



## Jacobs Engine Brake | Intebrate

### For the **CUMMINS X15 Engine**

Jacobs and Cummins engineers have improved the already industry-leading performance of the integrated Jake Brake® for the 15L engine. The 2020 X15 engine offers the highest level of engine braking performance for heavy duty engines in North America.

For 2020, the X15 engine's control strategy has been optimized to maintain industry-leading engine brake performance while using a fuel-efficient turbo charger. With a simple downshift to increase the engine speed, the engine brake in the X15 Performance Series will deliver a retarding force of up to 600 HP of braking at 2100 rpm.

#### FEATURES

- Jacobs trademark Jake Brake®
- Dedicated Cam Lobe design for optimum power
- Braking horsepower levels to 600 HP
- Matches engine base standard warranty
- Three-stage engine brake operation, low/med/high
- Certified and approved by the engine manufacturer
- Fully integrated with engine electronic controls and with vehicle ABS for greater driver control
- Factory installed
- Quieter performing brake
- Standard on all automotive engines



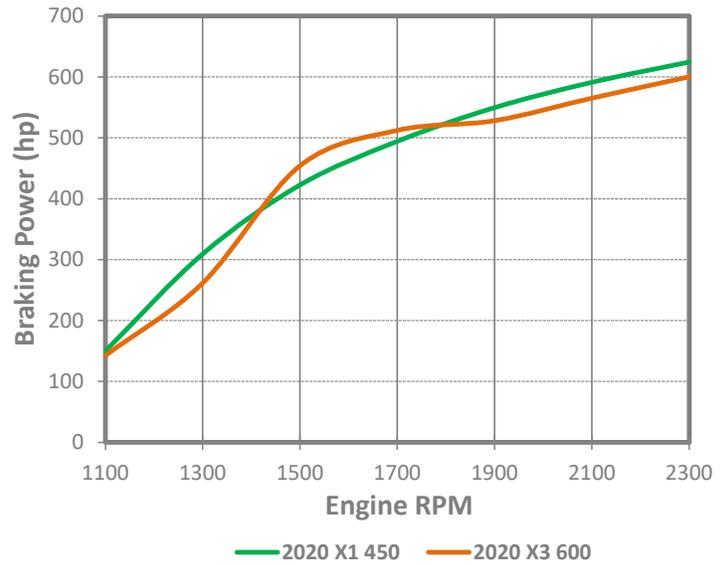
## Jacobs® Intebrake for the CUMMINS X15 Engine

### Braking Performance by Model

RPM	2021		2020		2017		2013		2010
	X1	X3	X1	X3	X1	X3	X1	X3	X1
1100	146	143	150	183	214	155	155	124	122
1300	320	262	309	305	331	293	320	279	283
1500	418	454	423	467	409	425	419	397	403
1700	469	512	494	525	504	492	482	486	490
1900	553	528	550	550	545	545	539	540	540
2100	594	565	591	612	576	588	562	593	591
2300	628	600	624	627	604	609	593	621	616

*Important Note: Horsepower values in table are raw horsepower numbers. Rated engine speed is 1800 rpm; governed speed is 2030 rpm.*

### Braking Performance



### Technical Specifications

Running Clearance	0.025 - .110 in.
Tune-up Kit	P/N 2882081
Feeler Gage	P/N 3163530
Rocker Units Per Engine	6
Kit Added Weight*	20 lbs. or 9.0 kg.
Lash Setting	0.2756 in. or 7.0 mm

*\*No aftermarket kit is available*

### Serviceable Part Numbers

#### Type I Solenoid - EPA Model Year 2007 and Earlier

12 VDC S/L V-Blade	P/N 4024759
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12 VDC D/L V-Blade	P/N 3871710
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#### Type II Solenoid - EPA Model Year 2010 and Later

12 VDC S/L V-Blade	P/N 3686406
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### Engine Brake Warranty

Will match the basic warranty mutually agreed by Jacobs and the engine manufacturer up to the maximum of 2 years or 250,000 miles (400,000 km), whichever comes first.

**ALL claims for warranty are submitted through Cummins and will be subject to the limitations of the agreement.**