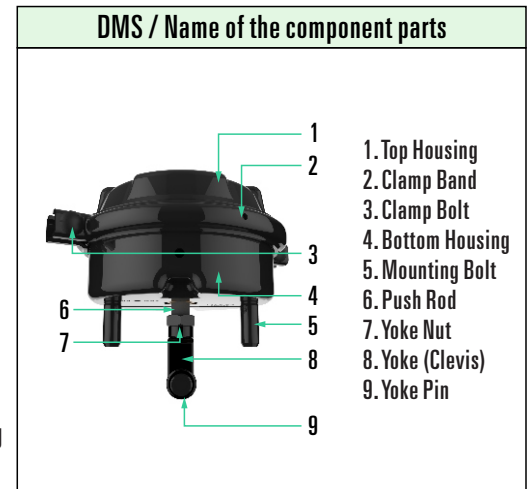


The brand, shaping the future of SAFETY

DMSxx Series INSTALLATION and INSPECTION MANUAL



Model	Type	Stroke		Remarks
		inches	mm	
DMS20D	20	2.5	63.5	
DMS24D	24	2.5	63.5	
DMS24E	24	3	76	
DMS30D	30	2.5	63.5	



Important Notification for Installation

To maximize the life of the Spring Brake, we highly recommend you to follow the service manual when installing this product to your vehicle.

When installing the Brake on to horizon type of mounting bracket, the minimum contact surface is always required. When bracket and mounting bolt is required to be aligned, the minimum contact space can be smaller than horizontal type of bracket.

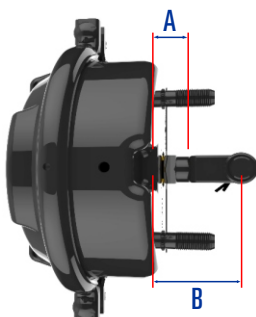
Always mount the brake chamber directly on the bracket. **DO NOT** add or insert shims, spacers, washers or reinforcing plates between the bracket and the brake chamber.

Removal Instruction for Service Brake Chamber

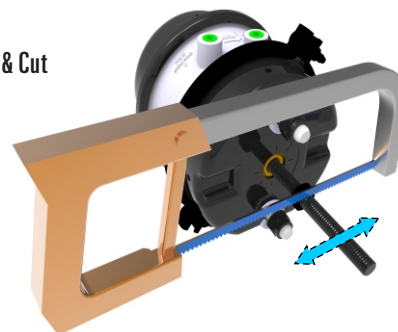
1. Before chamber removal, turn on the parking brake and always block wheels to prevent vehicle rollaway.
2. Following the manufacturer's instructions precisely, using spanner wrench, release the air hose and the connector from the chamber. Marking before the separation to ensure the location of the air line and connector is highly recommended.
3. Using a 24 mm (5/16 inch) socket wrench, unscrew the mounting nut counterclockwise and cautiously remove the old chamber.

Service Brake Chamber Installation

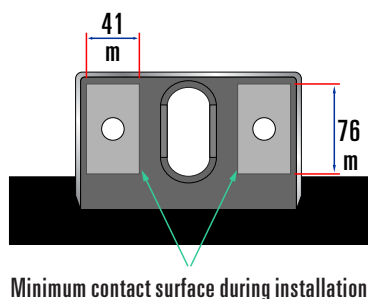
1. **DETERMINE CORRECT PUSHROD LENGTH:** Follow the manufacturer's instruction or if the old brake chamber was properly installed, use the old brake measurement to determine the proper pushrod length. The measurement must be equal to replacing brake chamber.
2. Measure the bottom housing and record the end of pushrod (A) to center line of York pin (B) from the previous chamber.
If the measurement needs to be readjusted, use the measurement from above to cut the pushrod. Mark the correct length on the pushrod.
Use the York nut to facilitate marking of correct length and cut the pushrod. Once the length is set, attach the York nut and York (clevis) to the pushrod



Pushrod length measurement & Cut



1. To ensure the flatness of the mounting bracket surface, inspect the bracket mounting. The bracket must be free from excessive debris, burr, cracks, and welding burn mark. The bracket must also be flat to 1/64" (0.4mm)



1. Install the spring brake chamber to mounting bracket of the axles and insert the mounting washer. After inserting the mounting washer, using 24mm (15/16 inch) socket wrench, screw the mounting nut clockwise. Recommended torque is 18~21kgf.m (133~155 lbf.ft). Be careful not to install the mounting washer between the chamber and the bracket.
2. Make sure the location of the yoke nut and yoke at the pushrod, position the yoke hole to slack adjuster, double check the external diameter of the York pin and assemble the split pin. Hold the yoke to prevent it from spinning and start tightening the yoke nut to 6~7kgf.m (45~50 lbf.ft) torque.
3. Using Loctite glue or Teflon tape, tighten the chamber fitting at 3.6kgf.m (25lbf.ft) torque. Connect the correct air hose to each position. Air hose needs to be free from entangling and interference at all time.



Installation Inspection

1. After charging the air tank to 6.2~8.3 bar (90~120 psi/620 ~830kPa), using soapy water (NEVER ANY TYPE OF OIL) inspect air leak from airline and fitting and also from service part airline and fitting during foot brake operation.
2. Follow your vehicle manufacturer's recommended manual for brake adjustment.

