



Cylinder Application Chart and Cross-Reference



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Cylinder Application Chart

OEM	Engine Model	Cyl. Class	New TITAN® Cylinders Nickel Barrels – TISN		New TITAN® Cylinders Steel Barrels – TIST		ECi Freedom™ Brand Repaired Cylinders	
			ECi P/N	OEM P/N	ECi P/N	OEM P/N	Nickel (FRCN) ECi P/N	Steel (FRST) ECi P/N
LYC	O-235-C1, C1A, C1B, C1C, C2A, C2B, C2C, E1, E1B, E2A, H2C	01.0	n/a	05K23039	n/a	05K23039	FRCN01.0CA	FRST01.0CA
LYC	O-235-E2B, F1, F1B, F2A, F2B, G1, G1A, G1B, G2A, G2B, J2A, J2B	01.1	n/a	05K23040	n/a	05K23040	FRCN01.1CA	FRST01.1CA
LYC	O-235-K2A, K2B, K2C, L2A, L2C, M1, M2, M2C, M3C	01.2	n/a	05K23037	n/a	05K23037	FRCN01.2CA	FRST01.2CA
LYC	O-235-N2A, N2C, P1, P2A, P2C, P3C	01.3	n/a	05K23038	n/a	05K23038	FRCN01.3CA	FRST01.3CA
LYC	O-290-11, D	02.0	n/a	71831	n/a	71831	FRCN02.0CA	FRST02.0CA
LYC	O-290-D2, D2A	03.0	n/a	71837	n/a	71837	FRCN03.0CA	FRST03.0CA
LYC	O-290-D2B, D2C	03.1	n/a	n/a	n/a	n/a	FRCN03.1CA	FRST03.1CA
LYC	AEIO-320-E1A, E1B, E2A, E2B (Wide Deck)	04.0	TISN04.0CA	05K21237-A	TIST04.0CA	05K21237-A	FRCN04.0CA	FRST04.0CA
LYC	AEIO-320-D1B, D2B (Wide Deck)	04.1	TISN04.1CA	05K21100	TIST04.1CA	05K21100	FRCN04.1CA	FRST04.1CA
LYC	AIO-320-A1A, A1B, A2A, A2B, B1B, C1B (Wide Deck)	04.1	TISN04.1CA	05K21100	TIST04.1CA	05K21100	FRCN04.1CA	FRST04.1CA
LYC	IO-320-A1A, A2A, E1A, E1B, E2A, E2B (Wide Deck)	04.0	TISN04.0CA	05K21237-A	TIST04.0CA	05K21237-A	FRCN04.0CA	FRST04.0CA
LYC	IO-320-B1A, B1B, B1C, B1D, B1E, B2A, C1B, D1A, D1AD, D1B, D1C (Wide Deck)	04.1	TISN04.1CA	05K21100	TIST04.1CA	05K21100	FRCN04.1CA	FRST04.1CA
LYC	IO-320-C1A, C1B, C1F, F1A (Wide Deck)	05.0	TISN05.0CA	05K21242	TIST05.0CA	05K21242	FRCN05.0CA	FRST05.0CA
LYC	IO-320-A1A, A2A (Narrow Deck)	06.0	TISN06.0CA	05K21423-A	TIST06.0CA	05K21423-A	FRCN06.0CA	FRST06.0CA
LYC	IO-320-B1A, B1B (Narrow Deck)	07.0	TISN07.0CA	05K21101	TIST07.0CA	05K21101	FRCN07.0CA	FRST07.0CA
LYC	LIO-320-B1A (Wide Deck)	04.1	TISN04.1CA	05K21100	TIST04.1CA	05K21100	FRCN04.1CA	FRST04.1CA
LYC	LIO-320-C1A (Wide Deck)	05.0	TISN05.0CA	05K21242	TIST05.0CA	05K21242	FRCN05.0CA	FRST05.0CA
LYC	LIO-320-B1A (Narrow Deck)	07.0	TISN07.0CA	05K21101	TIST07.0CA	05K21101	FRCN07.0CA	FRST07.0CA
LYC	O-320-A1B, A2B, A2C, A2D, A3A, A3B, C2B, C2C, C3B, C3C, E1A, E1B, E1C, E1F, E1J, E2A, E2B, E2C, E2D, E2E, E2F, E2G, E2H, E3D, E3H (Wide Deck)	04.0	TISN04.0CA	05K21237-A	TIST04.0CA	05K21237-A	FRCN04.0CA	FRST04.0CA
LYC	O-320-B2B, B2C, B2D, B2E, B3B, B3C, D1A, D1B, D1C, D1D, D1F, D2A, D2B, D2C, D2F, D2G, D2H, D2J, D3G (Wide Deck)	04.1	TISN04.1CA	05K21100	TIST04.1CA	05K21100	FRCN04.1CA	FRST04.1CA
LYC	O-320-(no suffix), A1A, A2A, A2B, A2C, A3A, A3B, A3C, E1A, E1B, E2A, E2C (Narrow Deck)	06.0	TISN06.0CA	05K21423-A	TIST06.0CA	05K21423-A	FRCN06.0CA	FRST06.0CA
LYC	O-320-B1A, B1B, B2A, B2B, B3A, B3B, B3C, D1A, D1B, D2A, D2B, D2C (Narrow Deck)	08.0	TISN08.0CA	05K21101	TIST08.0CA	05K21101	FRCN08.0CA	FRST08.0CA
LYC	O-320-C1A, C1B, C2A, C2B, C3A, C3B, C3C (Narrow Deck)	08.0A	TISN08.0ACA	n/a	TIST08.0ACA	n/a	FRCN08.0ACA	FRST08.0ACA



Cylinder Application Chart

OEM	Engine Model	Cyl. Class	New TITAN® Cylinders Nickel Barrels – TISN		New TITAN® Cylinders Steel Barrels – TIST		ECi Freedom™ Brand Repaired Cylinders	
			ECi P/N	OEM P/N	ECi P/N	OEM P/N	Nickel (FRCN) ECi P/N	Steel (FRST) ECi P/N
LYC	O-320-H1AD, H1BD, H2AD, H2BD, H3AD, H3BD	41.0	n/a	05K21119	n/a	05K21119	FRCN41.0CA	FRST41.0CA
LYC	O-340-A1A, A1B, A2A (Narrow Deck)	09.0A	n/a	n/a	n/a	n/a	FRCN09.0ACA	FRST09.0ACA
LYC	O-340-B1A, B2A (Narrow Deck)	09.0B	n/a	LW12420	n/a	LW12420	FRCN09.0BCA	FRST09.0BCA
LYC	(T)IO-360-A3B6D (Wide Deck)	14.0	n/a	05K21118	n/a	05K21118	FRCN14.0CA	FRST14.0CA
LYC	(T)IO-360-C1F (Wide Deck)	14.5	n/a	05K21278	n/a	05K21278	FRCN14.5CA	FRST14.5CA
LYC	AEIO-360-B1B (Narrow Deck)	10.1	TISN10.1CA	05K21102	TIST10.1CA	05K21102	FRCN10.1CA	FRST10.1CA
LYC	AEIO-360-B1B, B1D, B1F, B1F6, B1G6, B1H, B2F, B2F6, B4A, H1A, H1B (Wide Deck)	12.0	TISN12.0CA	05K21104	TIST12.0CA	05K21104	FRCN12.0CA	FRST12.0CA
LYC	AEIO-360-A1A, A1B, A1B6, A1B6D, A1C, A1D, A1D6, A1E, A1E6, A2A, A2B, A2C, A3B6D (Wide Deck)	13.0	n/a	05K21120	n/a	05K21120	FRCN13.0CA	FRST13.0CA
LYC	AIO-360-A1A, A1B, A2A, A2B, B1B (Wide Deck)	13.0	n/a	05K21120	n/a	05K21120	FRCN13.0CA	FRST13.0CA
LYC	HIO-360-B1A, B1B (Narrow Deck)	10.1	TISN10.1CA	05K21102	TIST10.1CA	05K21102	FRCN10.1CA	FRST10.1CA
LYC	HIO-360-A1A (Narrow Deck)	11.1	n/a	05K21224	n/a	05K21224	FRCN11.1CA	FRST11.1CA
LYC	HIO-360-B1A, B1B, G1A (Wide Deck)	12.0	TISN12.0CA	05K21104	TIST12.0CA	05K21104	FRCN12.0CA	FRST12.0CA
LYC	HIO-360-A1A, A1B, C1A, C1B (Wide Deck)	13.2	n/a	05K21281	n/a	05K21281	FRCN13.2CA	FRST13.2CA
LYC	HIO-360-D1A (Wide Deck)	13.3	n/a	05K21124	n/a	05K21124	FRCN13.3CA	FRST13.3CA
LYC	HIO-360-E1AD, E1BD, F1AD (LW-13358 Piston)	14.2	n/a	05K21275	n/a	05K21275	FRCN14.2CA	FRST14.2CA
LYC	HIO-360-E1AD, E1BD, F1AD (LW-14610 Piston)	14.3	n/a	05K21274	n/a	05K21274	FRCN14.3CA	FRST14.3CA
LYC	HO-360-A1A, B1A, B1B (Narrow Deck)	10.1	TISN10.1CA	05K21102	TIST10.1CA	05K21102	FRCN10.1CA	FRST10.1CA
LYC	HO-360-C1A (Wide Deck)	12.0	TISN12.0CA	05K21104	TIST12.0CA	05K21104	FRCN12.0CA	FRST12.0CA
LYC	IO-360-B1A, B1B, B1C (Narrow Deck)	10.1	TISN10.1CA	05K21102	TIST10.1CA	05K21102	FRCN10.1CA	FRST10.1CA
LYC	IO-360-A1A (Narrow Deck)	11.0	n/a	05K21112	n/a	05K21112	FRCN11.0CA	FRST11.0CA
LYC	IO-360-B1B, B1BD, B1D, B1E, B1F, B1F6, B1G6, B2E, B2F, B2F6, B4A, E1A, L2A, M1A, M1B (Wide Deck)	12.0	TISN12.0CA	05K21104	TIST12.0CA	05K21104	FRCN12.0CA	FRST12.0CA
LYC	IO-360-A1A, A1B, A1B6, A1B6D, A1C, A1C6, A1D, A1D6, A1D6D, A2A, A2B, A2C, A3B6, A3B6D, A3D6D, C1A, C1B, C1C, C1C6, C2D6, C1E6, C1E6D, C1G6, D1A, J1AD, J1A6D, K2A (Wide deck)	13.0	n/a	05K21120	n/a	05K21120	FRCN13.0CA	FRST13.0CA
LYC	IO-360-C1F (Wide Deck)	14.0	n/a	05K21118	n/a	05K21118	FRCN14.0CA	FRST14.0CA



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OEM	Engine Model	Cyl. Class	New TITAN® Cylinders Nickel Barrels – TISN		New TITAN® Cylinders Steel Barrels – TIST		ECi Freedom™ Brand Repaired Cylinders	
			ECi P/N	OEM P/N	ECi P/N	OEM P/N	Nickel (FRCN) ECi P/N	Steel (FRST) ECi P/N
LYC	IO-360-F1A (Wide Deck)	38.3	TISN38.3CA	05K22926	TIST38.3CA	05K22926	FRCN38.3CA	FRST38.3CA
LYC	LHIO-360-C1A, C1B (Wide Deck)	13.2	n/a	05K21281	n/a	05K21281	FRCN13.2CA	FRST13.2CA
LYC	LHIO-360-F1AD (LW-13358 Piston)	14.2	n/a	05K21275	n/a	05K21275	FRCN14.2CA	FRST14.2CA
LYC	LHIO-360-F1AD (LW-14610 Piston)	14.3	n/a	05K21274	n/a	05K21274	FRCN14.3CA	FRST14.3CA
LYC	LIO-360-C1E, C1E6, C1E6D (Wide Deck)	13.0	n/a	05K21120	n/a	05K21120	FRCN13.0CA	FRST13.0CA
LYC	LO-360-A1G6D, A1H6 (Wide Deck)	12.0	TISN12.0CA	05K21104	TIST12.0CA	05K21104	FRCN12.0CA	FRST12.0CA
LYC	LO-360-E1A6D	42.0	n/a	05K21121	n/a	05K21121	FRCN42.0CA	FRST42.0CA
LYC	LTO-360-A1A6D (Wide Deck)	12.2	TISN12.2CA	05K21192	TIST12.2CA	05K21192	FRCN12.2CA	FRST12.2CA
LYC	LTO-360-E1A6D	48.0	n/a	05K21122	n/a	05K21122	FRCN48.0CA	FRST48.0CA
LYC	O-360-B1A, B1B, B2A, B2B, D1A, D2A, D2B (Narrow Deck)	10.0	TISN10.0CA	05K21103	TIST10.0CA	05K21103	FRCN10.0CA	FRST10.0CA
LYC	O-360-A1A, A1C, A1D, A2A, A2E, A3A, A3D, A4A, C1A, C1C, C1G, C2A, C2B, C2C, C2D (Narrow Deck)	10.1	TISN10.1CA	05K21102	TIST10.1CA	05K21102	FRCN10.1CA	FRST10.1CA
LYC	O-360-A1A, A1AD, A1D, A1F, A1F6, A1F6D, A1G, A1G6, A1G6D, A1H, A1H6, A1J, A1LD, A1P, A2A, A2D, A2F, A2G, A3H, A3A, A3AD, A3D, A4A, A4AD, A4D, A4G, A4J, A4JD, A4K, A4M, A4N, A4P, A5AD, C1A, C1C, C1E, C1F, C1G, C2A, C2B, C2C, C2D, C2E, C4F, C4P, F1A6, G1A6 (Wide Deck)	12.0	TISN12.0CA	05K21104	TIST12.0CA	05K21104	FRCN12.0CA	FRST12.0CA
LYC	O-360-B1A, B2C, D2A (Wide Deck)	12.2	TISN12.2CA	05K21192	TIST12.2CA	05K21192	FRCN12.2CA	FRST12.2CA
LYC	O-360-E1A6D	42.0	n/a	05K21121	n/a	05K21121	FRCN42.0CA	FRST42.0CA
LYC	O-360-J2A	43.1	TISN43.1CA	05K21745	TIST43.1CA	05K21745	FRCN43.1CA	FRST43.1CA
LYC	TIO-360-A1A, A1B, A3B6 (Wide Deck)	14.4	n/a	05K21277	n/a	05K21277	FRCN14.4CA	FRST14.4CA
LYC	TIO-360-C1A6D	46.0	n/a	05K21276	n/a	05K21276	FRCN46.0CA	FRST46.0CA
LYC	TO-360-A1A6D (Wide Deck)	12.2	TISN12.2CA	05K21192	TIST12.2CA	05K21192	FRCN12.2CA	FRST12.2CA
LYC	TO-360-C1A6D, F1A6D	46.0	n/a	05K21276	n/a	05K21276	FRCN46.0CA	FRST46.0CA
LYC	TO-360-E1A6D	48.0	n/a	05K21122	n/a	05K21122	FRCN48.0CA	FRST48.0CA
LYC	GO-435-11, C1B1, C2, C2A, C2A2, C2B, C2B1, C2B2, C2B2-6, C2E	17.0	n/a	05K21229	n/a	05K21229	FRCN17.0CA	FRST17.0CA
LYC	GSO-435-B, B2	17.0	n/a	05K21229	n/a	05K21229	FRCN17.0CA	FRST17.0CA
LYC	O-435-17	17.0	n/a	05K21229	n/a	05K21229	FRCN17.0CA	FRST17.0CA
LYC	O-435-4, 6, 6A, 21, 23, 23A, 23B, 23C, 25	18.0	n/a	05K21214	n/a	05K21214	FRCN18.0CA	FRST18.0CA



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OEM	Engine Model	Cyl. Class	New TITAN® Cylinders Nickel Barrels – TISN		New TITAN® Cylinders Steel Barrels – TIST		ECi Freedom™ Brand Repaired Cylinders	
			ECi P/N	OEM P/N	ECi P/N	OEM P/N	Nickel (FRCN) ECi P/N	Steel (FRST) ECi P/N
LYC	O-435-A	39.0	n/a	71854	n/a	71854	FRCN39.0CA	FRST39.0CA
LYC	O-435-A2	39.0A	n/a	n/a	n/a	n/a	FRCN39.0ACA	FRST39.0ACA
LYC	TVO-435-A1A	18.0	n/a	05K21214	n/a	05K21214	FRCN18.0CA	FRST18.0CA
LYC	TVO-435-A1A, B1A, B1B, C1A, D1A, D1B, E1A, F1A, G1A, G1B	19.0	n/a	05K21212	n/a	05K21212	FRCN19.0CA	FRST19.0CA
LYC	VO-435-A1A, A1B, A1C, A1D, A1E, A1F (Long Reach)	18.0	n/a	05K21214	n/a	05K21214	FRCN18.0CA	FRST18.0CA
LYC	VO-435-A1D, A1E, A1F (Short Reach)	19.0	n/a	05K21212	n/a	05K21212	FRCN19.0CA	FRST19.0CA
LYC	GO-480-B, B1, B1A6, B1B, B1C, B1D, D1A, D1B, F6, F1A6, F2A6, F2D6, F3A6, F3B6, F4A6, F4B6	21.0	n/a	05K21273	n/a	05K21273	FRCN21.0CA	FRST21.0CA
LYC	GO-480-C1B6, C1D6, C2C6, C2D6, C2E6, G1A6, G1B6, G1D6, G1E6, G1F6, G1G6, G1H6, G1J6, G2D6, G2F6 (Short Reach)	22.0	n/a	n/a	n/a	n/a	FRCN22.0CA	FRST22.0CA
LYC	GO-480-A1A	22.1	n/a	05K21273	n/a	05K21273	FRCN22.1CA	FRST22.1CA
LYC	GO-480-C1B6, C1D6, C2C6, C2D6, C2E6, G1A6, G1B6, G1D6, G1E6, G1F6, G1G6, G1J6, G2D6, G2F6 (Long Reach)	23.0	n/a	05K21272	n/a	05K21272	FRCN23.0CA	FRST23.0CA
LYC	GSO-480-A1A, A1A6, A1B6, A2A6, B1A6, B1B3, B1B6, B1C6, B1E6, B1F6, B1G6, B1J6, B2C6, B2D6, B2G6, B2H6 (Short Reach)	22.1	n/a	05K21273	n/a	05K21273	FRCN22.1CA	FRST22.1CA
LYC	GSO-480-A1A, A1A6, A1B6, A2A6, B1A6, B1B3, B1B6, B1C6, B1E6, B1F6, B1G6, B1J6, B2C6, B2D6, B2G6, B2H6 (Long Reach)	23.1	n/a	05K21270	n/a	05K21270	FRCN23.1CA	FRST23.1CA
LYC	IGSO-480-A1A6, A1B6, A1C6, A1D6, A1E6, A1F3, A1F6, A1G6 (Short Reach)	22.1	n/a	05K21273	n/a	05K21273	FRCN22.1CA	FRST22.1CA
LYC	IGSO-480-A1A6, A1B6 (Long Reach)	23.0	n/a	05K21272	n/a	05K21272	FRCN23.0CA	FRST23.0CA
LYC	IGSO-480-A1A6, A1B6, A1C6, A1D6, A1E6, A1F3, A1F6, A1G6 (Long Reach)	23.1	n/a	05K21270	n/a	05K21270	FRCN23.1CA	FRST23.1CA
LYC	O-480-1, 1A, 3 (Short Reach)	22.1	n/a	05K21273	n/a	05K21273	FRCN22.1CA	FRST22.1CA
LYC	O-480-1, 1A, 3 (Long Reach)	23.1	n/a	05K21270	n/a	05K21270	FRCN23.1CA	FRST23.1CA
LYC	(T)IO-540-E1B5	27.1	n/a	05K21226	n/a	05K21226	FRCN27.1CA	FRST27.1CA
LYC	AEIO-540-L1B5, L1B5D (Narrow Deck)	11.0	n/a	05K21112	n/a	05K21112	FRCN11.0CA	FRST11.0CA
LYC	AEIO-540-D4A5, D4B5, D4C5, D4D5 (Wide Deck)	12.0	TISN12.0CA	05K21104	TIST12.0CA	05K21104	FRCN12.0CA	FRST12.0CA
LYC	AEIO-540-L1B5, L1B5D, L1D5 (Wide Deck)	13.0	n/a	05K21120	n/a	05K21120	FRCN13.0CA	FRST13.0CA



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OEM	Engine Model	Cyl. Class	New TITAN® Cylinders Nickel Barrels – TISN		New TITAN® Cylinders Steel Barrels – TIST		ECi Freedom™ Brand Repaired Cylinders	
			ECi P/N	OEM P/N	ECi P/N	OEM P/N	Nickel (FRCN) ECi P/N	Steel (FRST) ECi P/N
LYC	HIO-540-A1A (Narrow Deck)	11.0	n/a	05K21112	n/a	05K21112	FRCN11.0CA	FRST11.0CA
LYC	IGO-540-A1A, A1B, A1C (Short Reach)	30.0	n/a	n/a	n/a	n/a	FRCN30.0CA	FRST30.0CA
LYC	IGO-540-A1A, A1B, A1C (Long Reach)	31.1	n/a	05K21265	n/a	05K21265	FRCN31.1CA	FRST31.1CA
LYC	IGO-540-B1A (Short Reach)	32.0	n/a	n/a	n/a	n/a	FRCN32.0CA	FRST32.0CA
LYC	IGO-540-B1A, B1B, B1C (Long Reach)	33.1	n/a	05K21267	n/a	05K21267	FRCN33.1CA	FRST33.1CA
LYC	IGSO-540-A1A, A1C, A1D, A1E, A1F, A1H	31.0	n/a	05K21264	n/a	05K21264	FRCN31.0CA	FRST31.0CA
LYC	IGSO-540-B1A, B1C (Short Reach)	32.1	n/a	n/a	n/a	n/a	FRCN32.1CA	FRST32.1CA
LYC	IGSO-540-B1A, B1C (Long Reach)	33.0	n/a	05K21269	n/a	05K21269	FRCN33.0CA	FRST33.0CA
LYC	IO-540-C1B5, C1C5, C2C, C4B5, C4B5D, C4C5, D4A5, D4B5, N1A5, N1A5D (Narrow Deck)	10.1	TISN10.1CA	05K21102	TIST10.1CA	05K21102	FRCN10.1CA	FRST10.1CA
LYC	IO-540-A1A5, G1A5, G1B5, G1C5, G1D5, G1E5, G1F5, K1A5, K1B5, K1B5D, K1D5, K1F5, K2A5, L1A5 (Narrow Deck)	11.0	n/a	05K21112	n/a	05K21112	FRCN11.0CA	FRST11.0CA
LYC	IO-540-C4B5, C4B5D, C4D5, C4D5D, D4A5, D4B5, D4C5, N1A5, N1A5D, T4A5D, T4B5, T4B5D, T4C5D, V4A5, V4A5D (Wide Deck)	12.0	TISN12.0CA	05K21104	TIST12.0CA	05K21104	FRCN12.0CA	FRST12.0CA
LYC	IO-540-K1A5, K1A5D, K1B5, K1B5D, K1D5, K1F5, K1F5D, K1G5, K1G5D, K1H5, K1J5, K1J5D, K1K5, K2A5, L1A5D, L1B5D, L1C5, AE1A5 (Wide Deck)	13.0	n/a	05K21120	n/a	05K21120	FRCN13.0CA	FRST13.0CA
LYC	IO-540-G1D5, K1B5, K1B5D, K1C5, K1E5, K1E5D, S1A5 (Wide Deck)	14.0	n/a	05K21118	n/a	05K21118	FRCN14.0CA	FRST14.0CA
LYC	IO-540-AA1A5, AA1B5	14.3A	n/a	05K21966	n/a	05K21966	FRCN14.3ACA	FRST14.3ACA
LYC	IO-540-B1A5, B1B5, B1C5, E1A5, E1B5, E1C5	24.0	n/a	05K21226	n/a	05K21226	FRCN24.0CA	FRST24.0CA
LYC	IO-540-G1A5, G1B5, G1C5, G1D5, G1E5, G1F5, K1B5, K1B5D, K1C5, K1E5, K1E5D, P1A5, S1A5 (Narrow Deck)	25.0	n/a	05K21204	n/a	05K21204	FRCN25.0CA	FRST25.0CA
LYC	IO-540-J4A5, R1A5 (Narrow Deck)	26.0	TISN26.0CA	05K21241	TIST26.0CA	05K21241	FRCN26.0CA	FRST26.0CA
LYC	IO-540-M1A5, M1C5	27.1	n/a	05K21226	n/a	05K21226	FRCN27.1CA	FRST27.1CA
LYC	IO-540-M1A5, M1A5D, M1B5, M1B5D, M1C5, M2A5D, U1A5D, U1B5B	40.1	n/a	05K21263	n/a	05K21263	FRCN40.1CA	FRST40.1CA
LYC	IO-540-W1A5, W1A5D, W3A5D, AB1A5	43.0	TISN43.0CA	05K21117	TIST43.0CA	05K21117	FRCN43.0CA	FRST43.0CA



Cylinder Application Chart

OEM	Engine Model	Cyl. Class	New TITAN® Cylinders Nickel Barrels – TISN		New TITAN® Cylinders Steel Barrels – TIST		ECi Freedom™ Brand Repaired Cylinders	
			ECi P/N	OEM P/N	ECi P/N	OEM P/N	Nickel (FRCN) ECi P/N	Steel (FRST) ECi P/N
LYC	IO-540-AC1A5	47.0A	n/a	05K22672	n/a	05K22672	FRCN47.0ACA	FRST47.0ACA
LYC	IVO-540-A1A	36.1	n/a	05K21223	n/a	05K21223	FRCN36.1CA	FRST36.1CA
LYC	LTIO-540-U2A	14.3A	n/a	05K21966	n/a	05K21966	FRCN14.3ACA	FRST14.3ACA
LYC	LTIO-540-K1AD (Wide Deck)	38.1	TISN38.1CA	05K22129	TIST38.1CA	05K22129	FRCN38.1CA	FRST38.1CA
LYC	LTIO-540-F2BD, J2B, J2BD, N2BD, R2AD	40.0	n/a	05K21108	n/a	05K21108	FRCN40.0CA	FRST40.0CA
LYC	LTIO-540-V2AD, W2A	47.0	n/a	05K21260	n/a	05K21260	FRCN47.0CA	FRST47.0CA
LYC	O-540-B1A5, B1B5, B1D5, B2A5, B2B5, B2C5, B2C5D, B4A5, B4B5, B4B5D (Narrow Deck)	10.0	TISN10.0CA	05K21103	TIST10.0CA	05K21103	FRCN10.0CA	FRST10.0CA
LYC	O-540-A1A, A1A5, A1B5, A1C5, A1D, A1D5, A2B, A3D5, A4A5, A4B5, A4C5, A4D5, D1A5, E1A, E4A5, E4B5, E4C5, F1A5, F1B5, G1A5, G2A5 (Narrow Deck)	10.1	TISN10.1CA	05K21102	TIST10.1CA	05K21102	FRCN10.1CA	FRST10.1CA
LYC	O-540-A4D5, E4A5, E4B5, E4B5D, E4C5, G1A5, G1A5D, G2A5, H1A5, H1A5D, H1B5D, H2A5, H2A5D, H1B5, H2B5D (Wide Deck)	12.0	TISN12.0CA	05K21104	TIST12.0CA	05K21104	FRCN12.0CA	FRST12.0CA
LYC	O-540-B2B5, B2C5, B2C5D, B4B5, B4B5D (Wide Deck)	12.2	TISN12.2CA	05K21192	TIST12.2CA	05K21192	FRCN12.2CA	FRST12.2CA
LYC	O-540-9, 9A (Short Reach)	35.1	n/a	77493	n/a	77493	FRCN35.1CA	FRST35.1CA
LYC	O-540-9, 9A (Long Reach)	36.1	n/a	05K21223	n/a	05K21223	FRCN36.1CA	FRST36.1CA
LYC	O-540-J1A5D, J1B5D, J1C5D, J1D5D, J2A5D, J2B5D, J2C5D, J2D5D, J3A5, J3A5D, J3C5D	43.0	TISN43.0CA	05K21117	TIST43.0CA	05K21117	FRCN43.0CA	FRST43.0CA
LYC	O-540-F1B5	43.1	TISN43.1CA	05K21745	TIST43.1CA	05K21745	FRCN43.1CA	FRST43.1CA
LYC	O-540-L3C5D	44.0	TISN44.0CA	05K21231	TIST44.0CA	05K21231	FRCN44.0CA	FRST44.0CA
LYC	TIO-540-AE2A, AH1A, U2A	14.3A	n/a	05K21262	n/a	05K21262	FRCN14.3ACA	FRST14.3ACA
LYC	TIO-540-G1A (Narrow Deck)	26.0	TISN26.0CA	05K21241	TIST26.0CA	05K21241	FRCN26.0CA	FRST26.0CA
LYC	TIO-540-C1A, E1A, H1A (Narrow Deck)	26.1	TISN26.1CA	05K21234	TIST26.1CA	05K21234	FRCN26.1CA	FRST26.1CA
LYC	TIO-540-A1A, A1B, A1C, A2A, A2B, A2C	27.0	n/a	05K21109	n/a	05K21109	FRCN27.0CA	FRST27.0CA
LYC	TIO-540-C1A, C1AD (Wide Deck)	38.0	TISN38.0CA	05K22128	TIST38.0CA	05K22128	FRCN38.0CA	FRST38.0CA
LYC	TIO-540-K1AD, AA1AD, AB1BD, AF1A, AG1A, AK1A (Wide Deck)	38.1	TISN38.1CA	05K22129	TIST38.1CA	05K22129	FRCN38.1CA	FRST38.1CA
LYC	TIO-540-A2C, F2BD, J2B, J2BD, N2BD, R2AD, S1AD, T2AD	40.0	n/a	05K21108	n/a	05K21108	FRCN40.0CA	FRST40.0CA
LYC	TIO-540-AJ1A, V2AD, W2A	47.0	n/a	05K21260	n/a	05K21260	FRCN47.0CA	FRST47.0CA
LYC	TIVO-540-A2A, A2B	36.0	n/a	05K21228	n/a	05K21228	FRCN36.0CA	FRST36.0CA
LYC	TVO-540-A1A (Short Reach)	35.0	n/a	77487	n/a	77487	FRCN35.0CA	FRST35.0CA
LYC	TVO-540-A1A (Long Reach)	36.0	n/a	05K21228	n/a	05K21228	FRCN36.0CA	FRST36.0CA



Cylinder Application Chart

OEM	Engine Model	Cyl. Class	New TITAN® Cylinders Nickel Barrels – TISN		New TITAN® Cylinders Steel Barrels – TIST		ECi Freedom™ Brand Repaired Cylinders	
			ECi P/N	OEM P/N	ECi P/N	OEM P/N	Nickel (FRCN) ECi P/N	Steel (FRST) ECi P/N
LYC	VO-540-A1A, A2A, B1A, B1B, B1B3, B1C, B1D, B1E, B1F, B1G, B1H3, B2A, B2C, B2D, B2E, B2G (Short Reach)	35.0	n/a	77487	n/a	77487	FRCN35.0CA	FRST35.0CA
LYC	VO-540-C1A, C1B, C1C3, C2A, C2B, C2C (Short Reach)	35.1	n/a	77493	n/a	77493	FRCN35.1CA	FRST35.1CA
LYC	VO-540-A1A, A2A, B1A, B1B, B1B3, B1C, B1D, B1E, B1F, B1G, B1H3, B2A, B2C, B2D, B2E, B2G (Long Reach)	36.0	n/a	05K21228	n/a	05K21228	FRCN36.0CA	FRST36.0CA
LYC	VO-540-C1A, C1B, C1C3, C2A, C2B, C2C (Long Reach)	36.1	n/a	05K21223	n/a	05K21223	FRCN36.1CA	FRST36.1CA
LYC	TIGO-541-D1A, E1A, G1AD	29.0	n/a	05K21259	n/a	05K21259	FRCN29.0CA	FRST29.0CA
LYC	TIO-541-E1A4, E1B4, E1C4, E1D4	29.0	n/a	05K21259	n/a	05K21259	FRCN29.0CA	FRST29.0CA
LYC	IO-720-A1A, A1B, A1BD, D1B, D1BD (Narrow Deck)	11.0	n/a	05K21112	n/a	05K21112	FRCN11.0CA	FRST11.0CA
LYC	IO-720-A1B, A1BD, D1B, D1BD, D1C, D1CD (Wide Deck)	14.0	n/a	05K21118	n/a	05K21118	FRCN14.0CA	FRST14.0CA
LYC	IO-720-B1B, C1B, C1BD (Narrow Deck/Short Reach)	24.0	n/a	05K21226	n/a	05K21226	FRCN24.0CA	FRST24.0CA
LYC	IO-720-A1B, A1BD (Narrow Deck)	25.1	n/a	05K21112	n/a	05K21112	FRCN25.1CA	FRST25.1CA
LYC	IO-720-B1B, C1B, C1BD (Narrow Deck/Long Reach)	27.2	n/a	05K21226	n/a	05K21226	FRCN27.2CA	FRST27.2CA
LYC	IO-720-B1B, B1BD (Wide Deck/Long Reach)	40.1	n/a	05K21263	n/a	05K21263	FRCN40.1CA	FRST40.1CA
TCM	A65-1, 3, 6, 6J, 7, 8, 8F, 8FJ, 8J, 9, 9F, 9FJ, 9J, 12, 12F, 12FJ, 12J, 14, 14F, 14FJ, 14J	60.0	n/a	n/a	n/a	n/a	FRCN60.0CA	FRST60.0CA
TCM	A75-3, 6, 6J, 8, 8F, 8FJ, 8J, 9, 9J	60.1	n/a	n/a	n/a	n/a	FRCN60.1CA	FRST60.1CA
TCM	C75-8, 8F, 8FH, 8FHJ, 8FJ, 8J, 12, 12B, 12BF, 12BFH, 12F, 12FH, 12FHJ, 15, 15F, FJ, J	61.0B	n/a	655483A15	n/a	655483A15	FRCN61.0BCA	FRST61.0BCA
TCM	C75-8, 8F, 8FH, 8FHJ, 8FJ, 8J, 12, 12B, 12BF, 12BFH, 12F, 12FH, 12FHJ, 15, 15F, FJ, J (STC)	61.1E	TISN61.1ECA	655483A15	TIST61.1ECA	655483A15	FRCN61.1ECA	FRST61.1ECA
TCM	C85-8, 8F, 8FHJ, 8FJ, 8J, 12, 12F, 12FH, 12FHJ, 12FJ, 12J, 14F, 15, 15F	61.0B	n/a	655483A15	n/a	855483A15	FRCN61.0BCA	FRST61.0BCA
TCM	C85-8, 8F, 8FHJ, 8FJ, 8J, 12, 12F, 12FH, 12FHJ, 12FJ, 12J, 14F, 15, 15F (STC)	61.1E	TISN61.1ECA	655483A15	TIST61.1ECA	655483A15	FRCN61.1ECA	FRST61.1ECA
TCM	C90-8F, 8FJ, 12F, 12FH, 12FJ, 12FP, 14F, 14FH, 14FJ, 14FP, 16F	61.0A	n/a	655483A11	n/a	655483A11	FRCN61.0ACA	FRST61.0ACA
TCM	C90-8F, 8FJ, 12F, 12FH, 12FJ, 12FP, 14F, 14FH, 14FJ, 14FP, 16F (STC)	61.1D	TISN61.1DCA	655483A11	TIST61.1DCA	655483A11	FRCN61.1DCA	FRST61.1DCA



Cylinder Application Chart

OEM	Engine Model	Cyl. Class	New TITAN® Cylinders Nickel Barrels – TISN		New TITAN® Cylinders Steel Barrels – TIST		ECi Freedom™ Brand Repaired Cylinders	
			ECi P/N	OEM P/N	ECi P/N	OEM P/N	Nickel (FRCN) ECi P/N	Steel (FRST) ECi P/N
TCM	C125-1, 2	61.0B	n/a	655483A15	n/a	655483A15	FRCN61.0BCA	FRST61.0BCA
TCM	C125-1, 2 (STC)	61.1E	TISN61.1ECA	655483A15	TIST61.1ECA	655483A15	FRCN61.1ECA	FRST61.1ECA
TCM	C145-2, 2H, 2HP	61.0A	n/a	655483A11	n/a	655483A11	FRCN61.0ACA	FRST61.0ACA
TCM	C145-2, 2H, 2HP (STC)	61.1D	TISN61.1DCA	655483A11	TIST61.1DCA	655483A11	FRCN61.1DCA	FRST61.1DCA
TCM	E165-2, 3, 4	64.0	n/a	655480A4	n/a	655480A4	FRCN64.0CA	FRST64.0CA
TCM	E185-1, 2, 3, 9, 10, 11	64.0	n/a	655480A4	n/a	655480A4	FRCN64.0CA	FRST64.0CA
TCM	E225-2, 4, 8, 9	64.0	n/a	655480A4	n/a	655480A4	FRCN64.0CA	FRST64.0CA
TCM	O-200-A, B, C	61.0A	n/a	655483A11	n/a	655483A11	FRCN61.0ACA	FRST61.0ACA
TCM	O-200-A, B, C (STC)	61.1D	TISN61.1DCA	655483A11	TIST61.1DCA	655483A11	FRCN61.1DCA	FRST61.1DCA
TCM	IO-240-A, B	66.2A	n/a	655479A12	n/a	655479A12	FRCN66.2ACA	FRST66.2ACA
TCM	IOF-240-B	66.2A	n/a	n/a	n/a	n/a	FRCN66.2ACA	FRST66.2ACA
TCM	GO-300-A, B, C, D, E	61.0C	n/a	655483A17	n/a	655483A17	FRCN61.0CCA	FRST61.0CCA
TCM	GO-300-A, B, C, D, E (STC)	61.1F	TISN61.1FCA	655483A17	TIST61.1FCA	655483A17	FRCN61.1FCA	FRST61.1FCA
TCM	O-300-A, B, C, D, E	61.0A	n/a	655483A11	n/a	655483A11	FRCN61.0ACA	FRST61.0ACA
TCM	O-300-A, B, C, D, E (STC)	61.1D	TISN61.1DCA	655483A11	TIST61.1DCA	655483A1	FRCN61.1DCA	FRST61.1DCA
TCM	IO-346-A, B	65.0	n/a		n/a		FRCN65.0CA	FRST65.0CA
TCM	IO-360-A, AB, B, C, CB, D, DB, E, F, G, GB, H, HB, J, JB, K, KB	66.0A	n/a	655478A8	n/a	655478A8	FRCN66.0ACA	FRST66.0ACA
TCM	IO-360-ES	66.2A	n/a	655479A9	n/a	655479A9	FRCN66.2ACA	FRST66.2ACA
TCM	LTSIO-360-E, EB, KB	66.0B	n/a	655478A5	n/a	655478A5	FRCN66.0BCA	FRST66.0BCA
TCM	LTSIO-360-RB	66.2B	n/a	655479A8	n/a	655479A8	FRCN66.2BCA	FRST66.2BCA
TCM	TSIO-360-A, AB, B, BB, C, CB, D, DB, E, EB, F, FB, G, GB, G, HB, JB, KB, LB, NB	66.0B	n/a	655478A5	n/a	655478A5	FRCN66.0BCA	FRST66.0BCA
TCM	TSIO-360-MB, PB, RB, SB	66.2B	n/a	655479A8	n/a	655479A8	FRCN66.2BCA	FRST66.2BCA
TCM	IO-470-J, K	64.1	n/a	655475A8	n/a	655475A8	FRCN64.1CA	FRST64.1CA
TCM	IO-470-A, C, G, P, R, T	68.0B	n/a	655467A8	n/a	655467A8	FRCN68.0BCA	FRST68.0BCA
TCM	IO-470-A, C, G, P, R, T	68.3B	TISN68.3BCA	655467A8	TIST68.3BCA	655467A8	FRCN68.3BCA	FRST68.3BCA
TCM	IO-470-D, E, F, H, L, LO, M, N, S, U, V, VO	70.0A	TISN70.0ACA	655468A8	TIST70.0ACA	655468A8	FRCN70.0ACA	FRST70.0ACA
TCM	LIO-470-A	68.0B	n/a	655467A8	n/a	655467A8	FRCN68.0BCA	FRST68.0BCA
TCM	LIO-470-A	68.3B	TISN68.3BCA	655467A8	TIST68.3BCA	655467A8	FRCN68.3BCA	FRST68.3BCA
TCM	O-470-7, 7A, 7B, 11, 15, A	64.0	n/a	655480A4	n/a	655480A4	FRCN64.0CA	FRST64.0CA
TCM	O-470-E, J	64.1	n/a	655475A8	n/a	655475A8	FRCN64.1CA	FRST64.1CA
TCM	O-470-4, 13, 13A	67.0	n/a	n/a	n/a	n/a	FRCN67.0CA	FRST67.0CA
TCM	O-470-B, BCI	67.1	n/a	n/a	n/a	n/a	FRCN67.1CA	FRST67.1CA
TCM	O-470-K, K-CI, L, L-CI, R, S	68.0A	n/a	655467A7	n/a	655467A7	FRCN68.0ACA	FRST68.0ACA
TCM	O-470-K, K-CI, L, L-CI, R, S	68.3A	TISN68.3ACA	655467A7	TIST68.3ACA	655467A7	FRCN68.3ACA	FRST68.3ACA



Cylinder Application Chart

OEM	Engine Model	Cyl. Class	New TITAN® Cylinders Nickel Barrels – TISN		New TITAN® Cylinders Steel Barrels – TIST		ECi Freedom™ Brand Repaired Cylinders	
			ECi P/N	OEM P/N	ECi P/N	OEM P/N	Nickel (FRCN) ECi P/N	Steel (FRST) ECi P/N
TCM	O-470-G, G-CI, M, M-CI, N, P	68.0B	n/a	655467A8	n/a	655467A8	FRCN68.0BCA	FRST68.0BCA
TCM	O-470-G, G-CI, M, M-CI, N, P	68.3B	TISN68.3BCA	655467A8	TIST68.3BCA	655467A8	FRCN68.3BCA	FRST68.3BCA
TCM	O-470-T, U	70.0A	n/a	655468A6	n/a	655468A6	FRCN70.0ACA	FRST70.0ACA
TCM	O-470-T, U	70.3A	TISN70.3ACA	655468A6	TIST70.3ACA	655468A6	FRCN70.3ACA	FRST70.3ACA
TCM	TSIO-470-B, C, D	70.0B	n/a	655468A9	n/a	655468A9	FRCN70.0BCA	FRST70.0BCA
TCM	TSIO-470-B, C, D	70.3B	TISN70.3BCA	655468A9	TIST70.3BCA	655468A9	FRCN70.3BCA	FRST70.3BCA
TCM	GTSIO-520-C, D, E, H	72.1	TISN72.1CA	655473A4	TIST72.1CA	655473A4	FRCN72.1CA	FRST72.1CA
TCM	GTSIO-520-F, K, L, M, N	73.0	TISN73.0CA	655474A9	TIST73.0CA	655474A9	FRCN73.0CA	FRST73.0CA
TCM	IO-520-A, B, BA, BB, C, CB, D, E, F, J, K, L, M, MB, N, NB, P	71.2A	n/a	655469A7	n/a	655469A7	FRCN71.2ACA	FRST71.2ACA
TCM	IO-520-A, B, BA, BB, C, CB, D, E, F, J, K, L, M, MB, N, NB, P	71.4A	TISN71.4ACA	655469A7	TIST71.4ACA	655469A7	FRCN71.4ACA	FRST71.4ACA
TCM	LIO-520-P	71.2A	n/a	655469A7	n/a	655469A7	FRCN71.2ACA	FRST71.2ACA
TCM	LIO-520-P	71.4A	TISN71.4ACA	655469A7	TIST71.4ACA	655469A7	FRCN71.4ACA	FRST71.4ACA
TCM	LTSIO-520-AE	75.0	n/a	655476A4	n/a	655476A4	FRCN75.0CA	FRST75.0CA
TCM	TSIO-520-A, AF, B, BB, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, U, UB, VB, WB	71.2B	n/a	655470A4	n/a	655470A4	FRCN71.2BCA	FRST71.2BCA
TCM	TSIO-520-A, AF, B, BB, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, U, UB, VB, WB	71.4B	TISN71.4BCA	655470A4	TIST71.4BCA	655470A4	FRCN71.4BCA	FRST71.4BCA
TCM	TSIO-520-BE	73.0	TISN73.0CA	655474A20	TIST73.0CA	655474A20	FRCN73.0CA	FRST73.0CA
TCM	TSIO-520-AE	75.0	n/a	655476A4	n/a	655476A4	FRCN75.0CA	FRST75.0CA
TCM	IO-550-A, B, C	71.2C	n/a	655469A8	n/a	655469A8	FRCN71.2CCA	FRST71.2CCA
TCM	IO-550-A, B, C	71.4C	TISN71.4CCA	655469A8	TIST71.4CCA	655469A8	FRCN71.4CCA	FRST71.4CCA
TCM	IO-550-G	73.0A	TISN73.0ACA	655474A19	TIST73.0ACA	655474A19	FRCN73.0ACA	FRST73.0ACA
TCM	IO-550-N, P, R	73.1	TISN73.1CA	655465A4	TIST73.1CA	655465A4	FRCN73.1CA	FRST73.1CA
TCM	IO-550-D, E, F, L	76.0	n/a	655471A4	n/a	655471A4	FRCN76.0CA	FRST76.0CA
TCM	IO-550-D, E, F, L	76.3	TISN76.3CA	655471A4	TIST76.3CA	655471A4	FRCN76.3CA	FRST76.3CA
TCM	IOF-550-B, C	71.2C	n/a	655469A8	n/a	655469A8	FRCN71.2CCA	FRST71.2CCA
TCM	IOF-550-B, C	71.4C	TISN71.4CCA	655469A8	TIST71.4CCA	655469A8	FRCN71.4CCA	FRST71.4CCA
TCM	IOF-550-N, P, R	73.1	TISN73.1CA	655465A4	TIST73.1CA	655465A4	FRCN73.1CA	FRST73.1CA
TCM	IOF-550-D, E, F, L	76.0	n/a	655471A4	n/a	655471A4	FRCN76.0CA	FRST76.0CA
TCM	IOF-550-D, E, F, L	76.3	TISN76.3CA	655471A4	TIST76.3CA	655471A4	FRCN76.3CA	FRST76.3CA
TCM	TSIO-550-B, C, E	73.0B	TISN73.0BCA	655477A7	TIST73.0BCA	655477A7	FRCN73.0BCA	FRST73.0BCA



Cylinder Cross Reference Chart

OEM or SAP Part Number	New TITAN® Cylinders		ECi Freedom™ Brand Repaired Cylinders	
	Nickel Barrels (TISN) ECi P/N	Steel Barrels (TIST) ECi P/N	Nickel (FRCN) ECi P/N	Steel (FRST) ECi P/N
05K21100	TISN04.1CA	TIST04.1CA	FRCN04.1CA	FRST04.1CA
05K21101	TISN07.0CA	TIST07.0CA	FRCN07.0CA	FRST07.0CA
05K21101	TISN08.0CA	TIST08.0CA	FRCN08.0CA	FRST08.0CA
05K21102	TISN10.1CA	TIST10.1CA	FRCN10.1CA	FRST10.1CA
05K21103	TISN10.0CA	TIST10.0CA	FRCN10.0CA	FRST10.0CA
05K21104	TISN12.0CA	TIST12.0CA	FRCN12.0CA	FRST12.0CA
05K21108	n/a	n/a	FRCN40.0CA	FRST40.0CA
05K21109	n/a	n/a	FRCN27.0CA	FRST27.0CA
05K21112	n/a	n/a	FRCN11.0CA	FRST11.0CA
05K21112	n/a	n/a	FRCN25.1CA	FRST25.1CA
05K21117	TISN43.0CA	TIST43.0CA	FRCN43.0CA	FRST43.0CA
05K21118	n/a	n/a	FRCN14.0CA	FRST14.0CA
05K21119	n/a	n/a	FRCN41.0CA	FRST41.0CA
05K21120	n/a	n/a	FRCN13.0CA	FRST13.0CA
05K21121	n/a	n/a	FRCN42.0CA	FRST42.0CA
05K21122	n/a	n/a	FRCN48.0CA	FRST48.0CA
05K21124	n/a	n/a	FRCN13.3CA	FRST13.3CA
05K21192	TISN12.2CA	TIST12.2CA	FRCN12.2CA	FRST12.2CA
05K21204	n/a	n/a	FRCN25.0CA	FRST25.0CA
05K21212	n/a	n/a	FRCN19.0CA	FRST19.0CA
05K21214	n/a	n/a	FRCN18.0CA	FRST18.0CA
05K21223	n/a	n/a	FRCN36.1CA	FRST36.1CA
05K21224	n/a	n/a	FRCN11.1CA	FRST11.1CA
05K21226	n/a	n/a	FRCN24.0CA	FRST24.0CA
05K21226	n/a	n/a	FRCN27.1CA	FRST27.1CA
05K21226	n/a	n/a	FRCN27.2CA	FRST27.2CA
05K21228	n/a	n/a	FRCN36.0CA	FRST36.0CA
05K21229	n/a	n/a	FRCN17.0CA	FRST17.0CA
05K21231	TISN44.0CA	TIST44.0CA	FRCN44.0CA	FRST44.0CA
05K21234	TISN26.1CA	TIST26.1CA	FRCN26.1CA	FRST26.1CA
05K21237-A	TISN04.0CA	TIST04.0CA	FRCN04.0CA	FRST04.0CA
05K21241	TISN26.0CA	TIST26.0CA	FRCN26.0CA	FRST26.0CA
05K21242	TISN05.0CA	TIST05.0CA	FRCN05.0CA	FRST05.0CA
05K21259	n/a	n/a	FRCN29.0CA	FRST29.0CA
05K21260	n/a	n/a	FRCN47.0CA	FRST47.0CA
05K21262	n/a	n/a	FRCN14.3ACA	FRST14.3ACA
05K21263	n/a	n/a	FRCN40.1CA	FRST40.1CA



Cylinder Cross Reference Chart

OEM or SAP Part Number	New TITAN® Cylinders		ECi Freedom™ Brand Repaired Cylinders	
	Nickel Barrels (TISN) ECi P/N	Steel Barrels (TIST) ECi P/N	Nickel (FRCN) ECi P/N	Steel (FRST) ECi P/N
05K21264	n/a	n/a	FRCN31.0CA	FRST31.0CA
05K21265	n/a	n/a	FRCN31.1CA	FRST31.1CA
05K21267	n/a	n/a	FRCN33.1CA	FRST33.1CA
05K21269	n/a	n/a	FRCN33.0CA	FRST33.0CA
05K21270	n/a	n/a	FRCN23.1CA	FRST23.1CA
05K21272	n/a	n/a	FRCN23.0CA	FRST23.0CA
05K21273	n/a	n/a	FRCN21.0CA	FRST21.0CA
05K21273	n/a	n/a	FRCN22.1CA	FRST22.1CA
05K21274	n/a	n/a	FRCN14.3CA	FRST14.3CA
05K21275	n/a	n/a	FRCN14.2CA	FRST14.2CA
05K21276	n/a	n/a	FRCN46.0CA	FRST46.0CA
05K21277	n/a	n/a	FRCN14.4CA	FRST14.4CA
05K21278	n/a	n/a	FRCN14.5CA	FRST14.5CA
05K21281	n/a	n/a	FRCN13.2CA	FRST13.2CA
05K21423-A	TISN06.0CA	TIST06.0CA	FRCN06.0CA	FRST06.0CA
05K21745	TISN43.1CA	TIST43.1CA	FRCN43.1CA	FRST43.1CA
05K21966	n/a	n/a	FRCN14.3ACA	FRST14.3ACA
05K22128	TISN38.0CA	TIST38.0CA	FRCN38.0CA	FRST38.0CA
05K22129	TISN38.1CA	TIST38.1CA	FRCN38.1CA	FRST38.1CA
05K22672	n/a	n/a	FRCN47.0ACA	FRST47.0ACA
05K22926	TISN38.3CA	TIST38.3CA	FRCN38.3CA	FRST38.3CA
05K23037	n/a	n/a	FRCN01.2CA	FRST01.2CA
05K23038	n/a	n/a	FRCN01.3CA	FRST01.3CA
05K23039	n/a	n/a	FRCN01.0CA	FRST01.0CA
05K23040	n/a	n/a	FRCN01.1CA	FRST01.1CA
655465A4	TISN73.1CA	TIST73.1CA	FRCN73.1CA	FRST73.1CA
655467A7	n/a	n/a	FRCN68.0ACA	FRST68.0ACA
655467A7	TISN68.3ACA	TIST68.3ACA	FRCN68.3ACA	FRST68.3ACA
655467A8	n/a	n/a	FRCN68.0BCA	FRST68.0BCA
655467A8	TISN68.3BCA	TIST68.3BCA	FRCN68.3BCA	FRST68.3BCA
655468A8	n/a	n/a	FRCN70.0ACA	FRST70.0ACA
655468A8	TISN70.3ACA	TIST70.3ACA	FRCN70.3ACA	FRST70.3ACA
655468A9	n/a	n/a	FRCN70.0BCA	FRST70.0BCA
655468A9	TISN70.3BCA	TIST70.3BCA	FRCN70.3BCA	FRST70.3BCA
655469A7	n/a	n/a	FRCN71.2ACA	FRST71.2ACA
655469A7	TISN71.4ACA	TIST71.4ACA	FRCN71.4ACA	FRST71.4ACA
655469A8	n/a	n/a	FRCN71.2CCA	FRST71.2CCA



Cylinder Cross Reference Chart

OEM or SAP Part Number	New TITAN® Cylinders		ECi Freedom™ Brand Repaired Cylinders	
	Nickel Barrels (TISN) ECi P/N	Steel Barrels (TIST) ECi P/N	Nickel (FRCN) ECi P/N	Steel (FRST) ECi P/N
655469A8	TISN71.4CCA	TIST71.4CCA	FRCN71.4CCA	FRST71.4CCA
655470A4	n/a	n/a	FRCN71.2BCA	FRST71.2BCA
655470A4	TISN71.4BCA	TIST71.4BCA	FRCN71.4BCA	FRST71.4BCA
655471A4	n/a	n/a	FRCN76.0CA	FRST76.0CA
655471A4	TISN76.3CA	TIST76.3CA	FRCN76.3CA	FRST76.3CA
655473A4	TISN72.1CA	TIST72.1CA	FRCN72.1CA	FRST72.1CA
655474A19	TISN73.0ACA	TIST73.0ACA	FRCN73.0ACA	FRST73.0ACA
655474A20	TISN73.0CA	TIST73.0CA	FRCN73.0CA	FRST73.0CA
655474A9	TISN73.0CA	TIST73.0CA	FRCN73.0CA	FRST73.0CA
655475A8	n/a	n/a	FRCN64.1CA	FRST64.1CA
655476A4	n/a	n/a	FRCN75.0CA	FRST75.0CA
655477A7	TISN73.0BCA	TIST73.0BCA	FRCN73.0BCA	FRST73.0BCA
655478A5	n/a	n/a	FRCN66.0BCA	FRST66.0BCA
655478A8	n/a	n/a	FRCN66.0ACA	FRST66.0ACA
655479A12	n/a	n/a	FRCN66.2ACA	FRST66.2ACA
655479A8	n/a	n/a	FRCN66.2BCA	FRST66.2BCA
655479A9	n/a	n/a	FRCN66.2ACA	FRST66.2ACA
655480A4	n/a	n/a	FRCN64.0CA	FRST64.0CA
655483A11	n/a	n/a	FRCN61.0ACA	FRST61.0ACA
655483A11	TISN61.1DCA	TIST61.1DCA	FRCN61.1DCA	FRST61.1DCA
655483A15	n/a	n/a	FRCN61.0BCA	FRST61.0BCA
655483A15	TISN61.1ECA	TIST61.1ECA	FRCN61.1ECA	FRST61.1ECA
655483A17	n/a	n/a	FRCN61.0CCA	FRST61.0CCA
655483A17	TISN61.1FCA	TIST61.1FCA	FRCN61.1FCA	FRST61.1FCA
71831	n/a	n/a	FRCN02.0CA	FRST02.0CA
71837	n/a	n/a	FRCN03.0CA	FRST03.0CA
71854	n/a	n/a	FRCN39.0CA	FRST39.0CA
77487	n/a	n/a	FRCN35.0CA	FRST35.0CA
77493	n/a	n/a	FRCN35.1CA	FRST35.1CA
LW12420	n/a	n/a	FRCN09.0BCA	FRST09.0BCA
SA10200-A20P	n/a	n/a	FRCN61.0ACA	FRST61.0ACA
SA10200-A20P	TISN61.1DCA	TIST61.1DCA	FRCN61.1DCA	FRST61.1DCA
SA10200-A21P	n/a	n/a	FRCN61.0BCA	FRST61.0BCA
SA10200-A21P	TISN61.1ECA	TIST61.1ECA	FRCN61.1ECA	FRST61.1ECA
SA47000L-A20P	TISN70.0ACA	TIST70.0ACA	FRCN70.0ACA	FRST70.0ACA
SA47000S-A20P	n/a	n/a	FRCN68.0BCA	FRST68.0BCA
SA47000S-A20P	TISN68.3BCA	TIST68.3BCA	FRCN68.3BCA	FRST68.3BCA



Cylinder Cross Reference Chart

OEM or SAP Part Number	New TITAN® Cylinders		ECi Freedom™ Brand Repaired Cylinders	
	Nickel Barrels (TISN) ECi P/N	Steel Barrels (TIST) ECi P/N	Nickel (FRCN) ECi P/N	Steel (FRST) ECi P/N
SA47000S-A21P	n/a	n/a	FRCN68.0ACA	FRST68.0ACA
SA47000S-A21P	TISN68.3ACA	TIST68.3ACA	FRCN68.3ACA	FRST68.3ACA
SA52000-A21P	n/a	n/a	FRCN71.2ACA	FRST71.2ACA
SA52000-A21P	TISN71.4ACA	TIST71.4ACA	FRCN71.4ACA	FRST71.4ACA
SA52000-A22P	n/a	n/a	FRCN71.2BCA	FRST71.2BCA
SA52000-A22P	TISN71.4BCA	TIST71.4BCA	FRCN71.4BCA	FRST71.4BCA
SA52000-A23P	n/a	n/a	FRCN71.2CCA	FRST71.2CCA
SA52000-A23P	TISN71.4CCA	TIST71.4CCA	FRCN71.4CCA	FRST71.4CCA
SA55000-A20P	n/a	n/a	FRCN76.0CA	FRST76.0CA
SA55000-A20P	TISN76.3CA	TIST76.3CA	FRCN76.3CA	FRST76.3CA
SA65000S0	n/a	n/a	FRCN60.0CA	FRST60.0CA
SL32000N-A20P	TISN08.0CA	TIST08.0CA	FRCN08.0CA	FRST08.0CA
SL32000N-A21P	TISN08.0ACA	TIST08.0ACA	FRCN08.0ACA	FRST08.0ACA
SL32000NA-A21P	TISN06.0CA	TIST06.0CA	FRCN06.0CA	FRST06.0CA
SL32000WL-A20P	TISN05.0CA	TIST05.0CA	FRCN05.0CA	FRST05.0CA
SL32006W-A20P	TISN04.1CA	TIST04.1CA	FRCN04.1CA	FRST04.1CA
SL32006W-A21P-1	TISN04.0CA	TIST04.0CA	FRCN04.0CA	FRST04.0CA
SL36000NL-A20P	TISN26.0CA	TIST26.0CA	FRCN26.0CA	FRST26.0CA
SL36000NL-A21P	TISN26.1CA	TIST26.1CA	FRCN26.1CA	FRST26.1CA
SL36000TW-A20P	TISN43.0CA	TIST43.0CA	FRCN43.0CA	FRST43.0CA
SL36000TWL-A20P	TISN44.0CA	TIST44.0CA	FRCN44.0CA	FRST44.0CA
SL36000WL-A20P	TISN38.1CA	TIST38.1CA	FRCN38.1CA	FRST38.1CA
SL36000WL-A21P	TISN38.0CA	TIST38.0CA	FRCN38.0CA	FRST38.0CA
SL36006N-A20P	TISN10.1CA	TIST10.1CA	FRCN10.1CA	FRST10.1CA
SL36006N-A21P	TISN10.0CA	TIST10.0CA	FRCN10.0CA	FRST10.0CA
SL36006W-A20P	TISN12.0CA	TIST12.0CA	FRCN12.0CA	FRST12.0CA
SL36006W-A21P	TISN12.2CA	TIST12.2CA	FRCN12.2CA	FRST12.2CA
SL54002-A20P	n/a	n/a	FRCN40.1CA	FRST40.1CA
SL54002-A21P	n/a	n/a	FRCN40.0CA	FRST40.0CA
SL54002NLC-A20P	n/a	n/a	FRCN27.1CA	FRST27.1CA
SL54002NLC-A21P	n/a	n/a	FRCN27.0CA	FRST27.0CA
SL54002NLF-A20P	n/a	n/a	FRCN32.0CA	FRST32.0CA
SL54002NLF-A21P	n/a	n/a	FRCN33.0CA	FRST33.0CA