

Table 1 - belt length and idler pulley diameters required for different LSA supercharger pulley and damper pulley combinations.

Crank Pulley PN (Crank only OD%)	Supercharger Pulley	Supercharger Pulley PN	Belt length	Belt PN (imperial)	Belt PN (metric)	Upper Idler	Lower Idler	Idler Bracket (PN)	Pulley Ratio	Total OD%	SC Speed @ 6500 RPM Engine Speed
stock 7.8" (L220646509) (0%)	stock 3.0"	*	stock 1680mm	12628026 (GM)		stock 90 mm	stock 70 mm	stock	2.6	N/A	16,900
	2.55" press-on	L220030709	1655mm/65.2"	K080653	8PK1655				3.1	18%	19,900
	2.55" 10 bolt	L220300709	1643mm/64.5"	K080645	8PK1643				3.3	26%	21,300
	2.38" 10 bolt	L220310709									
8.25" L220060709 (6%)	stock 3.0"	*	stock 1680mm	12628026 (GM)		stock 90 mm	stock 70 mm	stock	2.8	6%	17,900
	2.55" press-on	L220030709	66.0"	K080660	8PK1676				3.2	25%	21,000
	2.55" 10 bolt	L220300709				3.5			34%	22,500	
	2.38" 10 bolt	L220310709	stock 1680mm	12628026 (GM)		LPE 100 mm, 0.350" spacer, M10x1.5x60mm cap head screw					
8.66" L220070709 (11%)	stock 3.0"	*	67.5"	K080675	8PK1715	stock 90 mm	stock 70 mm	stock	2.9	11%	18,800
	2.55" press-on	L220030709	67.0"	K080670	8PK1702				3.4	31%	22,100
	2.55" 10 bolt	L220300709	67.0"	K080670	8PK1702				3.6	40%	23,700
	2.38" 10 bolt	L220310709									
9.17" L220170709 (18%)	stock 3.0"	*	68.0"	K080680	8PK1727	stock 90 mm	stock 70 mm	LPE (L220636509)	3.1	18%	19,900
	2.55" press-on	L220030709	67.5"	K080675	8PK1715				3.6	38%	23,400
	2.55" 10 bolt	L220300709	67.5"	K080675	8PK1715				3.9	48%	25,000
	2.38" 10 bolt	L220310709	67.5" 67.0" (tight)	K080675 K080670	8PK1715 8PK1702						
9.55" L220290709 (23%)	stock 3.0"	*	69.0"	K080690	8PK1753	stock 90 mm	stock 70 mm	LPE (L220636509)	3.2	23%	20,700
	2.55" press-on	L220030709	68.5"	K080685	8PK1742				3.8	44%	24,300
	2.55" 10 bolt	L220300709	68.0" (tight)	K080680	8PK1727				4.0	54%	26,000
	2.38" 10 bolt	L220310709	68.0"	K080680	8PK1727						
10.0" L220380709 (28%)	stock 3.0"	*	70.8" 70.0" (tight)	K080708 K080700	8PK1797 8PK1775	stock 90 mm	stock 70 mm	LPE (L220636509)	3.3	28%	21,700
	2.55" press-on	L220030709	69.6"	K080696	(-)				3.9	51%	25,500
	2.55" 10 bolt	L220300709	69.0" (tight)	K080690	8PK1753				4.2	62%	27,300
	2.38" 10 bolt	L220310709	69.0"	K080690	8PK1753						
9.73" 10 rib L220450709 (requires 10 rib tensioner pulley)	2.70" 10 rib	XX03873-0004 (tensioner pulley PN L220620709)	67.5"	K100675	10PK1715	LPE 76 mm, 0.350 spacer, M10x1.5x60mm cap head screw	LPE 76 mm, 0.200 spacer, M10x1.5x60mm cap head screw	LPE (L220636509)	3.5	35%	22,800
Magnuson Heartbeat with 9.17" L220170709 (18%)	2.95" 8 rib	Included with Magnuson LSA TVS2300 Heartbeat Kit	68.0"	K080680	8PK1727	-	-	LPE (L220636509)	3.1	N/A	20,100

- Supercharger speeds above 23,000 RPM are not recommended. To calculate supercharger speed, multiply your maximum engine speed by the pulley ratio value listed above.
- Pulley ratios above 35% should only be used in applications with proportionally lower maximum engine speeds (below 6500 RPM).
- For applications where the crank pulley diameter is greater than or equal to 9.17", LPE idler relocation bracket (PN: L220636509) is required in order to provide enough clearance between the crank pulley and the lower idler pulley. For bearing durability reasons LPE does not recommend using idler pulleys smaller than 70mm.
- An LPE idler pulley is required for these pulley/belt combinations.

*A stock diameter 10 bolt pulley is also available from LPE, PN L220600709