

Harrop LSA Style FEAD Tensioner (*Part # 99-ATEN15259*)

- The Harrop tensioner is manufactured from billet 6061 aluminium making it stronger than the cast OEM.
- The tensioner has 10 degrees more radial travel than the OEM providing more flexibility for given belt lengths.
- The tensioner is fitted with a heavier spring providing up to 40% greater load at full travel when compared to the OEM tensioner.
- The above features make the tensioner well suited for the wider 10PK and 12PK belt drives minimising slip however it can still be used with an OEM 8PK pulley.



12PK LSA FEAD for Harrop H2650i (*Idler Mount Part # 99-AMNT15279*)

- The Harrop 12PK drive system has been designed to fit the standard ATI balancer available for the LSA engine.
- There are 2 crank pulleys available and when combined with the supercharger drive pulley will provide progressive increase in supercharger RPM, refer to 12PK H2650i table.
- The new 3 idler mount provides increased belt wrap on the supercharger pulley again minimising slip.
- With the limited belts available this system must use the Harrop tensioner and in combination with different tensioner pulley diameters to provide enough tensioner travel/tension, refer to table1 for required combinations.



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12PK H2650i Table:

Note that the pulley combinations and belt lengths are based on standard LSA block and heads, non-standard deck heights may effect these configurations. Supercharger RPM is based on an engine speed of 6600.

Crank Pulley (Part #)	S/C Pulley (Part #)	Tensioner Pulley (Part #)	Belt Length	Drive Ratio	S/C Speed
Ø205 (99-PLY15270)	Ø90 (99-PLY15232)	Ø70 (99-APLY15316)	1727	2.28	15033
Ø205 (99-PLY15270)	Ø85 (99-PLY15231)	Ø70 (99-APLY15316)	1727	2.41	15918
Ø205 (99-PLY15270)	Ø80 (99-PLY15230)	Ø75 (99-APLY15315)	1727	2.56	16913
Ø205 (99-PLY15270)	Ø75 (99-PLY15229)	Ø80 (99-APLY15266)	1727	2.73	18040
Ø205 (99-PLY15270)	Ø70 (99-PLY15228)	Ø80 (99-APLY15266)	1727	2.93	19329
Ø254 (99-PLY15271)	Ø85 (99-PLY15231)	Ø70 (99-APLY15316)	1831	2.99	19722
Ø254 (99-PLY15271)	Ø80 (99-PLY15230)	Ø75 (99-APLY15315)	1831	3.18	20955
Ø254 (99-PLY15271)	Ø75 (99-PLY15229)	Ø75 (99-APLY15315)	1831	3.39	22352
Ø254 (99-PLY15271)	Ø70 (99-PLY15228)	Ø80 (99-APLY15266)	1831	3.63	23949

10PK LSA FEAD for Harrop FDFI LS variants (Idler Mount Part # 99-AMNT15039)

- The 10PK FEAD system is a generic upgrade from the Harrop 8PK that has been on the market for some years. There are only 2 main differences:
 - The idler mount is designed to suit the wider 10PK belt.
 - The lower pulley has moved upward to enable the larger balancer pulley to be installed.
- The Harrop 10PK drive system has been designed to fit the standard ATI balancer available for the LSA engine.
- Due to the availability of belts the larger balancer pulley is 9mm smaller (245mm 23% *overdrive*) than the one offered on the H2650i.
- There is only one tensioner pulley diameter used in this configuration, refer to the following tables for pulley part numbers.



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The following 6 tables are current variants available, please ensure you refer to the correct table for pulley part numbers:

FDFI 2650 Variants

Note that the pulley combinations and belt lengths are based on standard LSA block and heads, non-standard deck heights may effect these configurations. Supercharger RPM is based on an engine speed of 6600.

10PK LSA drive FDFI2650 standard manifold assembly

Crank Pulley (Part #)	S/C Pulley (Part #)	Tensioner Pulley (Part #)	Belt Length	Drive Ratio	S/C Speed
Ø205 (99-PLY15295)	Ø85 (99-PLY15095)	Ø80 (99-APLY15547)	1893	2.41	15918
Ø205 (99-PLY15295)	Ø80 (99-PLY15094)	Ø80 (99-APLY15547)	1880	2.56	16913
Ø205 (99-PLY15295)	Ø75 (99-PLY15093)	Ø80 (99-APLY15547)	1880	2.73	18040
Ø205 (99-PLY15295)	Ø70 (99-PLY15092)	Ø80 (99-APLY15547)	1860	2.93	19329
Ø205 (99-PLY15295)	Ø65 (99-PLY15091)	Ø80 (99-APLY15547)	1845	3.15	20815
Ø245 (99-PLY15296)	Ø85 (99-PLY15095)	Ø80 (99-APLY15547)	1980	2.88	19024
Ø245 (99-PLY15296)	Ø80 (99-PLY15094)	Ø80 (99-APLY15547)	1980	3.06	20213
Ø245 (99-PLY15296)	Ø75 (99-PLY15093)	Ø80 (99-APLY15547)	1962	3.27	21560
Ø245 (99-PLY15296)	Ø70 (99-PLY15092)	Ø80 (99-APLY15547)	1962	3.50	23100
Ø245 (99-PLY15296)	Ø65 (99-PLY15091)	Ø80 (99-APLY15547)	1943	3.77	24877

10PK LSA drive FDFI2650 with straight manifold spacer

Crank Pulley (Part #)	S/C Pulley (Part #)	Tensioner Pulley (Part #)	Belt Length	Drive Ratio	S/C Speed
Ø205 (99-PLY15295)	Ø85 (99-PLY15095)	Ø80 (99-APLY15547)	1930	2.41	15918
Ø205 (99-PLY15295)	Ø80 (99-PLY15094)	Ø80 (99-APLY15547)	1930	2.56	16913
Ø205 (99-PLY15295)	Ø75 (99-PLY15093)	Ø80 (99-APLY15547)	1920	2.73	18040
Ø205 (99-PLY15295)	Ø70 (99-PLY15092)	Ø80 (99-APLY15547)	1910	2.93	19329
Ø205 (99-PLY15295)	Ø65 (99-PLY15091)	Ø80 (99-APLY15547)	1893	3.15	20815
Ø245 (99-PLY15296)	Ø85 (99-PLY15095)	Ø80 (99-APLY15547)	2030	2.88	19024
Ø245 (99-PLY15296)	Ø80 (99-PLY15094)	Ø80 (99-APLY15547)	2030	3.06	20213
Ø245 (99-PLY15296)	Ø75 (99-PLY15093)	Ø80 (99-APLY15547)	2012	3.27	21560
Ø245 (99-PLY15296)	Ø70 (99-PLY15092)	Ø80 (99-APLY15547)	2012	3.50	23100
Ø245 (99-PLY15296)	Ø65 (99-PLY15091)	Ø80 (99-APLY15547)	1993	3.77	24877

10PK LSA drive FDFI2650 with forward offset manifold spacer

Crank Pulley (Part #)	S/C Pulley (Part #)	Tensioner Pulley (Part #)	Belt Length	Drive Ratio	S/C Speed
Ø205 (99-PLY15295)	Ø85 (99-PLY15692)	Ø80 (99-APLY15547)	1930	2.41	15918
Ø205 (99-PLY15295)	Ø80 (99-PLY15691)	Ø80 (99-APLY15547)	1930	2.56	16913
Ø205 (99-PLY15295)	Ø75 (99-PLY15690)	Ø80 (99-APLY15547)	1920	2.73	18040
Ø205 (99-PLY15295)	Ø70 (99-PLY15689)	Ø80 (99-APLY15547)	1910	2.93	19329
Ø205 (99-PLY15295)	Ø65 (99-PLY15688)	Ø80 (99-APLY15547)	1893	3.15	20815
Ø245 (99-PLY15296)	Ø85 (99-PLY15692)	Ø80 (99-APLY15547)	2030	2.88	19024
Ø245 (99-PLY15296)	Ø80 (99-PLY15691)	Ø80 (99-APLY15547)	2030	3.06	20213
Ø245 (99-PLY15296)	Ø75 (99-PLY15690)	Ø80 (99-APLY15547)	2012	3.27	21560
Ø245 (99-PLY15296)	Ø70 (99-PLY15689)	Ø80 (99-APLY15547)	2012	3.50	23100
Ø245 (99-PLY15296)	Ø65 (99-PLY15688)	Ø80 (99-APLY15547)	1993	3.77	24877