

## UPGRADE OPTIONS

TR-T	TR-TS	LTS	PISTON SERIES
 <p>The same brake design and features as the tamper resistant (TR) model with the addition of the external breather tube. MGM's breather tube resists ingestion of foreign contamination that could reduce power spring life. This feature vents air from inside the protected area of the non-pressure chamber to effectively prevent entry of liquid and solid corrosive contaminants that can cause premature failure of the spring brake chamber.</p>  <p>External Breather Tube</p>	 <p>Same as the TR-T, but epoxy coated inside and out for extra protection in unusually tough, corrosive operating environments. The center case and upper piston are epoxy coated for extra added protection, along with our guide with patented "corrosion fighter" technology, make MGM "Severe Service" chambers the best choice for severe operating environments: such as acids, salt, liquid corrosives and concrete.</p>  <p>Guide with patented Corrosion Fighter Technology</p>  <p>Epoxy Coated Components</p>	 <p>LTS is an extended-life model designed for superior performance and lower total cost of ownership. This sealed, double diaphragm brake chamber is compact in design and has many standard features engineered to provide superior performance. Features include an all aluminum head and corrosion fighter technology to assure superior corrosion resistance. An integral release bolt was added to ease installation/removal and a breather tube to resist ingestion of foreign contamination for longer power spring life.</p>	 <p>The J-Series Piston brake chamber is the ultimate product to minimize down time due to not having a diaphragm that can fail on the parking brake side. It is designed for use in demanding parking and vehicle holding situations. The power spring output force of a type 30 J-Series is 900+ pounds greater than a type 36 diaphragm chamber. The piston brake is the preferred brake on Emergency vehicles, Transit, and any fleet that wants to minimize the amount of road calls they have.</p>

Go to: [www.mgmbrakes.com](http://www.mgmbrakes.com)

## Our website offers

- e-Commerce
- Cross Reference
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- Distributor Locator
- Live Chat
- Supplier Portal
- Submit a Warranty
- Extensive Product Information
- Updated Online Catalog
- Marketing Center: brochures, technical bulletins and training programs



### MGM Brakes

6200 Harris Technology Blvd.  
Charlotte, North Carolina 28269  
Phone: (800) 527-1534  
Phone: (704) 547-7411  
Fax: (704) 547-9367  
email: [mail@mgmbrakes.com](mailto:mail@mgmbrakes.com)

[www.mgmbrakes.com](http://www.mgmbrakes.com)



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# REFERENCE GUIDE

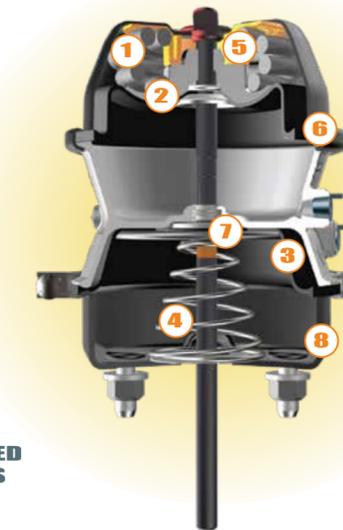
## WHY INVEST IN A MGM CHAMBER?

1. HIGH PERFORMANCE POWER SPRING

2. CENTER HOLE DIAPHRAGM

3. HEAVY-DUTY DIAPHRAGMS

4. EPOXY COATED COMPONENTS



5. CORROSION FIGHTER TECHNOLOGY

6. TAMPER RESISTANT SEAL

7. MULTI-LIPPED CENTER SEAL

8. HEAVY-DUTY NPC

## MGM TR SERIES FEATURES

1. Long life, epoxy coated power spring – HD available. Maintains secure parking force.
2. Center hole diaphragm: An MGM invention to assure push-rod alignment throughout the brake chamber.
3. Heavy-duty, nylon reinforced diaphragms for durability and longer life (hybrid neoprene diaphragms available).
4. Power spring, return spring, spring side head and NPC all epoxy coated to resist corrosion and increase service life.
5. Corrosion Fighter Technology: Patented MGM exclusive design that increases power spring life by reducing the internal effects of electrolysis. The new spring guide also ensures precise alignment of the power spring inside the brake. Guide depicted yellow for visual purposes.
6. Tamper resistant design assures chamber safety.
7. Multi-lipped center seal assures a positive internal seal that is superior to o-rings.
8. Heavy-duty 8/gauge steel NPC (6/gauge on type 36) for added durability.



CORROSION FIGHTER TECHNOLOGY

## Additional Options

### Welded Yoke - Available on all models

Maintain OEM engineered safety by eliminating the need of a mechanic measuring and cutting push-rods (incorrect rod cutting can affect proper brake adjustment). This will help ease installation and reduce road call times.



### Heavy-Duty Power Spring - Available on TR Models only

Longer life, epoxy coated power spring. Maintains repeatable and secure parking force with an additional 160 lbs. pressure. Primary applications are school bus, salt trucks, logging and all heavy duty hauling.



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## AIR DISC BRAKES & CROSS REFERENCE

MGM Service Chambers for Air Disc Brakes SAE			MGM Metric	Bendix Cross Reference	TSE Cross Reference	Haldex Cross Reference
Size	MGM Model	MGM P/N	MGM P/N	Bendix P/N	TSE P/N	Haldex P/N
16	CSB16D	CSB16D051	CSB16D049	K028226	16HSCND2-XXX	SC16D
18	CSB18D	CSB18D051	CSB18D049	K028022	18HSCND2-4026	SC18D
20	CSB20D	CSB20D051	CSB20D049	K028225	20HSCND2-3630	SC20D
22	CSB22D	CSB22D051	CSB22D049	K028238	22HSCND2-3631	SC22D
24	CSB24D	CSB24D051	CSB24D049	K028252	24HSCND2-3632	SC24D

MGM Double Diaphragm Parking Chambers for Air Disc Brakes SAE			MGM Metric	Bendix Cross Reference	TSE Cross Reference	Haldex Cross Reference
Size	MGM Model	MGM P/N	MGM P/N	Bendix P/N	TSE P/N	Haldex P/N
1624	TRB1624DT	TRB1624DT051	TRB1624DT049	K042457	1616HTLD2-3627 & 1624TLD2H	GC1624D
1824	TRB1824DT	TRB1824DT051	TRB1824DT049	K043329, K132352 K026453, K043312 K065544	1816HTND2-3669 & 1824TND2H	GC1824D
2024	TRB2024DT	TRB2024DT051	TRB2024DT049	K041960	2016HTND2-3710 & 2024TND2H	GC2024D
2224	TRB2224DT	TRB2224DT051	TRB2224DT049	K043148	2224TND2H	GC2224D
2424	TRB2424DT	TRB2424DT051	TRB2424DT049	K043270	2424TND2H	GC2424D
2430	TRB2430DT	TRB2430DT051	TRB2430DT049	N/A	2430TLD2H	N/A

MGM Piston Diaphragm Parking Chambers for Air Disc Brakes SAE			MGM Metric	Bendix Cross Reference	TSE Cross Reference	Haldex Cross Reference
Size	MGM Model	MGM P/N	MGM P/N	Bendix P/N	TSE P/N	Haldex P/N
1624	MJB1624DT	MJB1624DT051	MJB1624DT049	K026731	1624HTND2-XXX	N/A
1824	MJB1824DT	MJB1824DT051	MJB1824DT049	K025670	1824HTND2-3628	N/A
2024	MJB2024DT	MJB2024DT051	MJB2024DT049	K025669	2024HTND2-3626	N/A
2224	MJB2224DT	MJB2224DT751	MJB2224DT049	K026737	2224HTND2-XXX	N/A
2424	MJB2424DT	MJB2424DT751	MJB2424DT049	K026734	2424HTND2-3629	N/A

NOTE: Cross Reference applies to SAE brakes only. For additional information, go to <http://bit.ly/crossreference>.



## SPRING BRAKES - STANDARD STROKE

Combination - Standard Stroke							
Model / Size	TR2424L	TR2430L	TR3030	TR3030T	TR3030TS	TR3036	TR3636
P/N Combination	3427051	3429051	3430051	3431051	3531051	3433051	3437051
P/N Neoprene Diaphragm	3427851	N/A	3430851	3431851	3531851	3433851	N/A
P/N Welded Yoke (2.25")	N/A	3429951	3430951	3431951	3531951	3433951	3437951
Stroke	2.50"	2.50"	2.50"	2.50"	2.50"	2.50"	3.00"

## SPRING BRAKES LONG STROKE



*Long Stroke Identifiers*  
 1. Yellow Trapezoidal ID Tag  
 2. Square Port Embossment

Combination - Long Stroke							
Model / Size	TR2430LP3	TR3030LP3	TR3030LP3T	TR3030LP3TS	TR3036L3	TR3036L3T	LTS3030ET
P/N Combination	3224051	3230051	3231051	3535051	3234051	3235051	LTS3030ET051
P/N Neoprene Diaphragm	3224851	3230851	3231851	3535851	N/A	N/A	N/A
P/N Welded Yoke (2.25")	3224951	3230951	3231951	3535951	3234951	3235951	LTS3030ET951
Stroke	3.00"	3.00"	3.00"	3.00"	3.00"	3.00"	3.00"

## SERVICE CHAMBERS

Service Chambers - Standard and Long Stroke									
Model / Size	C12	C16	C20	CS20L*	C24L	C24L3	C30	C30L3	C36
P/N Service Chamber	1412001	1416001	1420001	1621001	1427001	1428001	1430001	1431001	1436001
P/N Neoprene Diaphragm	N/A	N/A	1420801	N/A	1427801	1428801	1430801	1431801	1436801
P/N Welded Yoke (2.25")	N/A	N/A	N/A	1621901	1427901	1428901	1430901	1431901	N/A
P/N Intraax/Vantraax	N/A	N/A	N/A	N/A	1427551	N/A	1430551	N/A	N/A
Stroke	1.75"	2.25"	2.25"	2.50"	2.50"	3.00"	2.50"	3.00"	3.00"

NOTE: \*S = sealed assembly

## PIGGYBACK PLUS KITS

Piggyback Plus Kits - Standard Stroke						
Model / Size	TR2424L	TR2430L	TR3030	TR3030T	TR3036*	TR3636
P/N Piggyback Plus Kit	3427008	3429008	3430008	3431008	3433008	3437008
P/N Neoprene Diaphragm	N/A	N/A	3430808	3431808	3433808	N/A

Piggyback Plus Kits - Long Stroke							
Model / Size	TR2430LP3	TR3030LP3	TR3030LP3T	TR3030LP3THD	LTS3030ET	MJS3024ET	MJS3030ET
P/N Piggyback Plus Kit	3224008	3230008	3231008	3233008	LTS3030ET008	MJS3024ET008	MJS3030ET008
P/N Neoprene Diaphragm	N/A	3230808	N/A	N/A	N/A	N/A	N/A

NOTE: Piggyback Plus Kits include piggyback, clamp band & service diaphragm.  
 \*This model MUST be used in combination with MGM Brakes heavy-duty, weld-reinforced mounting base or 8 gauge non-pressure housing ONLY.



## SCHOOL BUS APPLICATIONS (welded yoke)

5 Year Warranty - Heavy Duty Long Stroke Brake Chambers		
P/N	Model/Size	Description
3527961*	TR2430LP3TSHD	2.25" Y Dimension - Welded Yoke
3534961*	TR3030LP3TSHD	2.25" Y Dimension - Welded Yoke

4 Year Warranty - Heavy Duty Long Stroke Brake Chambers		
P/N	Model/Size	Description
3227961*	TR2430LP3THD	2.25" Y Dimension - Welded Yoke
3233961*	TR3030LP3THD	2.25" Y Dimension - Welded Yoke

3 Year Warranty - Heavy Duty Long Stroke Brake Chambers		
P/N	Model/Size	Description
3226951	TR2430LP3HD	2.25" Y Dimension - Welded Yoke
3232951	TR3030LP3HD	2.25" Y Dimension - Welded Yoke

3 Year Warranty - Service Chambers		
P/N	Model/Size	Description
1617901	CS16LH	Type 16 Service Chamber - Sealed - 2.25" Y Dimension - Welded Yoke
1621901	CS20L	Type 20 Service Chamber - Sealed - 2.25" Y Dimension - Welded Yoke
1428901	C24L3	Type 24 Service Chamber - 2.25" Y Dimension - Welded Yoke - 3.00" Long Stroke
1431901	C30L3	Type 30 Service Chamber - 2.25" Y Dimension - Welded Yoke - 3.00" Long Stroke

## HEAVY DUTY/SEVERE SERVICE APPLICATIONS

Heavy Duty Brake Chambers						
Model/Size	Standard Stroke			Long Stroke		
		TR3030HD	TR3030THD	TR3030TSHD	TR3030LP3HD	TR3030LP3THD
Threaded Rod	3630051	3631051	3533051	3232051	3233051	3534051
Welded Yoke	N/A	N/A	N/A	3232951	3233961*	3534961*

Model/Size	TR3036HD	TR3036THD	TR3036TSHD	TR3036LP3HD	TR3036LP3THD	TR3036LP3TSHD
Threaded Rod	3433051	3432051	3532051	3234051	3235051	N/A
Welded Yoke	3433951	3432951	3532951	3234951	3235951	N/A

Model/Size	TR3636HD	TR3636THD	TR3636TSHD	TR3636LP3HD	TR3636LP3THD	TR3636LP3TSHD
Threaded Rod	3437051	3436051	3536051	N/A	N/A	N/A
Welded Yoke	3437951	3436951	N/A	N/A	N/A	N/A

NOTE: \* Model comes with stainless steel clevis pin and cut to fit breather tube.

## FIRE TRUCK APPLICATIONS

Model/Size	TR3030LP3HD	TR3036L3	MJS3024ET	MJS3028ET	MJS3030ET	MJS3628ET
P/N Combination SAE	3232051	3234051	MJS3024ET051	MJS3028ET051	MJS3030ET051	MJS3628ET051
P/N Piggyback + Kit SAE	3232008	3234008	MJS3024ET008	MJS3028ET008	MJS3030ET008	MJS3628ET008
Stroke	3.00"	3.00"	3.00"	3.00"	3.00"	3.00"

## HENDRICKSON INTRAAX & VANTRAAX SUSPENSION APPLICATIONS

P/N	Model	Stroke	Description
3230551	TR3030LP3	3.00" Long Stroke	5/8" x 12" Push-Rod, 5" threaded
3230555	TR3030LP3	3.00" Long Stroke	5/8" x 12" Fully Threaded Push-Rod: can be used to replace 3230051 and 3230551
3230957	TR3030LP3	3.00" Long Stroke	5/8" x 11.10" Push-Rod w/Welded Yoke
3231551	TR3030LP3T	3.00" Long Stroke	5/8" x 12" Push-Rod, 5" threaded
3231555	TR3030LP3T	3.00" Long Stroke	5/8" x 12" Fully Threaded Push-Rod: can be used to replace 3231051 and 3231551
3231959	TR3030LP3T	3.00" Long Stroke	5/8" x 11.10" Push-Rod w/Welded Yoke
3232551	TR3030LP3HD	3.00" Long Stroke	5/8" x 12" Push-Rod, 5" threaded
3430551	TR3030	2.50" Standard Stroke	5/8" x 12" Push-Rod, 5" threaded
3430555	TR3030	2.50" Standard Stroke	5/8" x 12" Fully Threaded Push-Rod: can be used to replace 3430051 and 3430551
3430957	TR3030	2.50" Standard Stroke	5/8" x 11.10" Push-Rod w/Welded Yoke
3431551	TR3030T	2.50" Standard Stroke	5/8" x 12" Push-Rod, 5" threaded
3431555	TR3030T	2.50" Standard Stroke	5/8" x 12" Fully Threaded Push-Rod: can be used to replace 3431051 and 3431551
3431959	TR3030T	2.50" Standard Stroke	5/8" x 11.10" Push-Rod w/Welded Yoke
3432551	TR3036T	2.50" Standard Stroke	5/8" x 12" Push-Rod, 5" threaded
3436551	TR3636T	3.00" Standard Stroke	5/8" x 12" Push-Rod, 5" threaded

NOTE: MGM offers more model sizes in Hendrickson Intraax/Vantraax suspension applications. Please refer to our website or contact your local sales representative for more details.

NOTE: FOR THOSE USING 2-PIN SLACK ADJUSTERS, PLEASE NOTE: The welded yoke chambers have a measurement between the pins on the welded yoke of 1.30". If the vehicle's original manufacturer's clevis has a measurement other than 1.30", the welded yoke chamber cannot be used and a threaded rod chamber with a clevis utilizing the proper pin spacing recommended by the vehicle's manufacturer should be used instead.

## SERVICE PARTS

Stainless Steel Clevis Pins		Weatherseal Plug	
Single Pin	Two Pin	P/N	Used on
8038007P 1/2"	9038004P 1/2" & 1/4"	9019005P	ALL TR, TR-T, TR-TS SIZES EXCEPT 3036 & 3636
8038008P 5/8"	9038003P 5/8" & 1/4"	9019006P	3036, 3636 MODELS

NOTE: Bulk packs available. Use 'X' suffix in place of 'P'



Diaphragms and Clamp Bands					
Type	Stroke	Diaphragm P/N	Outside Diameter	Single Clamp	Double Clamp
16	2.25"	8017116P	6.00"	8216016P	8216018P
16L	2.50"	8017216P	6.00"	8216016P	8216018P
20	2.25"	8017120P	6.50"	8216022P	8216020P
20L	2.50"	8017220P	6.50"	8216022P	8216020P
24L	2.50"	8017141P	7.00"	9016024P	8216025P
24L3	3.00"	8017924P	7.00"	9016024P	8216025P
30	2.50"	8017730P	8.00"	9016030P	8216045P
30L3	3.00"	8017830P	8.00"	9016030P	8216045P
36	3.00"	8017836P	9.00"	N/A	8216036P