



# What's New for 2018

## The latest Engine Brake technology and updates



**X15** – The 2017 X15 engine brake has been optimized to improved braking horsepower by 10% in the optimal rpm range of 1200-1500 RPM.

**X12** – A tune up kit is now available for the X12 (P/N 4376508). An engine brake upfit kit is also available (P/N 4309432).

**Brake Upfit Instructions** – Cummins authorized distributors can use the link below to access IMS parts listing work instructions.

[https://qsol.cummins.com/common/files/qsol/en/service/engine\\_brake\\_upfit\\_instructions.pdf](https://qsol.cummins.com/common/files/qsol/en/service/engine_brake_upfit_instructions.pdf)

**Aftermarket Kit** – To retrofit ISL engines with a Jacobs' Engine Brake®, Jacobs offers aftermarket kits. In addition to the kits listed below, contact your local Cummins' dealer for additional Cummins' parts required for installation.

### OPTIONS FOR ISC / ISL ENGINES

	OPTION TO BE REMOVED	OPTION TO BE INSTALLED
ISC / ISL CM2150 (2007 EPA)	BR9296	BR9297
	ER9058	ER9059
	RL9777	RL9778
	VC9361	VC9364
ISC / ISL CM2250 (2010 EPA)		EB9038
	BR9300	BR9301
	ER9142	ER9143
	RL9777	RL9778
	VC9469	VC9470
ISL CM2350 (2013 EPA)		EB9038
	BR9300	BR9301
	ER9142	ER9143
	RL9815	RL9816
	VC9469	VC9470
		EB9038

### FIND JACOBS AT THESE UPCOMING EVENTS

SHOW	LOCATION	DATES
Truckers' Jamboree	Walcott, Iowa	July 12-14
ATA MCE	Austin, TX	September 27-31



**DETROIT**

**71/92/53A Series** - Contact your local MTU dealer for genuine Jake Brake parts for aftermarket or tune-up kits.

# PACCAR

**MX11** - There is no tune-up kit available for the MX11 as it includes non-serviceable rocker arms.



**346D** - The Model 346D will be obsoleted in the 3rd quarter of 2018. There will be a limited quantity of housing assemblies available in late summer.

**336, 336A, 317D, & 317E** housings and kits are no longer available.

**CAT Application Guide** - Recently updated! Visit our Parts, Service, & Support page and select your engine and brake model.



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# NAVISTAR™

**Model 5783A** – The International A26 engine has up to a 67% increase in engine braking performance at lower engine speeds with the new Variable Geometry Turbo.

**Model 5313 & 5326 Service Letter** – Shut-off valve torque has increased for all International Maxxforce DT466E, DT570/N9, and HT570/N10 engines equipped with the Jacobs' model 5313 & 5326 bleeder brakes. Part numbers affected include Jacobs' P/N 035301, 031679, and 033527 (International P/N 1833949C1, 1844402C1, 1846608C1).

In rare cases, it has been reported that the shut-off has been found loose. This may cause a hard start/no start condition. To correct it, remove the shut-off valve from the brake rail and inspect the condition of the seals. If the seals are damaged, replace the valve. If the seals are found to be in good condition,

reinstall the shut-off valve into the brake rail and torque the valve body to the new torque of 35 lb.-ft. and the solenoid retaining nut to 4 lb.-ft. Over torquing may cause damage, resulting in loss of shut-off valve function.

For more information, visit Jacobs Parts, Service, and Support page to find Service Letter 2018-0001.

All your parts, cross-references, & service questions can be answered on the Jacobs' website.

For more information, visit [www.jacobsvehiclesystems.com/parts-service-support](http://www.jacobsvehiclesystems.com/parts-service-support).

Find us on



### SOLENOID REFERENCE GUIDE

#### CURRENT 12VDC SOLENOID VALVES, TYPE I

JACOBS PART NUMBER	DESCRIPTION	CAT	CUMMINS	MODELS USED
1020997	12VDC, D/L, V-BLADE	N/A	4026538	Model 129, Intebrake
1024610	12VDC, D/L, H-BLADE	163-1533	3871711	Models 310A, 312A, 340A/B/C/D/E, 411C
1024612	12VDC, S/L, SCREW	N/A	N/A	Models 71/92A, 760A/B, 750A/B, 765A, 770, 790 (All), 765, 797A, C346D
1024613	12VDC, S/L H-BLADE	163-1550	3871707	Models 53A, 71/92, 317A/B/C/E, 404B/BG/D, 411D/E, 425A, 430, 440A, 450A/B, 455B/C
1024614	12VDC, S/L V-BLADE	163-1547	4024759	Models C336A, C346A/B/C, 349A, 490A, 610, 680A/B, 690B, Intebrake
1034737	12VDC, D/L, SCREW	N/A	N/A	797B

#### CURRENT 12VDC SOLENOID VALVES, TYPE II

JACOBS PART NUMBER	DESCRIPTION	CUMMINS	DAIMLER	NAVISTAR	PACCAR	MODELS USED
1039012	12VDC, D/L	3686406	N/A	N/A	N/A	460 / Intebrake A
039895	12VDC, D/L	N/A	N/A	3008453C1	N/A	5783 / 5783A
1034302	12VDC, D/L	N/A	A4721530759	N/A	N/A	721
041152	12VDC, D/L	N/A	N/A	N/A	1889796	MX-11

#### ELECTRICAL SPECIFICATIONS

COIL	ACCEPTABLE RESISTANCE (Ω @ 77°F)	MINIMUM OPERATING VOLTAGE	MAXIMUM OPERATING VOLTAGE
12 Volt Coil	8.7-10.0	9.0	14.0
24 Volt Coil	32.6-39.8	18.0	32.0