



SERVICE BULLETIN



October, 2025

Subject: **High Altitude / Sea Level Specifications (CAN/USA)**

No. **2026-1001**

MODEL YEAR	MODEL
2026	All Lynx

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GENERAL INFORMATION

Previous Model Year Vehicles

This bulletin supplies all the information required to modify current year vehicles for high altitude and/or sea level riding.

MODEL YEAR	LATEST REVISION OF BULLETIN NO.
2026	2026-1001
2025	2025-1001
2024	2024-1001
2023	2023-1001
2022	2022-1001

NOTE: Throughout this entire document, shaded areas give factory settings (that could apply through different altitudes) while N/A stands for “not applicable”.

NOTICE The following modifications and adjustments apply for high altitude operation as well as sea level operation.

PARTS AND LABOR ARE NOT COVERED BY
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Table Format

In the tables throughout this document, the shaded column gives factory setting.

ALTITUDE	
Parts to be modified	Recommended Adjustment

RAVE RE 3500 600R E-TEC

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Blue / Blue (P/N 417224013)			Purple / Yellow (P/N 417224164)		
Ramp	901 (P/N 417224626)			967 (P/N 417224225)		
Calibration cam position	3	4	5	4		5
Shim	No			0.020"		
Mass	33 mm (P/N 417224221)			26 mm / 13,1 g (P/N 417224220)		
Engagement RPM \pm 100	3400			3900		
Maximum RPM \pm 100	8100					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Green (P/N 417127137)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	41 - 45° (P/N 417127376)			43 - 47° (P/N 417127371)		

BRUTAL 20" 850 E-TEC

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Blue / Yellow (P/N 417224015)					
Ramp	982 (P/N 417224575)		904 (P/N 417224646)			
Calibration cam position	3	4	2	3	4	5
Mass	38 mm / 16,7g (P/N 417224222) + 2 mm (P/N 417224363)		26 mm / 13,1 g (P/N 417224220)			
Engagement RPM \pm 100	3000		2900			
Maximum RPM \pm 100	7900					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Green (P/N 417127137)		Blue (P/N 417127118)			
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	42 - 40° (P/N 417127772)		40° XTI (P/N 417127672)			

Chaincase Gears

BRUTAL 20"						
	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Upper gear	21 (P/N 504153910)					
Lower gear	51 (P/N 504153997)					
Chain	116 (P/N 504153397)					

RAVE RE 850 E-TEC

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Blue / Blue (P/N 417224013)		Yellow / Yellow (P/N 417224171)			
Ramp	968 (P/N 417224227)		967 (P/N 417224225)			
Calibration cam position	3	4	2	3	4	5
Mass	38 mm / 16,7g (P/N 417224222)					
Engagement RPM \pm 100	3200		3400			
Maximum RPM \pm 100	7900					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Green (P/N 417127137)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	45 - 42° (P/N 417127534)					

SHREDDER RE 3700 850 E-TEC (HIGH ALTITUDE) / SHREDDER DS 3900 850 E-TEC (HIGH ALTITUDE)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Blue / Yellow (P/N 417224015)		Blue / Purple (P/N 417224168)			
Ramp	990 (P/N 417224326)		965 (P/N 417224141)			
Calibration cam position	4	5	3	4	5	
Mass	38 mm / 16,7g (P/N 417224222) + 9 mm (P/N 417224507)		33 mm / 15,2 g (P/N 417224221)		26 mm / 13,1 g (P/N 417224220)	
Engagement RPM \pm 100	3300		3600			
Maximum RPM \pm 100	7900					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Black (P/N 417127039)		Blue (P/N 417127118)			
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	40° (P/N 417127672)					

Chaincase Gears

RE 3900 (HA) MODELS						
	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Upper gear	21 (P/N 504153910)					
Lower gear	51 (P/N 504153997)					
Chain	116 (P/N 504153397)					

DS 3900 (HA) MODELS						
	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Upper gear	21 (P/N 504153910)					
Lower gear	53 (P/N 504153998)					
Chain	116 (P/N 504153397)					

SHREDDER RE 3700 850 E-TEC (SEA LEVEL)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Blue / Yellow (P/N 417224015)		Blue / Purple (P/N 417224168)			
Ramp	990 (P/N 417224326)		965 (P/N 417224141)			
Calibration cam position	3	4	3	4	5	
Mass	38 mm / 16,7g (P/N 417224222)		33 mm / 15,2 g (P/N 417224221)		26 mm / 13,1 g (P/N 417224220)	
Engagement RPM \pm 100	3300		3800			
Maximum RPM \pm 100	7900					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Green (P/N 417127137)		Blue (P/N 417127118)			
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	44° - 42° (P/N 417127825)		40° (P/N 417127672)			

Chaincase Gears

RE 3700 MODELS						
	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Upper gear	21 (P/N 504153910)					
Lower gear	49 (P/N 504153996)					
Chain	114 (P/N 504153393)					

XTERRAIN RE 850 E-TEC

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Blue / Yellow (P/N 417224015)		Blue / Purple (P/N 417224168)			
Ramp	982 (P/N 417224575)		965 (P/N 417224141)			
Calibration cam position	3	4	3	4	5	
Mass	38 mm / 16,7g (P/N 417224222) + 2 mm (P/N 417224363)		33 mm (P/N 417224221)		26 mm / 13,1 g (P/N 417224220)	
Engagement RPM \pm 100	3000		3800			
Maximum RPM \pm 100	7900					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Green (P/N 417127137)		Blue (P/N 417127118)			
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	44 - 42° (P/N 417127825)		42 - 38° (P/N 417127693)			

RE 2.0" MODELS

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Upper gear	23 (P/N 504153911)					
Lower gear	51 (P/N 504153997)					
Chain	116 (P/N 504153397)					

**SHREDDER RE 3700 850 E-TEC TURBO R (HIGH ALTITUDE) /
 SHREDDER RE 3900 850 E-TEC TURBO R (HIGH ALTITUDE) /
 SHREDDER DS 3900 850 E-TEC TURBO R (HIGH ALTITUDE) /
 SHREDDER DS 4100 850 E-TEC TURBO R (HIGH ALTITUDE)**

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Purple / Purple (P/N 417224166)					Purple / Yellow (P/N 417224164)
Ramp	951 (P/N 417224038)		761 (P/N 417224761)			903 (P/N 417224642)
Calibration cam position	3	2	3	3	4	
Mass	38H mm (P/N 417224806) + 14 mm (P/N 417224241)	38 mm (P/N 417224222) + 2 mm (P/N 417224363)	33 mm (P/N 417224221) + 2 mm (P/N 417224363) + 3 mm (P/N 417224364)	33 mm (P/N 417224221)	38 mm (P/N 417224222) + 2 mm (P/N 417224363)	
Engagement RPM ± 100	3800					
Maximum RPM ± 100	7900					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Black (P/N 417127039)					
Spring tension Kg ± 0.7 (lb ± 1.5)	N/A					
Cam angle (degrees)	40° XTI (P/N 417127672)					

Chaincase Gears

3700 MODELS						
	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Upper gear	22 BorgWarner (P/N 504154809)					
Lower gear	51 BorgWarner (P/N 504154824)					
Chain	116 BorgWarner (P/N 504153759)					

3900 AND 4100 DS (HA) MODELS						
	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Upper gear	21 BorgWarner (P/N 504154188)					
Lower gear	53 BorgWarner (P/N 504154823)					
Chain	116 BorgWarner (P/N 504153759)					

3900 RE MODELS						
	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Upper gear	21 BorgWarner (P/N 504154188)					
Lower gear	51 BorgWarner (P/N 504154824)					
Chain	116 BorgWarner (P/N 504153759)					

RAVE RE 850 E-TEC TURBO R (WATER INJECTION)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring		Purple / Purple (P/N 417224166)		Purple / Blue (P/N 417224165)		
Ramp		978 (P/N 417224763)		984 (P/N 417224573)		
Calibration cam position		3	4	2		3
Mass		33 mm (P/N 417224221) + 2 mm (P/N 417224363) + 4 mm (P/N 417224365)			33 mm (P/N 417224221)	
Shim		Yes (417224757)				
Engagement RPM \pm 100		4000				
Maximum RPM \pm 100		7900				

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring		Green (P/N 417127137)				
Spring tension Kg \pm 0.7 (lb \pm 1.5)		N/A				
Cam angle (degrees)		47 - 44° XTI (P/N 417126963)				

Chaincase Gears

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Upper gear		27 (P/N 504153913)				
Lower gear		49 (P/N 504153996)				
Chain		112 (P/N 504153268)				

XTERRAIN RE 850 E-TEC TURBO R (WATER INJECTION)

Drive Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Blue / Blue (P/N 417224013)		Purple / Blue (P/N 417224165)			
Ramp	951 (P/N 417224038)		984 (P/N 417224573)			
Calibration cam position	2	4	2		3	
Mass	38 mm / 16,7g (P/N 417224222) + 2 mm (P/N 417224363)			26 mm / 13,1 g (P/N 417224220) + 2 mm (P/N 417224363)		
Shim	Yes (P/N 417224757)					
Engagement RPM \pm 100	3800					
Maximum RPM \pm 100	7900					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Green (P/N 417127137)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	44 - 42° (P/N 417127825)		40° (P/N 417127672)			

Chaincase Gears

RE MODELS						
	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Upper gear	25 (P/N 504153912)					
Lower gear	49 (P/N 504153996)					
Chain	116 (P/N 504153397)					

BRUTAL RE 20” 900 ACE TURBO R

Drive Pulley

NOTE: The factory calibration is suitable for all altitudes. The turbocharger compensates for the lack of oxygen at high altitude.

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Blue / Purple (P/N 417224168)					
Ramp	880 (P/N 417224290)					
Engagement RPM \pm 100	2100					
Maximum RPM \pm 100	7800					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Green (P/N 417127137)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	47° - 40° (P/N 417127756)					

BRUTAL RE 15" 900 ACE TURBO R

XTERRAIN RE 900 ACE TURBO R

Drive Pulley

NOTE: The factory calibration is suitable for all altitudes. The turbocharger compensates for the lack of oxygen at high altitude.

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Purple / White (P/N 417224167)					
Ramp	880 (P/N 417224290)					
Engagement RPM \pm 100	2700					
Maximum RPM \pm 100	7900					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Green (P/N 417127137)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	47° - 40° (P/N 417127756)					

COMMANDER RE 900 ACE TURBO R

Drive Pulley

NOTE: The factory calibration is suitable for all altitudes. The turbocharger compensates for the lack of oxygen at high altitude.

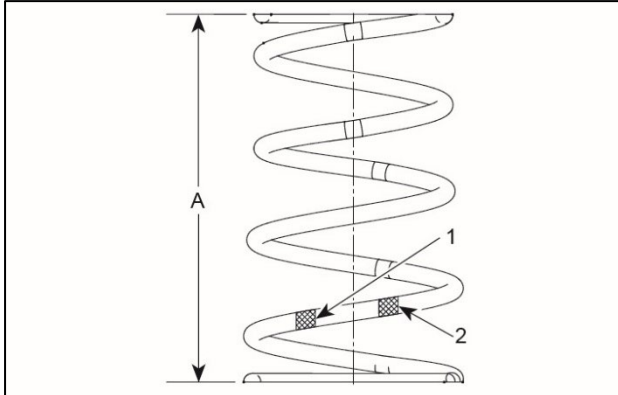
	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Red / Blue (P/N 417224330)					
Ramp	880 (P/N 417224290)					
Engagement RPM \pm 100	2100					
Maximum RPM \pm 100	7800					

Driven Pulley

	SEA LEVEL 0 M (0 FT)	600 M (2000 FT)	1200 M (4000 FT)	1800 M (6000 FT)	2400 M (8000 FT)	3000 M (10000 FT)
Spring	Green (P/N 417127137)					
Spring tension Kg \pm 0.7 (lb \pm 1.5)	N/A					
Cam angle (degrees)	47° - 40° (P/N 417127756)					

OPTIONAL DRIVE PULLEY SPRING RATES AND SPECIFICATIONS

The springs for TRA pulleys cannot be installed on eDrive II nor eDrive II LC.



TYPICAL – COLOR CODE

- 1. 1st color
- 2. 2nd color

SPRING SPECIFICATIONS							
PART NUMBER	WIRE DIA.	FREE LENGHT	LOAD ± 10% WHEN "B" = 79.4 MM		LOAD ± 10% WHEN "B" = 45.0 MM		COLOR CODE
	MM		N	LBS	N	LBS	
417224015	5.72	123.0	667	150	1112	250	Blue/Yellow
417224164	5.38	143.1	756	170	1112	250	Purple/Yellow
417224166	6.35	106.7	756	170	1557	350	Purple/Purple
417224167	6.65	99.0	756	170	1780	400	Purple / White
417224168	6.35	100.3	667	150	1557	350	Blue/Purple
417224171	5.94	105.6	534	120	1112	250	Yellow/Yellow
417224172	6.35	96.6	534	120	1334	300	Yellow/Blue