

ENGINE ELECTRICAL

Ignition Data

1992 Models

Machine Model	Engine Model	Ignition Type Alternator Output	Spark Plug		Plug Gap MM/Inches	CDI Box Identification Number
			NGK	Champion		
StarLite	EC25PS-07	CDI-150 Watt	BR8ES*	RN-3C	0.7/028	CU6204
Indy Lite/GT/DLX	EC34-2PM-02/03/04	CDI-150 Watt	BR8ES*	RN-3C	0.7/028	CU6409
Indy Sport/GT	EC44-3PM-01	CDI-200 Watt	BR8ES*	RN-3C	0.7/028	CU6416
Indy Trail (All)	EC50PM-01/02/03	CDI-200 Watt	BR8ES*	RN-3C	0.7/028	CU6413
Indy 440 Indy XCR	EC45PL-02 EC45PL-01	CDI-200 Watt	BR8ES BR9ES	RN-3C* RN-2C*	0.7/028	CU6415
Indy 500, Classic WideTrak, 500SP	EC50PL-04/05/ 06/07	CDI-200 Watt	BR8ES	RN-3C*	0.7/028	CU6415
Indy 650, RXL	EC65PL-02/03	CDI-180 Watt	BR9ES	RN-2C*	0.7/028	CU2178

* Original Equipment

Engine Model	Running Ignition Timing at 3000 RPM					
	MM BTDC	Inches BTDC	Degrees BTDC	Acceptable Variances		
				MM	Inches	Degrees
EC25PS-07	4.05	.159	27 ± 3	3.22-4.96	.127-.195	20.5° @ 6000
EC34-2PM-02/03/04	3.28	.129	25 ± 1.5	2.90-3.67	.114-.144	16° @ 7000
EC44-3PM-01	3.81	.150	26 ± 1.5	3.39-4.25	.133-.167	16° @ 6500
EC50PM-01/02	3.81	.150	26 ± 1.5	3.39-4.25	.133-.167	16° @ 6500
EC50PM-03	4.71	.185	29 ± 1.5	4.25-5.20	.167-.204	19° @ 6500
EC45PL-02/01	4.40	.173	28 ± 1.5	3.91-4.87	.156-.191	16° @ 7500
EC50PL-04/05/06	4.40	.173	28 ± 1.5	3.91-4.87	.156-.191	16° @ 7500
EC50PL-07	4.71	.185	29 ± 1.5	4.25-5.20	.167-.204	17° @ 7500
EC65PL-02 -03	3.26 3.53	.128 .139	24 ± 1.5 25 ± 1.5	2.87-3.67 3.13-4.01	.113-.144 .123-.156	18° @ 7500 19° @ 7500

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Machine Model	Engine Model	Ignition Type Alternator Output	Spark Plug		Plug Gap MM/Inches	CDI Box Identification Number
			NGK	Champion		
StarLite/GT	EC25PS-07	CDI-150 Watt	BR8ES*	RN-3C	0.7/.028	CU6204
IndyLite/GT/DLX	EC34-2PM-02/04	CDI-150 Watt	BR8ES*	RN-3C	0.7/.028	CU6409
Indy Sport/GT	EC44-3PM-01	CDI-200 Watt	BR8ES*	RN-3C	0.7/.028	CU6416
Indy Trail (All)	EC50PM-01	CDI-200 Watt	BR8ES*	RN-3C	0.7/.028	CU6413
Indy 440 Indy XCR	EC45PL-02 EC45PL-01	CDI-200 Watt	BR8ES BR9ES	RN-3C* RN-2C*	0.7/.028	CU6415
Classic WideTrak 500 EFI	EC50PL-04 05/06/07	CDI-200 Watt	BR8ES	RN-3C*	0.7/.028	CU6415
XLT (All)	EC58PL-01	CDI-170 Watt	BR9ES	RN-2C*	0.7/.028	CU2194
Indy RXL	EC65PL-05	CDI-180 Watt	BR9ES	RN-2C*	0.7/.028	CU2193
Indy Storm	EC75PL-01	CDI-170 Watt	BR9ES*	RN-2C	0.7/.028	CU2196

* Original Equipment

Running Ignition Timing at 3000 RPM						Operating Timing and RPM
Engine Model	MM BTDC	Inches BTDC	Degrees BTDC	Acceptable Variances		
				MM	Inches	
EC25PS-07	4.05	.159	27±3	3.22-4.96	.127-.195	20.5° @ 6000
EC34-2PM-02/04	3.28	.129	25±1.5	2.90-3.67	.114-.144	16° @ 7000
EC44-3PM-01	3.81	.150	26±1.5	3.39-4.25	.133-.167	16° @ 6500
EC50PM-01	3.81	.150	26±1.5	3.39-4.25	.133-.167	16° @ 6500
EC45PL-01/02	4.40	.173	28±1.5	3.91-4.87	.156-.191	16° @ 7500
EC50PL-04/05/06	4.40	.173	28±1.5	3.91-4.87	.156-.191	16° @ 7500
EC50PL-07	4.71	.185	29±1.5	4.25-5.20	.167-.204	17° @ 7500
EC58PL-01	4.40	.173	28±1.5	3.91-4.87	.156-.191	20° @ 7500
EC65PL-05	3.53	.139	25±1.5	3.13-4.01	.123-.156	19° @ 7500
EC75PL-01	4.74	.187	28±1.5	4.30-5.28	.168-.206	12° @ 8000

ENGINE ELECTRICAL

Ignition Data

1994 Models

Machine Model	Engine Model	Ignition Type Alternator Output	Spark Plug		Plug Gap MM/Inches	CDI Box Identification Number	Fly- wheel ID #
			NGK	Champion			
StarLite/GT	EC25PS-07	CDI-150 Watt	BR8ES*	RN-3C	0.7/.028	CU6204	FP5355
IndyLite/GT/DLX	EC34-2PM-02/04	CDI-150 Watt	BR8ES*	RN-3C	0.7/.028	CU6409	FP5439
Indy Sport/Super Sport	EC44-3PM-01	CDI-200 Watt	BR8ES*	RN-3C	0.7/.028	CU6416	FP5446
Indy Trail (All) WideTrak GT	EC50PM-01/02/03	CDI-200 Watt	BR8ES*	RN-3C	0.7/.028	CU6413	FP5441
Indy 440 Indy XCR	EC45PL-02 EC45PL-01	CDI-200 Watt	BR8ES BR9ES	RN-3C* RN-2C*	0.7/.028	CU6415	FP5445
Indy XCR 440 SP	EC45PL-05	CDI-200 Watt	BR9ES	RN2C	0.7/.028	CU6417	FP5510
Classic WideTrak 500 EFI	EC50PL- 05/06/07/08	CDI-200 Watt 05/06 CDI 250 Watt 07/08	BR8ES	RN-3C*	0.7/.028	CU6415	FP5445
XLT (All)	EC58PL-01	CDI-170 Watt	BR8ES	RN-3C*	0.7/.028	CU2194	FP8312
Indy RXL	EC65PL-05/06	CDI-180 Watt	BR9ES	RN-2C*	0.7/.028	CU2193	FP6392
Indy Storm	EC80PL-01	CDI-170 Watt	BR9ES	RN-2C*	0.7/.028	CU2196	FP6369

* Original Equipment

Running Ignition Timing at 3000 RPM						Operating Timing and RPM
Engine Model	MM BTDC	Inches BTDC	Degrees BTDC	Acceptable Variances		
				MM	Inches	
EC25PS-07	4.05	.159	27±3	3.22-4.96	.127-.195	20.5° @ 6000
EC34-2PM-02/04	3.28	.129	25±1.5	2.90-3.67	.114-.144	16° @ 7000
EC44-3PM-01	3.81	.150	26±1.5	3.39-4.25	.133-.167	16° @ 6500
EC50PM-01/02/03	3.81	.150	26±1.5	3.39-4.25	.133-.167	16° @ 6500
EC45PL-01/02	4.40	.173	28±1.5	3.91-4.87	.156-.191	16° @ 7500
EC45PL-05	4.40	.173	28±1.5	3.91-4.87	.156-.191	16° @ 7500
EC50PL-05/06	4.40	.173	28±1.5	3.91-4.87	.156-.191	16° @ 7500
EC50PL-07/08	4.71	.185	29±1.5	4.25-5.20	.167-.204	17° @ 7500
EC58PL-01	4.40	.173	28±1.5	3.91-4.87	.156-.191	20° @ 7500
EC65PL-05/06	3.53	.139	25±1.5	3.13-4.01	.123-.156	19° @ 7500
EC80PL-01	2.96	.116	22±1.5	2.58-3.10	.102-.133	11° @ 8000

ENGINE ELECTRICAL Ignition Data

1995 Models

Machine Model	Engine Model	Alternator Wattage	Spark Plug		Plug Gap MM/inches	CDI Box Identification Number	Fly-wheel ID #
			NGK	Champion			
StarLite	EC25PS07	150	BR8ES	RN-3C	0.7/.028	CU6204	FP5355
IndyLite Models	EC34-2PM02/E02	150	BR8ES	RN-3C	0.7/.028	CU6409	FP5439
Indy Sport Models	EC44-3PM01/02	200	BR8ES	RN-3C	0.7/.028	CU6416	FP5446
Indy Trail Models	EC50PM04/E04	200	BR8ES	RN-3C	0.7/.028	CU6413	FP5441
WideTrak GT	EC50PM03	200	BR8ES	RN-3C	0.7/.028	CU6413	FP5441
Indy 440 LC/SKS	EC45PL02	200	BR8ES	RN-3C	0.7/.028	CU6415	FP5445
Indy XCR	EC45PL03	200	BR9ES	RN-2C	0.7/.028	CU6417	FP5510
Indy XCR 440 SP	EC45PL07	200	BR9ES	RN-2C	0.7/.028	CU6417	FP5510
Indy 500/Classic	EC50PL04/E04	200	BR8ES	RN-3C	0.7/.028	CU6415	FP5445
WideTrak LX	EC50PL06	200	BR8ES	RN-3C	0.7/.028	CU6415	FP5445
500 EFI	EC50PL07	250	BR8ES	RN-3C	0.7/.028	CU6415	FP5508
XLT/XLT SP/XLT SKS	EC58PL03	170	BR8ES	RN-3C	0.7/.028	CU2194	FP8312
Indy XCR 600	EC5802	170	BR9ES	RN-2C	0.7/.028	CU2194	FP8312
XLT Touring	EC58PLE04	170	BR8ES	RN-3C	0.7/.028	CU2194	FP8312
Indy RXL/Touring	EC65PL05/E05	180	BR9ES	RN-2C	0.7/.028	CU2178	FP6392
Indy Storm	EC80PL01	180	BR8ES	RN-3C	0.7/.028	CU2521	FP6320

Running Ignition Timing at 3000 RPM						Operating Timing °BTDC RPM
Engine Model	MM BTDC	Inches BTDC	Degrees BTDC	Acceptable Variances		
				MM	Inches	
EC25PS07	4.05	.159	27±3	3.22-4.96	.127-.195	20.5° @ 6000
EC342PM02/E02	3.67	.145	26.5±1.5	3.28-4.08	.129-.161	15.5° @ 7000
EC443PM01/02	3.81	.150	26±1.5	3.39-4.25	.133-.167	16° @ 6500
EC50PM04/E04	3.81	.150	26±1.5	3.39-4.25	.133-.167	16° @ 6500
EC50PM03	4.71	.185	29±1.5	4.25-5.20	.167-.204	19° @ 7500
EC45PL02/03	4.40	.173	28±1.5	3.91-4.87	.156-.191	16° @ 7500
EC45PL07	4.40	.173	28±1.5	3.91-4.87	.156-.191	16° @ 7500
EC50PL04/E04/06	4.40	.173	28±1.5	3.91-4.87	.156-.191	16° @ 7500
EC50PL07	4.71	.185	29±1.5	4.25-5.20	.167-.204	17° @ 7500
EC58PL02/03/E04	4.40	.173	28±1.5	3.91-4.87	.156-.191	20° @ 7500
EC65PL05/E05	3.53	.139	25±1.5	3.13-4.01	.123-.156	19° @ 7500
EC80PL01	2.96	.116	22±1.5	2.58-3.10	.102-.133	11° @ 8000