic         |
|                       | Emergency Brake                         | -     | Mechanical/Hydraulic         |
|                       | Steering mode                           | -     | Articulated                  |
|                       | Steering Control                        | -     | Hydraulic                    |

## Appearance And Dimensions



| Model  | A    | B    | C   | L    | H    | D    | S  | W    | O  | K   |
|--------|------|------|-----|------|------|------|----|------|----|-----|
| XD105T | 3570 | 1850 | 782 | 4790 | 3080 | 1220 | 17 | 1680 | 85 | 290 |



Optimum services , XCMG Guaranteed



Cummins engine



Genuine parts



Extension of warranty



Financial solutions



Maintenance contract



Telematics



Monitoring systems

Professional Integrated Complete Solutions

XCMG group has built a strong reputation based on the quality, reliability and durability of its construction machinery.What’s more, XCMG has gradually established a service network to constantly provide its local integrated and highly efficient complete solutions for all users.

Full range of services ready for you

In order to respond to your needs as fast as possible, XCMG experts are on their way to your job site from one of our facilities near you. Full range of servivices are available in order to reduce your total cost of ownership and increase your revenue.

XCMG Global Spareparts System

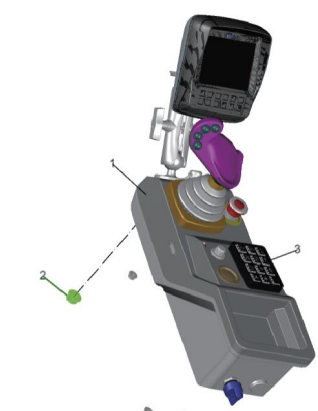
XP305S

Pneumatic Tire Roller

PIN/VIN : XUG03054VKJE02365

225704540 CONTROL BOX

| Number | Material Encoding | Name                  | Quantity | Handle |
|--------|-------------------|-----------------------|----------|--------|
| 1      | 225704532         | CONTROL BOX STRUCTURE | 1        |        |
| 2      | 895238400         | NUT M8                | 4        |        |
| 3      | 225704541         | CONTROL BOX ELECTRIC  | 1        |        |



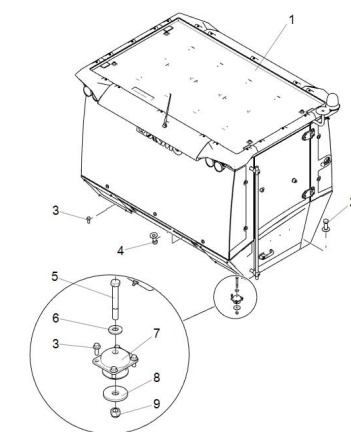
XP305S

Pneumatic Tire Roller

PIN/VIN : XUG03054VKJE02365

225704748 DRIVER'S CAB ASSY

| Number | Material Encoding | Name            | Quantity | Handle |
|--------|-------------------|-----------------|----------|--------|
| 1      | 225704791         | CAB ASSEMBLY    | 1        |        |
| 2      | 895096280         | BOLT M16*45     | 9        |        |
| 3      | 895094763         | BOLT M10*25     | 16       |        |
| 4      | 895048571         | BOLT M16*30     | 2        |        |
| 5      | 895046668         | BOLT M16*120    | 4        |        |
| 6      | 895301377         | WASHER 16       | 15       |        |
| 7      | 228901569         | SHOCK CABSORBER | 4        |        |
| 8      | 229000495         | BIG FLAT PLATE  | 4        |        |
| 9      | 895238158         | NUT M16         | 4        |        |



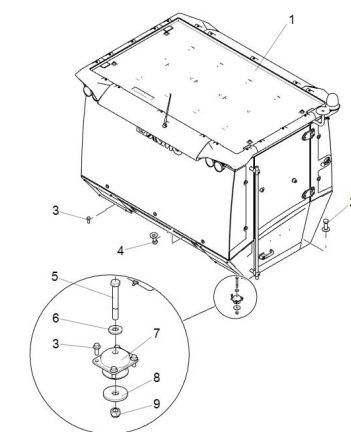
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