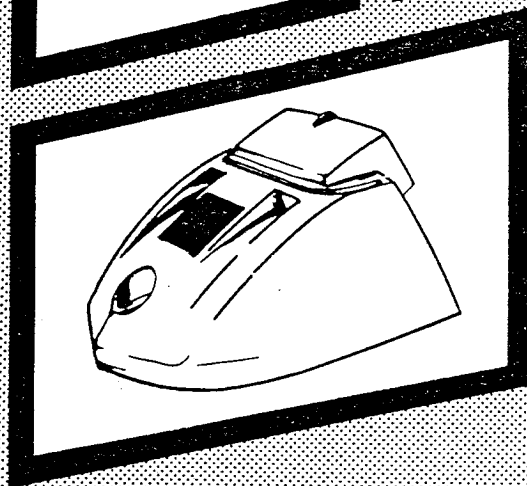
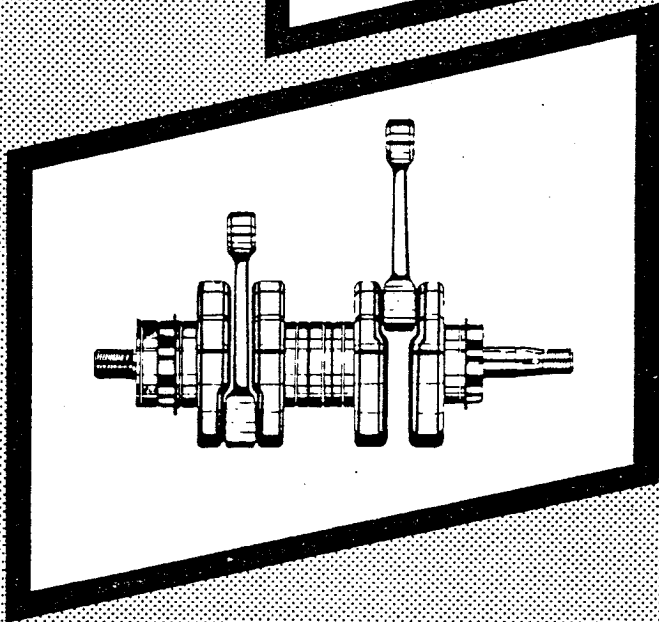
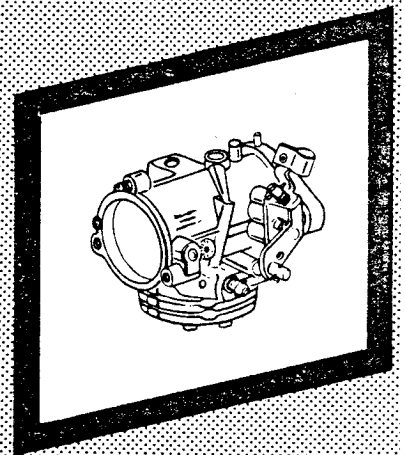
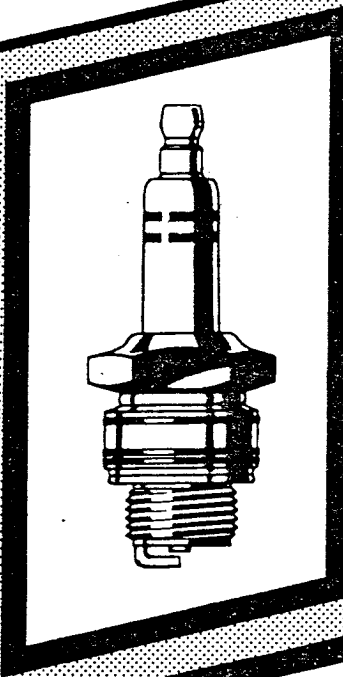
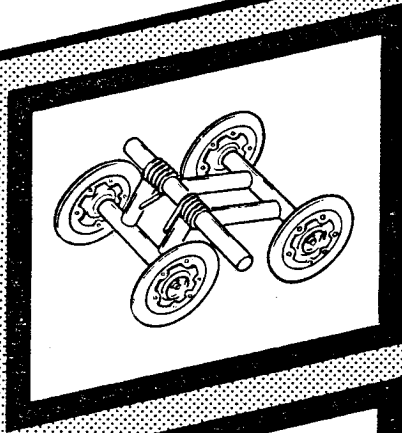


1970/71/72/73



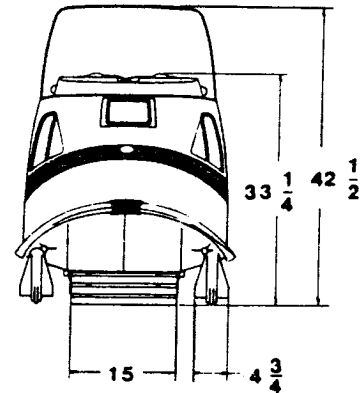
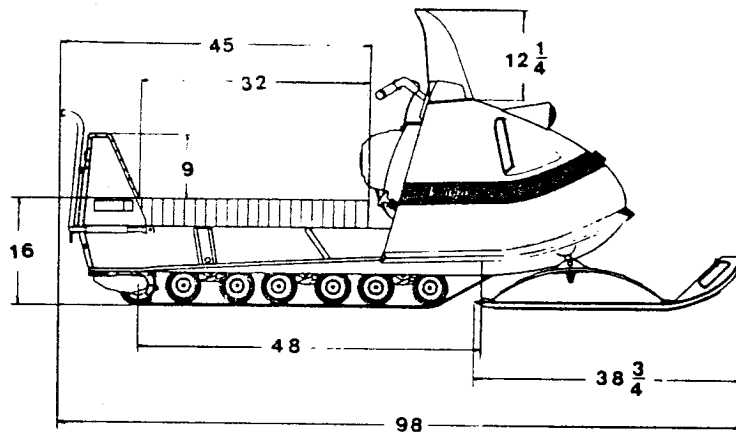
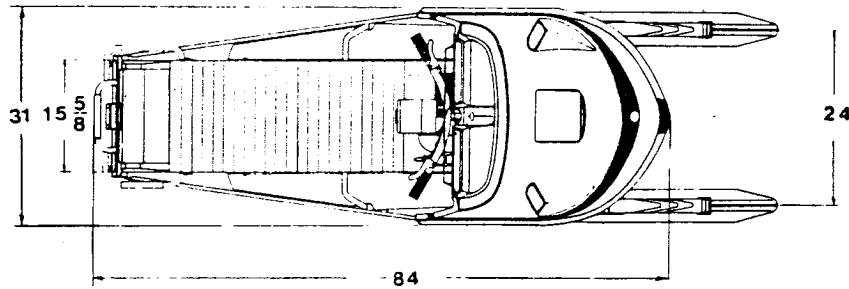
ski-doo®
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Technical Data Book



**Recreational
Products**

1970 MODEL

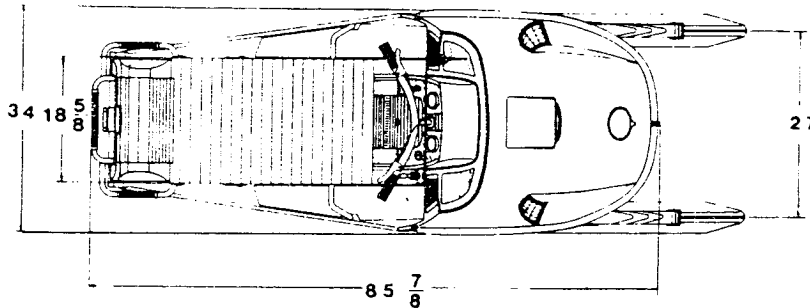


1970 OLYMPIQUE SPECIFICATIONS

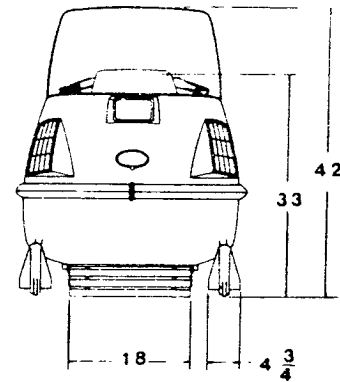
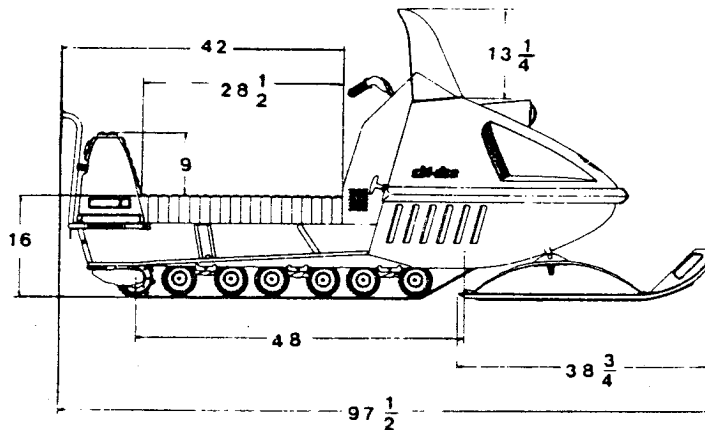
ITEM	OLYMPIQUE	12/3	335	335/E	399
ENGINE	No. of Cylinders	ONE	ONE	ONE	TWO
	Bore	76 M.M.	78 M.M.	78 M.M.	2x64.5 M.M.
	Stroke	66 M.M.	70 M.M.	70 M.M.	2x61 M.M.
	Displacement	299.4 c.c.	334.5 c.c.	334.5 c.c.	398.6 c.c.
	Compression Ratio	6.5:1	7.5:1	7.5:1	8.75:1
CHASSIS	Overall Length	98"	98"	98"	98"
	Overall Width	31"	31"	31"	31"
	Height W/O Windshield	33-1/4"	33-1/4"	33-1/4"	33-1/4"
	Weight (Lbs.)	295	300	335	320
	Bearing Area	1092 sq. in.	1092 sq. in.	1092 sq. in.	1092 sq. in.
	Ground Pressure (P.S.I.)	.270	.275	.306	.293
POWER TRAIN	Track (Width)	15"	15"	15"	15"
	Standard Gear Ratio	10/25	11/25	11/25	16/34
IGNITION	Starting	Manual	Manual	Electric	Manual
	Lighting Coil (Watts)	40W	40W	75W	75W
	Spark Plug(s) Bosch	M-240-T-1 *	M-240-T1 *	M-240-T-1 *	W-240-T-1 *
	Spark Plug (Gap)	.020"	.020"	.020"	.020"
	Breaker Points (Gap)	.014"-.018"	.014"-.018"	.014"-.018"	.014"-.018"
FUEL	Tank Capacity – Imp.	3 gal.	3 gal.	3 gal.	3 gal.
	Tank Capacity – U.S.	3.75 gal.	3.75 gal.	3.75 gal.	3.75 gal.
	Mixing Ratio (Gas/Oil)	20:1	20:1	20:1	20:1
BRAKE	Type	Drum	Drum	Drum	Drum
ACCES- SORIES	Speedometer	Optional	Optional	Optional	Optional
	Tachometer	Optional	Optional	Optional	Optional

*When ordering replacement spark plug(s), specify number shown above.

1970 MODEL



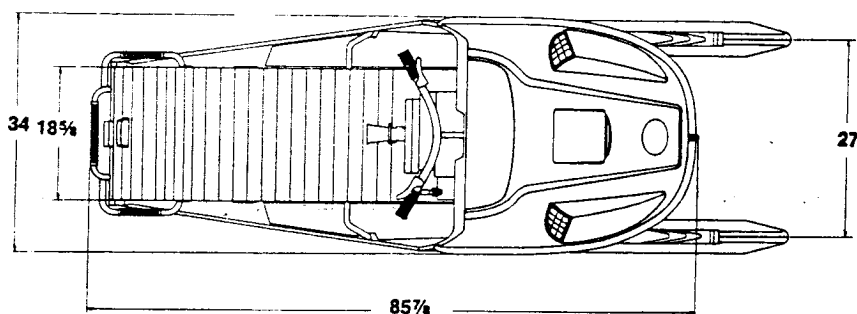
1970 NORDIC SPECIFICATIONS



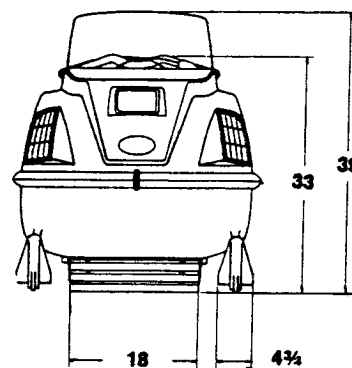
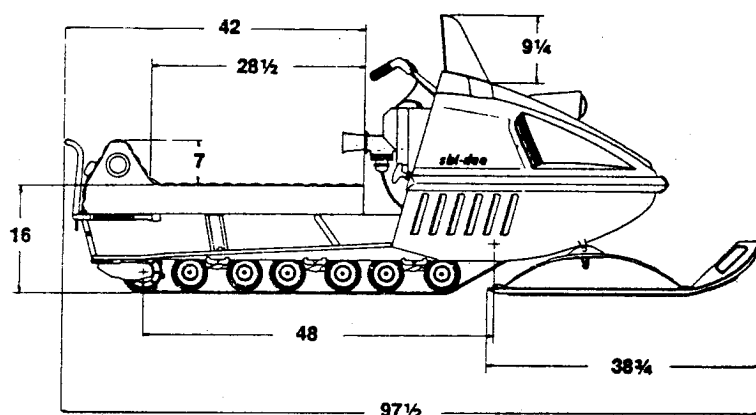
ITEM	NORDIC	399	399/E	640/E
ENGINE	No. of cylinders	TWO	TWO	TWO
	Bore	2x64.5 M.M.	2x64.5 M.M.	2x76 M.M.
	Stroke	2x61 M.M.	2x61 M.M.	2x70 M.M.
	Displacement	398.6 c.c.	398.6 c.c.	635.1 c.c.
	Compression Ratio	8.75:1	8.75:1	9:1
CHASSIS	Overall Length	97-1/2"	97-1/2"	97-1/2"
	Overall Width	34"	34"	34"
	Height W/O Windshield	33"	33"	36"
	Weight (Lbs.)	360	395	430
	Bearing Area	1242 sq. in.	1242 sq. in.	1242 sq. in.
POWER TRAIN	Ground Pressure (P.S.I.)	.290	.319	.345
	Track (Width)	18"	18"	18"
IGNITION	Standard Gear Ratio	16/34	16/34	20/34
	Starting	Manual	Electric	Electric
	Lighting Coil (Watts)	75W	75W	75W
	Spark Plug(s) Bosch	W-240-T-1 *	W-240-T-1 *	M-280-T-31 *
	Spark Plug (Gap)	.020"	.020"	.020"
FUEL	Breaker Points (Gap)	.014"-.018"	.014"-.018"	.014"-.018"
	Tank Capacity—Imp.	5 gal.	5 gal.	5 gal.
BRAKE	Tank Capacity--U.S.	6.25 gal.	6.25 gal.	6.25 gal.
	Mixing Ratio (Gas/Oil)	20:1	20:1	20:1
ACCESSORIES	Type	Drum	Drum	Drum
ACCESSORIES	Speedometer	Optional	Optional	Optional
	Tachometer	Optional	Optional	Optional

*When ordering replacement spark plug(s), specify number shown above.

1970 MODEL



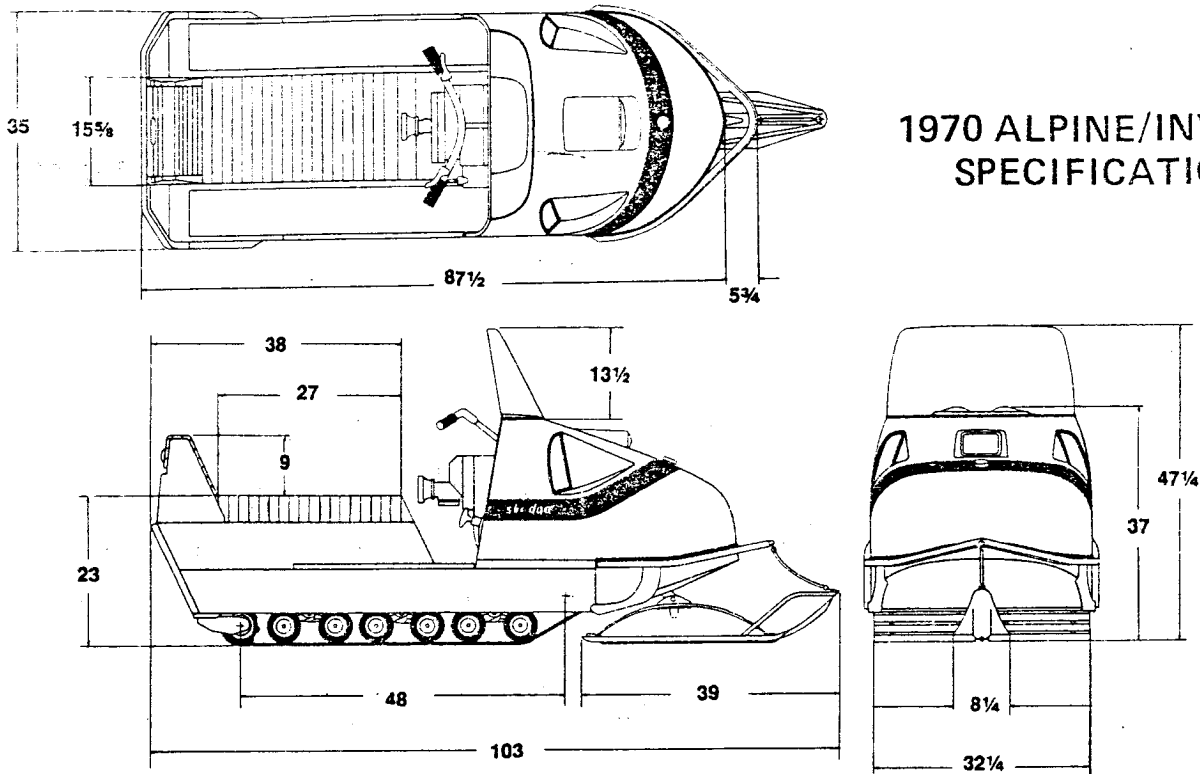
1970 T'NT SPECIFICATIONS



ITEM	T'NT	292	340	399	640
ENGINE	No. of Cylinders	ONE	ONE	TWO	TWO
	Bore	75 M.M.	78 M.M.	2x64.5 M.M.	2x76 M.M.
	Stroke	66 M.M.	70 M.M.	2x61 M.M.	2x70 M.M.
	Displacement	291.6 c.c.	334.5 c.c.	398.6 c.c.	635.1 c.c.
	Compression Ratio	10:1	10:1	10:1	
CHASSIS	Overall Length	96"	98"	97-1/2"	97-1/2"
	Overall Width	29"	31"	34"	34"
	Height W/O Windshield	33"	33"	33"	33"
	Weight (Lbs.)	300	305	355	385
	Bearing Area	1092 sq. in.	1092 sq. in.	1242 sq. in.	1242 sq. in.
	Ground Pressure (P.S.I.)	.275	.279	.286	.309
POWER TRAIN	Track (Width)	15"	15"	18"	18"
	Standard Gear Ratio	10/25	16/34	16/34	20/34
IGNITION	Starting	Manual	Manual	Manual	Manual
	Lighting Coil (Watts)	40W	40W	75W	75W
	Spark Plug(s) Bosch	M-280-T-31*	M-280-T-31*	W-260-T-1*	M-280-T-31*
	Spark Plug (Gap)	.018"- .022"	.018"- .022"	.018"- .022"	.018"- .022"
FUEL	Breaker Points (Gap)	.014"- .018"	.014"- .018"	.014"- .018"	.014"- .018"
	Tank Capacity—Imp.	3 gal.	3 gal.	5 gal.	5 gal.
BRAKE	Tank Capacity—U.S.	3.75 gal.	3.75 gal.	6.25 gal.	6.25 gal.
	Mixing Ratio (Gas/oil)	20:1	20:1	20:1	20:1
ACCES- SORIES	Type	Drum	Drum	Drum	Drum
	Speedometer	Standard	Standard	Standard	Standard
	Tachometer	Standard	Standard	Standard	Standard
*When ordering replacement spark plug(s), specify number shown above.					

1970 MODEL

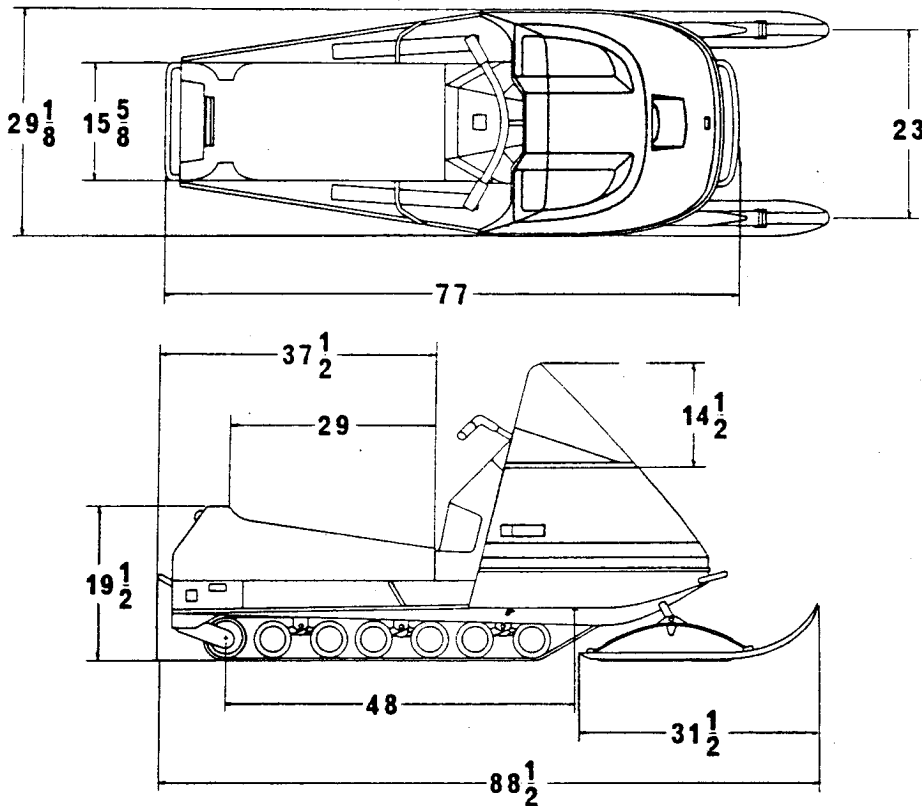
1970 ALPINE/INVADER SPECIFICATIONS



ITEM		ALPINE 399/R	ALPINE 399/ER	INVADER 640/ER
ENGINE	No. of cylinders	TWO	TWO	TWO
	Bore	2x64.5 M.M.	2x64.5 M.M.	2x76 M.M.
	Stroke	2x61 M.M.	2x61 M.M.	2x70 M.M.
	Displacement	398.6 c.c.	398.6 c.c.	635.1 c.c.
	Compression Ratio	8.75:1	8.75:1	9:1
CHASSIS	Overall Length	103"	103"	103"
	Overall Width	35"	35"	35"
	Height W/O Windshield	37"	37"	37"
	Weight (Lbs.)	480	515	550
	Bearing Area	1756 sq. in.	1756 sq. in.	1756 sq. in.
POWER TRAIN	Ground Pressure (P.S.I.)	.274	.294	.314
	Track (Width)	2x15"	2x15"	2x15"
	Standard Gear Ratio	13/39	13/39	13/25
	Reverse	Standard	Standard	Standard
IGNITION	Starting	Manual	Electric	Electric
	Lighting Coil (Watts)	75W	75W	75W
	Spark Plug(s) Bosch	W-240-T-1*	W-240-T-1*	M-280-T-31*
	Spark Plug (Gap)	.018"-.022"	.018"-.022"	.018"-.022"
	Breaker Points (Gap)	.014"-.018"	.014"-.018"	.014"-.018"
FUEL	Tank Capacity — Imp.	5 gal.	5 gal.	5 gal.
	Tank Capacity — U.S.	6.25 gal.	6.25 gal.	6.25 gal.
	Mixing Ratio (Gas/Oil)	20:1	20:1	20:1
BRAKE	Type	Disc	Disc	Disc
ACCESSORIES	Speedometer	N/A	N/A	N/A
	Tachometer	Optional	Optional	Standard
*When ordering replacement spark plug(s), specify number shown above.				

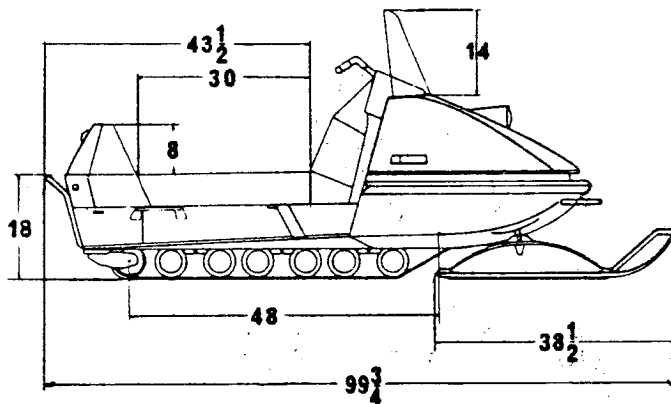
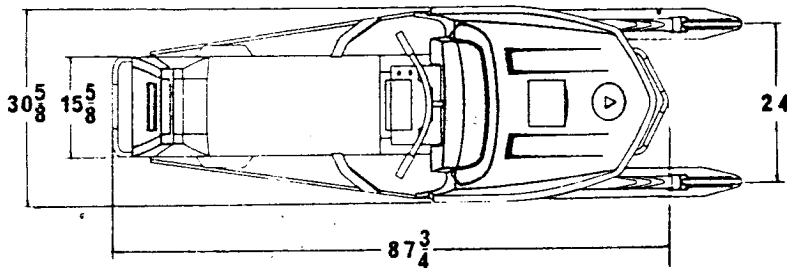
1971 MODEL

1971 ELAN SPECIFICATIONS



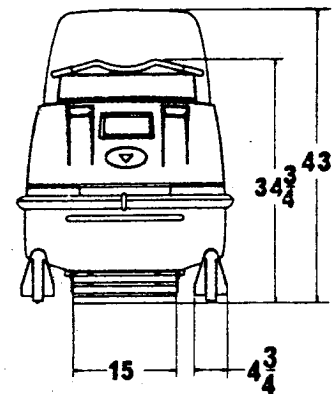
ITEM	ELAN	ELAN 250	ELAN 250E
ENGINE	No. of Cylinders Bore Stroke Displacement Compression Ratio	ONE 69 M.M. 66 M.M. 247 c.c. 7.5:1	ONE 69 M.M. 66 M.M. 247 c.c. 7.5:1
CHASSIS	Overall Length Overall Width Height W/O Windshield Weight (Lbs.) Bearing Area Ground Pressure (P.S.I.)	88.5" 29-1/8" 33.5" 246 1070 sq. in. 0.230	88.5" 29-1/8" 33.5" 282 1070 sq. in. 0.263
POWER TRAIN	Track (Width) Standard Gear Ratio	15" 10/25	15" 10/25
IGNITION	Starting Lighting Coil (Watts) Spark Plug (Bosch) Spark Plug (Gap) Breaker Points (Gap)	Manual 40W M-240-T-1* 0.018"-0.022" 0.014"-0.018"	Electric 75W M-240-T-1* 0.018"-0.022" 0.014"-0.018"
FUEL	Tank Capacity — Imp. Tank Capacity — U.S. Mixing Ratio (Gas/Oil)	3.5 gals. 4.38 gals. 20:1	3.5 gals. 4.38 gals. 20:1
BRAKE	Type	Pivoting	Pivoting
ACCESSORIES	Speedometer Tachometer	Optional Optional	Optional Optional
*When ordering replacement spark plug(s), specify number shown above.			

1971 MODEL



1971 OLYMPIQUE SPECIFICATIONS

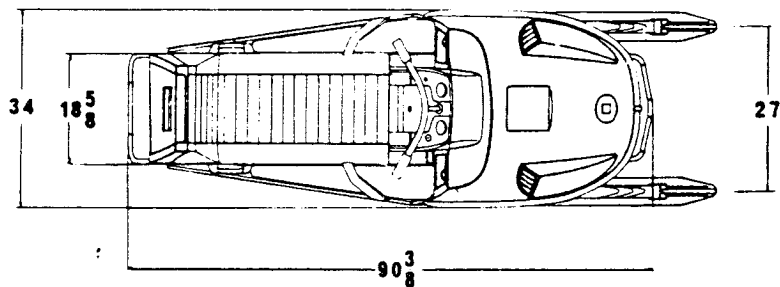
Illustrated
MODEL 335



ITEM	OLYMPIQUE	300	335	335E	399	399E
ENGINE	No. of Cylinders	ONE	ONE	ONE	TWO	TWO
	Bore	76 M.M.	78 M.M.	78 M.M.	2x64.5 M.M.	2x64.5 M.M.
	Stroke	66 M.M.	70 M.M.	70 M.M.	2x61 M.M.	2x61 M.M.
	Displacement	299 c.c.	335 c.c.	335 c.c.	399 c.c.	399 c.c.
	Compression Ratio	7:1	8:1	8:1	8.75:1	8.75:1
CHASSIS	Overall Length	99-3/4	99-3/4	99-3/4	99-3/4	99-3/4
	Overall Width	30-5/8	30-5/8	30-5/8	30-5/8	30-5/8
	Height W/O Windshield	34-3/4	34-3/4	34-3/4	34-3/4	34-3/4
	Weight (Lbs.)	327	331	360	347	282
	Bearing Area	1092 sq. in.	1092 sq. in.	1092 sq. in.	1092 sq. in.	1092 sq. in.
	Ground Pressure (P.S.I.)	0.300	0.304	0.330	0.318	0.350
POWER TRAIN	Track (Width)	15"	15"	15"	15"	15"
	Standard Gear Ratio	15/35	15/34	15/34	16/34	16/34
IGNITION	Starting	Manual	Manual	Electric	Manual	Electric
	Lighting Coil (Watts)	40W	40W	75W	75W	75W
	Spark Plug (Bosch)	M-240-T-1*	M-240-T-1*	M-240-T-1*	W-240-T-1*	W-240-T-1*
	Spark Plug (Gap)	.018"-.022"	.018"-.022"	.018"-.022"	.018"-.022"	.018"-.022"
	Breaker Points (Gap)	.014"-.018"	.014"-.018"	.014"-.018"	.014"-.018"	.014"-.018"
FUEL	Tank Capacity—Imp.	5 gals.	5 gals.	5 gals.	5 gals.	5 gals.
	Tank Capacity—U.S.	6.25 gals.	6.25 gals.	6.25 gals.	6.25 gals.	6.25 gals.
	Mixing Ratio (Gas/Oil)	20:1	20:1	20:1	20:1	20:1
BRAKE	Type	Drum	Drum	Drum	Drum	Drum
ACCESSORIES	Speedometer	Optional	Optional	Optional	Optional	Optional
	Tachometer	Optional	Optional	Optional	Optional	Optional

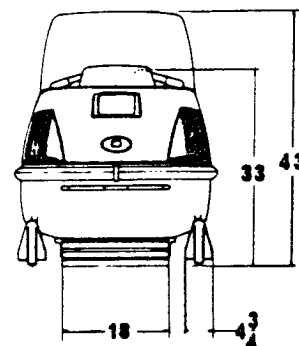
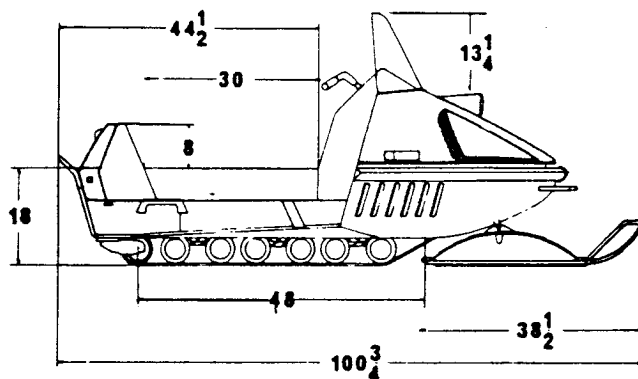
*When ordering replacement spark plug(s), specify number shown above.

1971 MODEL



1971 NORDIC AND SKANDIC SPECIFICATIONS

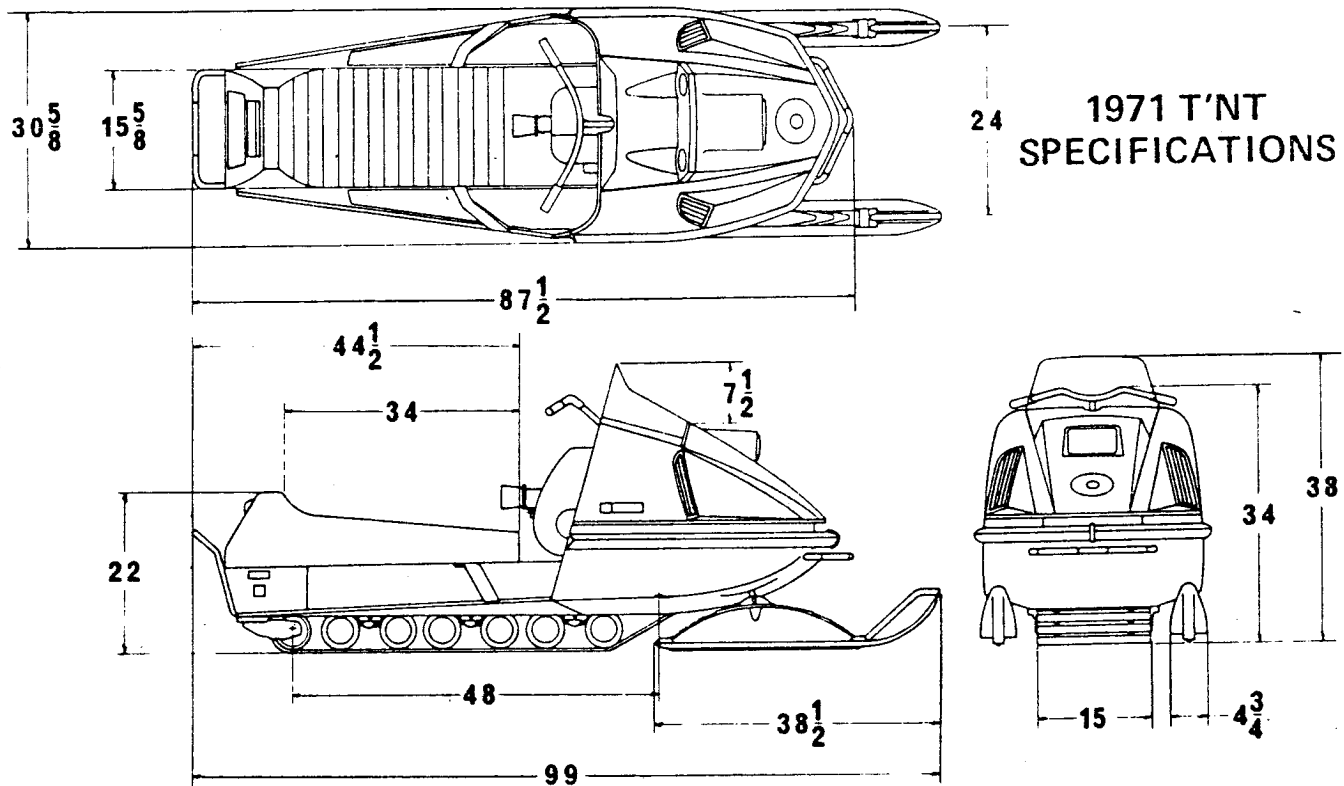
Illustrated —
MODEL 399E



ITEM		NORDIC 399	NORDIC 399E	NORDIC 640E	SKANDIC
ENGINE	No. of Cylinders	TWO	TWO	TWO	ONE
	Bore	2x64.5 M.M.	2x64.5 M.M.	2x76 M.M.	78 M.M.
	Stroke	2x61 M.M.	2x61 M.M.	2x70 M.M.	30 M.M.
	Displacement	399 c.c.	399 c.c.	635 c.c.	335 c.c.
	Compression Ratio	8.75:1	8.75:1	9:1	8:1
CHASSIS	Overall Length	100-3/4	100-3/4	100-3/4	98-3/4
	Overall Width	34	34	34	34
	Height W/O Windshield	33	33	33	33
	Weight (Lbs.)	360	395	430	335
	Bearing Area	1242 sq. in.	1242 sq. in.	1242 sq. in.	1242 sq. in.
POWER TRAIN	Ground Pressure (P.S.I.)	.291	.318	.346	.270
	Track (Width)	18"	18"	18"	18"
	Standard Gear Ratio	16/34	16/34	20/34	12/33
	Starting	Manual	Electric	Electric	Manual
	Lighting Coil (Watts)	75W	75W	75W	40W
IGNITION	Spark Plug (Bosch)	W-240-T-1*	W-240-T-1*	M-280-T-31*	M-240-T-1*
	Spark Plug (Gap)	.018"-.022"	.018"-.022"	.018"-.022"	.018"-.022"
	Breaker Points (Gap)	.014"-.018"	.014"-.018"	.014"-.018"	.014"-.018"
FUEL	Tank Capacity—Imp.	5 gals.	5 gals.	5 gals.	5 gals.
	Tank Capacity—U.S.	6.25 gals.	6.25 gals.	6.25 gals.	6.25 gals.
	Mixing Ratio (Gas/Oil)	20:1	20:1	20:1	20:1
BRAKE	Type	Drum	Drum	Drum	Drum
ACCES- SORIES	Speedometer	Optional	Optional	Standard	Optional
	Tachometer	Optional	Optional	Standard	Optional

*When ordering replacement spark plug(s), specify number shown above.

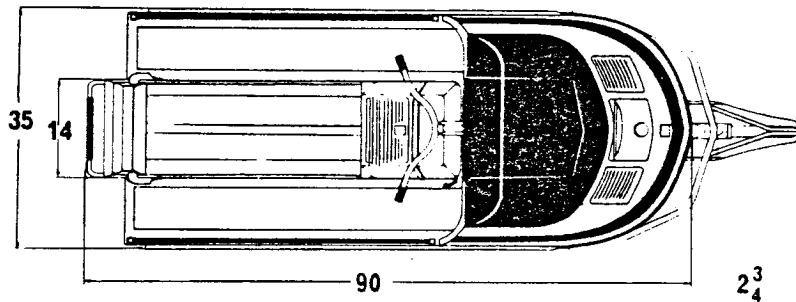
1971 MODEL



ITEM	T'NT	292	340	440	640	775
ENGINE	No. of Cylinders	ONE	ONE	TWO	TWO	TWO
	Bore	75 M.M.	78 M.M.	2x67.5 M.M.	2x76 M.M.	2x82 M.M.
	Stroke	66 M.M.	70 M.M.	2x61 M.M.	2x70 M.M.	2x73 M.M.
	Displacement	292 c.c.	335 c.c.	437 c.c.	635 c.c.	771 c.c.
	Compression Ratio	10.5:1	10.5:1	10.5:1	10.0:1	10.5:1
CHASSIS	Overall Length	99	99	100	100	100
	Overall Width	30-5/8	30-5/8	34	34	34
	Height W/O Windshield	34	34	36	36	36
	Weight (Lbs.)	310	315	360	390	430
	Bearing Area	1092 sq. in.	1092 sq. in.	1242 sq. in.	1242 sq. in.	1242 sq. in.
	Ground Pressure (P.S.I.)	0.285	0.289	0.291	0.314	0.346
POWER TRAIN	Track (Width)	15"	15"	18"	18"	18"
	Standard Gear Ratio	15/34	16/34	16/34	20/34	22/34
IGNITION	Starting	Manual	Manual	Manual	Manual	Manual
	Lighting Coil (Watts)	75W	75W	75W	75W	75W
	Spark Plug(s) (Bosch)	M-280-T-31*	M-280-T-31*	M-280-T-31*	M-280-T-31*	M-310-T-31*
	Spark Plug (Gap)	.018"-.022"	.018"-.022"	.018"-.022"	.018"-.022"	.018"-.022"
	Breaker Points (Gap)	.014"-.018"	.014"-.018"	.014"-.018"	.014"-.018"	.014"-.018"
FUEL	Tank Capacity—Imp.	5 gals.	5 gals.	5 gals.	5 gals.	5 gals.
	Tank Capacity—U.S.	6.25 gals.	6.25 gals.	6.25 gals.	6.25 gals.	6.25 gals.
	Mixing Ratio (Gas/Oil)	20:1	20:1	20:1	20:1	20:1
BRAKE	Type	Drum	Drum	Drum	Drum	Drum
ACCESSORIES	Speedometer	Standard	Standard	Standard	Standard	Standard
	Tachometer	Standard	Standard	Standard	Standard	Standard

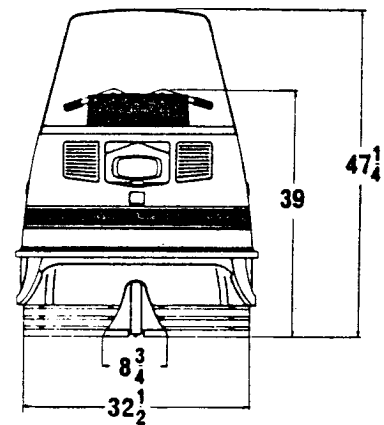
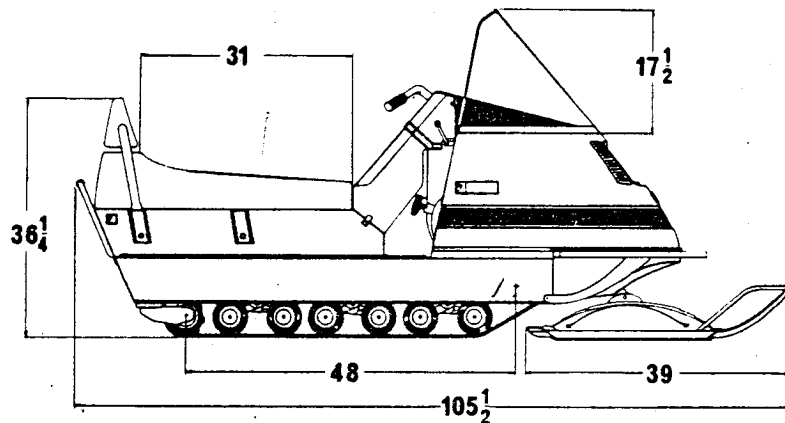
*When ordering replacement spark plug(s), specify number shown above.

1971 MODEL



1971 ALPINE/VALMONT SPECIFICATIONS

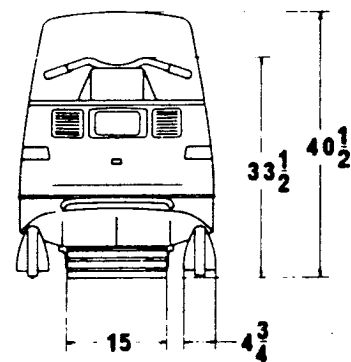
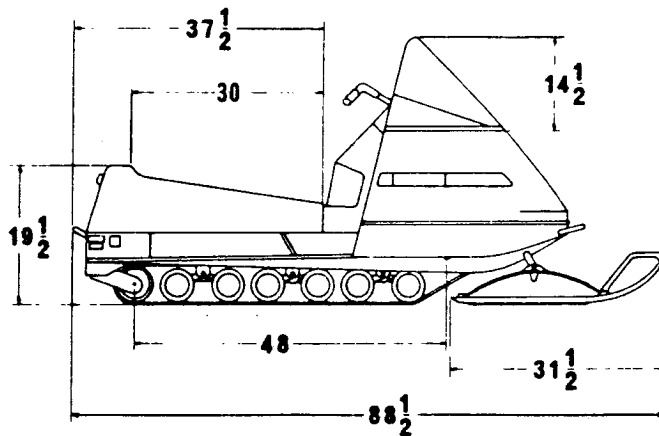
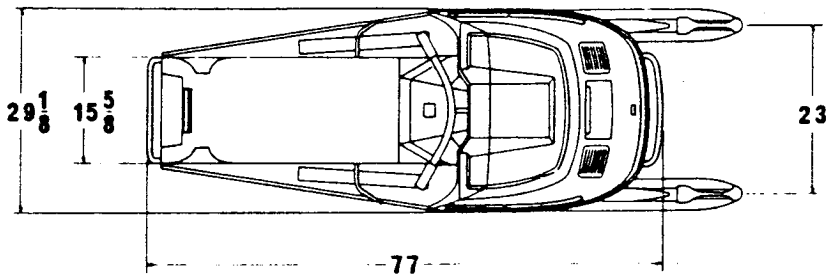
Illustrated
VALMONT MODEL



ITEM	ALPINE/VALMONT	399R	399ER	640ER
ENGINE	No. of Cylinders	TWO	TWO	TWO
	Bore	2x64.5 M.M.	2x64.5 M.M.	2x76 M.M.
	Stroke	2x61 M.M.	2x61 M.M.	2x70 M.M.
	Displacement	399 c.c.	399 c.c.	635 c.c.
	Compression Ratio	8.75:1	8.75:1	9:1
CHASSIS	Overall Length—Alpine	113-3/4"	113-3/4"	113-3/4"
	—Valmont	105-1/2"	105-1/2"	105-1/2"
	Overall Width	35"	35"	35"
	Height W/O Windshield	39"	39"	39"
	Weight (Lbs.)—Alpine	508	543	578
	—Valmont	450	485	520
	Bearing Area—Alpine	2160 sq. in.	2160 sq. in.	2160 sq. in.
POWER TRAIN	—Valmont	1756 sq. in.	1756 sq. in.	1756 sq. in.
	Grd. Press (P.S.I.)—Alpine	0.236	0.251	0.267
	—Valmont	0.256	0.276	0.296
	Track (Width)	2x15"	2x15"	2x15"
	Standard Gear Ratio	13/39	13/39	13/29
	Reverse	Standard	Standard	Standard
IGNITION	Starting	Manual	Electric	Electric
	Lighting Coil (Watts)	75W	75W	75W
	Spark Plug(s) (Bosch)	W-240-T-1*	W-240-T-1*	M-280-T-31*
	Spark Plug (Gap)	.018"-.022"	.018"-.022"	.018"-.022"
	Breaker Points (Gap)	.014"-.018"	.014"-.018"	.014"-.018"
FUEL	Tank Capacity—Imp.	5 gals.	5 gals.	5 gals.
	Tank Capacity—U.S.	6.25 gals.	6.25 gals.	6.25 gals.
	Mixing Ratio (Gas/Oil)	20:1	20:1	20:1
BRAKE	Type	Disc	Disc	Disc
ACCESSORIES	Tachometer—Alpine	Optional	Optional	Optional
	—Valmont	Standard	Standard	Standard

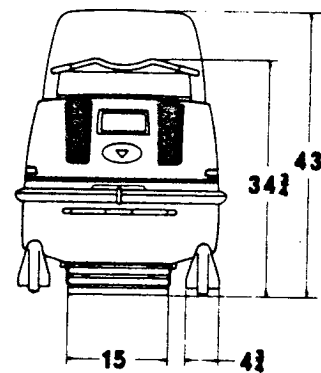
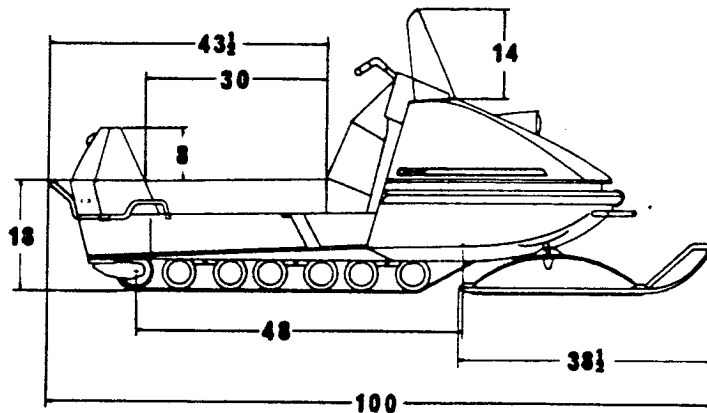
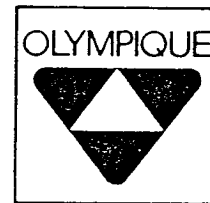
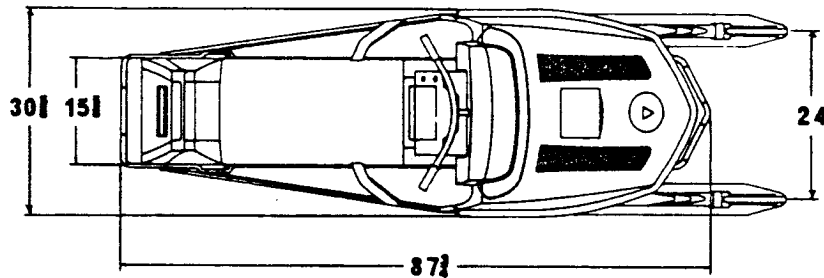
*When ordering replacement spark plug(s), specify number shown above.

1972 MODEL



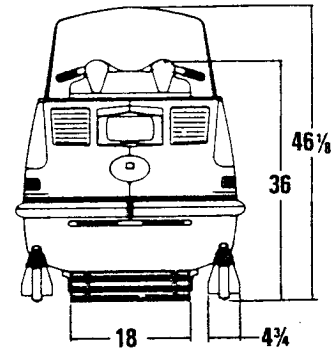
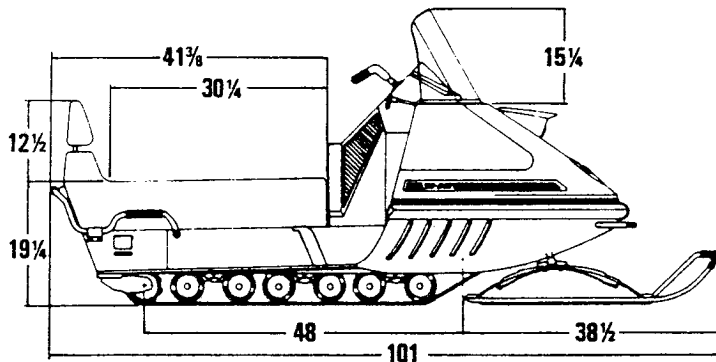
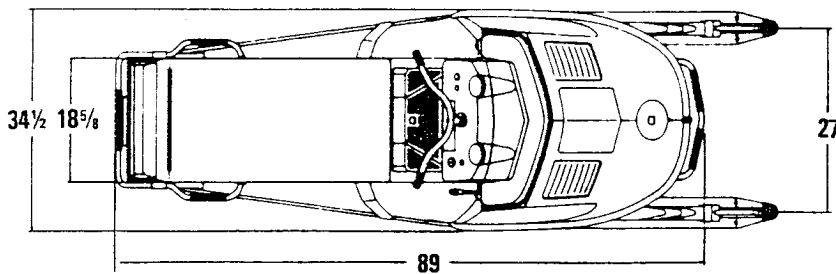
ITEM	ÉLAN	250	250E
ENGINE	No. of Cylinders Bore Stroke Displacement Compression Ratio Starting	One 69mm 66mm 246.8cc 7.5:1 Manual	One 69mm 66mm 246.8cc 7.5:1 Electric
CHASSIS	Overall Length Overall Width Height w/o Windshield Weight (lb.) Bearing Area Ground Pressure (P.S.I.) Max. Load Capacity	88-1/2" 29-1/8" 33-1/2" 252 1070 sq. in. 0.236 200 lbs.	88-1/2" 29-1/8" 33-1/2" 288 1070 sq.in. 0.269 200 lbs.
POWER TRAIN	Track (Width) Standard Gear Ratio	15" 10/25	15" 10/25
ELECTRICAL SYSTEM	Lighting Coil (Watts) Spark Plug (Bosch) Spark Plug (Gap) Breaker Points (Gap)	40W M-240-T-1 .020" .014" - .018"	75W M-240-T-1 .020" .014" - .018"
FUEL	Tank Capacity – Imp. – U.S. Mixing Ratio (Gas/Oil)	3.5 gals. 4.38 gals. 20/1	3.5 gals. 4.38 gals. 20/1
BRAKE	Type	Pivoting	Pivoting
ACCESSORIES	Speedometer – Tachometer	Optional	Optional

1972 MODEL



ITEM	OLYMPIQUE	300	335	335E	399	399E
ENGINE	No. of Cylinders Bore Stroke Displacement Compression Ratio Starting	One 76mm 66mm 299cc 7:1 Manual	One 78mm 70mm 335cc 9:1 Manual	Two 78mm 70mm 335cc 9:1 Electric	Two 2x64.5mm 2x61mm 399cc 9:1 Manual	Two 2x64.5mm 2x61mm 399cc 9:1 Electric
CHASSIS	Overall Length Overall Width Height w/o Windshield Weight (lbs.) Bearing Area Ground Pressure (P.S.I.)	100" 30-5/8" 34-3/4" 327 1070 sq.in 0.299	100" 30-5/8" 34-3/4" 333 1070 sq.in. 0.305	100" 30-5/8" 34-3/4" 362 1070 sq.in. 0.332	100" 30-5/8" 34-3/4" 349 1070 sq.in. 0.320	100" 30-5/8" 34-3/4" 384 1070 sq.in. 0.352
POWER TRAIN	Track (Width) Standard Gear Ratio	15" 15/35	15" 15/34	15" 15/34	15" 16/34	15" 16/34
ELECTRICAL SYSTEM	Lighting Coil (Watts) Spark Plug (Bosch) Spark Plug (gap) Breaker Points (gap)	40W M-240-T-1 .020" .014" - .018"	40W M-240-T-1 .020" .014" - .018"	75W M-240-T-1 .020" .014" - .018"	75W M-240-T-1 .020" .014" - .018"	75W M-240-T-1 .020" .014" - .018"
FUEL	Tank Capacity — Imp. — U.S. Mixing Ratio (Gas/Oil)	5 gals. 6.25 gals. 20/1	5 gals. 6.25 gals. 20/1	5 gals. 6.25 gals. 20/1	5 gals. 6.25 gals. 20/1	5 gals. 6.25 gals. 20/1
BRAKE	Type	Drum	Drum	Drum	Drum	Drum
ACCESSORIES	Speedometer Tachometer	Optional Optional	Optional Optional	Optional Optional	Optional Optional	Optional Optional

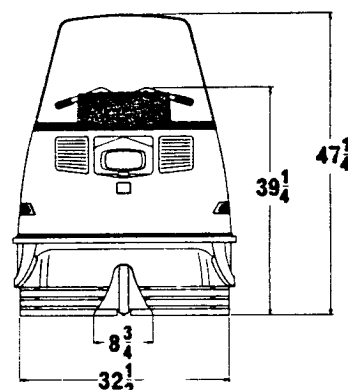
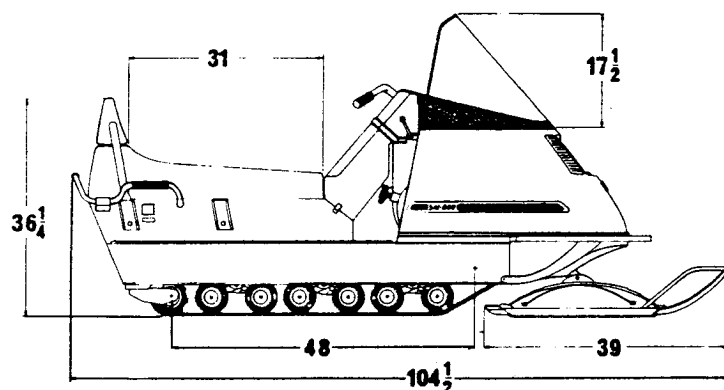
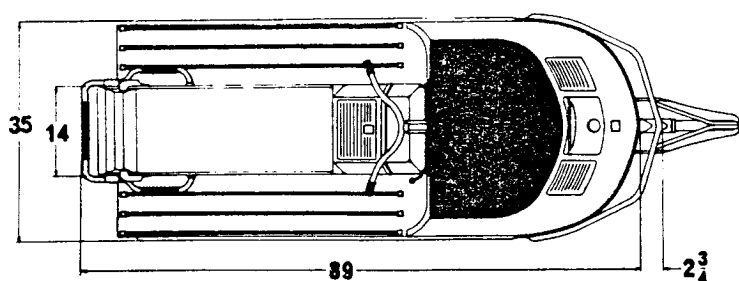
1972 MODEL



ILLUSTRATED MODEL NORDIC 440E

ITEM		NORDIC 440	NORDIC 440E	NORDIC 640ER	SKANDIC 335
ENGINE	No. of Cylinders Bore Stroke Displacement Compression Ratio Starting	Two 2x67.5mm 2x61mm 436.6cc 9:1 Manual	Two 2x67.5mm 2x61mm 436.6cc 9:1 Electric	Two 2x76mm 2x70mm 635.1cc 9:1 Electric	One 78mm 70mm 335cc 9:1 Manual
CHASSIS	Overall Length Overall Width Height w/o Windshield Weight (lbs.) Bearing Area Ground Pressure (P.S.I.)	101" 34-1/2" 36" 405 1242 sq.in. 0.326	101" 34-1/2" 36" 440 1242 sq.in. 0.354	101" 34-1/2" 36" 474 1242 sq.in. 0.382	98-3/4" 34" 33" 335 1242 sq.in. 0.270
POWER TRAIN	Track (Width) Standard Gear Ratio	18" 16/34	18" 16/34	18" 19/33	18" 12/33
ELECTRICAL SYSTEM	Lighting Coil (Watts) Spark Plug (Bosch) Spark Plug (gap) Breaker Points (gap)	75W M-240-T-1 .020" .014" - .018"	75W M-240-T-1 .020" .014" - .018"	120W M-280-T-31 .020" .014" - .018"	40W M-240-T-1 .020" .014" - .018"
FUEL	Tank Capacity — Imp. — U.S. Mixing Ratio (gas/oil)	5.5 gals. 6.875 gals. 20/1	5.5 gals. 6.875 gals. 20/1	5.5 gals. 6.875 gals. 20/1	5 gals. 6.25 gals. 20/1
BRAKE	Type	Disc	Disc	Disc	Drum
ACCESSORIES	Speedometer Tachometer	Optional Optional	Optional Optional	Standard Standard	Optional Optional

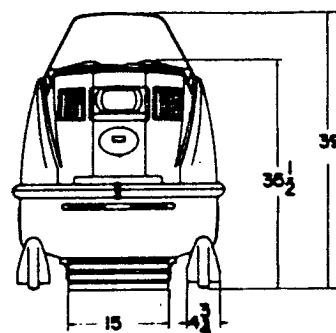
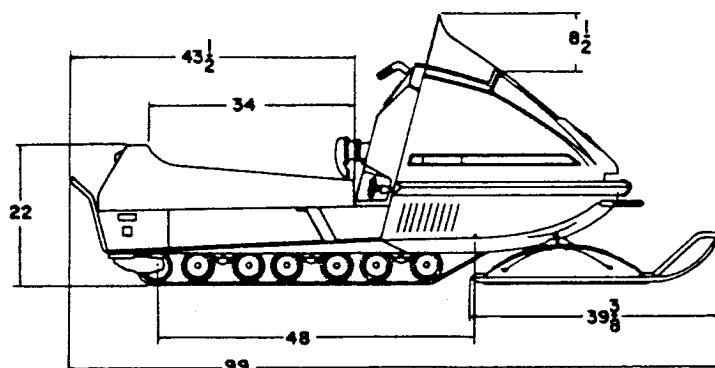
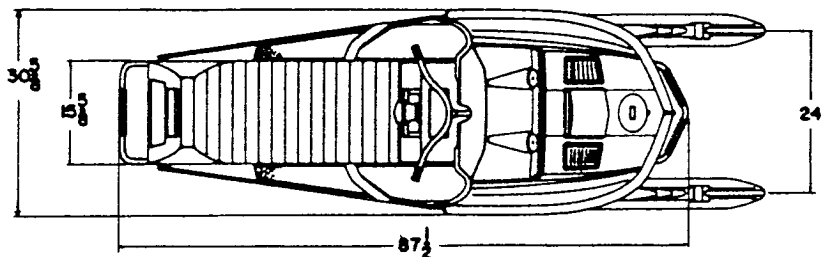
1972 MODEL



ILLUSTRATED MODEL 440 VALMONT

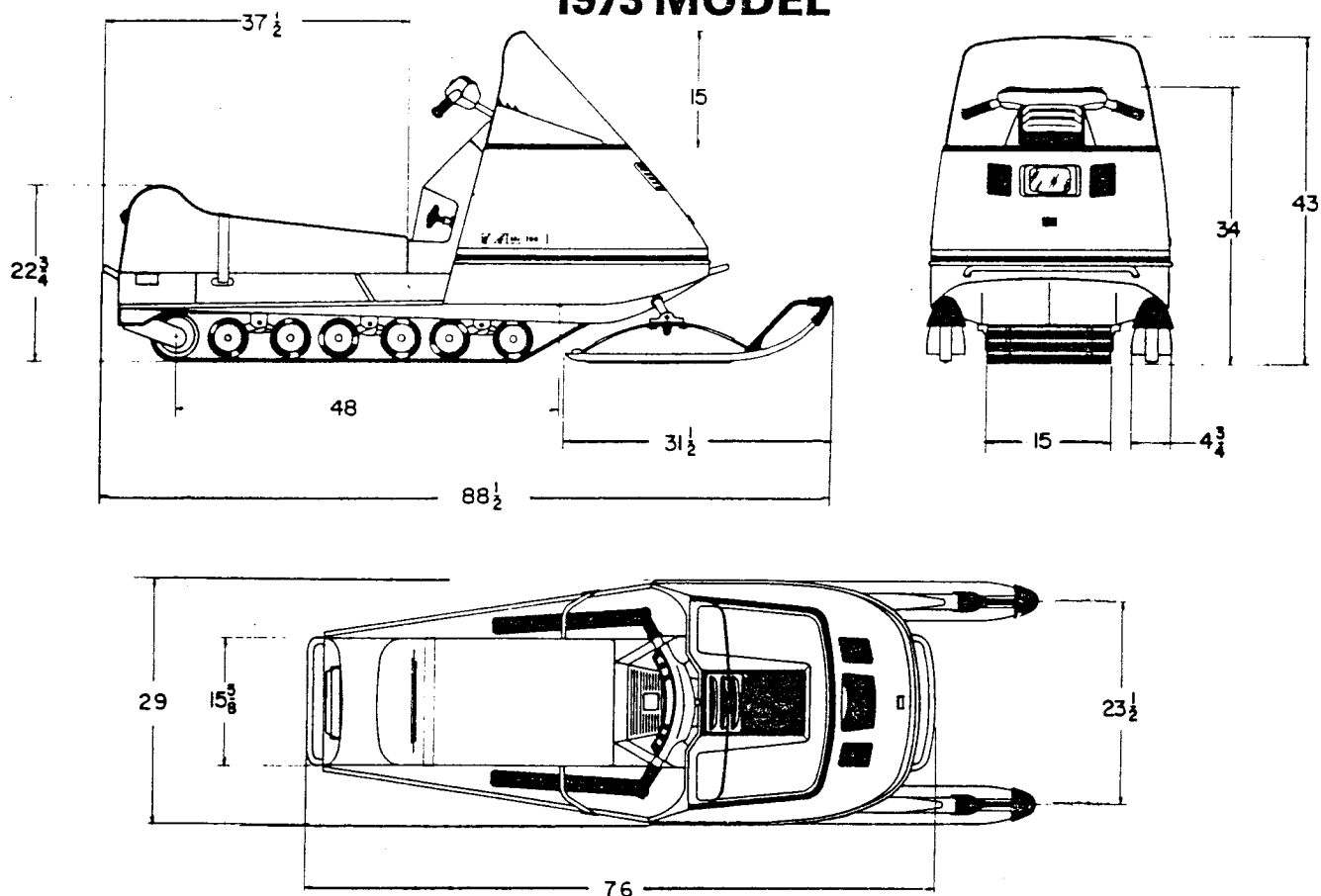
ITEM		VALMONT 440R	VALMONT 440ER	ALPINE 640ER
ENGINE	No. of Cylinder Bore Stroke Displacement Compression Ratio Starting	Two 2x67.5mm 2x61mm 436.6cc 9:1 Manual	Two 2x67.5mm 2x61mm 436.6cc 9:1 Electric	Two 2x76mm 2x70mm 635.1cc 9:1 Electric
CHASSIS	Overall Length Overall Width Height w/o Windshield Weight (lbs.) Bearing Area Ground Pressure (P.S.I.)	104-1/2" 35" 39-1/4" 496 1756 sq.in. 0.282	104-1/2" 35" 39-1/4" 531 1756 sq.in. 0.302	113-1/4" 35" 39-1/4" 596 2160 sq.in. 0.277
POWER TRAIN	Track (Width) Standard Gear Ratio Reverse	2 x 15" 13/39 Standard	2 x 15" 13/39 Standard	2 x 15" 13/29 Standard
ELECTRICAL SYSTEM	Lighting Coil (Watts) Spark Plug (Bosch) Spark Plug (gap) Breaker Points (gap)	75W M-240-T-1 .020" .014" - .018"	75W M-240-T-1 .020" .014" - .018"	120W M-280-T-31 .020" .014" - .018"
FUEL	Tank Capacity – Imp. – U.S. Mixing Ratio (gas/oil)	5 gals. 6.25 gals. 20/1	5 gals. 6.25 gals. 20/1	5 gals. 6.25 gals. 20/1
BRAKE	Type	Disc	Disc	Disc
ACCESSORIES	Tachometer	Standard	Standard	Optional

1972 MODEL



ITEM	T'NT	292	340	440	640	775
ENGINE	No. of Cylinders Bore Stroke Displacement Compression Ratio Starting	One 75mm 66mm 291.6cc 10.5:1 Manual	Two 2x59.5mm 2x61mm 339.2cc 11.8:1 Manual	Two 2x67.5mm 2x61mm 436.6cc 11.8:1 Manual	Two 2x76mm 2x70mm 635.1cc 10.0:1 Manual	Two 2x82mm 2x72mm 771cc 10.5:1 Manual
CHASSIS	Overall Length Overall Width Height w/o Windshield Weight (lbs.) Bearing Area Ground Pressure (P.S.I.)	99" 30-5/8" 35-1/2" 316 1092 sq.in. 0.289	99" 30-5/8" 35-1/2" 328 1092 sq.in. 0.300	99" 30-5/8" 35-1/2" 356 1092 sq.in. 0.326	101" 34-1/2" 36-1/2" 400 1242 sq.in. 0.322	101" 34-1/2" 36-1/2" 440 2142 sq.in. 0.354
POWER TRAIN	Track (Width) Standard Gear Ratio	15" 15/34	15" 16/34	15" 18/34	18" 20/34	18" 22/34
ELEC-TRICAL SYSTEM	Lighting Coil (Watts) Spark Plug (Bosch) Spark Plug (gap) (except pre-gapped plug) Breaker Points (gap)	75W M-280-T-31 .020" .014" - .018"	75W W-260-T-1 .020" .014" - .018"	75W M-280-T-1 .020" .014" - .018"	75W M-280-T-31 .020" .014" - .018"	75W M-310-T-31 .020" .014" - .018"
FUEL	Tank Capacity — Imp. — U.S. Mixing Ratio (gas/oil)	5 gals. 6.25 gals. 20/1	5 gals. 6.25 gals. 20/1	5 gals. 6.25 gals. 20/1	5.5 gals. 6.875 gals. 20/1	5.5 gals. 6.875 gals. 20/1
BRAKE	Type	Disc	Disc	Disc	Disc	Disc
ACCES-SORIES	Speedometer Tachometer	Standard Standard	Standard Standard	Standard Standard	Standard Standard	Standard Standard

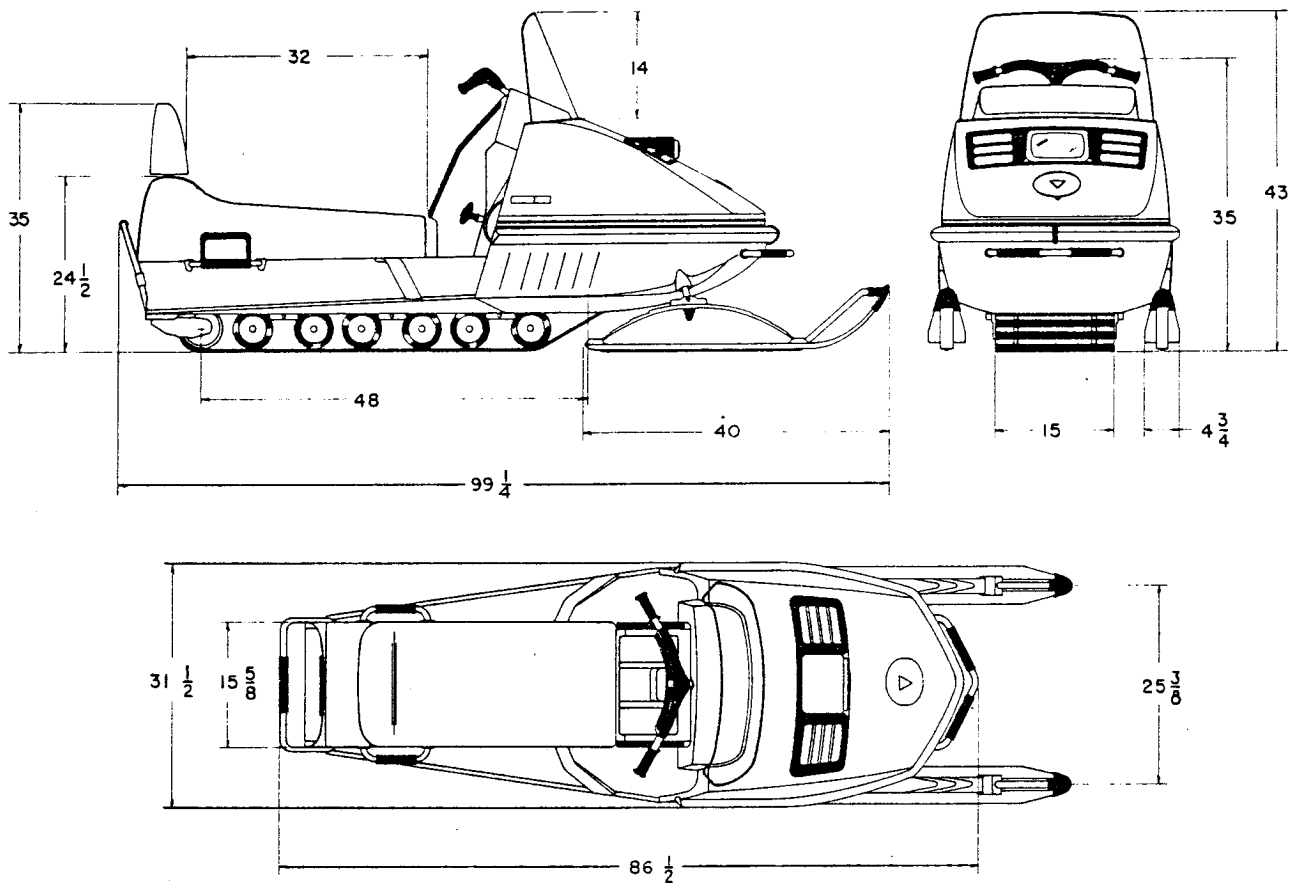
1973 MODEL



MODEL	ÉLAN	250	250E	250T	250SS
ENGINE	No. of cylinders	One	One	Two	Two
	Bore	69mm	69mm	54mm	54mm
	Stroke	66mm	66mm	54mm	54mm
	Displacement	246.8cc	246.8cc	247.3cc	247.3cc
	Compression Ratio	7.5:1	7.5:1	11.2:1	11.8:1
	Carburetor (Tillotson)	1 X HR	1 X HR	1 X HR	2 X HR
CHASSIS	Overall Length	88 1/2"	88 1/2"	88 1/2"	88 1/2"
	Overall Width	29"	29"	32 1/2"	32 1/2"
	Height	43"	43"	43"	43"
	Height w/o Windshield	34"	34"	34"	34"
	Weight (lbs.)	265	301	270	280 approx.
	Bearing Area	1070 sq.in.	1070 sq.in.	1070 sq.in.	1070 sq.in.
	Ground Pressure (p.s.i.)	0.248	0.281	0.252	0.262 approx.
	Maximum Load Capacity	200 lbs.	200 lbs.	200 lbs.	200 lbs.
POWER TRAIN	Track Width	15"	15"	15"	15"
	Std. Gear Ratio	10/25	10/25	14/35	14/34
ELECTRICAL SYSTEM	Brake Light Coil Output	23 Watts	23 Watts	18 Watts	18 Watts
	Lighting Coil Output	75 Watts	75 Watts	55 Watts	55 Watts
	Headlamp (Watt)	60/60	35/35	45/45	45/45
	Tail/Stop Light	8/23	8/23	8/23	8/23
	Spark Plug (Bosch)	M-175-T-1	M-175-T-1	W-240-T-1	W-260-T-1
	Spark Plug Gap	.020"	.020"	.020"	.020"
	Breaker Points Gap	.014" - .018"	.014" - .018"	.014" - .018"	.014" - .018"
	Voltage Regulator	No	No	Yes	Yes
FUEL	Tank Capacity — Imp.	3.5 gals.	3.5 gals.	3.5 gals.	3.5 gals.
	— U.S.	4.38 gals.	4.38 gals.	4.38 gals.	4.38 gals.
	Gasoline	Regular	Regular	Premium	Premium
	Gas/Oil Ratio	40:1	40:1	40:1	40:1
BRAKE	Type	Pivoting	Pivoting	Pivoting	Disc

1973 MODEL

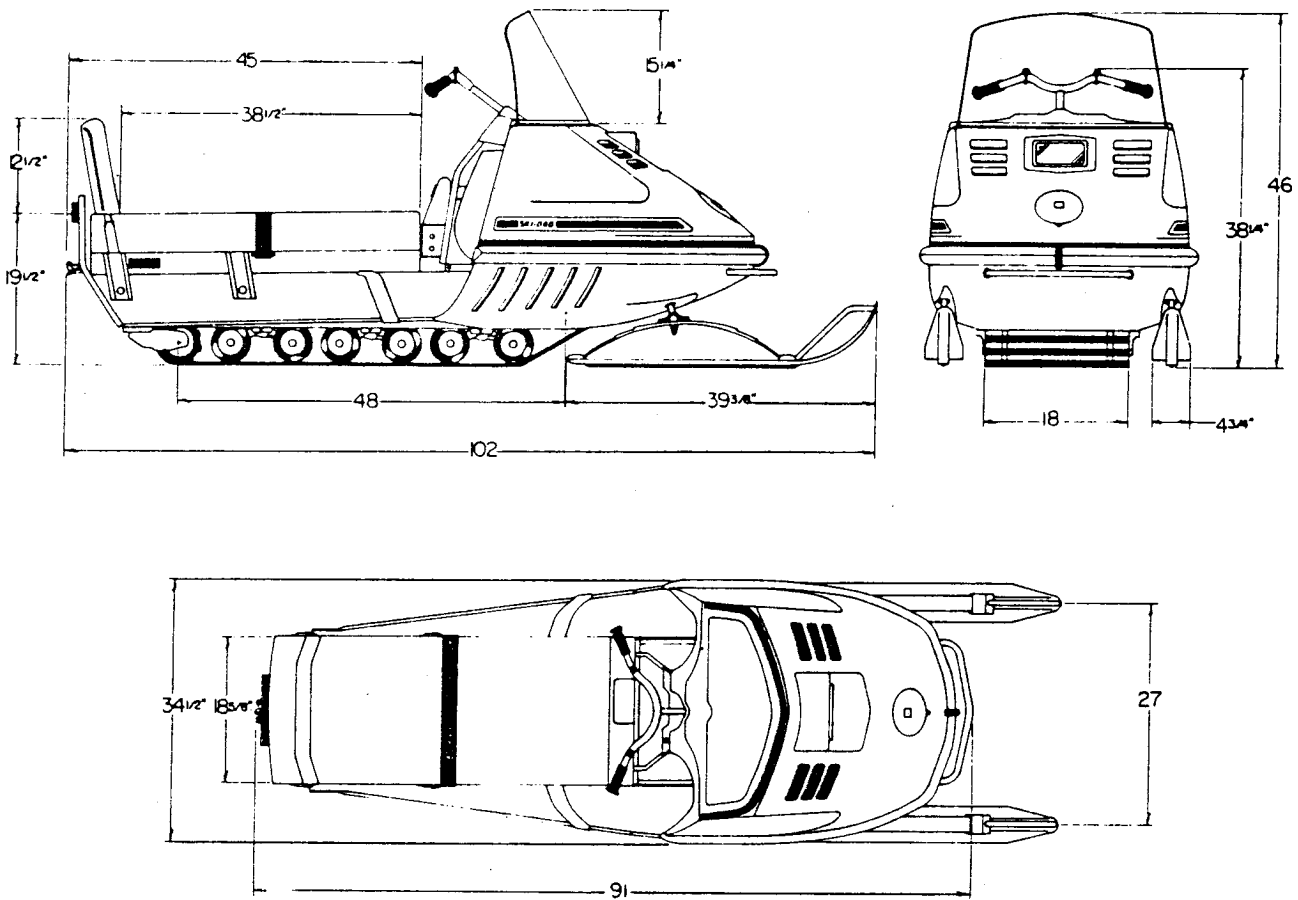
Specifications OLYMPIQUE



MODEL	OLYMPIQUE	300	335	340	340E	400	400E	440
ENGINE	No. of Cyl.	One	One	Two	Two	Two	Two	Two
	Bore	76mm	78mm	59.5mm	59.5mm	64.5mm	64.5mm	67.5mm
	Stroke	66mm	70mm	61mm	61mm	61mm	61mm	61mm
	Displacement	299cc	335cc	339cc	339cc	399cc	399cc	436.6cc
	Compression	7:1	9:1	9:1	9:1	10:1	10:1	10:1
	Carburetor	HR	HR	HR	HR	HR	HR	HR
	Starting	Manual	Manual	Manual	Electric	Manual	Electric	Manual
CHASSIS	Overall Length	99 1/4"	99 1/4"	99 1/4"	99 1/4"	99 1/4"	99 1/4"	99 1/4"
	Overall Width	31 1/2"	31 1/2"	31 1/2"	31 1/2"	31 1/2"	31 1/2"	31 1/2"
	Height	43"	43"	43"	43"	43"	43"	43"
	Height w/o Windshield	35"	35"	35"	35"	35"	35"	35"
	Weight (lbs)	338	338	360	400	360	400	373
	Bearing Area	1092 sq.in.	1092 sq.in.	1092 sq.in.	1092 sq.in.	1092 sq.in.	1092 sq.in.	1092 sq.in.
	Ground Pressure	.310 p.s.i.	.310 p.s.i.	.330 p.s.i.	.366 p.s.i.	.330 p.s.i.	.366 p.s.i.	.342 p.s.i.
POWER TRAIN	Track Width	15"	15"	15"	15"	15"	15"	15"
	Std. Gear Ratio	15/35	15/34	15/34	15/34	16/34	16/34	16/33
ELECTRICAL SYSTEM	Brake Light Coil	23W	23W	23W	23W	23W	23W	23W
	Lighting Coil	7t	75W	75W	75W	75W	75W	75W
	Headlamp (Watt)	60/60	60/60	60/60	35/35	60/60	35/35	60/60
	Tail/Stop Light	8/23W	8/23W	8/23W	8/23W	8/23W	8/23W	8/23W
	Spark Plug (Bosch)	M-175-T1	M-225-T1	W-260-T1	W-260-T1	W-280-M1	W-280-M1	M-225-T1
	Spark Plug Gap	.020"	.020"	.020"	.020"	.020"	.020"	.020"
	Breaker Points Gap	.014" - .018"	.014" - .018"	.014" - .018"	.014" - .018"	.014" - .018"	.014" - .018"	.014" - .018"
	Voltage Regulator	No	No	Yes	No	Yes	No	Yes
FUEL	Capacity - Imp.	4.7 gals.	4.7 gals.	4.7 gals.	4.7 gals.	4.7 gals.	4.7 gals.	4.7 gals.
	- U.S.	6 gals.	6 gals.	6 gals.	6 gals.	6 gals.	6 gals.	6 gals.
	Gasoline	Regular	Regular	Regular	Regular	Premium	Premium	Regular
BRAKE	Gas/Oil Ratio	40:1	40:1	40:1	40:1	40:1	40:1	40:1
	Type	Drum	Drum	Drum	Drum	Drum	Drum	Drum

1973 MODEL

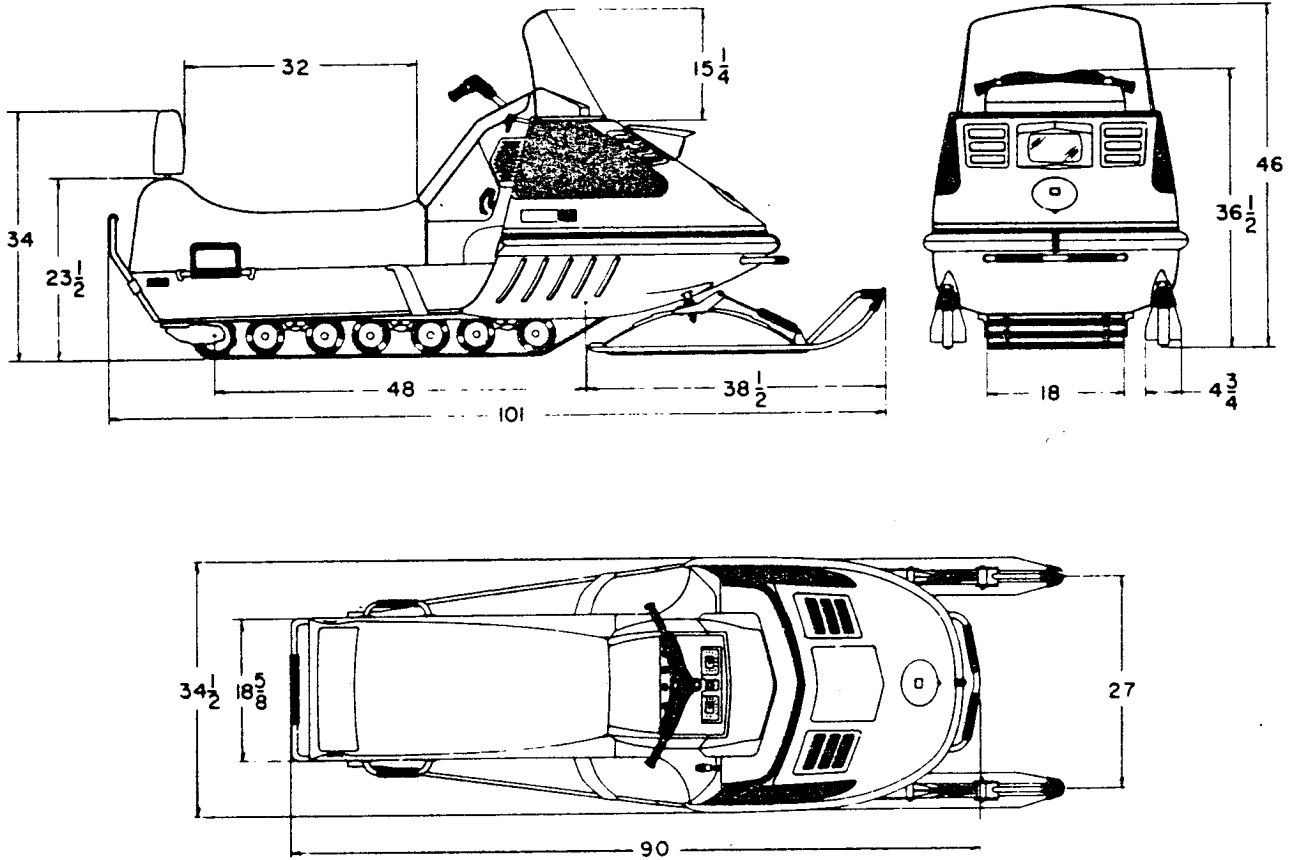
Specifications SKANDIC



MODEL	SKANDIC	335
ENGINE	Number of Cylinders	One
	Bore	78mm
	Stroke	70mm
	Displacement	335cc
	Compression Ratio	9:1
	Carburetor (Tillotson)	HR
	Starting	Manual
CHASSIS	Overall Length	102
	Overall Width	34 1/2"
	Height	46"
	Height w/o Windshield	38 1/4"
	Weight (lbs)	390
	Bearing Area	1242
	Ground Pressure (p.s.i.)	.314
POWER TRAIN	Track Width	18"
	Std. Gear Ratio	12/33
ELECTRICAL SYSTEM	Brake Light Coil Output	23W
	Lighting Coil Output	75W
	Headlamp (Watt)	60/60
	Tail/Stop Light	8/23W
	Spark Plug (Bosch)	M-225-T1
	Spark Plug Gap	.020"
	Breaker Points Gap	.014" .018"
FUEL	Tank Capacity — Imp.	5.1
	— U.S.	6.4
	Gasoline	Regular
	Gas/Oil Ratio	40:1
BRAKE	Type	Drum

1973 MODEL

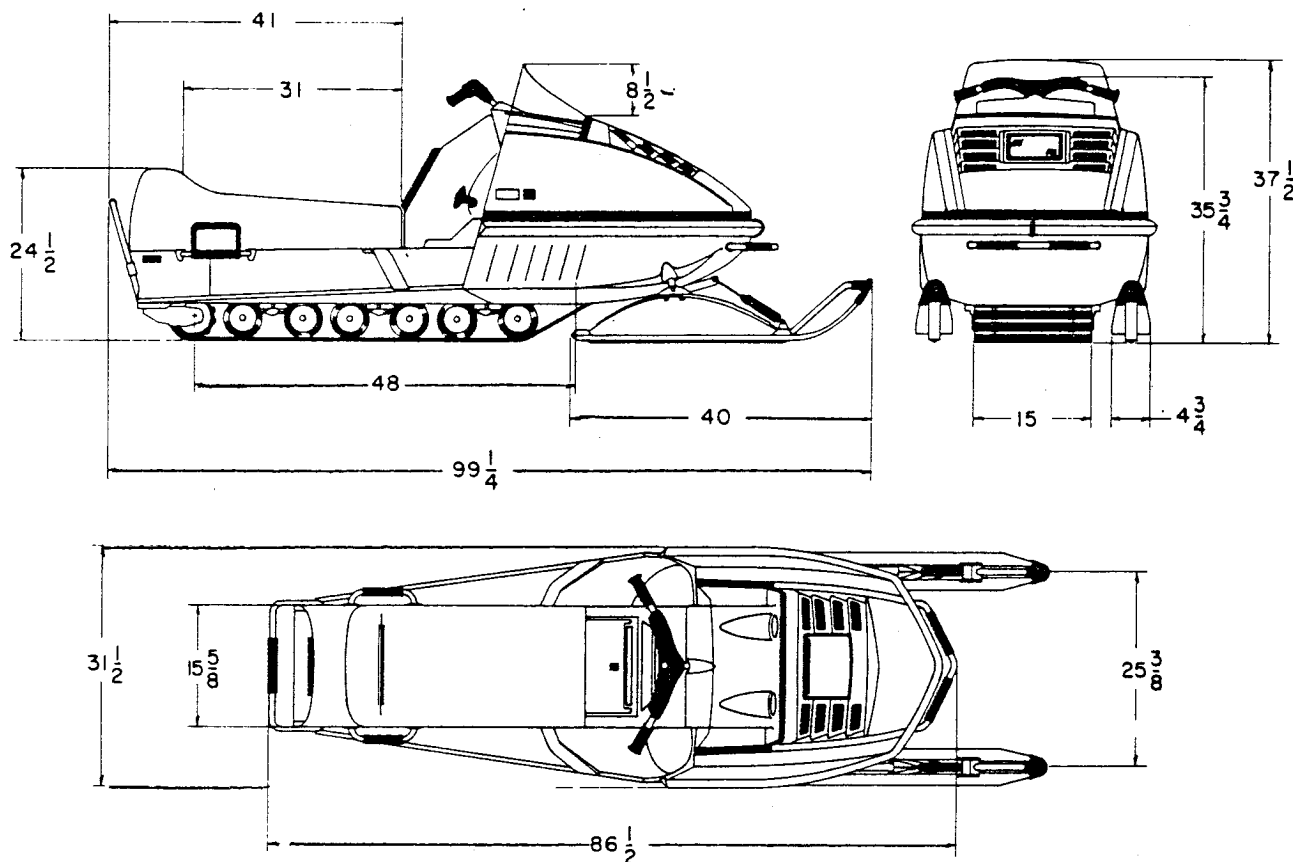
Specifications NORDIC



MODEL	NORDIC	640ER
ENGINE	No. of Cylinders	Two
	Bore	76mm
	Stroke	70mm
	Displacement	635.1cc
	Compression Ratio	9:1
	Carburetor (Tillotson)	HD
	Starting	Electric
CHASSIS	Overall Length	101"
	Overall Width	34 1/2"
	Height	46"
	Height w/o Windshield	36 1/2"
	Weight (lbs)	495
	Bearing Area	1242 sq.in.
POWER TRAIN	Ground Pressure (p.s.i.)	.398
	Track (width)	18"
ELECTRICAL SYSTEM	Std. Gear Ratio	19/33
	Lighting Coil Output	120 watt
	Headlamp (Watt)	60/60
	Tail/Stop Light	8/23
	Spark Plug (Bosch)	M-225-T-1
	Spark Plug Gap	.020"
	Breaker Points Gap	.014" - .018"
FUEL	Tank Capacity - Imp.	5.1 gals.
	- U.S.	6.37 gals.
	Gasoline	Regular
BRAKE	Gas/Oil Ratio	40/1
	Type	Disc

1973 MODEL

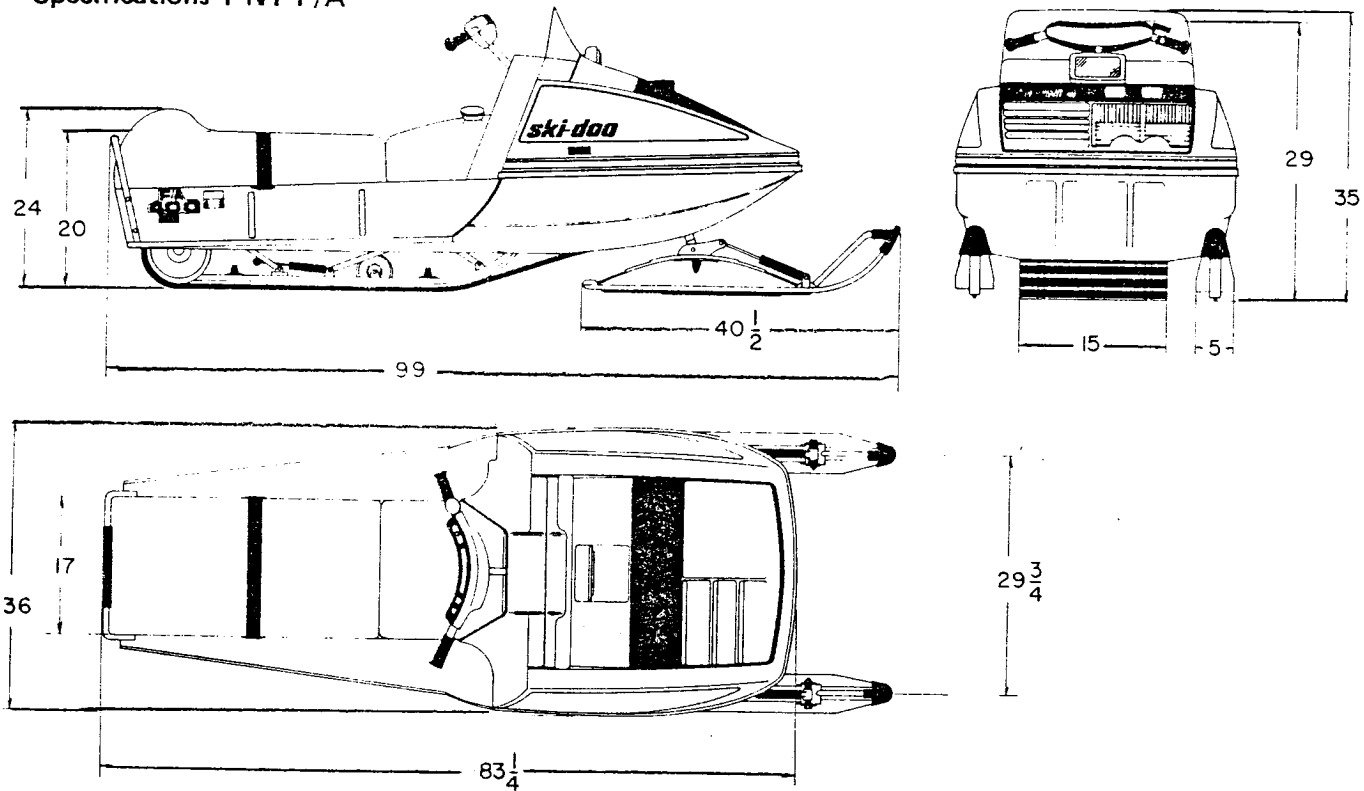
Specifications T'NT



MODEL	T'NT	294	340	440
ENGINE	Number of Cylinders	Two	Two	Two
	Bore	57mm	59.5mm	67.5mm
	Stroke	57.5mm	61mm	61mm
	Displacement	293.3cc	339.2cc	436.6cc
	Compression Ratio	11.8:1	11.3:1	10.5:1
	Carburetor (Tillotson)	2 X HR	1 X HD	1 X HD
	Starting	Manual	Manual	Manual
CHASSIS	Overall Length	99 1/4"	99 1/4"	99 1/4"
	Overall Width	31 1/2"	31 1/2"	31 1/2"
	Height	37 1/2"	37 1/2"	37 1/2"
	Height w/o Windshield	35 3/4"	35 3/4"	35 3/4"
	Weight (lbs)	375	390	405
	Bearing Area	1092 sq.in.	1092 sq.in.	1092 sq.in.
	Ground Pressure (P.S.I.)	.343	.357	.371
POWER TRAIN	Track Width	15"	15"	15"
	Std. Gear Ratio	15/34	16/34	18/34
ELECTRICAL SYSTEM	Brake Light Coil Output	18	23	23
	Lighting Coil Output	55	75	75
	Headlamp (Watt)	45/45	60/60	60/60
	Tail/Stop Light	8/23	8/23	8/23
	Spark Plug (Bosch)	W-260-T1	W-280-M1	M-280-T31
	Spark Plug Gap	.020"	.020"	.020"
	Breaker Points Gap	.014" - .018"	.014" - .018"	.014" - .018"
	Voltage Regulator	Yes	Yes	Yes
FUEL	Tank Capacity — Imp.	4.7 gals.	4.7 gals.	4.7 gals.
	— U.S.	6 gals.	6 gals.	6 gals.
	Gasoline	Premium	Premium	Premium
	Gas/Oil Ratio	40:1	40:1	40:1
BRAKE	Type	Disc	Disc	Disc

1973 MODEL

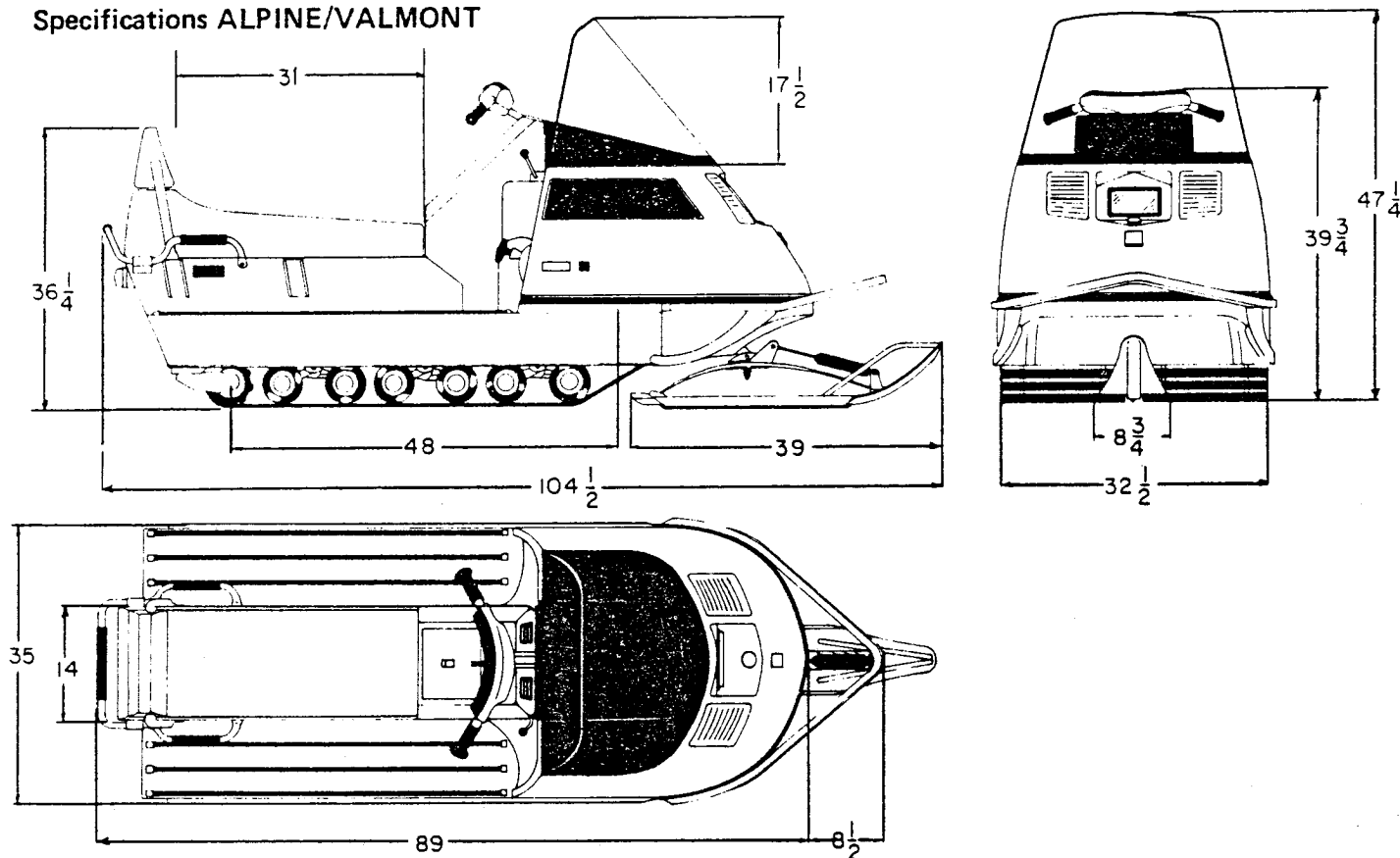
Specifications T'NT F/A



MODEL	T'NT (Free Air)	340	400
ENGINE	Number of Cylinders	Two	Two
	Bore	59.5mm	64.5mm
	Stroke	61mm	61mm
	Displacement	339.2	398.6
	Compression Ratio	11:1	11:1
	Carburetor (Tillotson)	2 X HR	2 X HD
	Starting	Manual	Manual
CHASSIS	Overall Length	99"	99"
	Overall Width	36"	36"
	Height	35"	35"
	Height w/o Windshield	29"	29"
	Weight (lbs)	385 (approx.)	385 (approx.)
	Bearing Area	1092	1092
	Ground Pressure (p.s.i.)	.353	.353
POWER TRAIN	Track Width	15"	15"
	Driving Chain	3/8" pitch, triple	3/8" pitch, triple
ELECTRICAL SYSTEM	Brake Light Coil Output	23W	23W
	Lighting Coil Output	75W	75W
	Headlamp (Watt)	60/60	60/60
	Tail/Stop Light	8/23W	8/23W
	Spark Plug (Bosch)	W-280-M2	W-280-M2
	Spark Plug Gap	.020"	.020"
	Breaker Points Gap	.014" - .018"	Capacit. Disch Syst
	Voltage Regulator	Yes	Yes
FUEL	Tank Capacity — Imp.	6 gals.	6 gals.
	— U.S.	7.2 gals.	7.2 gals.
	Gasoline	Premium	Premium
BRAKE	Gas/Oil Ratio	40/1	40/1
	Type	Hydraulic disc	Hydraulic disc

1973 MODEL

Specifications ALPINE/VALMONT



MODEL	VALMONT/ALPINE	440R Valmont	440ER Valmont	440R Alpine	440ER Alpine	640ER Alpine
ENGINE	No. of Cylinders	Two	Two	Two	Two	Two
	Bore	67.5mm	67.5mm	67.5mm	67.5mm	76mm
	Stroke	61mm	61mm	61mm	61mm	70mm
	Displacement	436.6cc	436.6cc	436.6cc	436.6cc	635.1cc
	Compression Ratio	10:1	10:1	10:1	10:1	9:1
	Carburetor (Tillotson)	HD	HD	HD	HD	HD
	Starting	Manual	Electric	Manual	Electric	Electric
CHASSIS	Overall Length	103 1/2"	103 1/2"	113 1/2"	113 1/2"	113 1/2"
	Overall Width	35 1/2"	35 1/2"	35 1/2"	35 1/2"	35 1/2"
	Height w/o Windshield	40"	40"	40"	40"	40"
	Weight (lbs)	506	540	548	584	610
	Bearing area	1756	1756	2160	2160	2160
	Ground Pressure p.s.i.)	.294	.308	.254	.270	.282
POWER TRAIN	Track Width	2 X 15"	2 X 15"	2 X 15"	2 X 15"	2 X 15"
	Std. Gear Ratio	17/46	17/46	17/46	17/46	17/38
ELECTRICAL SYSTEM	Brake Light Coil Output	23 Watts	23 Watts	23 Watts	23 Watts	
	Lighting Coil Output	75 Watts	75 Watts	75 Watts	75 Watts	120 Watts
	Headlamp (Watt)	60/60	35/35	60/60	35/35	60/60
	Tail/Stop Light (Watt)	8/23	8/23	8/23	8/23	8/23
	Spark Plug (Bosch)	M-225-T-1	M-225-T-1	M-225-T-1	M-225-T-1	M-225-T-11
	Spark Plug Gap	.020"	.020"	.020"	.020"	.020"
	Breaker Points Gap	.014" - .018"	.014" - .018"	.014" - .018"	.014" - .018"	.014" - .018"
	Voltage Regulator	Yes	No	Yes	No	No
FUEL	Tank Capacity — Imp.	5 gals	5 gals	5 gals	5 gals	5 gals
	— U.S.	6.25 gals	6.25 gals	6.25 gals	6.25 gals	6.25 gals
	Gasoline Gas/Oil Ratio	Regular 40:1	Regular 40:1	Regular 40:1	Regular 40:1	Regular 40:1

ENGINE CODE CHART

YEAR 1970

YEAR 1971

CODE	VEHICLE	MODELS	ENGINE TYPE	CODE	VEHICLE	MODELS	ENGINE TYPE
10	Olympique	12/3	300	16	Olympique	335S	337
12	Olympique	335	335	17	Olympique	335ES	337E
13	Olympique	335E	335E	18	Olympique	399S	401
14	Olympique	399	401	19	Olympique	399ES	401E
20	Nordic	399	401	20	Nordic	399	401
21	Nordic	399E	401E	21	Nordic	399E	401E
22	Skandic	335	335	22	Skandic	335	337
23	Nordic	640E	640E	23	Nordic	640E	640E
30	Alpine	399R	401	24	Nordic	399S	401
31	Alpine	399ER	401E	25	Nordic	399ES	401E
35	Invader	640ER	640E	26	Skandic	335S	337
40	T'NT	292	290	27	Nordic	640ES	640E
41	T'NT	292S	290	30	Alpine	399R	401
42	T'NT	340	340	31	Alpine	399ER	401E
43	T'NT	340S	340	33	Valmont	399R	401
44	T'NT	399	400	34	Valmont	399ER	401E
45	T'NT	399S	400	35	Alpine	640ER	640E
46	T'NT	640	641	36	Valmont	640ER	640E
47	T'NT	640S	641	40	T'NT	292	292
49	T'NT	775S	775	41	T'NT	292S	292
				42	T'NT	340	342
				43	T'NT	340S	342
				44	T'NT	440	435
				45	T'NT	440S	435
				46	T'NT	640	641
				47	T'NT	640S	641
				48	T'NT	775	775
				49	T'NT	775S	775
				60	Elan	250	247
				61	Elan	250E	247E
YEAR 1971							
10	Olympique	300	302				
11	Olympique	300S	302				
12	Olympique	335	337				
13	Olympique	335E	337E				
14	Olympique	399	401				
15	Olympique	399E	401E				

1972 MODEL

ENGINE CODE CHART — YEAR 1972							
CODE	VEHICLE	MODELS	ENGINE TYPE	CODE	VEHICLE	MODELS	ENGINE TYPE
2001	ÉLAN	250	247	2262	NORDIC	440S	434S*
2051	ÉLAN	250	247*	2263	NORDIC	440ES	434ES*
2002	ÉLAN	250E	247E	2204	NORDIC	640ER	640ER
2052	ÉLAN	250E	247E*	2214	NORDIC	640ERS	640ERS
				2254	NORDIC	640ER	640ER*
2101	OLYMPIQUE	300	302	2264	NORDIC	640ERS	640ERS*
2111	OLYMPIQUE	300S	302				
2151	OLYMPIQUE	300	302*	2321	VALMONT	440R	434R
2161	OLYMPIQUE	300S	302S*	2322	VALMONT	440ER	434ER
2102	OLYMPIQUE	335	337	2323	VALMONT	640ER	640ER
2103	OLYMPIQUE	335E	337E				
2112	OLYMPIQUE	335S	337S	2301	ALPINE	440E	440E
2113	OLYMPIQUE	335ES	337ES	2302	ALPINE	440ER	440ER
2152	OLYMPIQUE	335	337*	2303	ALPINE	640ER	640ER
2153	OLYMPIQUE	335E	337E*				
2162	OLYMPIQUE	335S	337S*	2401	T'NT	292	292
2163	OLYMPIQUE	335ES	337ES*	2411	T'NT	292S	292S
2104	OLYMPIQUE	399	401	2451	T'NT	292	292*
2105	OLYMPIQUE	399E	401E	2461	T'NT	292S	292S*
2114	OLYMPIQUE	399S	401S	2404	T'NT	400	398
2115	OLYMPIQUE	399ES	401ES	2414	T'NT	400S	298S
2154	OLYMPIQUE	399	401*	2402	T'NT	340	343
2155	OLYMPIQUE	399E	401E*	2412	T'NT	340S	343S
2164	OLYMPIQUE	399S	401S*	2452	T'NT	340	343*
2165	OLYMPIQUE	399ES	401ES*	2462	T'NT	340S	343S*
				2403	T'NT	440	435
2201	SKANDIC	335	337	2453	T'NT	440	435*
2211	SKANDIC	335S	337S	2463	T'NT	440S	435S*
2251	SKANDIC	335	337*	2413	T'NT	440S	435S
2261	SKANDIC	335S	337S*	2622	T'NT	640	641
				2623	T'NT	775	771
2202	NORDIC	440	434	2632	T'NT	640S	641S
2203	NORDIC	440E	434E	2633	T'NT	775S	771S
2212	NORDIC	440S	434S	2672	T'NT	640	641*
2213	NORDIC	440ES	434ES	2682	T'NT	640S	640S*
2252	NORDIC	440	434*				
2253	NORDIC	440E	434E*				

* (Western)

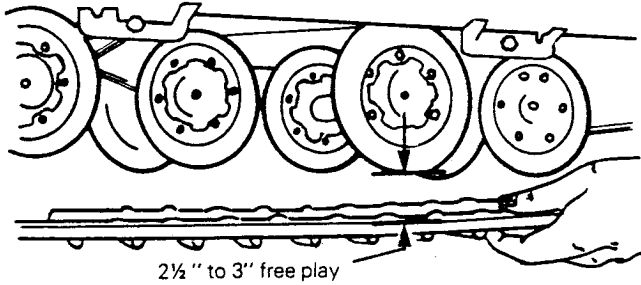
1973 MODEL

ENGINE CODE CHART — YEAR 1973							
CODE	VEHICLE	MODELS	ENGINE TYPE	CODE	VEHICLE	MODELS	ENGINE TYPE
3001	ÉLAN	250	247	3204	NORDIC	640ER	640E
3002	ÉLAN	250E	247E				
3003	ÉLAN	250T	248	3401	T'NT	294	294
3004	ÉLAN	250SS	249	3402	T'NT	340	393
				3403	T'NT	440	435
3101	OLYMPIQUE	300	302	3411	T'NT	294S	294
3104	OLYMPIQUE	400	401	3412	T'NT	340S	343
3405	OLYMPIQUE	400E	401E	3413	T'NT	440S	435
3106	OLYMPIQUE	440	434				
3107	OLYMPIQUE	340	338	3511	T'NT F/A	340	346
3108	OLYMPIQUE	340E	338E	3512	T'NT F/A	400	396
3111	OLYMPIQUE	300S	302				
3114	OLYMPIQUE	400S	401	3321	VALMONT	440R	434
3115	OLYMPIQUE	400ES	401E	3322	VALMONT	440ER	434
3116	OLYMPIQUE	440S	434				
3117	OLYMPIQUE	340S	338	3301	ALPINE	440R	434
3118	OLYMPIQUE	340ES	338E	3302	ALPINE	440ER	434E
				3303	ALPINE	640ER	640E
3201	SKANDIC	335	337				

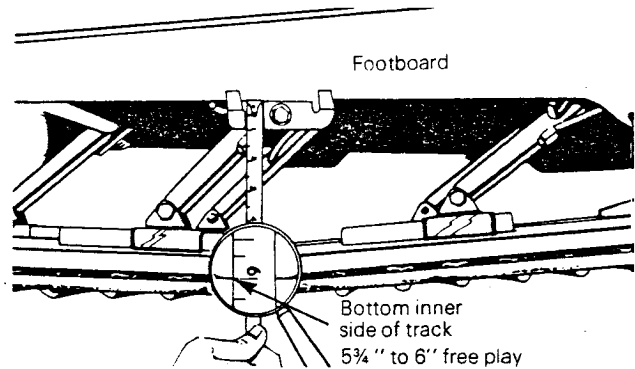
TRACK TENSION 1970-71-72-73

BOGIE WHEEL SYSTEM

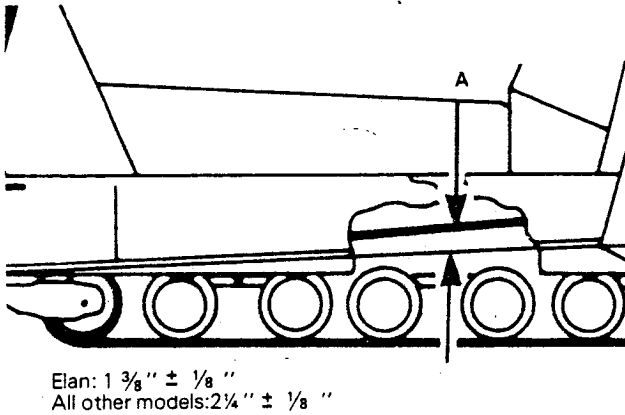
1970-71 MODELS



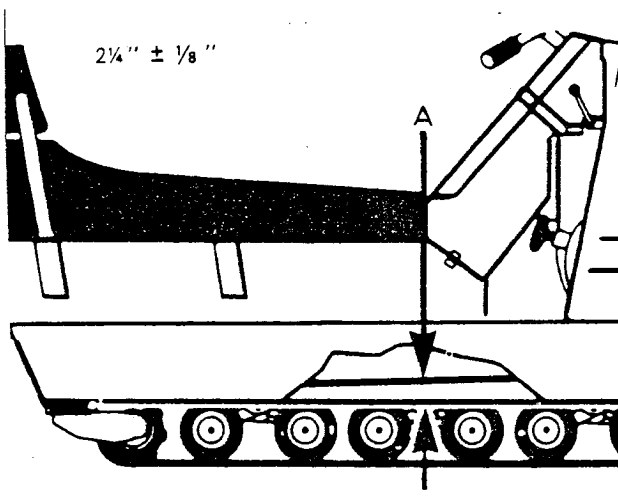
SLIDER SUSPENSION



1972-73 MODELS (EXCEPT ALPINE & VALMONT)



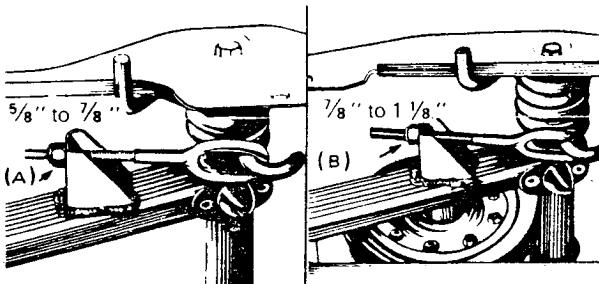
1972-73 MODELS ALPINE & VALMONT



TRACK TENSION 1973

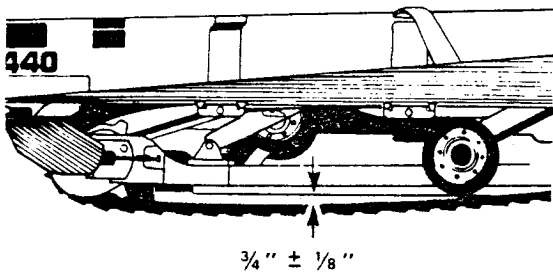
T'NT & OLYMPIC MODELS SLIDER SUSPENSION

SUSPENSION ADJUSTMENT (RIDE)



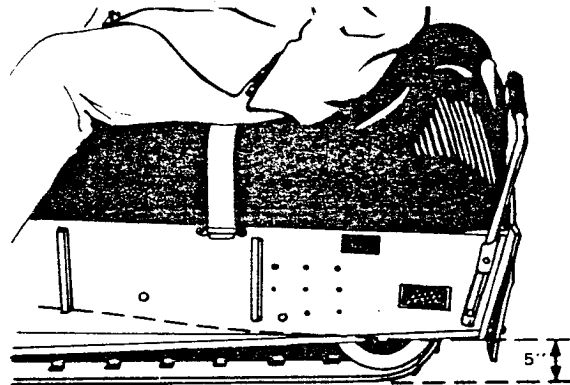
A) Front Arm Nut
B) Rear Arm Nut

TRACK TENSION

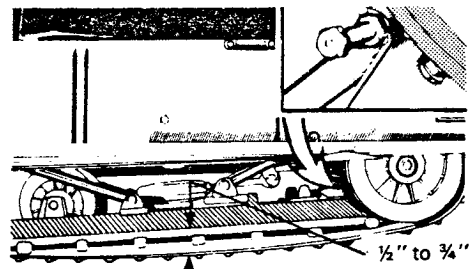


T'NT F / A SLIDER SUSPENSION

SUSPENSION ADJUSTMENT (RIDE)



TRACK TENSION

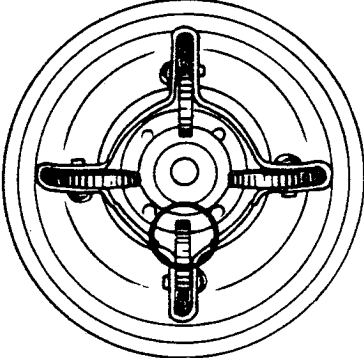
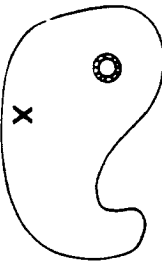
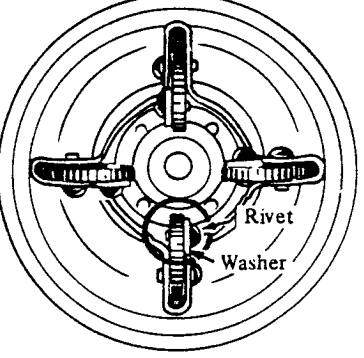


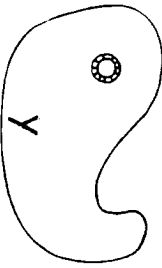
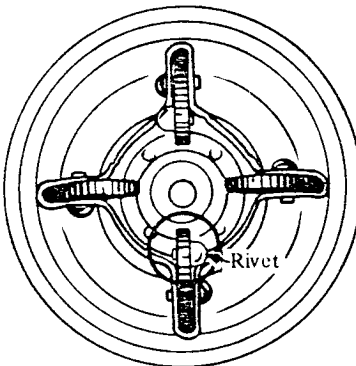
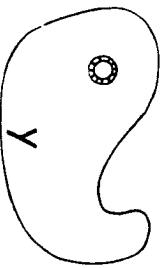
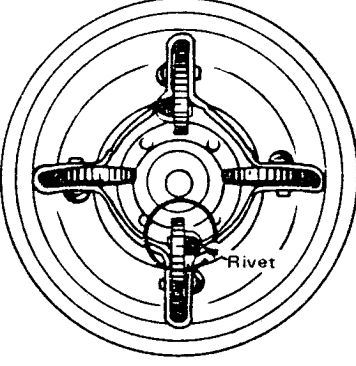
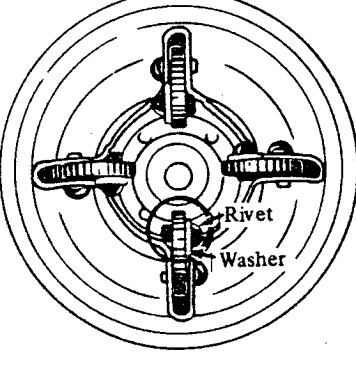
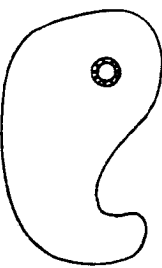
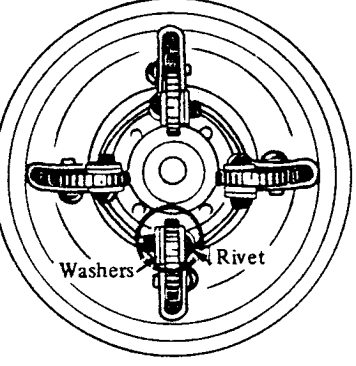
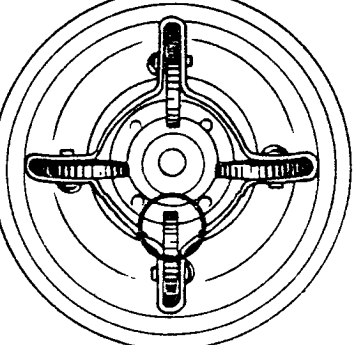
DRIVE PULLEY SPECS. 1973 MODEL

Model	Spring Color	Rate per inch
Elan 250-250E	Black	40 lbs
Elan 250T	Blue	65 lbs
Elan 250SS	Brown	55 lbs
Olympique 300-340 340E-400-400E	Black	40 lbs
Olympique 440	Brown	55 lbs
Skandic 335	Black	40 lbs
Nordic 640ER	Black	40 lbs
T'NT 294	Green	85 lbs
T'NT 340-440	Brown	55 lbs
Alp/Val 440R-440ER	Brown	55 lbs
Alpine 640ER	Brown	55 lbs
T'NT F/A 340-400	Orange	50 lbs

*Tolerance 3 in/lbs

1973 CENTRIFUGAL GOVERNOR IDENTIFICATION

		Description: Four flyweights without hole. Applicable to: Elan 250 and 250E Olympique 300-335 (courtesy) 340-340E-400- and 400E. Skandic 335 T'NT 340
		Description: X Stamped on two flyweights. One steel rivet and one washer per flyweight. Applicable to: Olympique 440 Alpine/Valmont 440

		Description: Y stamped on two flyweights. Two flyweights incorporating an aluminum rivet. (Whiter in appearance than the rivets attaching the flyweights to the cup). Applicable to: T'NT 294
		Description: Y stamped on two flyweights. Two flyweights incorporating a steel rivet (same color as the rivets attaching flyweights to cup). Applicable to: T'NT 440
		Description: One washer and one rivet per flyweight. Applicable to: Nordic 640ER
		Description: Three washers and one rivet per flyweight. Applicable to: Alpine 640ER
		Description: Four flyweights with holes. "Z" stamped on three flyweights. Applicable to: Eian 250SS

DRIVEN PULLEY SPRING TENSION

1970-71-72-73 MODELS

1970-1971 MODELS

On all models except alpine / Invader & Valmont

To obtain proper tension rotate outer cam clockwise $\frac{2}{3}$ of a turn. (When facing cam).

ON ALL ALPINE / INVADER & VALMONT MODEL

To obtain proper tension rotate sliding pulley half counter clockwise $\frac{2}{3}$ of a turn (when facing outer cam).

1972 MODELS

ON ELAN, OLYMPIQUE, NORDIC 440 & T'NT 292 MODELS, tension should be 8 lbs $\pm$ 1 lb.

ON TWO (2) CYLINDER T'NT MODELS, spring tension should be 11 lb $\pm$ 1 lb.

ON ALPINE & VALMONT MODELS, spring tension should be 8 lbs $\pm$ 1 lb.

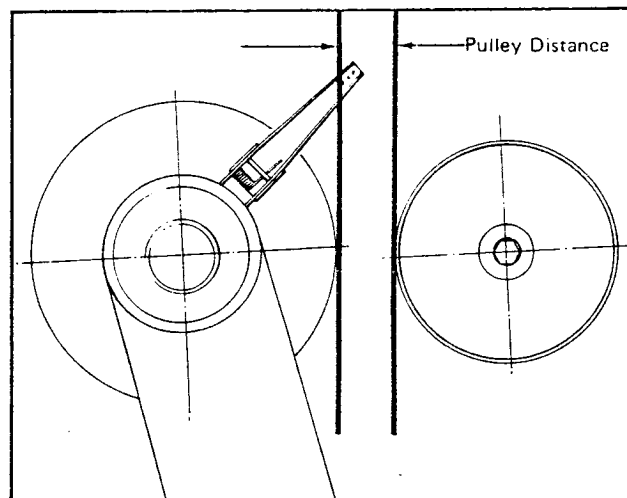
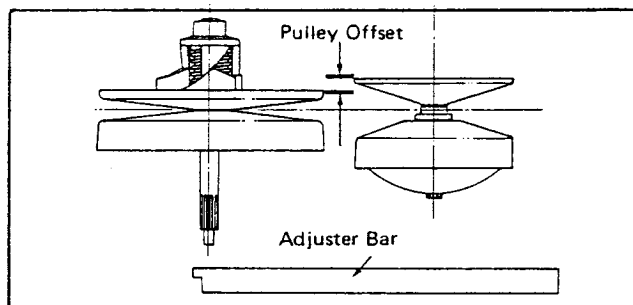
1973 MODELS

1973 MODEL DRIVEN PULLEY (Spring Tension)	
Elan 250	8
Elan 250T	8
Elan 250SS	8
Olympique 300	8
Olympique 335	8
Olympique 340	8
Olympique 400	8
Olympique 440	8
Nordic 640	9

1973 MODEL DRIVEN PULLEY (Spring Tension)	
Skandic 335	8
T'NT 294	11
T'NT 340	11
T'NT440	11
T'NT F/A 340	13
T'NT F/A 400	13
Val/Alp 440	18
Alpine 640	18

○ NOTE: Variance of $\pm$ 1 lb is acceptable on all models.

PULLEY ALIGNMENT 1970-71-72-73 MODELS



MODEL	OFFSET	DISTANCE
ALL 1970 MODELS (Except T'NT 340)	$\frac{1}{2}''$	$1 \frac{7}{8}'' + 0 - \frac{1}{16}''$
ALL 1970 T'NT 340 MODEL	$\frac{3}{8}''$	$1 \frac{7}{8}'' + 0 - \frac{1}{16}''$
ALL 1971 MODELS	$\frac{1}{2}'' \pm \frac{1}{32}''$	$1 \frac{7}{8}'' \pm \frac{1}{32}''$
1972 MODEL All 1972 models (Except T'NT 340, 440)	$\frac{1}{2}'' \pm \frac{1}{32}''$	$1 \frac{7}{8}'' + 0 - \frac{1}{16}''$
ALL 1972 T'NT 340, 440	$\frac{7}{16}'' \pm \frac{1}{32}''$	$1 \frac{5}{8}'' + 0 - \frac{1}{16}''$
1973 MODEL		
Elan 250	$\frac{1}{2}''$	$1 \frac{7}{8}'' + 0 - \frac{1}{16}''$
Elan 250E	$\frac{1}{2}''$	$1 \frac{7}{8}'' + 0 - \frac{1}{16}''$
Elan 250T	$\frac{1}{2}''$	$1 \frac{7}{8}'' + 0 - \frac{1}{16}''$
Elan 250SS	$\frac{1}{2}''$	$1 \frac{3}{4}'' + 0 - \frac{1}{16}''$
Olympique (all models)	$\frac{1}{2}''$	$1 \frac{7}{8}'' + 0 - \frac{1}{16}''$
Nordic 640ER	$\frac{1}{2}''$	$1 \frac{7}{8}'' + 0 - \frac{1}{16}''$
Skandic	$\frac{1}{2}''$	$1 \frac{7}{8}'' + 0 - \frac{1}{16}''$
T'NT 294	$\frac{7}{16}''$	$1 \frac{5}{8}'' + 0 - \frac{1}{16}''$
T'NT 340	$\frac{7}{16}''$	$1 \frac{5}{8}'' + 0 - \frac{1}{16}''$
T'NT 440	$\frac{7}{16}''$	$1 \frac{5}{8}'' + 0 - \frac{1}{16}''$
T'NT F/A 340	$\frac{1}{2}'' \pm \frac{1}{16}''$	$10 \frac{1}{2}'' + 0 - \frac{1}{8}''$
T'NT F/A 400	$\frac{1}{2}'' \pm \frac{1}{16}''$	$10 \frac{1}{2}'' + 0 - \frac{1}{8}''$
Alpine / Valmont	$\frac{1}{2}''$	$1 \frac{7}{8}'' + 0 - \frac{1}{16}''$



NOMINAL DIMENSION OF CYLINDER BORE 1970-71-72-73 MODELS

TABLE 1 NOMINAL DIMENSION OF CYLINDER BORE												
Engine Type	Vehicle Models	Year	Standard		1st Oversize		2nd Oversize		3rd Oversize		4th Oversize	
			mm	inches	mm	inches	mm	inches	mm	inches	mm	inches
290	T'NT 292	1970	75.0	2.952	75.5	2.972						
300	Olym 12/3	1970	76.0	2.992	76.5	3.011	77.0	3.031	77.5	3.051	78.0	3.070
335	Olym 335-335E	1970	78.0	3.070	78.5	3.090						
340	T'NT 340	1970	78.0	3.070	78.5	3.090						
400	T'NT 399	1970	64.5	2.539	65.0	2.559						
401	Nordic 399-399E	1970	64.5	2.539	65.0	2.559						
401	Olym 399	1970	64.5	2.539	65.0	2.559						
401	Alpine 399R-399ER	1970	64.5	2.539	65.0	2.559						
640	Nordic 640E	1970	76.0	2.992	76.5	3.011						
640	Invader 640ER	1970	76.0	2.992	76.5	3.011						
641	T'NT 640	1970	76.0	2.992	76.5	3.011						
775	T'NT 775	1970	82.0	3.228	82.5	3.248						
247	Elan 250-250E	1971	69.0	2.716	69.5	2.736						
292	T'NT 292	1971	75.0	2.952	75.5	2.972						
302	Olym 300	1971	76.0	2.992	76.5	3.011	77.0	3.031				
337	Olym 335-335E	1971	78.0	3.070	78.5	3.090						
342	T'NT 340	1971	78.0	3.070	78.5	3.090	79.0	3.110				
401	Olym 399-399E	1971	64.5	2.539	65.0	2.559						
401	Nordic 399-399E	1971	64.5	2.539	65.0	2.559						
401	Val. 399R-399ER	1971	64.5	2.539	65.0	2.559						
401	Alpine 399R-399ER	1971	64.5	2.539	65.0	2.559						
435	T'NT 440	1971	67.5	2.657	68.0	2.677						
640	Nordic 640E	1971	76.0	2.992	76.5	3.011						
640	Valmont. 640ER	1971	76.0	2.992	76.5	3.011						
640	Alpine 640ER	1971	76.0	2.992	76.5	3.011						
641	T'NT 640	1971	76.0	2.992	76.5	3.011						
775	T'NT 775	1971	82.0	3.228	82.5	3.248						

1972 MODEL

1 – NOMINAL DIMENSION OF CYLINDER BORE

Engine Type	Standard		1st Oversize	
	mm	inches	mm	inches
247	69.0	2.716	69.5	2.736
292	75.0	2.952	75.5	2.972
* 302	76.0	2.992	76.5	3.011
337	78.0	3.070	78.5	3.090
343	59.5	2.342	60.0	2.362
401	64.5	2.539	65.0	2.559
434	67.5	2.657	68.0	2.677
435	67.5	2.657	68.0	2.677
640	76.0	2.992	76.5	3.011
641	76.0	2.992	76.5	3.011
775	82.0	3.228	82.5	3.248

*A 2nd Oversize at 77.0 mm (3.031") is also available

1973 MODEL

NOMINAL DIMENSION OF CYLINDER BORE				
ENGINE TYPE	STANDARD		1st OVERSIZE	
		inches		inches
247	69.0	2.7165"	69.5	2.7362"
248	54.0	2.1260"	54.5	2.1457"
249	54.0	2.1260"	54.5	2.1457"
294	57.0	2.2441"	57.5	2.2638"
*302	76.0	2.9921"	76.5	3.0118"
337	78.0	3.0709"	78.5	3.0906"
338	59.5	2.3425"	60.0	2.3622"
343	59.5	2.3425"	60.0	2.3622"
346	59.5	2.3425"	59.75	2.3524"
396	64.5	2.5394"	64.75	2.5493"
401	64.5	2.5394"	65.0	2.5591"
434	67.5	2.6575"	68.0	2.6772"
435	67.5	2.6575"	68.0	2.6772"
640	76.0	2.9921"	76.5	3.0118"

*A second oversize is available at 77.0mm – 3.0315"

PISTON TO WALL CLEARANCE 1970-71-72-73 MODELS

1970-71 MODELS

ENGINE TYPE	FITTED TOLERANCE
247	.003 to .004 inch
300,302,335,337,401 and 640	.0035 to .004 inch
290,292,340,342,400 435,641 and 775	.004 to .005 inch

1972 MODELS

Engine Type	Fitted Tolerance
247	.003 to .004 inch
302, 337, 343 and 401	.0035 to .004 inch
292, 434, 435, 640 and 641	.004 to .005 inch
775	.0047 to .0055 inch

1973 MODELS

Engine Type	Fitted Tolerance
247	.0030" - .0040"
302, 338, 343, 401, 434	.0035" - .0045"
248, 249, 294	.0025" - .0035"
346, 435	.0045" - .0055"
396, 640	.0040" - .0050"

CRANKSHAFT END PLAY 1970-71-72-73 MODELS

CRANKSHAFT END-PLAY

Engine Type	End-Play
247, 248, 249, 294, 302, 337, 338, 343, 401, 640,	.004" to .016"
434, 435	No shims required; crankshaft is held on P.T.O. side by bearing.
346, 396	No shims required; crankshaft is held in center by groove rings.

TIMING SPECIFICATION CHART

1970 MODELS

Engine Type	Direct Timing Advanced (inches B.T.D.C.)	Indirect Timing Advanced (inches B.T.D.C.)
12 / 3	.140" — .160"	.195" — .221"
335, 335E	.160" — .180"	.220" — .250"
399, 399E	.140" — .160"	.148" — .171"
640	.160" — .180"	.176" — .198"
292	.140" — .160"	.195" — .221"
340	.160" — .180"	.198" — .228"
641	.160" — .180"	.176" — .198"
775	.170" — .190"	.180" — .201"

1971 MODELS

Engine Type	Direct Timing (Advanced) inches B.T.D.C.	Indirect Timing (Advanced) inches B.T.D.C.
300	.150" — .170"	.205" — .241"
335, 335E	.160" — .180"	.220" — .250"
399, 399E	.140" — .160"	.148" — .171"
640, 640E	.160" — .180"	.176" — .198"
292	.140" — .160"	.195" — .221"
340	.160" — .180"	.193" — .220"
440	.140" — .160"	.148" — .171"
775	.170" — .190"	.180" — .201"
250	.150" — .170"	.150" — .170"

1972 MODELS

ONE CYLINDER			TWO CYLINDERS		
Engine Type	Direct	Indirect	Engine Type	Direct	Indirect
247 — 247 E	.157" ± .010"	.157" ± .010"	343	.147" ± .010"	.169" ± .010"
292	.157" ± .010"	.205" ± .010"	401 — 401 E	.147" ± .010"	.156" ± .010"
302	.157" ± .010"	.205" ± .010"	434 — 434 E	.147" ± .010"	.156" ± .010"
337 — 337 E	.167" ± .010"	.239" ± .010"	435	.147" ± .010"	.156" ± .010"
			640 E	.167" ± .010"	.186" ± .010"
			641	.167" ± .010"	.179" ± .010"
			775	.177" ± .010"	.190" ± .010"

1973 MODELS

Engine type	Direct Timing (Advanced) inches B.T.D.C.	Indirect Timing (Advanced) inches B.T.D.C.	Edge Gap (Advanced) inches
247	.147" - .167"	—	.200" - .320"
248	.077" - .097"	.079" - .100"	.270" - .430"
249	.077" - .097"	.079" - .100"	.270" - .430"
294	.084" - .104"	.087" - .110"	.270" - .430"
302	.147" - .167"	.212" - .244"	.200" - .320"
337	.157" - .177"	.226" - .248"	.200" - .320"
338	.111" - .131"	.131" - .154"	.200" - .320"
343	.111" - .131"	.131" - .154"	.200" - .320"
346	.109" - .129"	—	.310" - .470"
396	.060" - .080"	—	—
401	.111" - .131"	.135" - .159"	.200" - .320"
434	.111" - .131"	.118" - .144"	.200" - .320"
435	.111" - .131"	.119" - .141"	.200" - .320"
640	.146" - .166"	.155" - .172"	.200" - .320"

CARBURETOR ADJUSTMENTS

 **WARNING:** Engine should be turned OFF to perform all carburetor adjustments.

1970 MODELS

CARBURETOR SPECIFICATION CHART				
MODEL	CARBURETOR (TILLOTSON)	MAIN FUEL JET DIA.	LOW SPEED ADJ. + 1/8 — 0 TURN	HIGH SPEED DJ. + 1/8 — 0 TURN
OLYMPIQUE 12 / 3	HR 37A	—	3/4 TURN	1 1/4 TURN
OLYMPIQUE 335, 335E	HR 17C	—	3/4 TURN	1 1/4 TURN
OLYMPIQUE 399	HR 16B	—	3/4 TURN	1 1/4 TURN
T'NT 292	HD 22A	.089"	3/4 TURN	1 1/4 TURN
T'NT 340	HD 22A	.089"	3/4 TURN	1 1/4 TURN
NORDIC 399, 399E	HR 40A	—	3/4 TURN	1 1/4 TURN
NORDIC 640E	HD 20A	.1015"	3/4 TURN	1 1/4 TURN
T'NT 399	HD 21A	.1015"	3/4 TURN	1 1/4 TURN
T'NT 640	HD 20A	.1015"	3/4 TURN	1 1/4 TURN
ALPINE 399, 399ER	HR 16B	—	3/4 TURN	1 1/4 TURN
ALPINE 640ER	HD 20A	.1015"	3/4 TURN	1 1/4 TURN

1971 MODELS

CARBURETOR SPECIFICATION CHART				
MODEL	CARBURETOR TILLOTSON	MAIN FUEL JET DIA.	LOW SPEED ADJ + 1/8 — 0 TURN	HIGH SPEED ADJ + 1/8 — 0 TURN
ELAN 250, 250E	HR 73A	.042"	3/4 TURN	1 1/4 TURN
OLYMPIQUE 300	HR 74A	—	3/4 TURN	1 1/4 TURN
OLYMPIQUE 335, 335E	HR 75A	—	3/4 TURN	1 1/4 TURN
OLYMPIQUE 399, 399E	HR 76A	—	3/4 TURN	1 1/4 TURN
T'NT 292	HD 22B	.089"	3/4 TURN	1 1/4 TURN
T'NT 340	HD 22B	.089"	3/4 TURN	1 1/4 TURN
SKANDIC 335	HR 69A	.049"	3/4 TURN	1 1/4 TURN
NORDIC 399, 399E	HR 40A	—	3/4 TURN	1 1/4 TURN
NORDIC 640E	HD 20B	.1015"	3/4 TURN	1 1/4 TURN
T'NT 440	HD 73A	.096"	3/4 TURN	1 1/4 TURN
T'NT 640	HD 20B	.1015"	3/4 TURN	1 1/4 TURN
T'NT 775	2 x HD 20B	.1015"	3/4 TURN	1 1/4 TURN
VALMONT 399R, 339ER	HR 40A	—	3/4 TURN	1 1/4 TURN
VALMONT 640ER	HD 66A	.1015"	3/4 TURN	1 1/4 TURN
ALPINE 399R, 399ER	HR 16B	—	3/4 TURN	1 1/4 TURN
ALPINE 640ER	HD 20B	.1015"	3/4 TURN	1 1/4 TURN

1972 MODELS

CARBURETOR SPECIFICATION CHART				
MODEL	CARBURETOR TILLOTSON	MAIN FUEL JET DIA.	LOW SPEED ADJ + 1/8 — 0 TURN	HIGH SPEED ADJ + 1/8 — 0 TURN
ELAN 250, 250E	HR 73A	.042"	3/4 TURN	1 1/4 TURN
ELAN 292 SS	HD 22B	.089"	3/4 TURN	1 1/4 TURN
OLYMPIQUE 300	HR 74A	—	3/4 TURN	1 1/4 TURN
OLYMPIQUE 335, 335E	HR 75A	—	3/4 TURN	1 1/4 TURN
OLYMPIQUE 399, 399E	HR 76A	—	3/4 TURN	1 1/4 TURN
NORDIC 440, 440E	HR 112A	—	3/4 TURN	1 1/4 TURN
NORDIC 640E	HD 81A	.1015"	3/4 TURN	1 1/4 TURN
T'NT 292	HD 22B	.089"	3/4 TURN	1 1/4 TURN
T'NT 340	HD 98A	.089"	1 1/8 TURN	1 TURN
T'NT 440	HD 83A	.096"	1 1/4 TURN	1 1/4 TURN
T'NT 640	2 x HD 101A	.089"	3/4 TURN	1 1/4 TURN
T'NT 775	2 x HD 81A	.1015"	3/4 TURN	1 1/4 TURN
T'NT 400 F / A	2 x HD 104A	.076"	3/4 TURN	1 1/4 TURN
VALMONT 440, 440E	HR 112A	—	3/4 TURN	1 1/4 TURN
ALPINE 440, 440E	HR 112A	—	3/4 TURN	1 1/4 TURN
ALPINE 640E	HD 81A	.1015"	3/4 TURN	1 1/4 TURN

1973 MODELS CARBURETOR ADJUSTMENT

CARBURETOR SPECIFICATION CHART

MODEL	ENGINE TYPE	CARBURETOR	MAIN FUEL JET DIA. INCH	LOW SPEED ADJ +1/8 - 0 turn	HIGH SPEED ADJ +1/8 - 0 turn	FUEL GRADE
Elan 250*	247	HR 73A	.042"	3/4	fixed	Reg.
Elan 250	247	HR 133A	.042"	3/4	fixed	Reg.
Elan 250T	248	HR 136A	.042"	3/4	fixed	Prem.
Elan 250SS	249	2x HR 143A	.041"	3/4	fixed	Prem.
Olympique 300*	302	HR 74A	—	3/4	1	Reg.
Olympique 300	302	HR 132A	—	3/4	1	Reg.
Olympique 335	337	HR 75A	—	7/8	1 1/16	Reg.
Olympique 340	338	HR 131A	.050"	3/4	fixed	Reg.
Olympique 400*	401	HR 76A	—	1	1 1/16	Reg.
Olympique 400	401	HR 134A	.052"	3/4	fixed	Prem.
Olympique 440	434	HR 135A	.045"	7/8	fixed	Reg.
Skandic 335	337	HR 75A	—	7/8	1 1/16	Reg.
T'NT 294	294	2x HR 137A	.045"	3/4	fixed	Prem.
T'NT 340	343	HD 107A	.081"	7/8	1	Prem.
T'NT 440	435	HD 109A	.120"	1	1	Prem.
T'NT F/A 340	346	2x HR 149A	—	1	1 1/8	Prem.
T'NT F/A 400	396	2x HD 123A	—	1	5/8	Prem.
Nordic 640	640	HD 110A	.060"	7/8	fixed	Reg.
Alpine 440	434	HD 108A	.053"	7/8	fixed	Reg.
Alpine 640	640	HD 124A	.073"	3/4	fixed	Reg.
Valmont 440	434	HD 108A	.053"	7/8	fixed	Reg.

* Early production

MAGNETO AND BULB SPECIFICATION

1970-71-72-73 MODELS

YEAR 1970

ENGINE		HEAD LIGHT		MAGNETO OUTPUT	TAIL LIGHT*
Type	C.C.	Voltage	Watts	Watts	Voltage
290	292	12	35	40	12
340	335	12	35	40	12
300	299	12	35	40	12
335	335	12	35	40	12
335E	335	12	35	75	12
400	399	12	60	75	12
401	399	12	60	75	12
401E	399	12	35	75	12
641	635	12	60	75	12
640	635	12	60	75	12
640E	635	12	35	75	12
775	771	12	60	75	12

YEAR 1971

ENGINE		HEAD LIGHT		MAGNETO OUTPUT	TAIL LIGHT*
Type	C.C.	Voltage	Watts	Watts	Voltage
247	247	12	35	40	12
247E	247	12	35	75	12
292	292	12	35	40	12
342	335	12	35	40	12
302	299	12	35	40	12
337	335	12	35	40	12
337E	335	12	35	75	12
401	399	12	60	75	12
401E	399	12	35	75	12
640	635	12	60	75	12
641	635	12	60	75	12
640E	635	12	35	75	12
440	435	12	60	75	12
775	771	12	60	75	12

*Tail Light Wattage 2 x 2

YEAR 1972

ENGINE		MAGNETO OUTPUT	HEADLAMP	TAILLIGHT	
TYPE	CC	WATTS	WATTS	WATTS	VEHICLE
247	247	40	35	2 x 2	Élan
247E	247	75	35	2 x 2	Élan
292	292	75	60	2 x 2	T'NT
302	299	40	35	2 x 2	Olympique
337	335	40	35	2 x 2	Olympique
337E	335	75	35	2 x 2	Olympique
343	339	75	60	2 x 2	T'NT
401	399	75	60	2 x 2	Olympique
401E	399	75	35	2 x 2	Olympique
434	437	75	60	2 x 2	Nordic Valmont
434E	437	75	35	2 x 2	Nordic Valmont
435	437	75	60	2 x 2	T'NT
640E	635	120	60	2 x 2*	Nordic Alpine
641	635	75	60	2 x 2	T'NT
775	771	75	60	2 x 2	T'NT

*The Nordic 640E model incorporates a 7.5W/26.2W twin filament tail/stop light.

MAGNETO AND BULB SPECIFICATION CHART

VEHICLE	MAGNETO OUTPUT WATT	HEADLAMP WATT	TAIL / STOP LIGHT WATT
Elan 250	75/23	60/60	8/23
Elan 250E	75/23	35/35	8/23
Elan 250T	55/18	35/35	5/18
Elan 250SS	55/18	35/35	5/18
Olympique 300	75/23	60/60	8/23
Olympique 335	75/23	60/60	8/23
Olympique 340	75/23	60/60	8/23
Olympique 340E	75/23	35/35	8/23
Olympique 400	75/23	60/60	8/23
Olympique 400E	75/23	35/35	8/23
Olympique 440	75/23	60/60	8/23
T'NT 294	55/18	35/35	5/18
T'NT F/A 340	75/23	60/60	8/23
T'NT F/A 400	75/23	60/60	8/23
T'NT 340 F/A	75/23	60/60	8/23
T'NT 400 F/A	75/23	60/60	8/23
Nordic 640ER	120	60/60	8/23
Valmont 440R	75/23	60/60	8/23
Valmont 440ER	75/23	35/35	8/23
Alpine 440R	75/23	60/60	8/23
Alpine 440ER	75/23	35/35	8/23
Alpine 640ER	120	60/60	8/23
Skandic 335	75/23	60/60	8/23

ELECTRICAL RESITANCE CHART

1970-71-72-73

1970-71 MODELS

GENERATING			IGNITION COILS		SECONDARY LIGHTING		
ENGINE	COIL		PRIMARY		CONTINUITY	COIL	
TYPE	C.C.	RESISTANCE	AMPERAGE	MIN	MAX	MIN	MAX RESISTANCE
290	292	—	0.6	1.5	1.9	40	50 1.2
340	335	—	0.6	1.5	1.9	40	50 1.2
300	299	—	0.6	1.5	1.9	40	50 1.2
335	335	—	0.6	1.5	1.9	40	50 1.2
335E	335	3.5	0.6	1.6	2.0	50	60 1.7
400	399	3.0	0.6	1.6	2.0	50	60 1.7
401	399	3.0	0.6	1.6	2.0	50	60 1.7
401E	399	3.0	0.6	1.6	2.0	50	60 1.7
641	635	3.0	0.6	1.6	2.0	50	60 1.7
640	635	3.0	0.6	1.6	2.0	50	60 1.7
640E	635	3.0	0.6	1.6	2.0	50	60 1.7
775	771						
247	247	—	0.6	1.6	2.0	35	45 —
247E	247	3.5	0.6	1.6	2.0	35	45 —
292	292	—	1.0	1.5	1.9	40	50 —
342	335	—	1.0	1.5	1.9	40	50 —
302	299	—	1.0	1.5	1.9	40	50 —
337	335	—	1.0	1.5	1.9	40	50 —
337E	335	3.5	0.6	1.6	2.0	35	45 —
401	399	3.0	0.6	1.6	2.0	35	45 1.7
401E	399	3.0	0.6	1.6	2.0	35	45 1.7
640	635	3.0	0.6	1.6	2.0	35	45 1.7
641	635	3.0	0.6	1.6	2.0	35	45 1.7
640E	635	3.0	0.6	1.6	2.0	35	45 1.7
435	435	3.0	0.6	1.6	2.0	35	45 1.7
775	771						
All Condenser Microfarads .26—.30							

ELECTRICAL RESISTANCE CHART

1972 MODEL

OPERATING AMPERAGE		INSIDE COIL	1.0 amp. 0.6 amp.
IGNITION COIL			
PRIMARY RESISTANCE		MIN.	MAX.
INSIDE COIL		1.5 ohms	1.9 ohms
OUTSIDE COIL		1.8 ohms	2.0 ohms
IGNITION COIL			
SECONDARY RESISTANCE		MIN.	MAX.
INSIDE COIL		4,500 ohms	6,000 ohms
OUTSIDE COIL		7,300 ohms	8,500 ohms
GENERATING COIL RESISTANCE			
SINGLE CYLINDER		MIN.	MAX.
DOUBLE CYLINDER		2.7 ohms	4.1 ohms
		1.9 ohms	2.8 ohms
LIGHTING COIL RESISTANCE			
		MIN.	MAX.
SINGLE CYLINDER		40 WATTS	.52 ohm
		75 WATTS	.36 Ohm
DOUBLE CYLINDER		75 WATTS	.32 ohm
		120 WATTS	.10 ohm
			.78 ohm
			.54 ohm
			.48 OHM
			.14 ohm

1973 MODEL

ELECTRICAL RESISTANCE CHART*

ENGINE TYPE	GENERATING COIL ohm	LIGHTING COIL ohm	BRAKE LIGHT COIL ohm	HIGH TENSION COIL	
				Primary	Secondary
247	3.4	0.45	1.85	1.9	7,900
248	1.15	0.45	1.90	1.9	7,900
249	1.15	0.45	1.90	1.9	7,900
294	1.15	0.45	1.90	1.9	7,900
302	3.4	0.45	1.85	1.9	7,900
337	3.4	0.45	1.85	1.9	7,900
338	2.35	0.40	1.70	1.9	7,900
343	2.35	0.40	1.70	1.9	7,900
346	2.35	0.40	1.70	1.9	7,900
396**	345	0.40	0.86		
401	2.35	0.40	1.70	1.9	7,900
434	2.35	0.40	1.70	1.9	7,900
435	2.35	0.40	1.70	1.9	7,900
640	2.35	1.14	—	1.9	7,900

*All values given are in ohms, with a tolerance of $\pm 20\%$

**Pick-up coil resistance is between 55 to 60 ohms.

1970 — 71 — 72 — 73

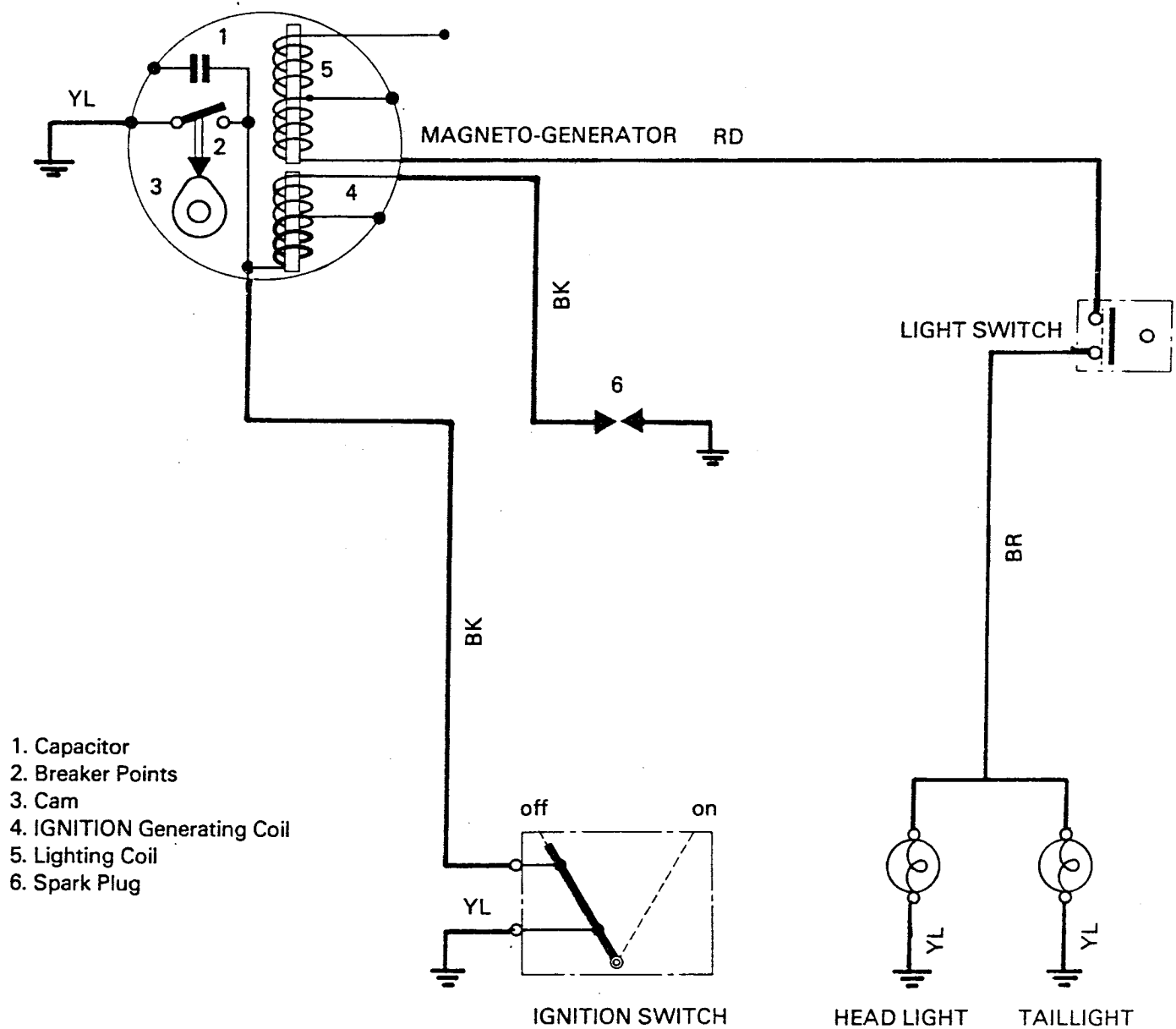
ELECTRICAL CHART

COLOR CODE

YL	YELLOW
RD	RED
BK	BLACK
BR	BROWN
GR	GREEN
BL	BLUE
OR	ORANGE
VI	VIOLET
WH	WHITE

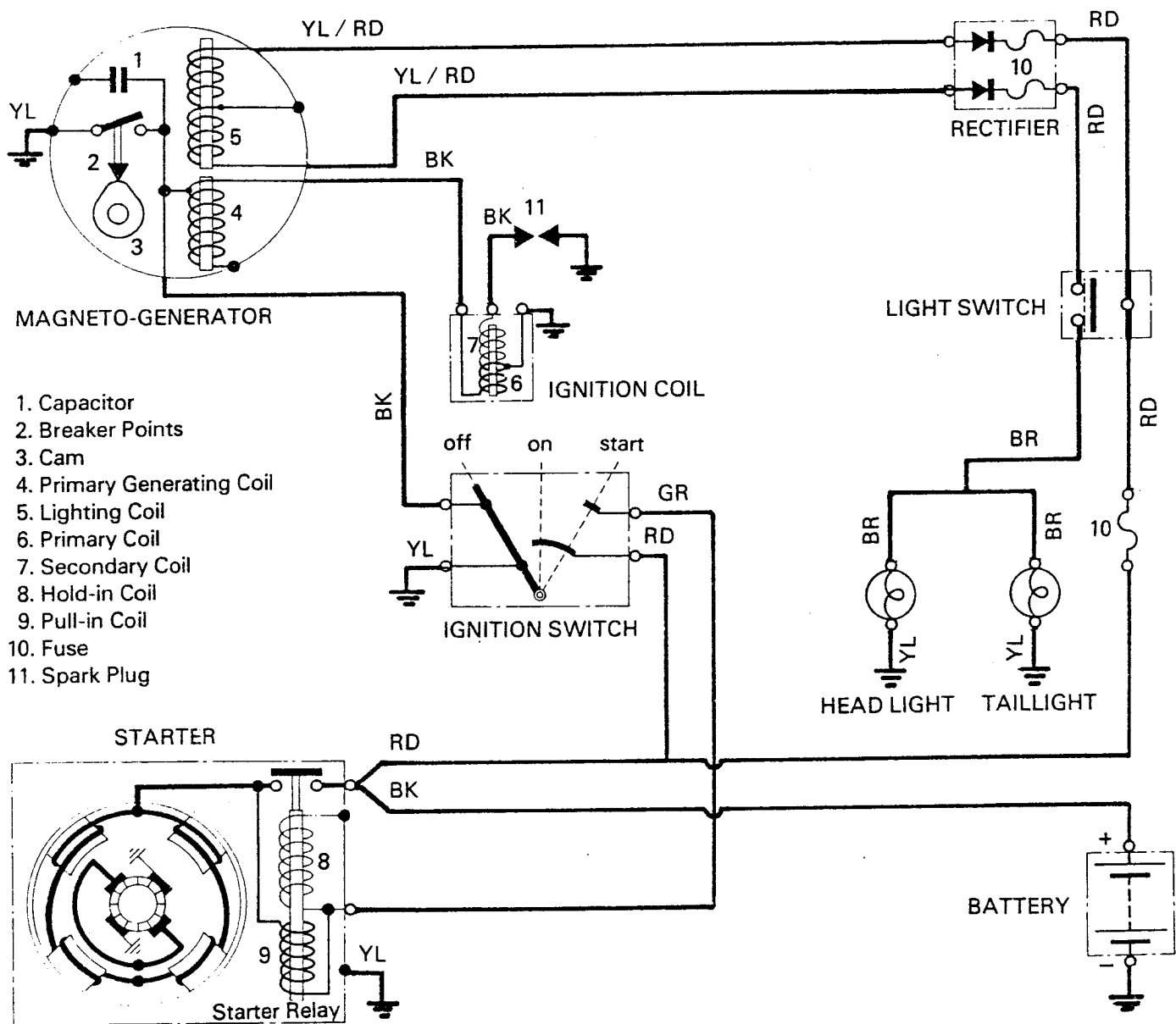
1970 SINGLE CYLINDER MANUAL START

Applicable on Olympique 12 / 3, 335, T'NT 292, 340



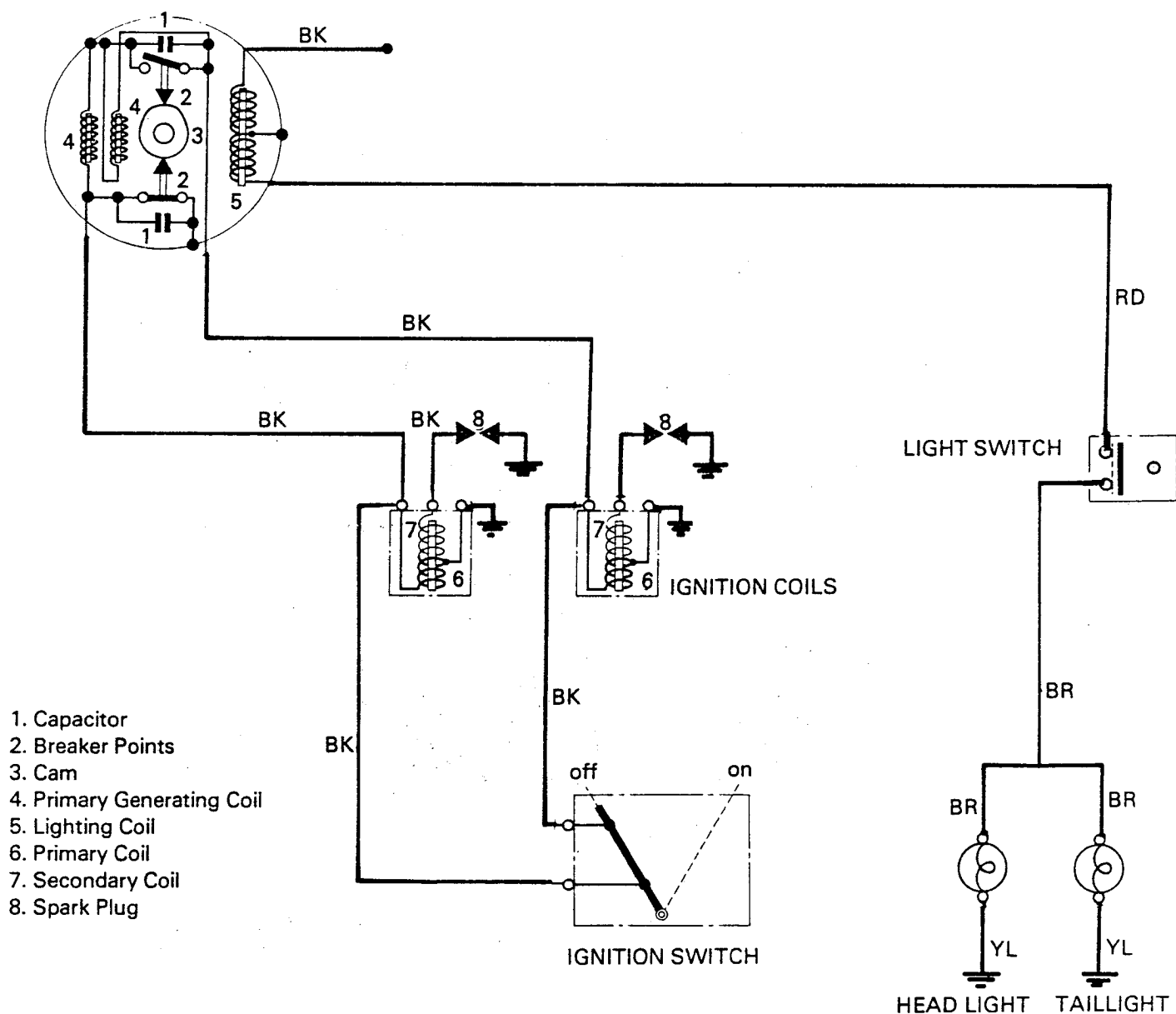
1970 SINGLE CYLINDER ELECTRICAL START

Applicable on Olympique 335E



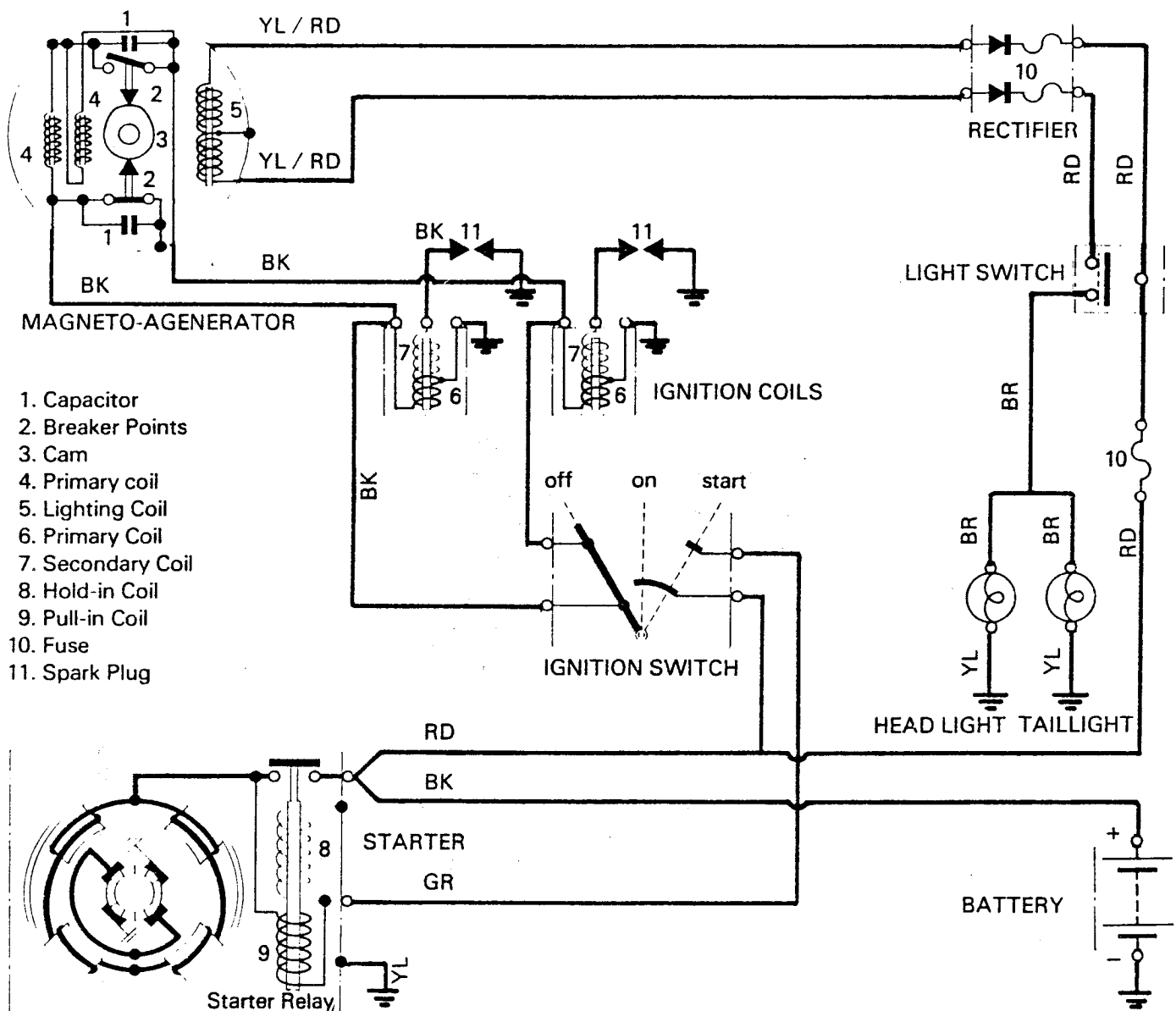
1970 DOUBLE CYLINDER MANUAL START

Applicable on Olympique 399, Nordic 399, Alpine 399, T'NT 399, 640



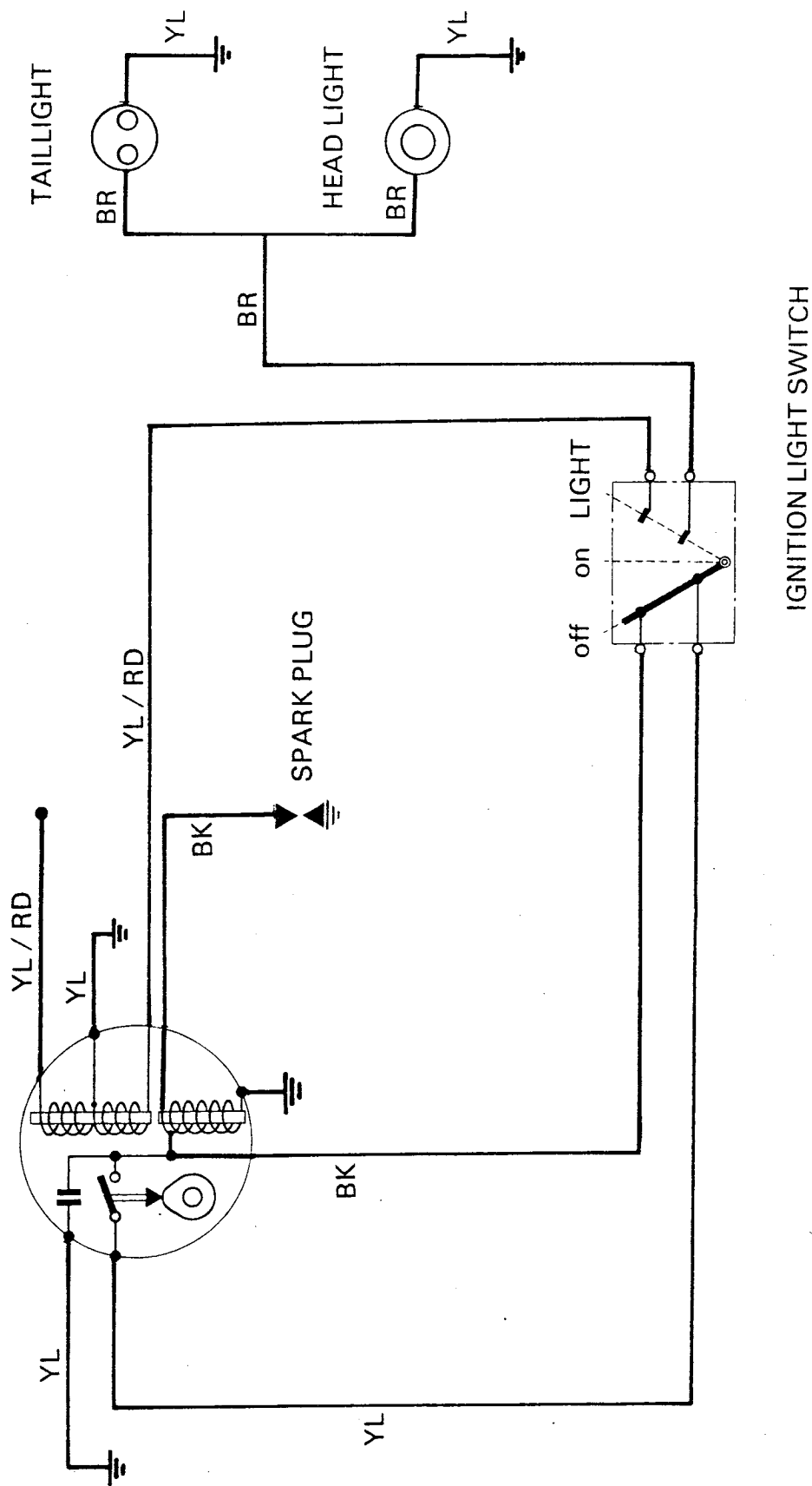
1970 DOUBLE CYLINDER ELECTRICAL START

Applicable on Nordic 399E, 640E, Alpine 399ER, Invader 640ER



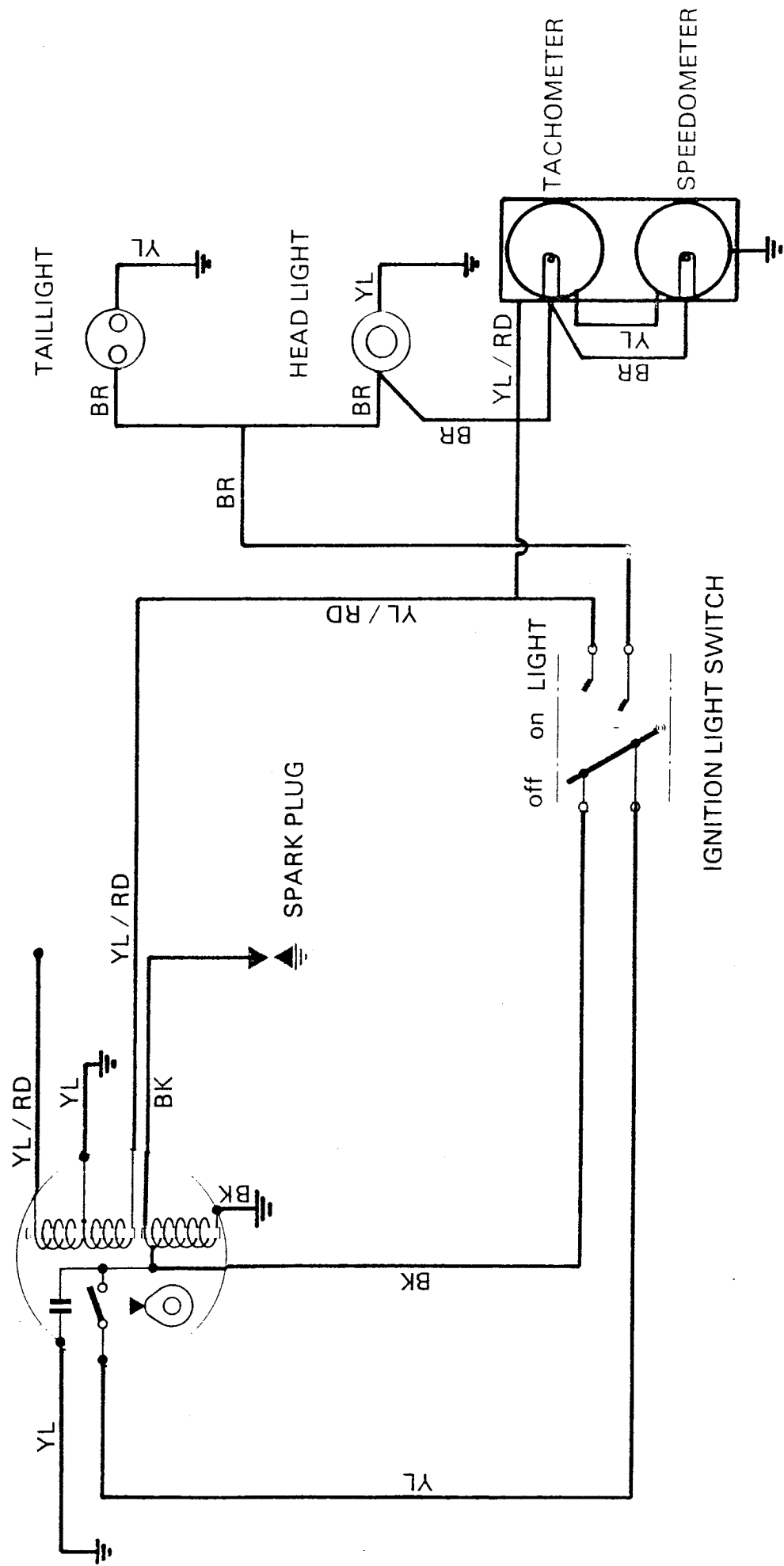
1971 SINGLE CYLINDER MANUAL START

Elan 250, Skandic 335



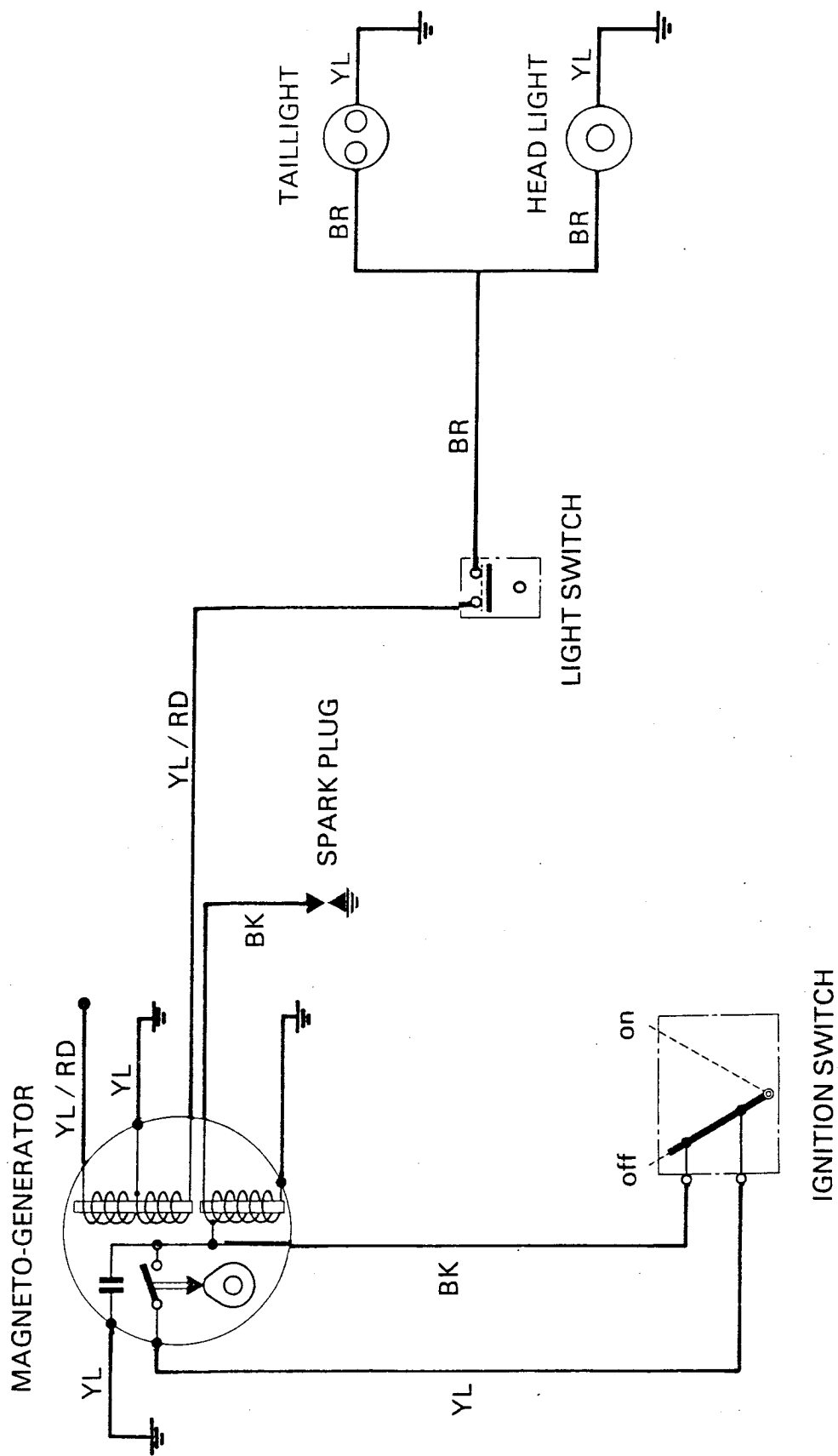
1971 SINGLE CYLINDER MANUAL START

T'NT 292 — 340



1971 SINGLE CYLINDER MANUAL START

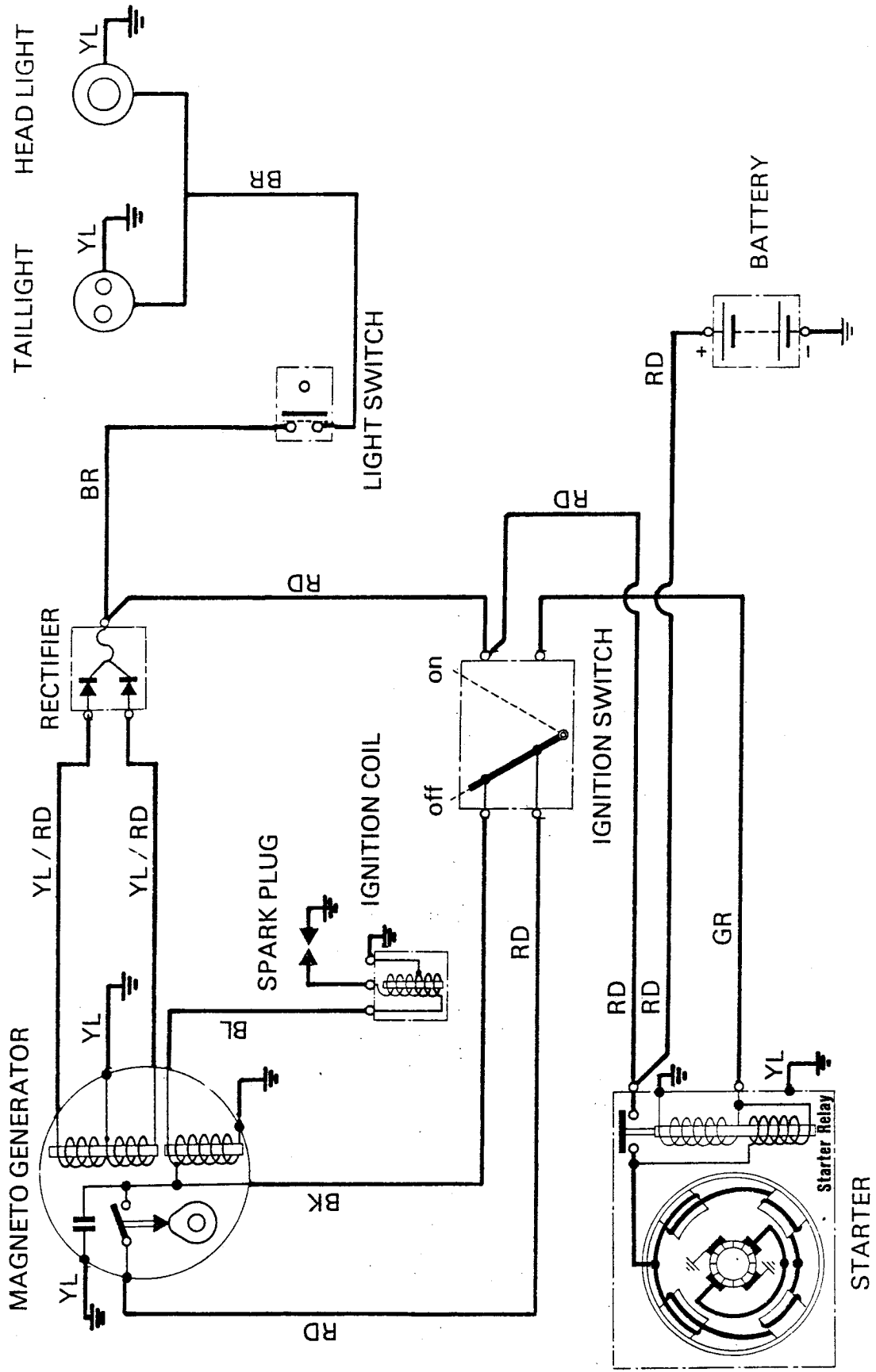
Olympique 300 — 335



1971

SINGLE CYLINDER ELECTRICAL START

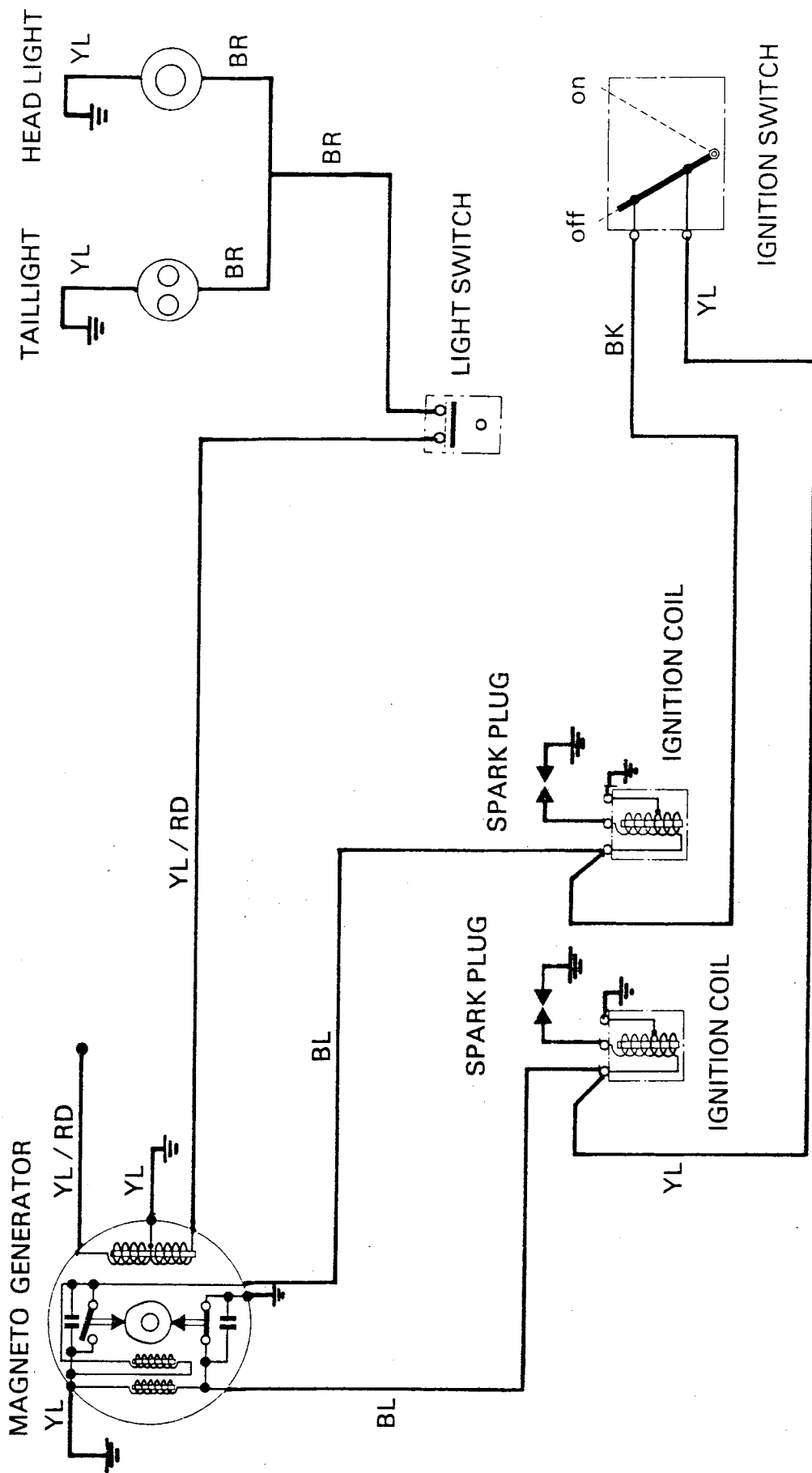
Elan 250E, Olympique 335E



1971

DOUBLE CYLINDER MANUAL START

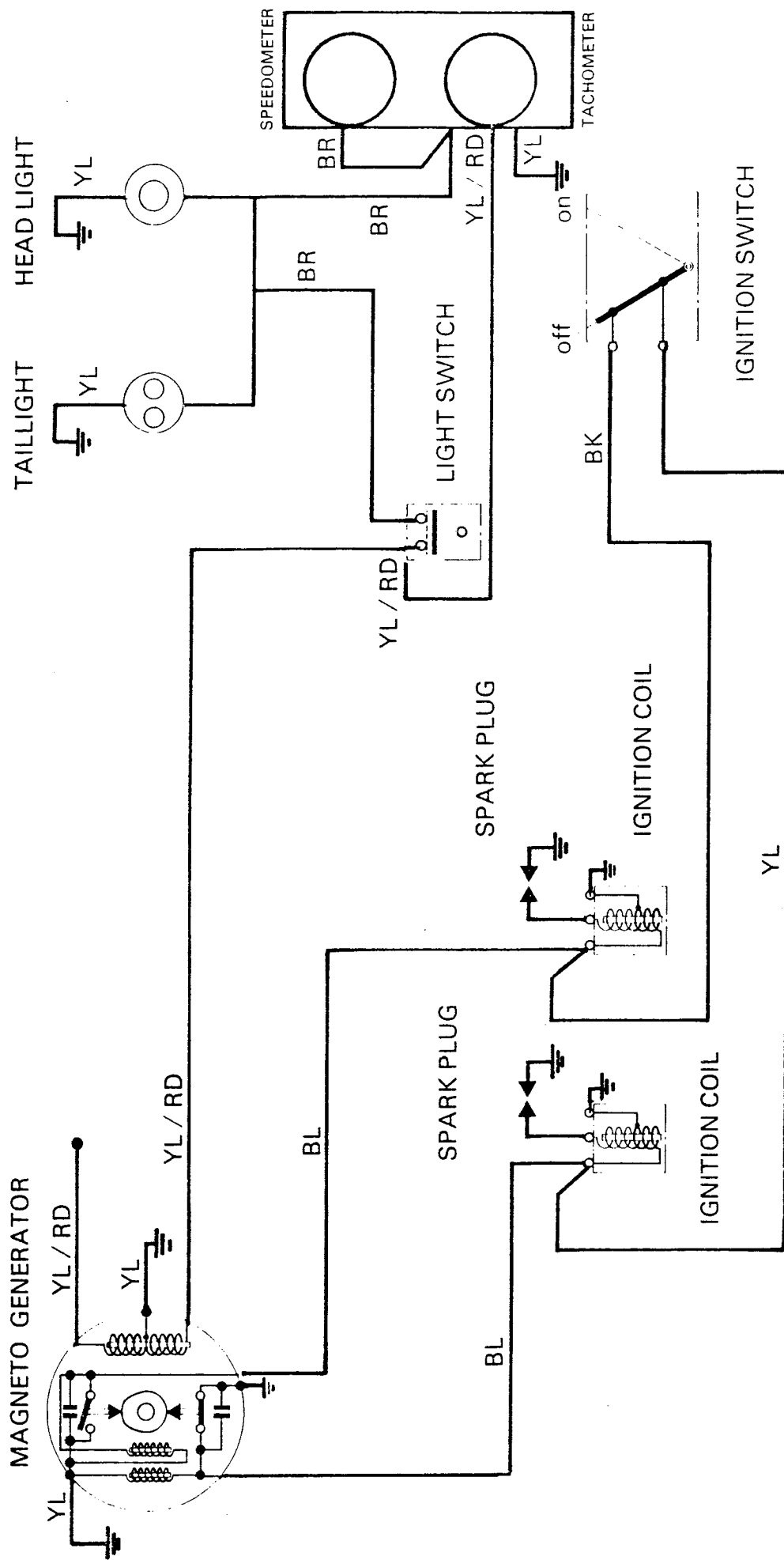
Nordic 399, Alpine 399, Valmont 399, Olympique 399



1971

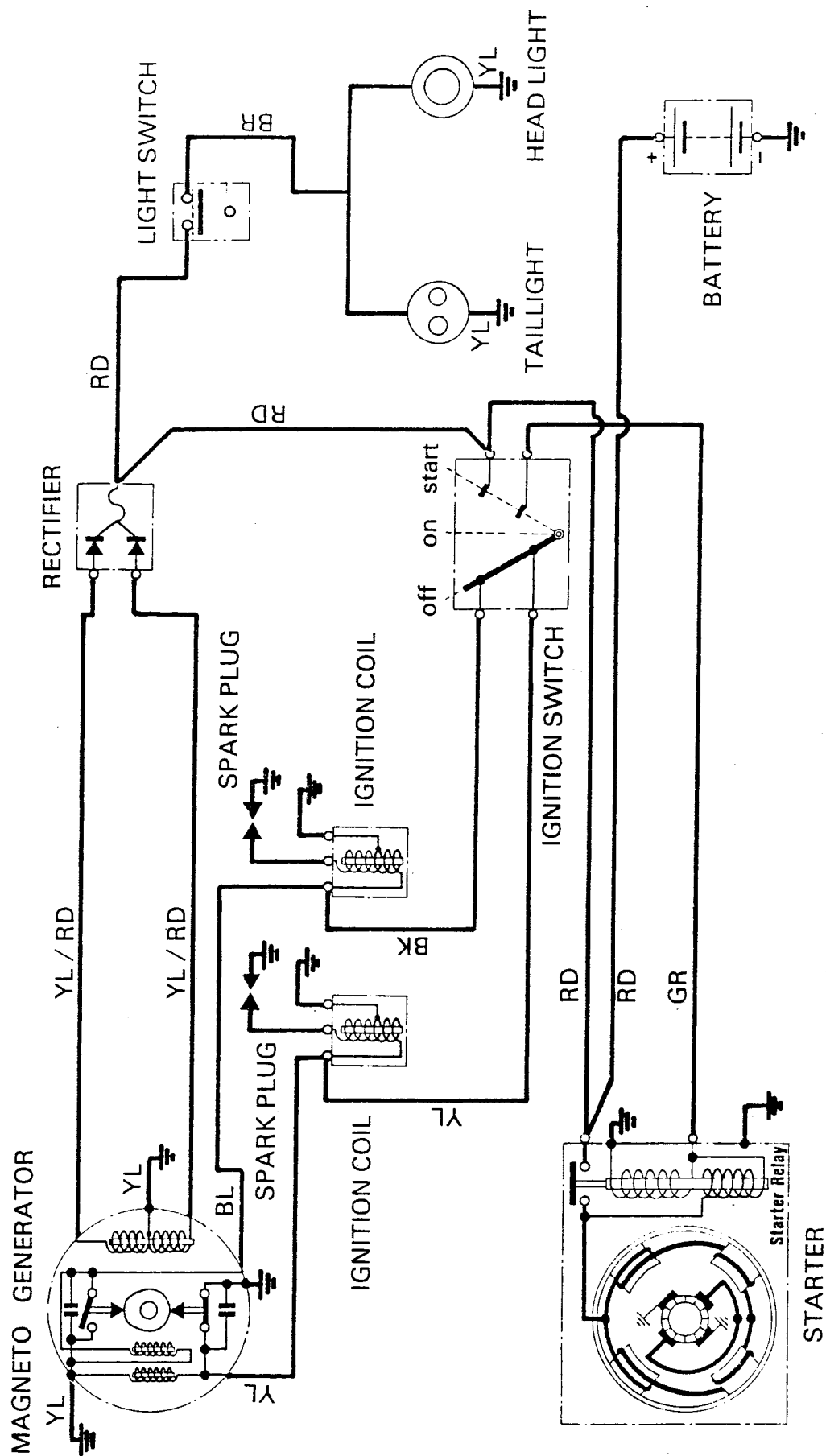
DOUBLE CYLINDER MANUAL START

T'NT 440 -- 640 -- 775



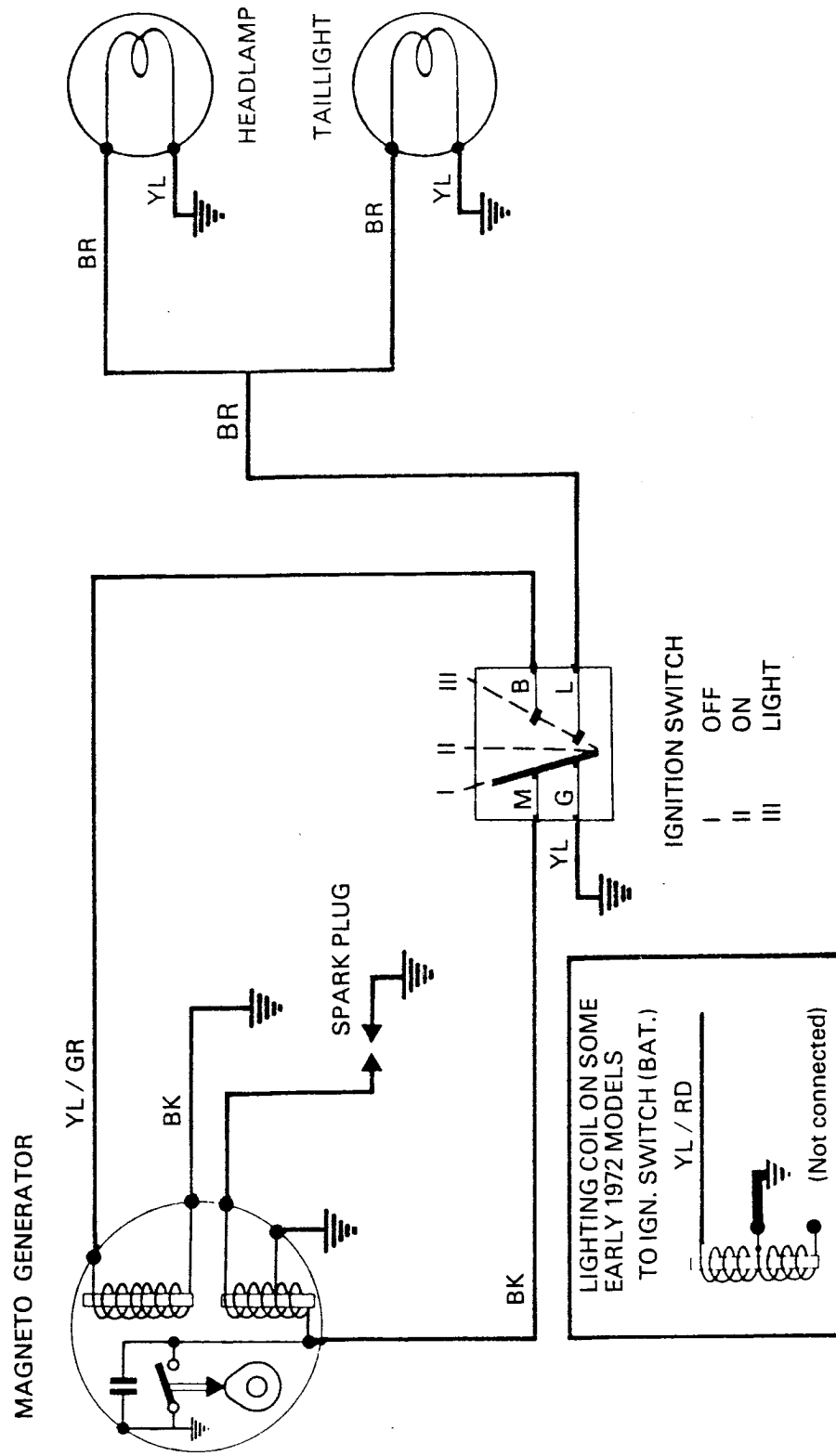
1971 DOUBLE CYLINDER ELECTRICAL START

Nordic 399E, 640E Valmont 399ER, 640ER
Olympique 399E Alpine 399ER, 640ER



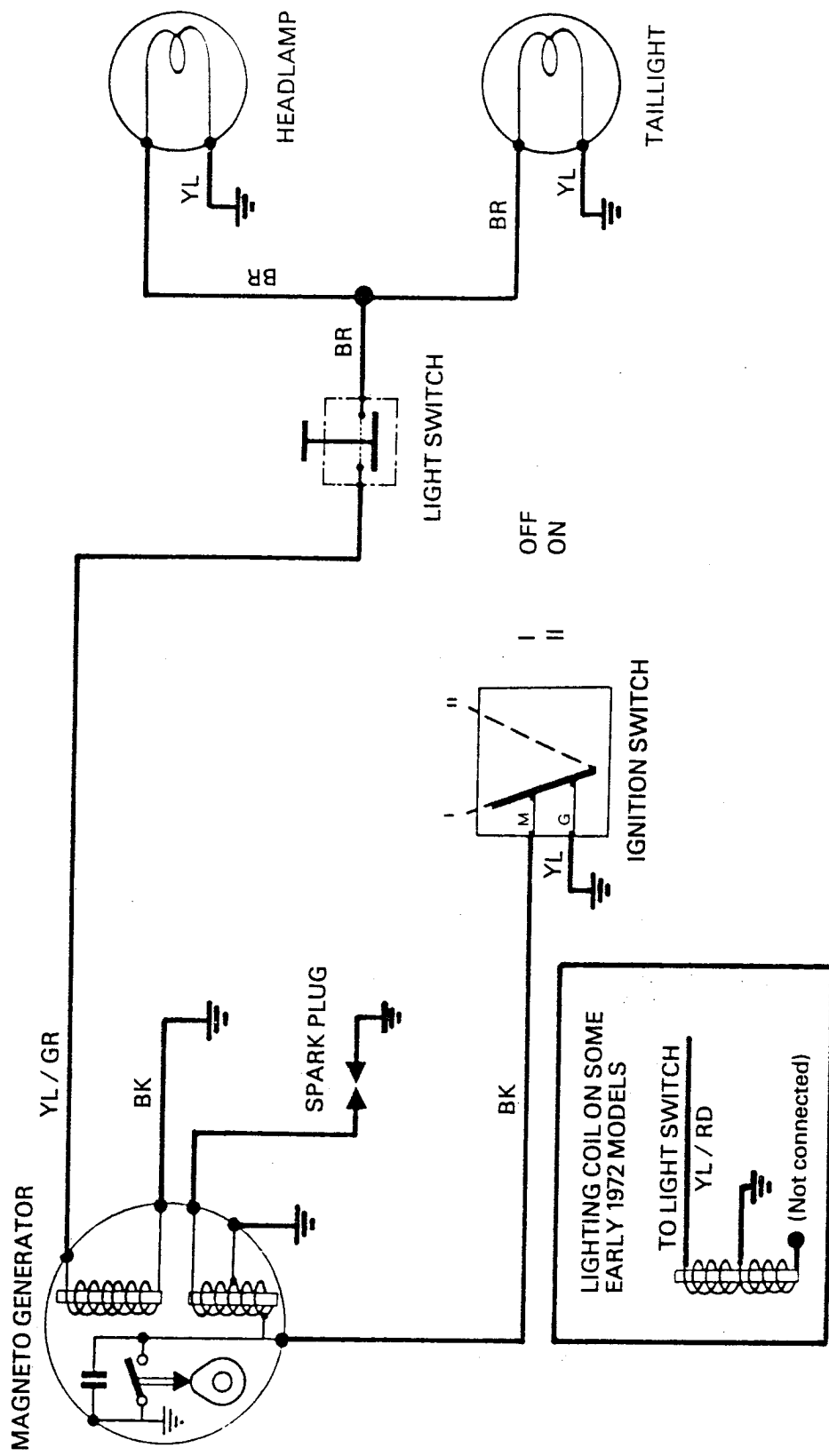
1972 SINGLE CYLINDER MANUAL START

Applicable on: Elan 250, Skandic 335



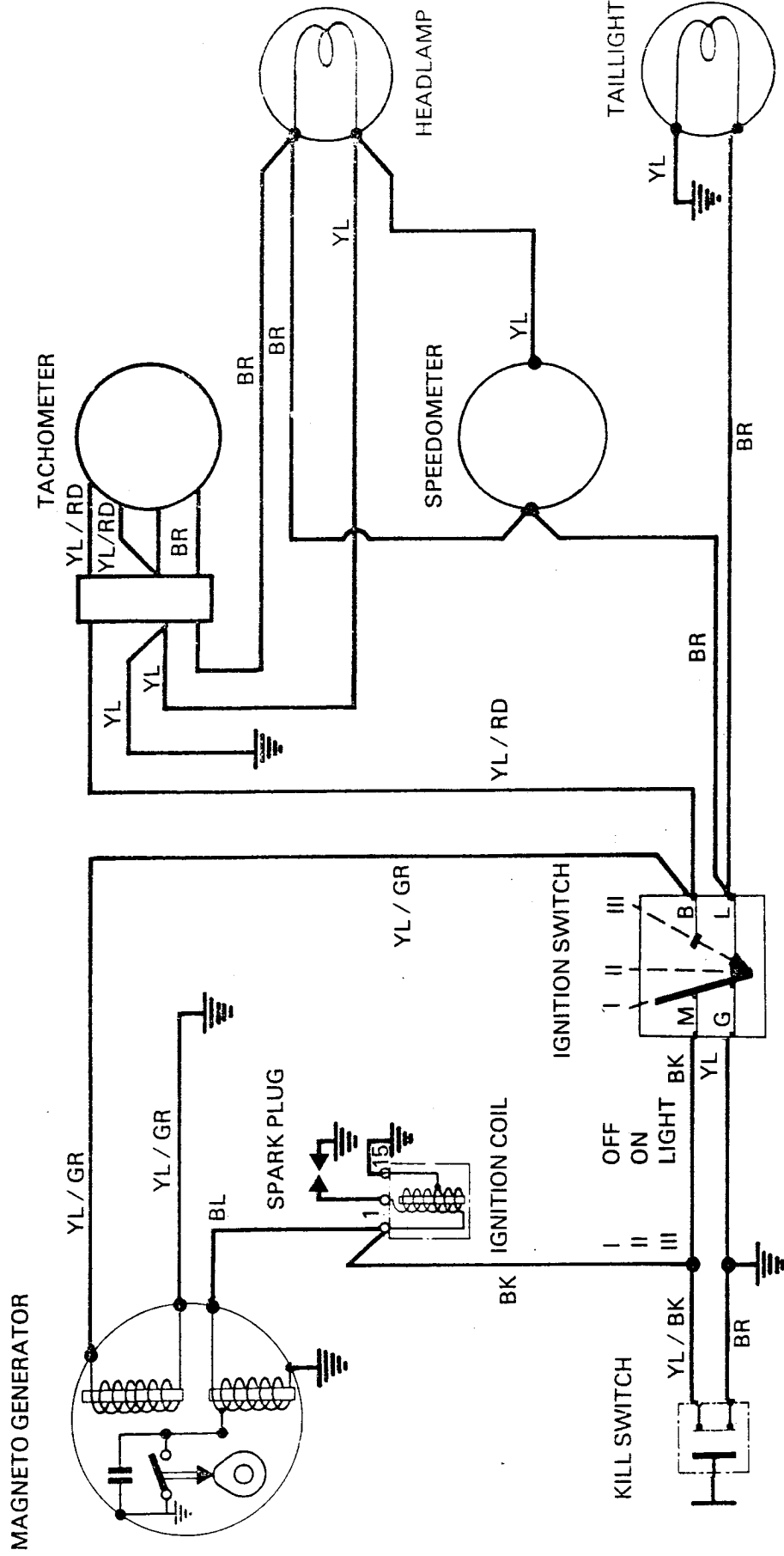
1972 SINGLE CYLINDER MANUAL START

Applicable on: Olympique 300, 335



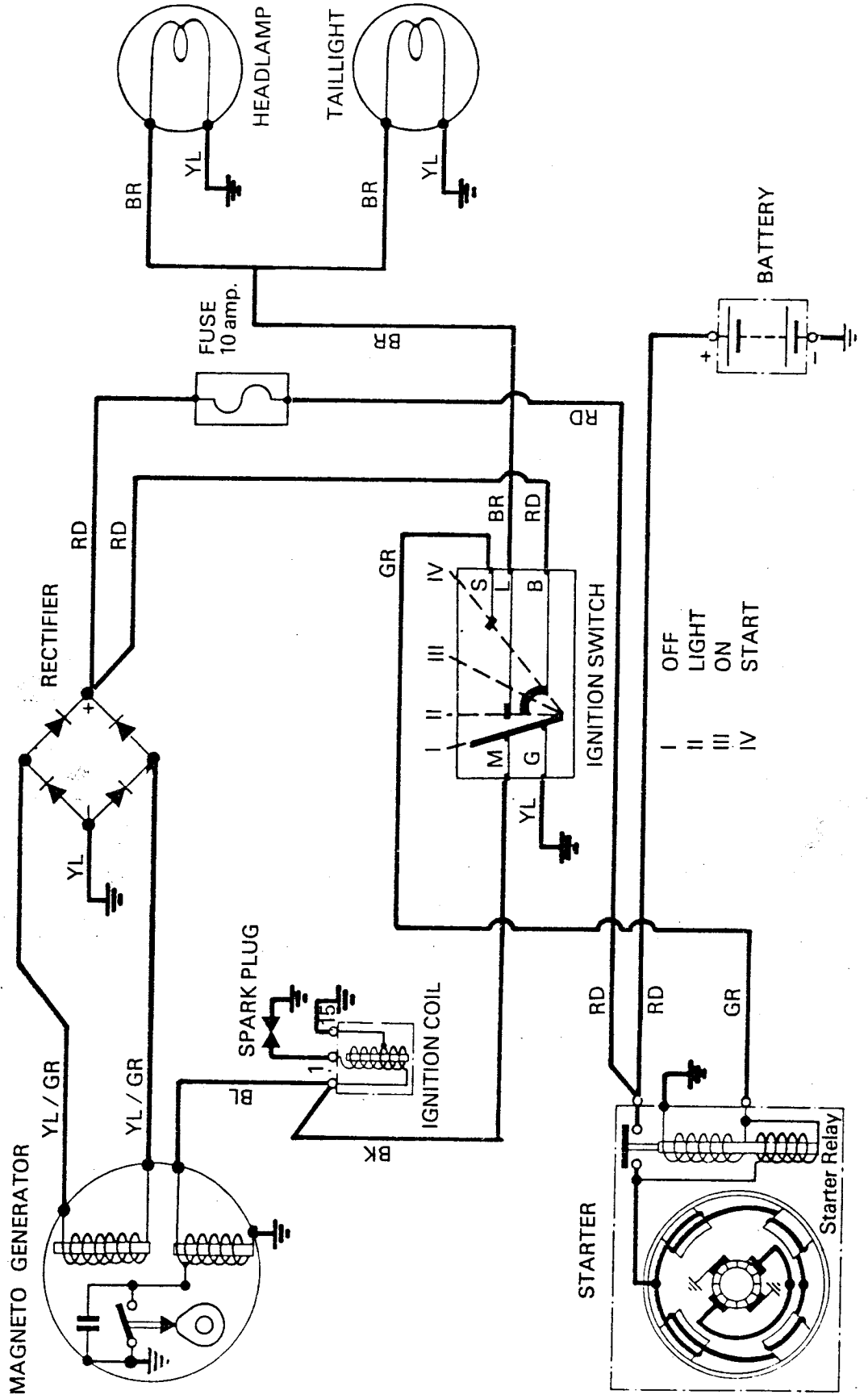
1972 SINGLE CYLINDER MANUAL START

Applicable on: TNT 292



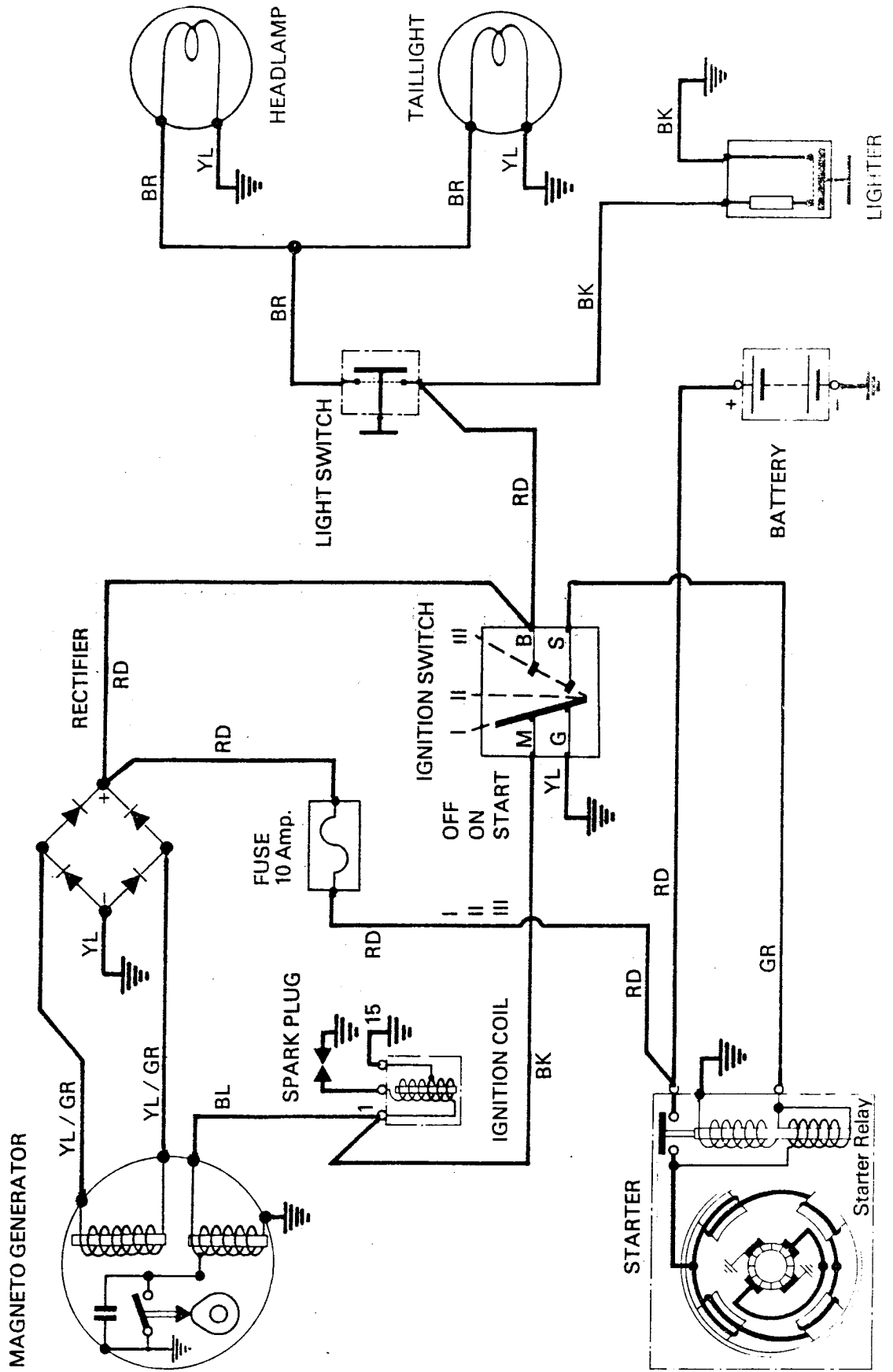
1972 SINGLE CYLINDER ELECTRICAL START

Applicable on: Elan 250E



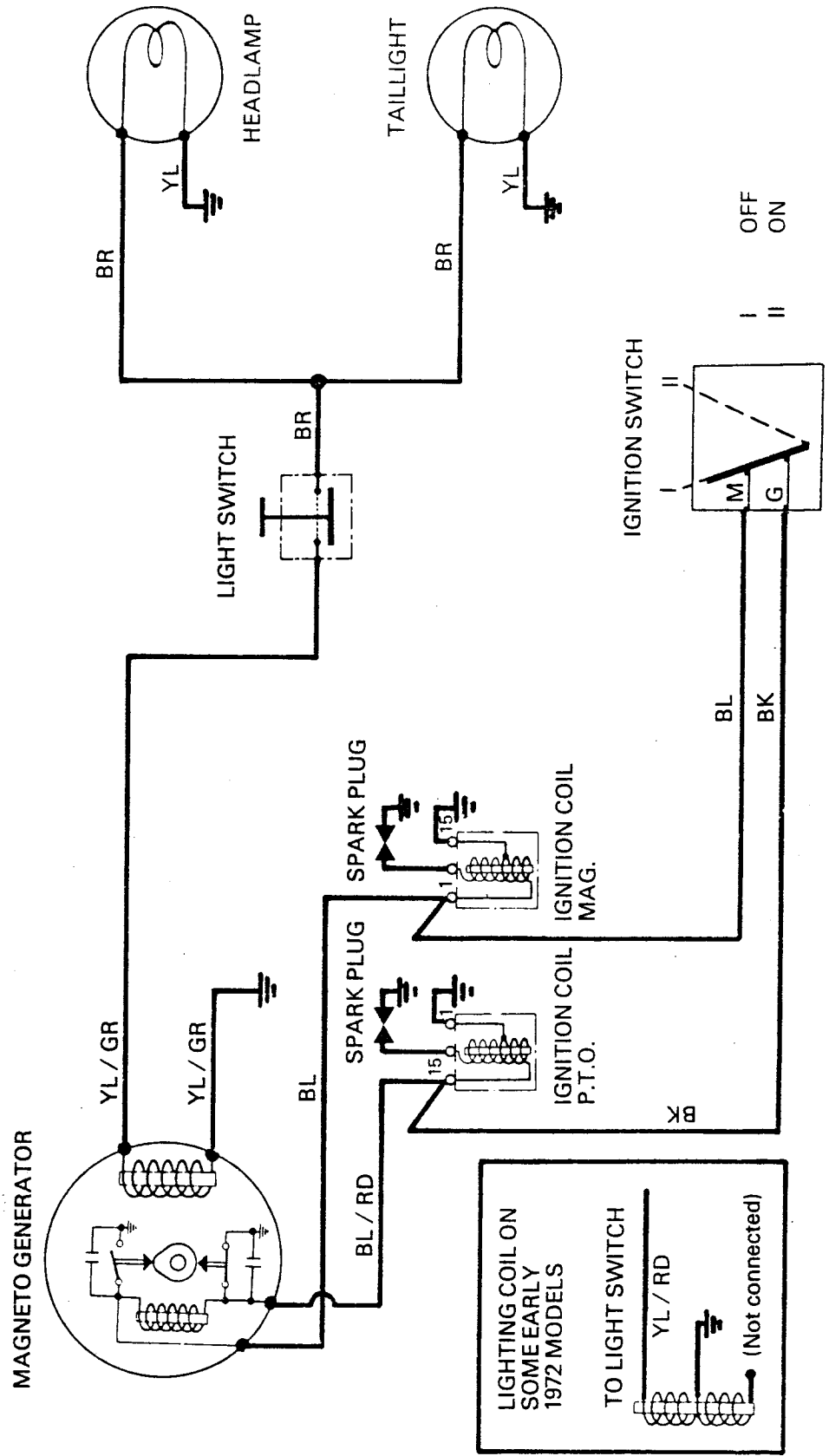
SINGLE CYLINDER ELECTRICAL START

Applicable on: Olympique 335E



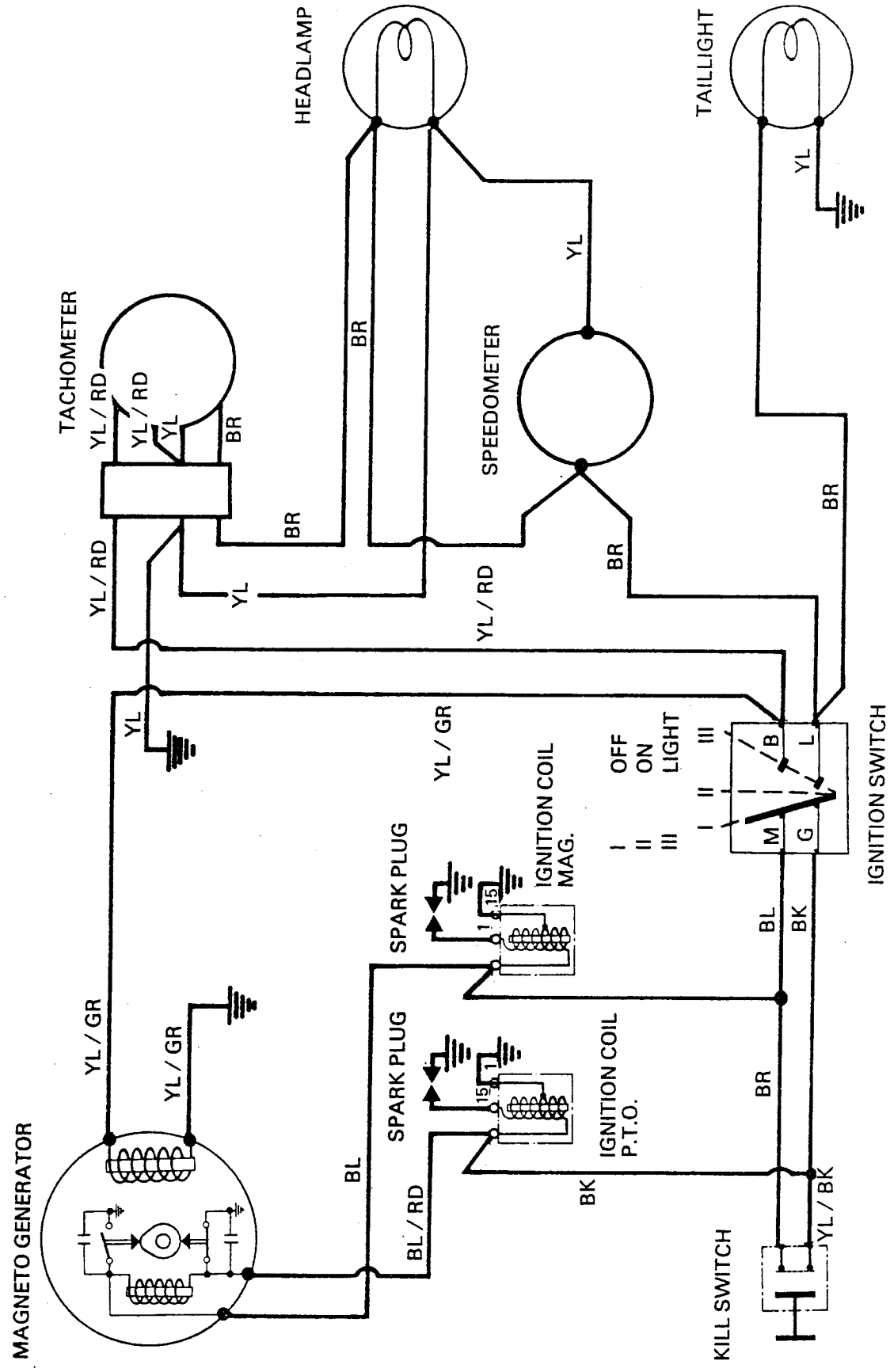
1972 DOUBLE CYLINDER MANUAL START

Applicable on: Olympique 399



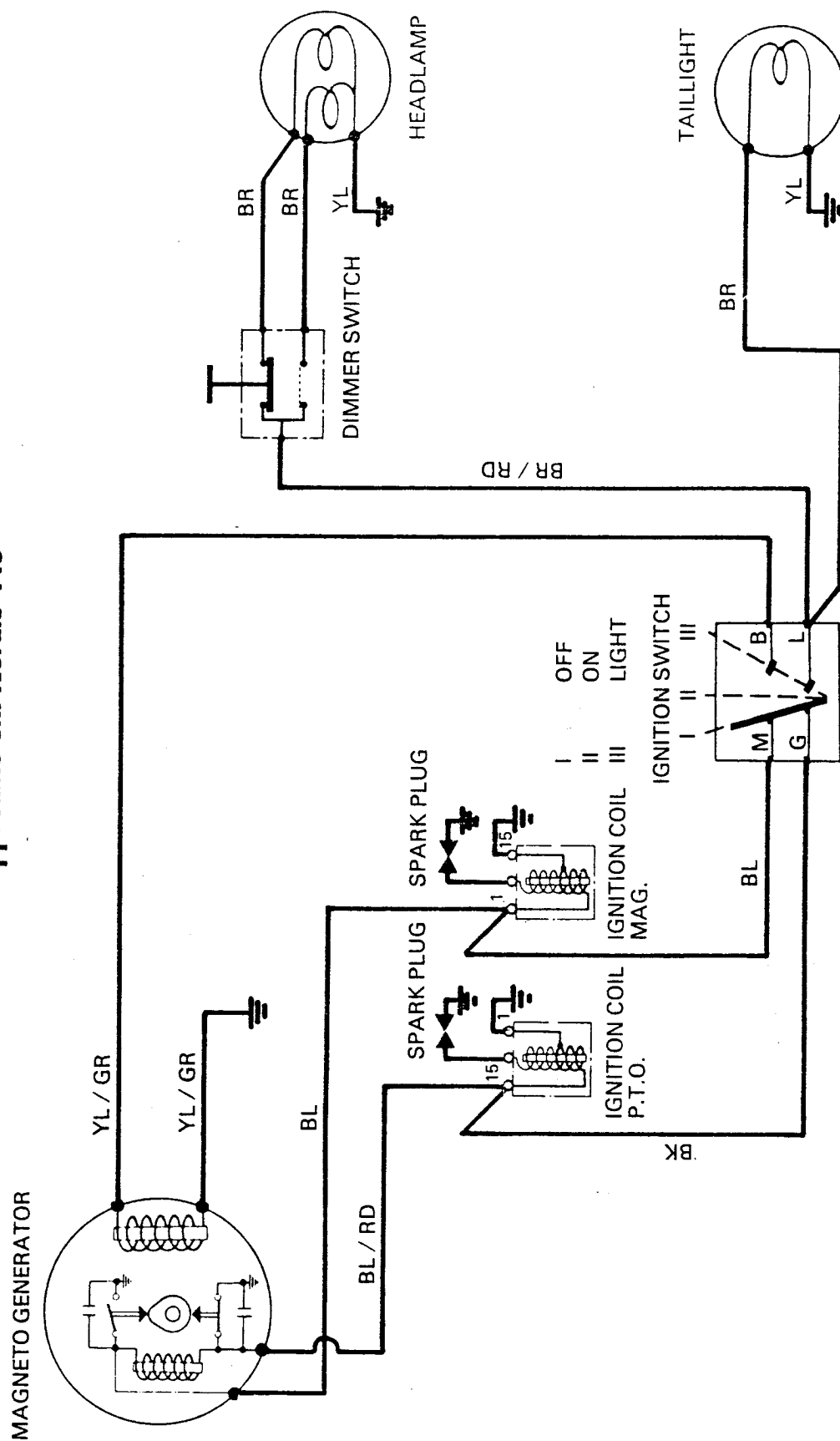
1972 DOUBLE CYLINDER MANUAL START

Applicable on: TNT 340, 440, 640, 775



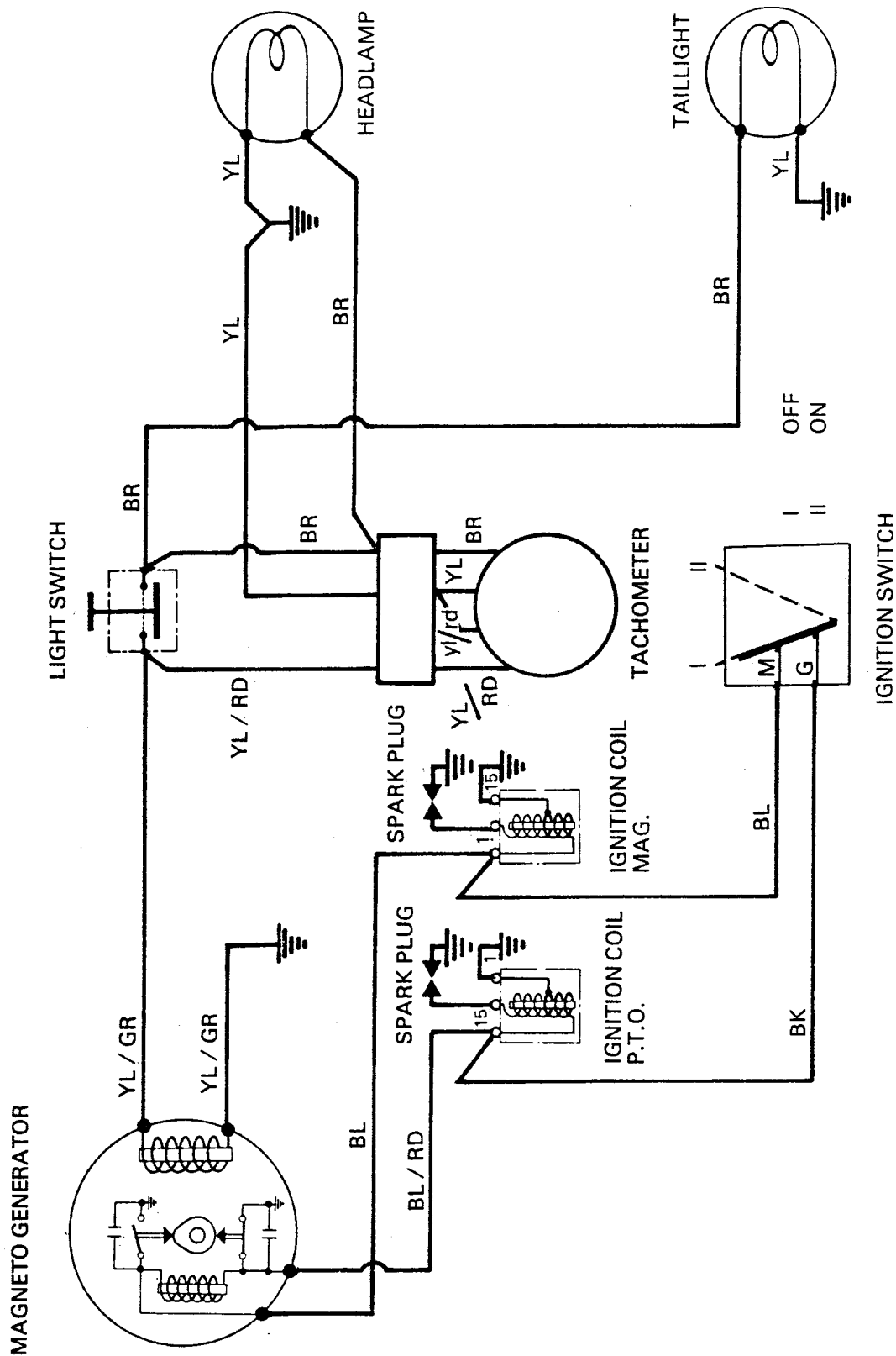
1972 DOUBLE CYLINDER MANUAL START

Applicable on: Nordic 440



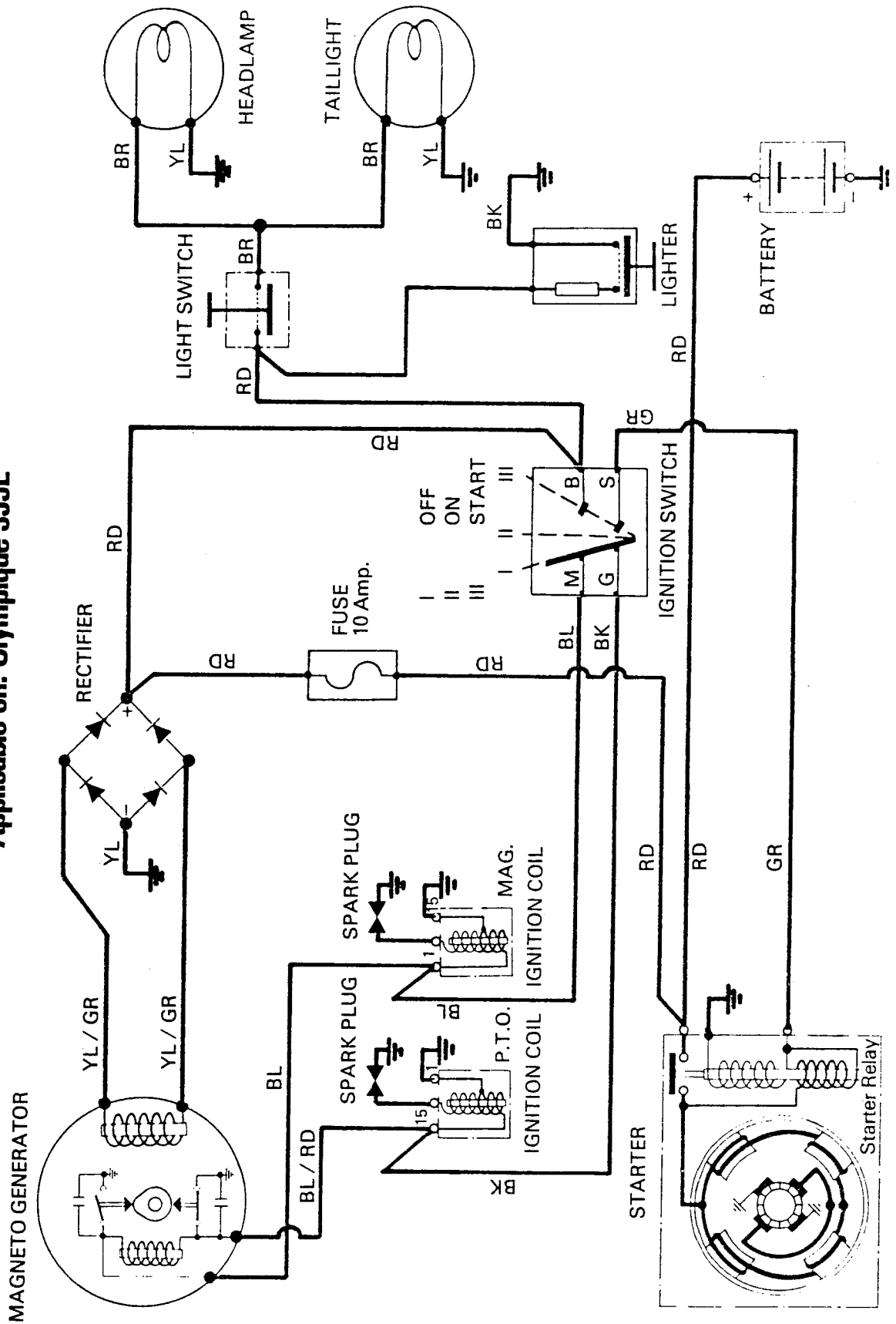
1972 DOUBLE CYLINDER MANUAL START

Applicable on: Valmont 440



1972 DOUBLE CYLINDER ELECTRICAL START

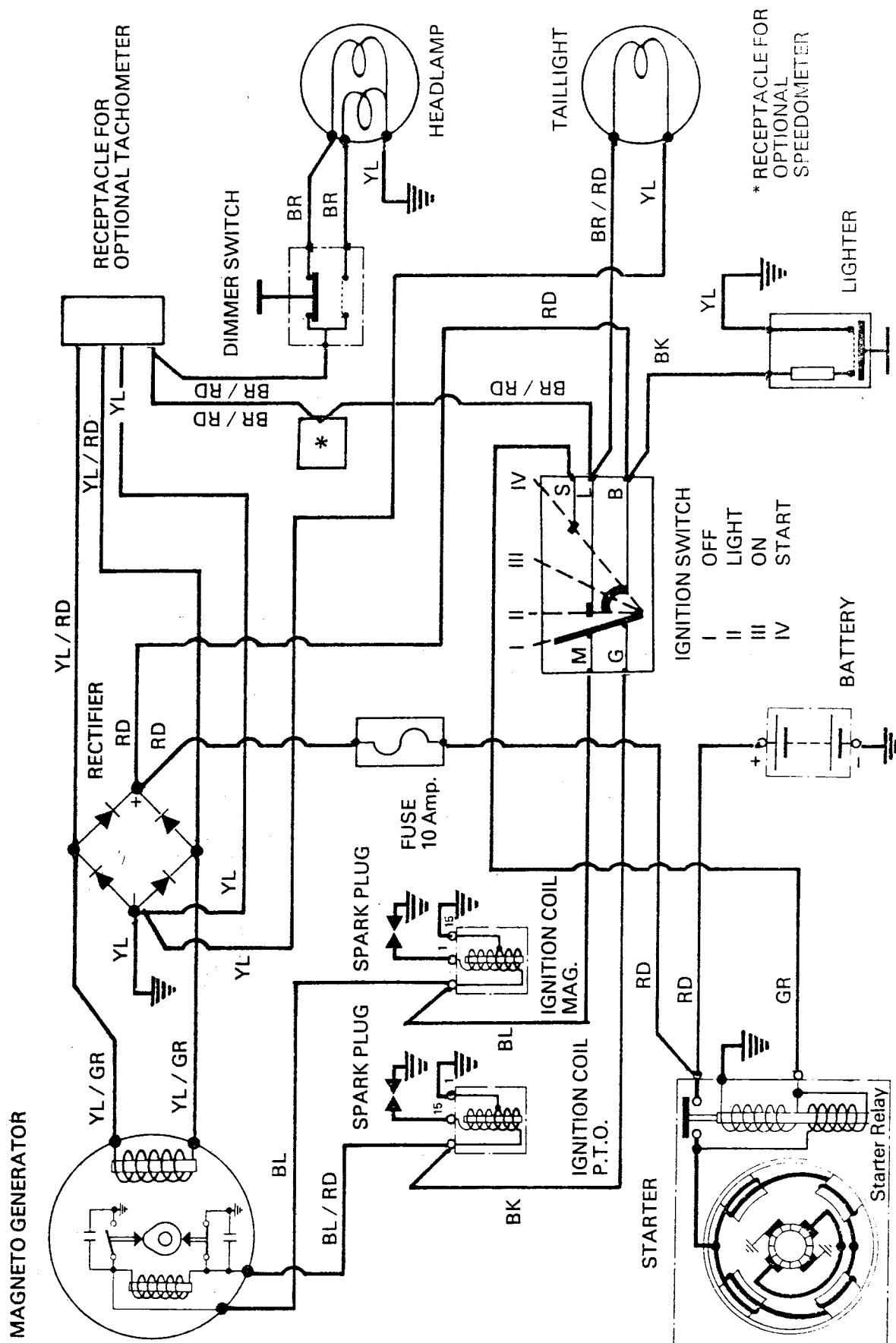
Applicable on: Olympique 399E



1972

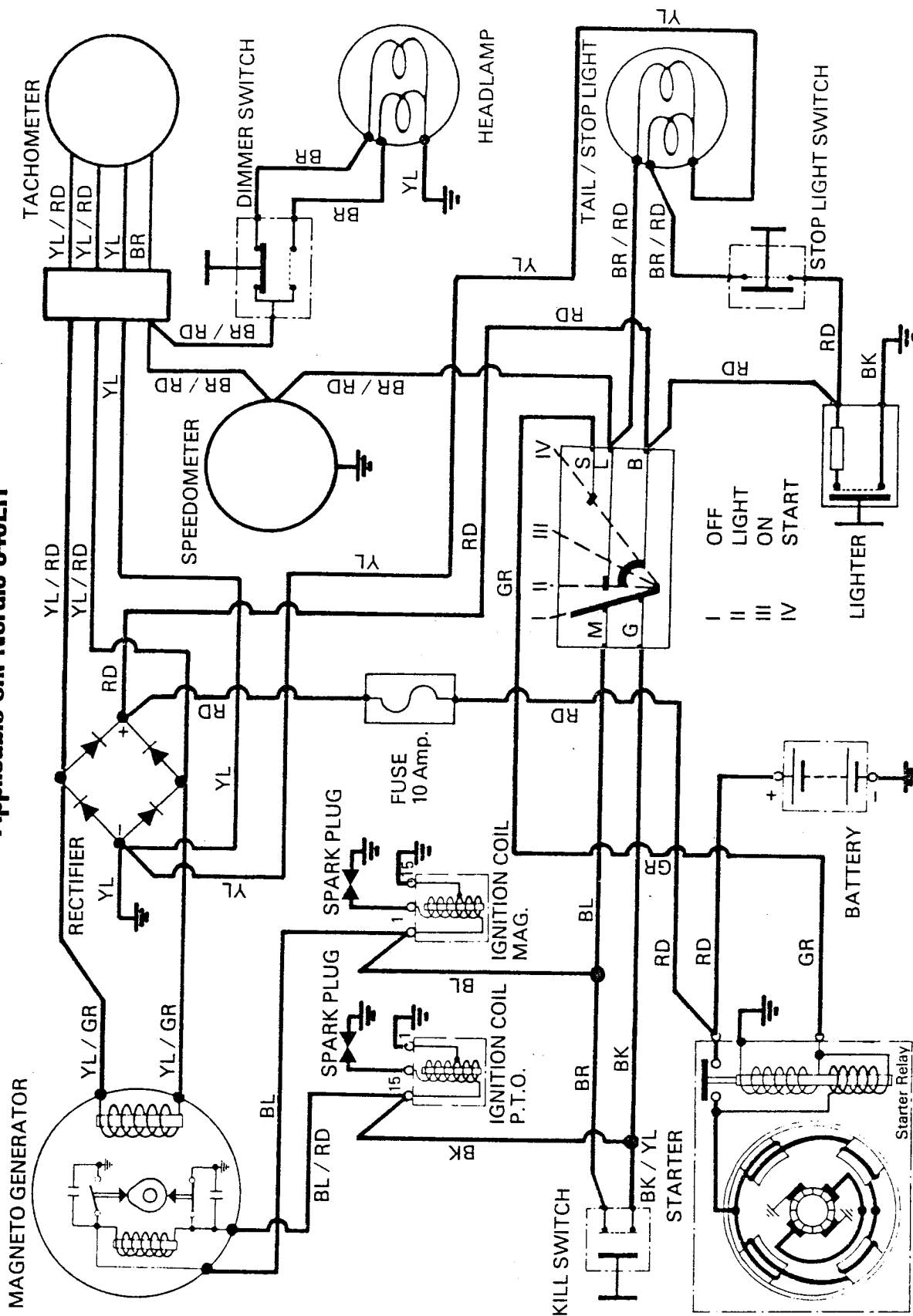
DOUBLE CYLINDER ELECTRICAL START

Applicable on: Nordic 440E



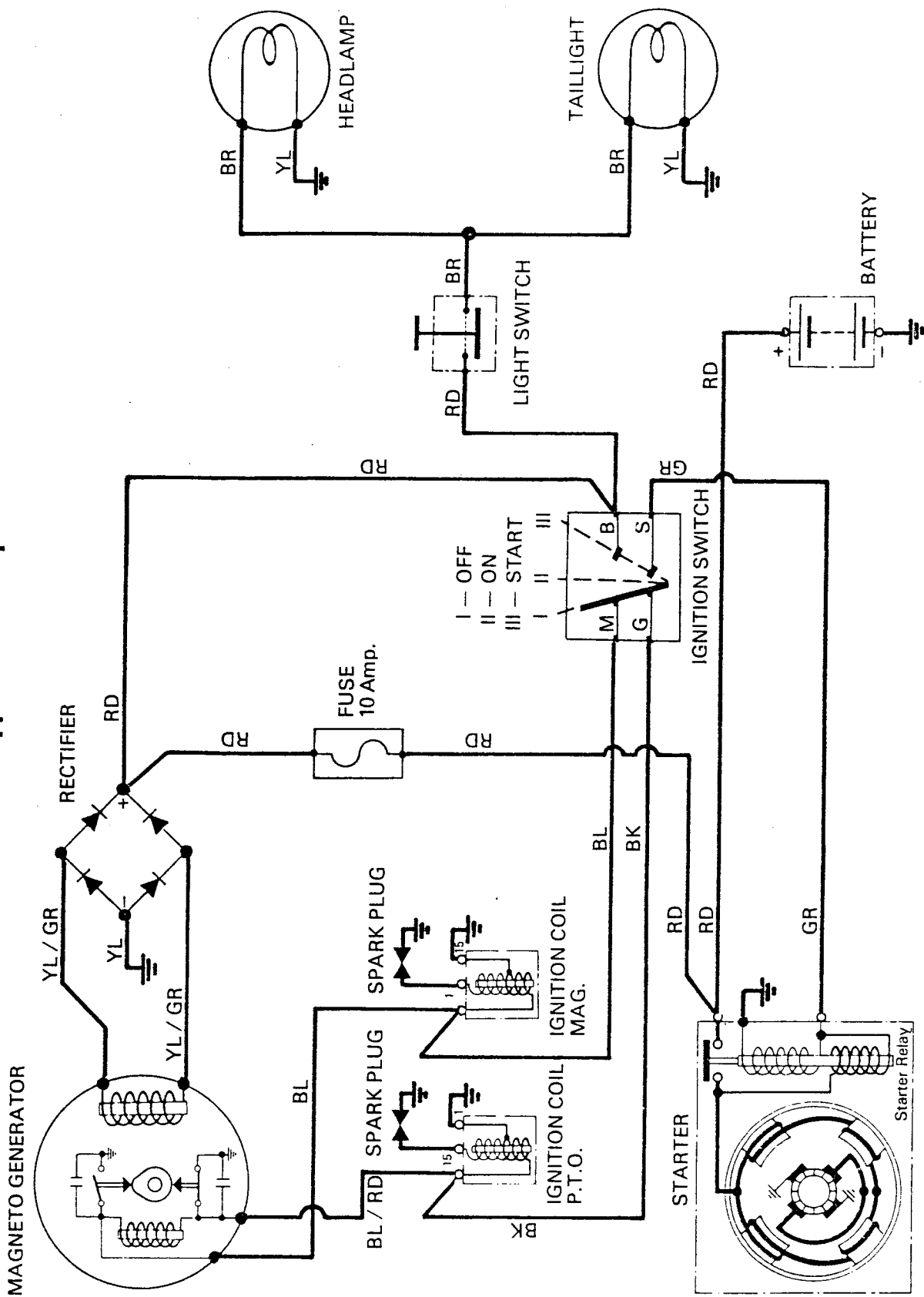
1972 DOUBLE CYLINDER ELECTRICAL START

Applicable on: Nordic 640ER



1972 DOUBLE CYLINDER ELECTRICAL START

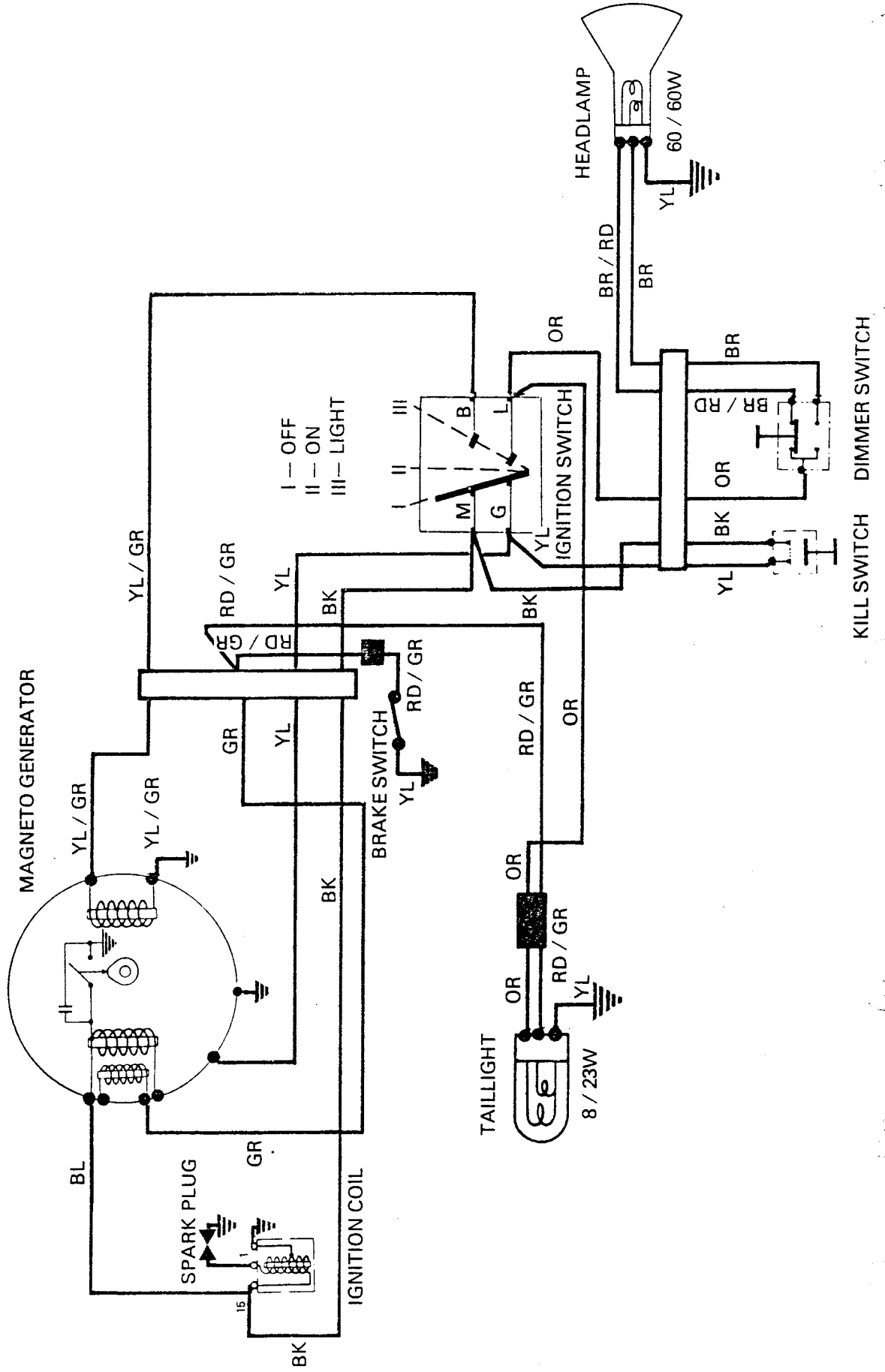
Applicable on: Alpine 640ER



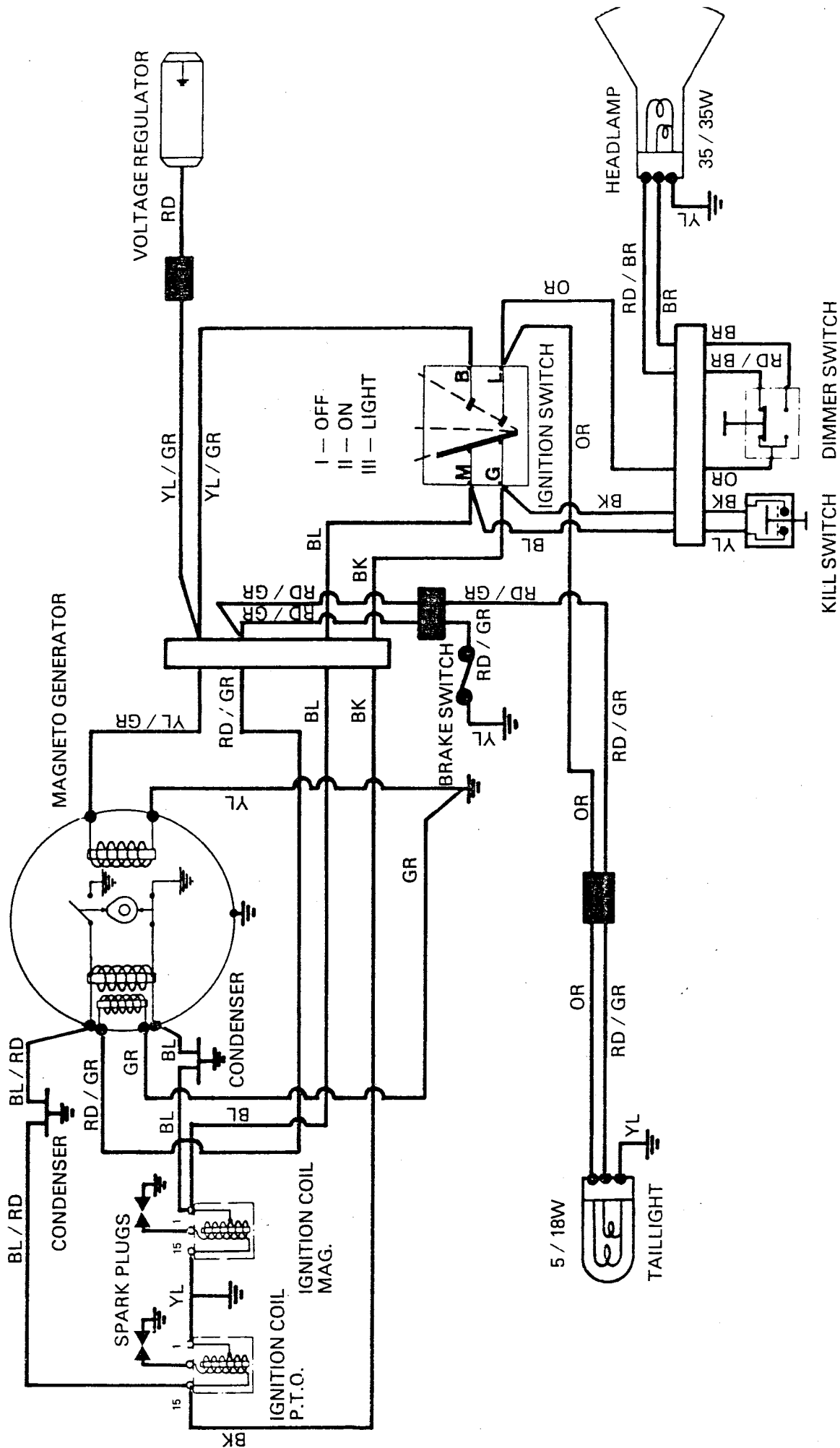
1973

Elan 250 Skandic 335

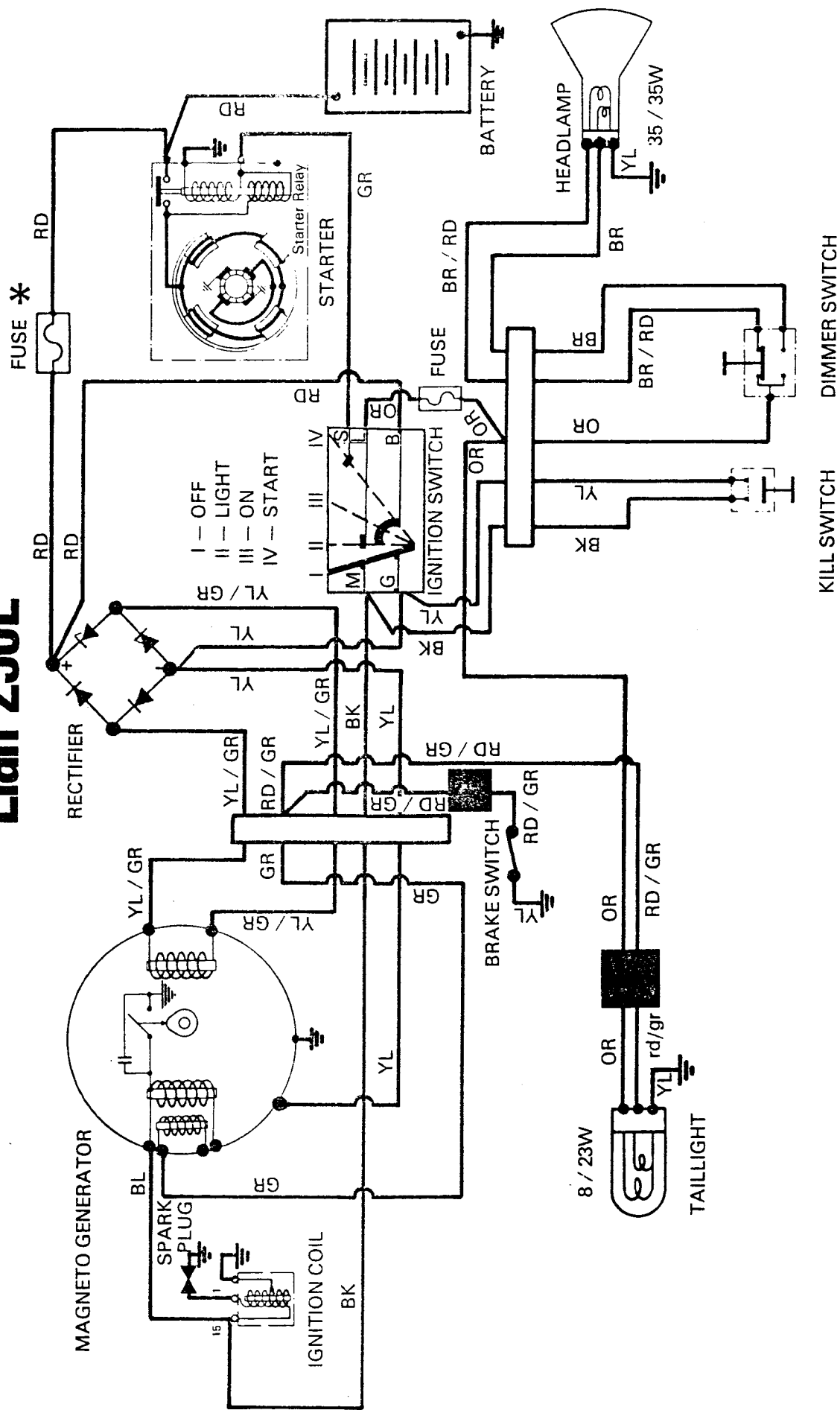
Olympique 300-335



1973 Elan 250T — 250 SS

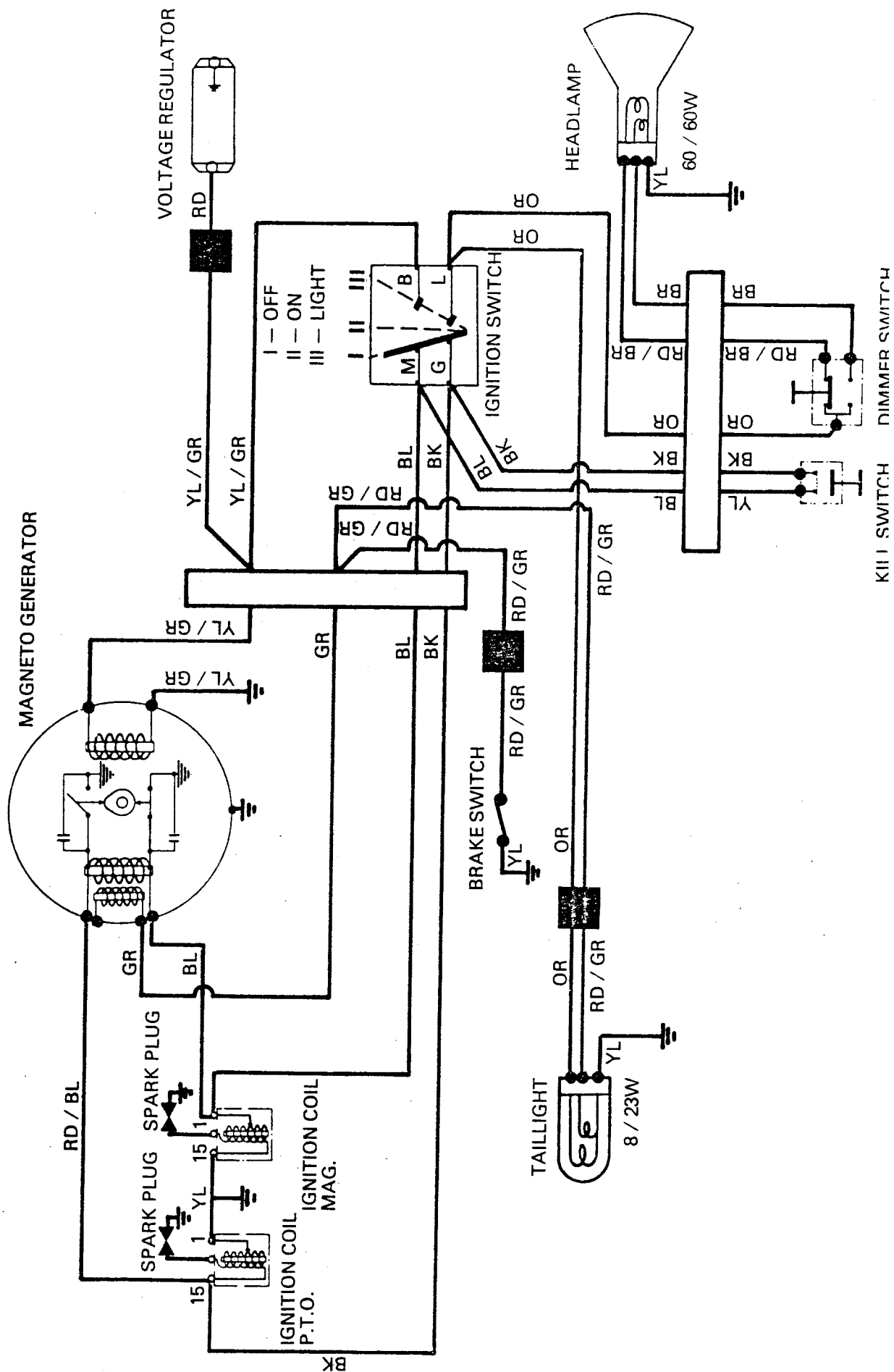


1973 Elan 250E



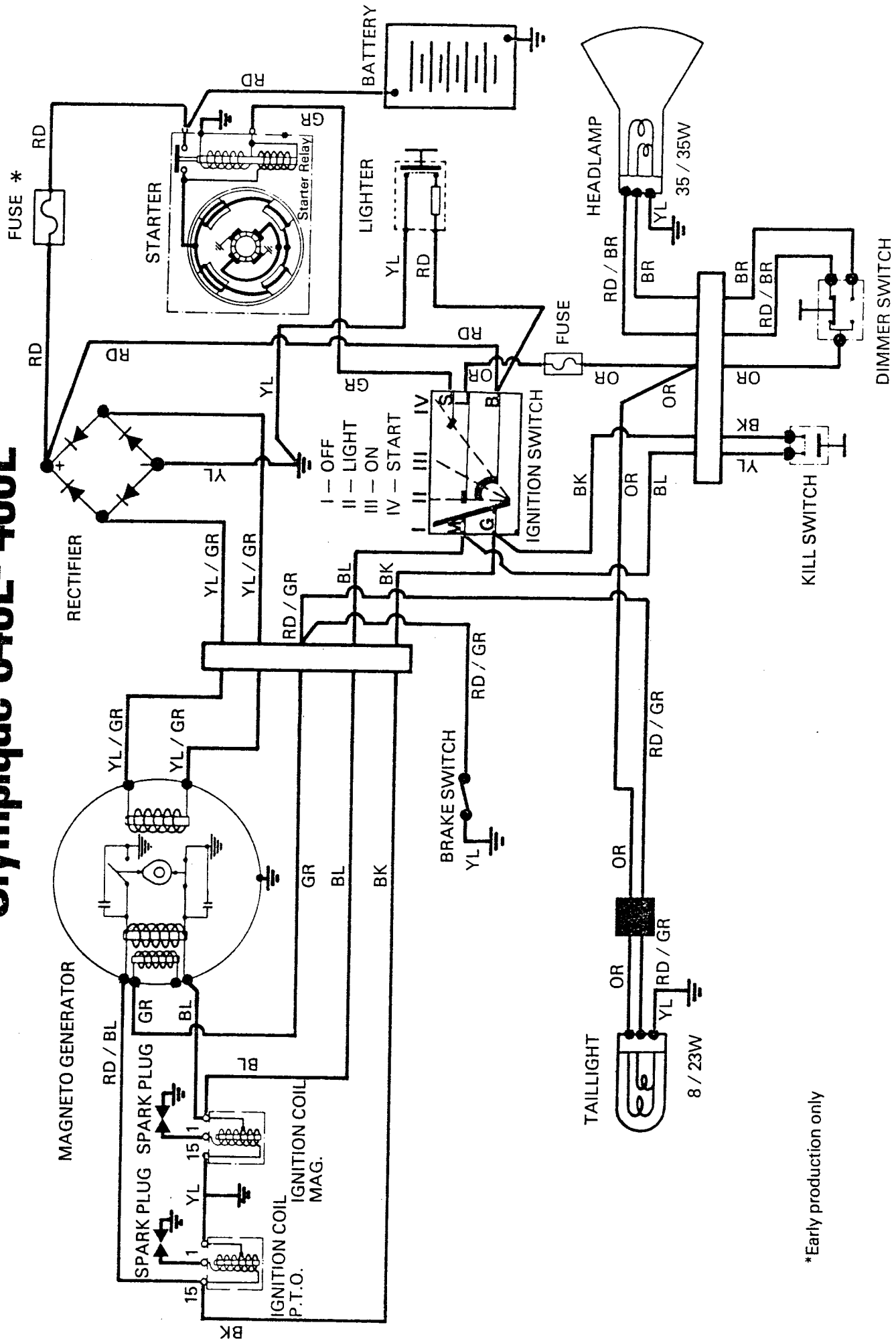
* EARLY PRODUCTION ONLY

1973 Olympique 340-400-440



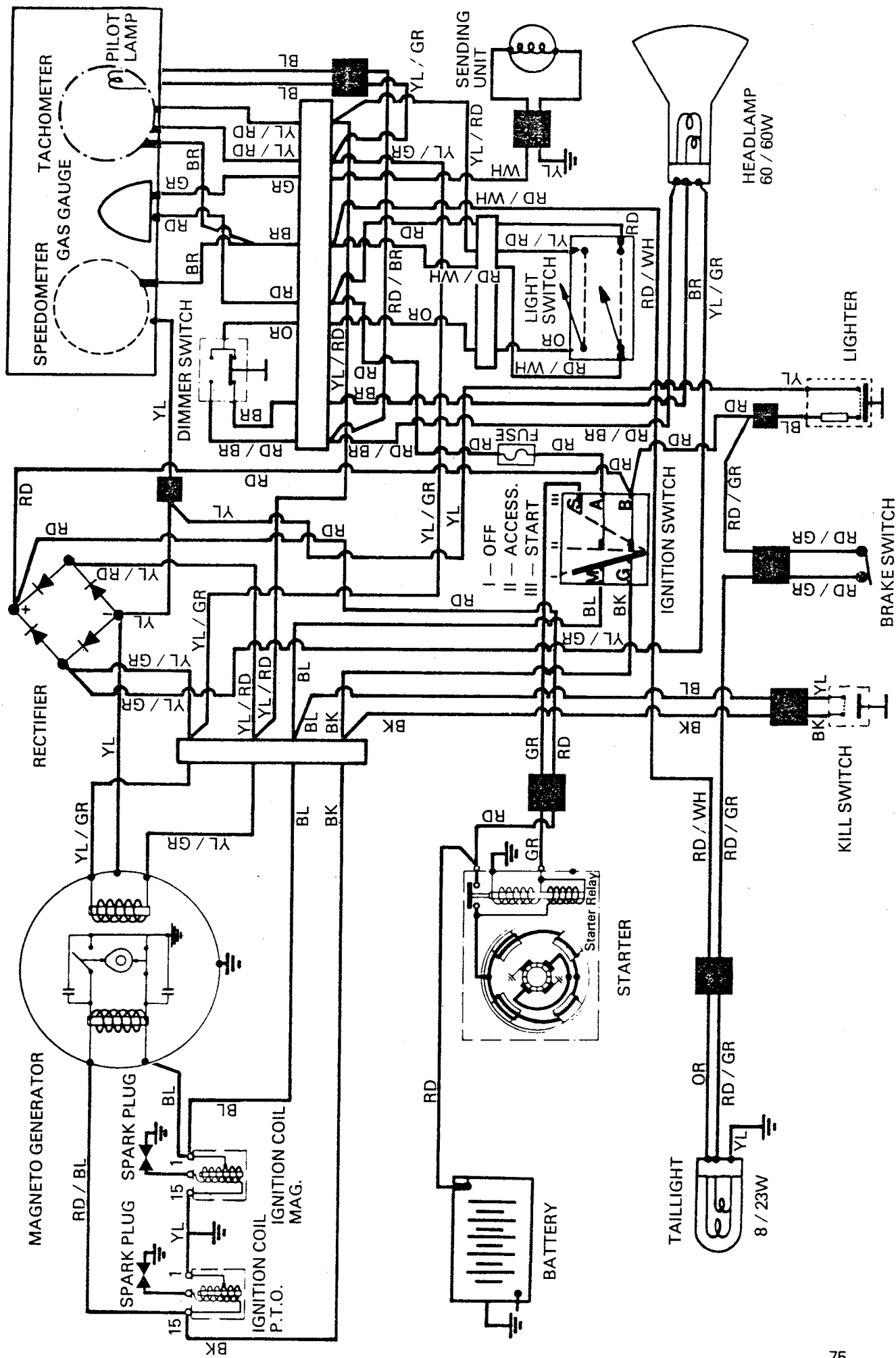
1973

Olympique 340E- 400E

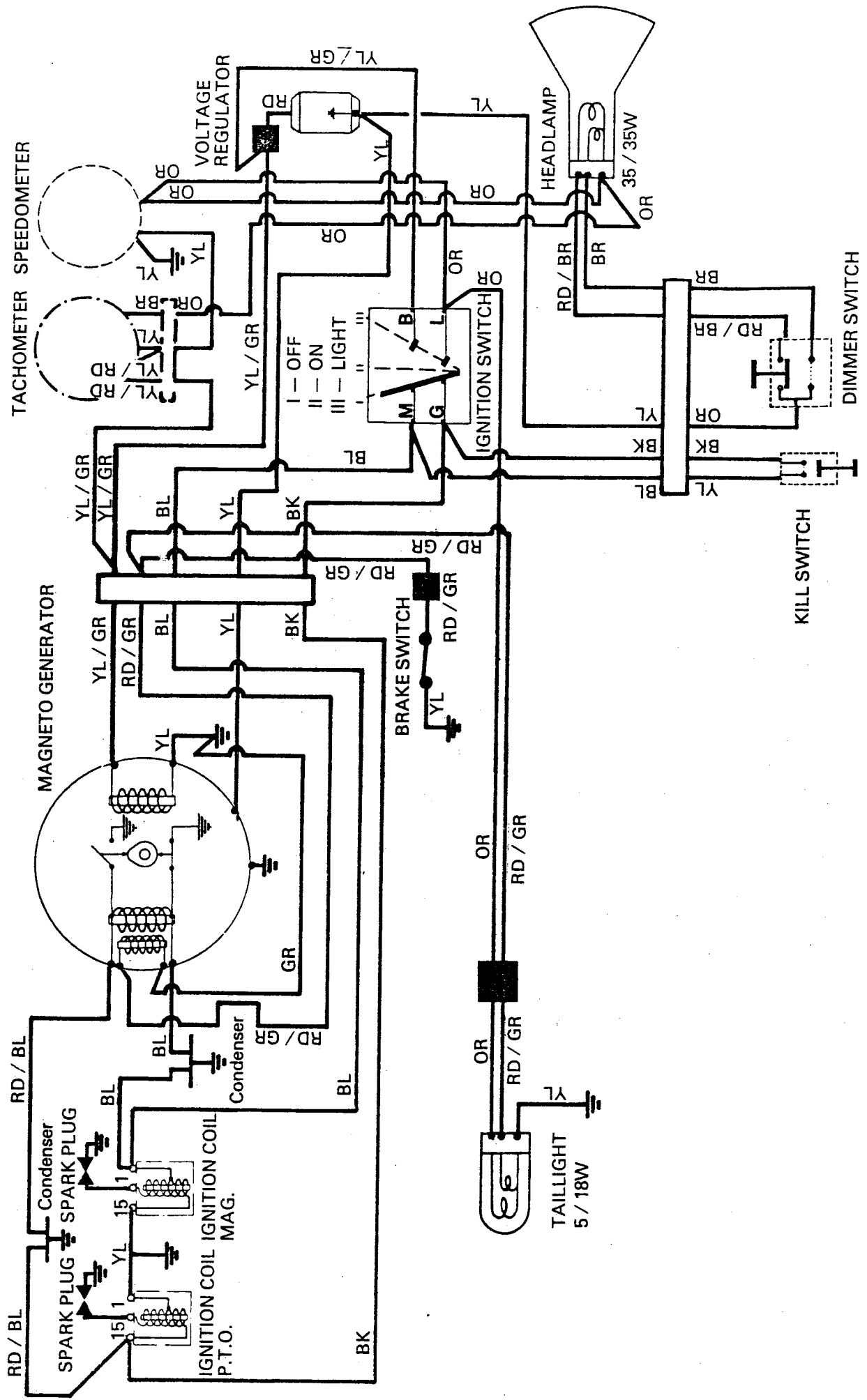


*Early production only

1973 NORDIC 640ER

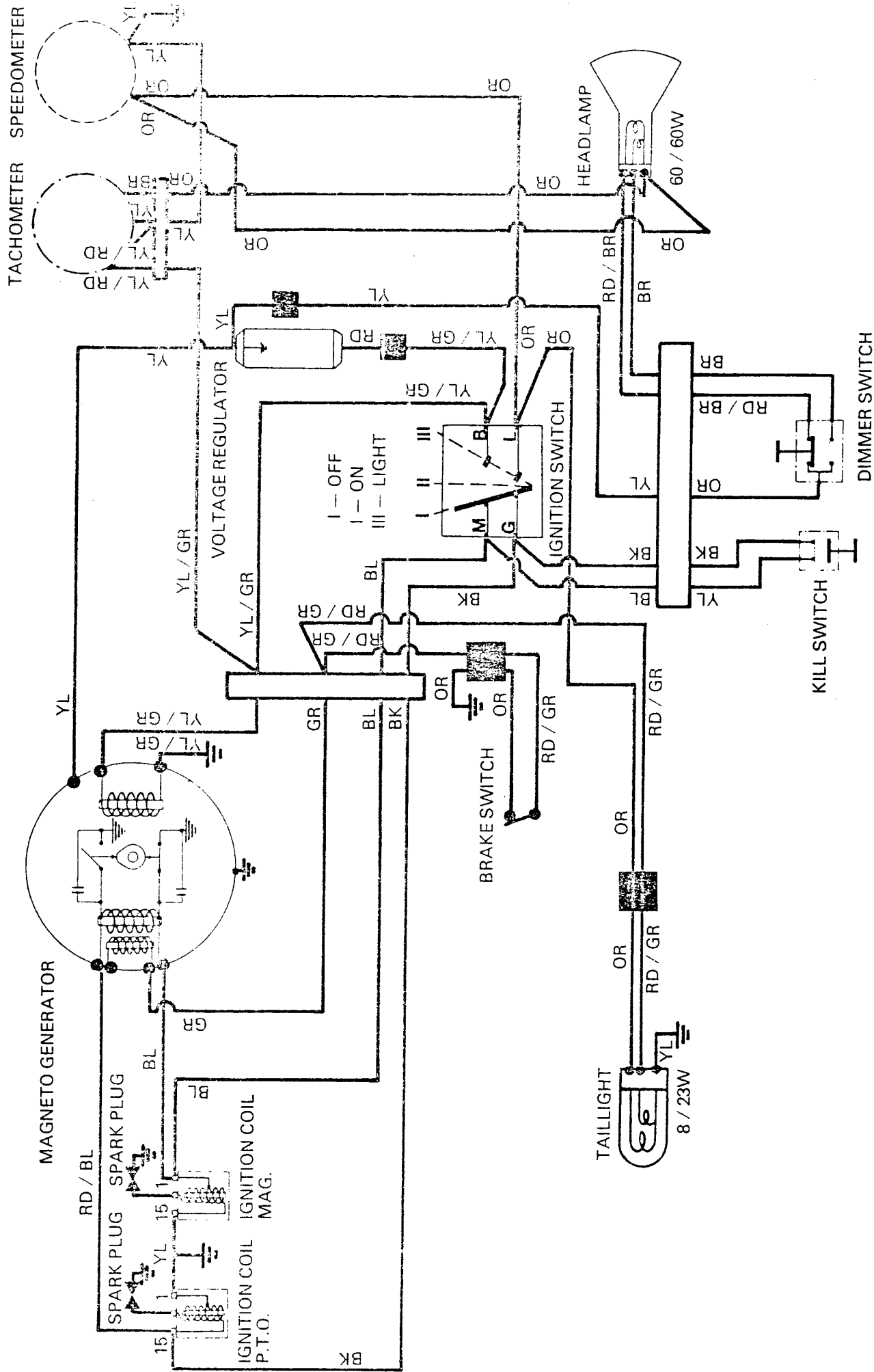


1973 T'NT 294



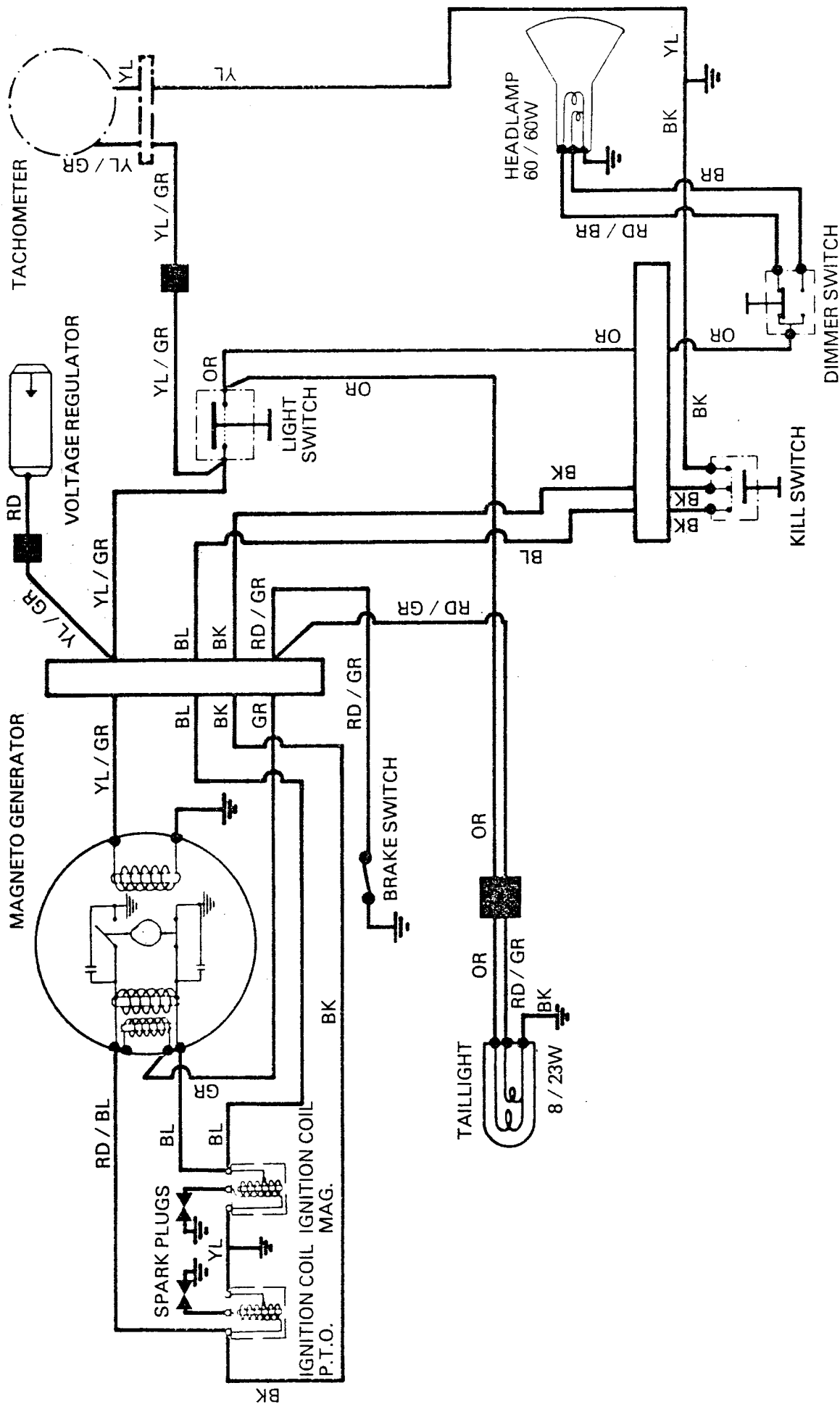
1973

T'NT 340-440

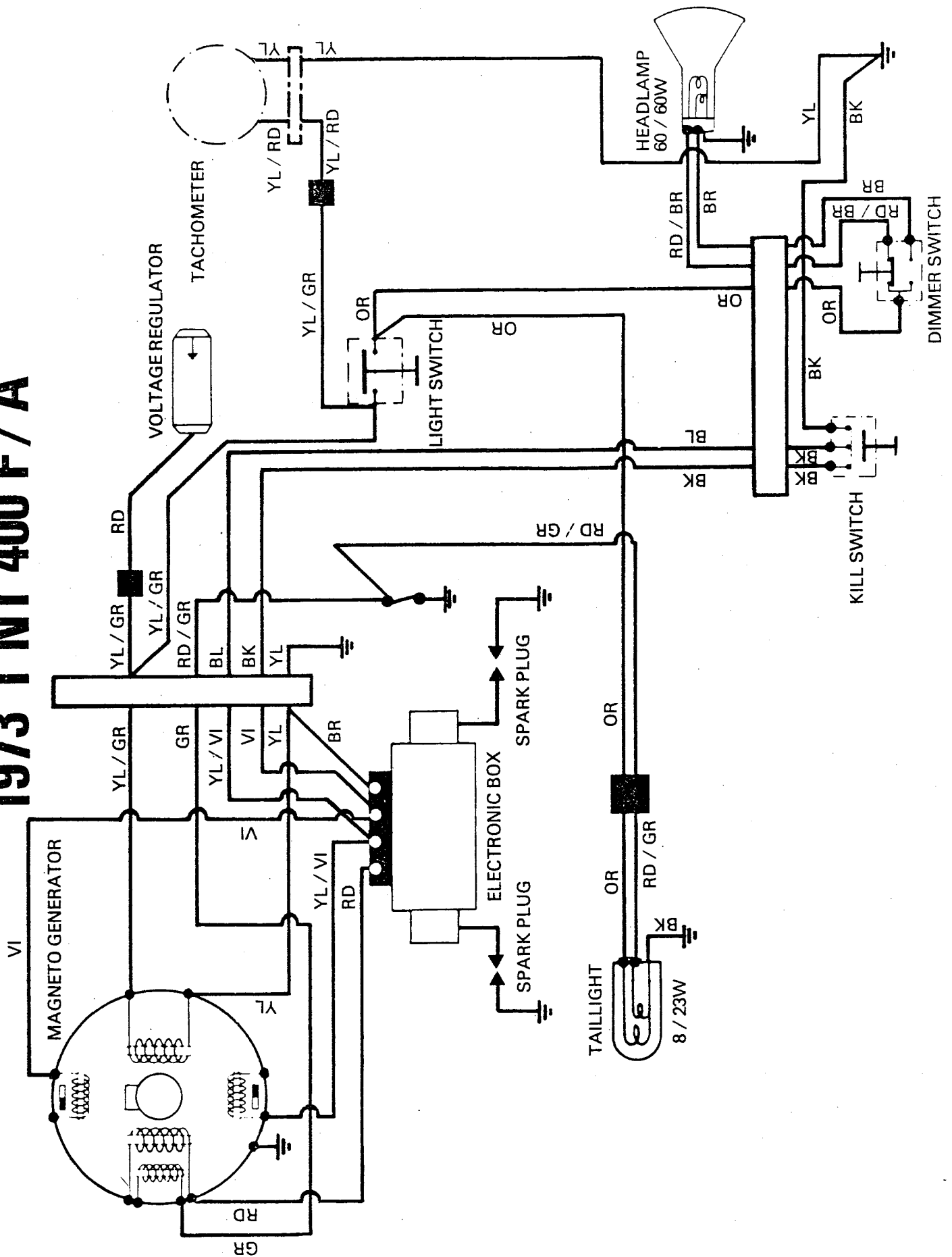


1973

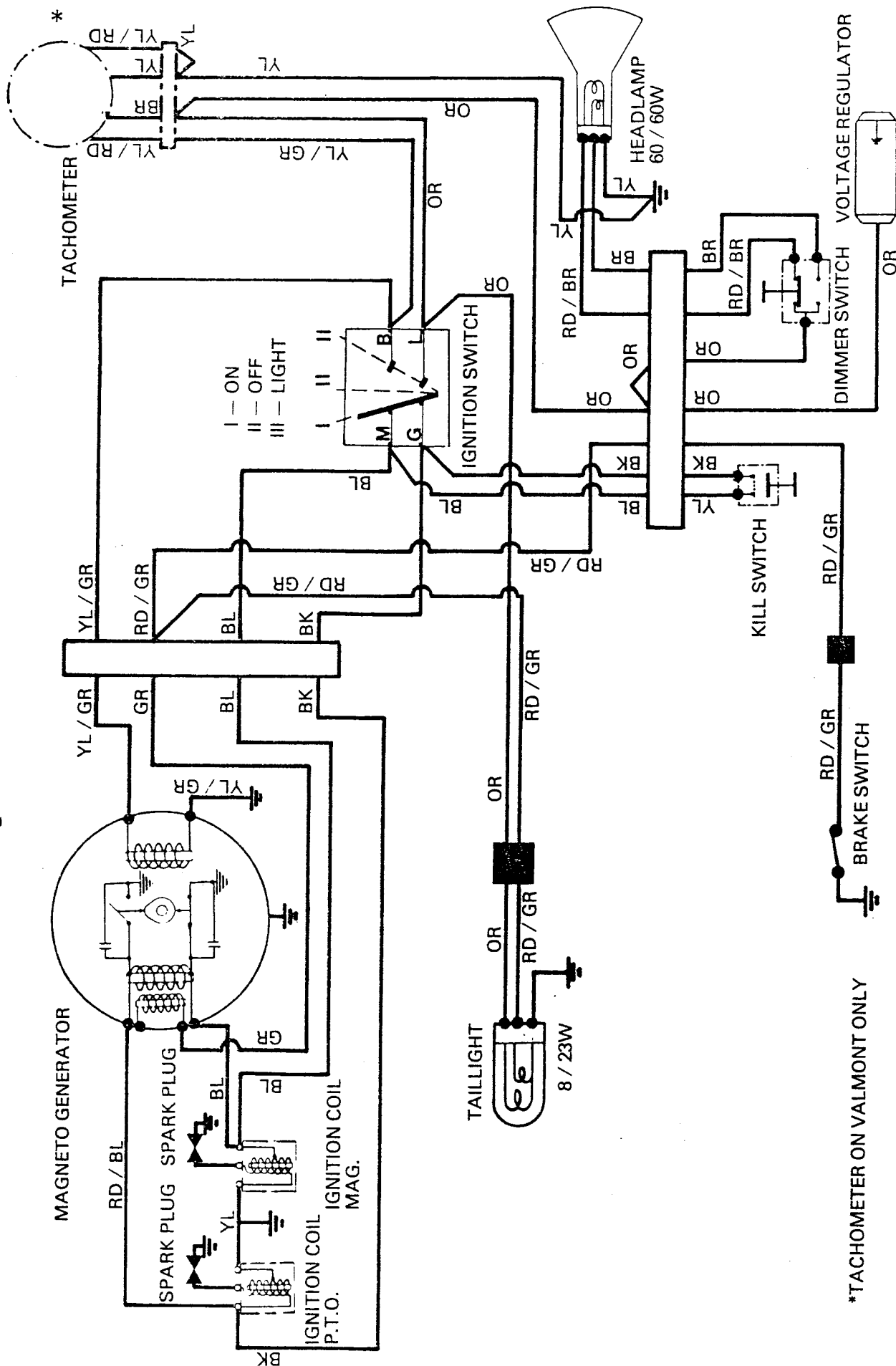
T'NT 340 F / A



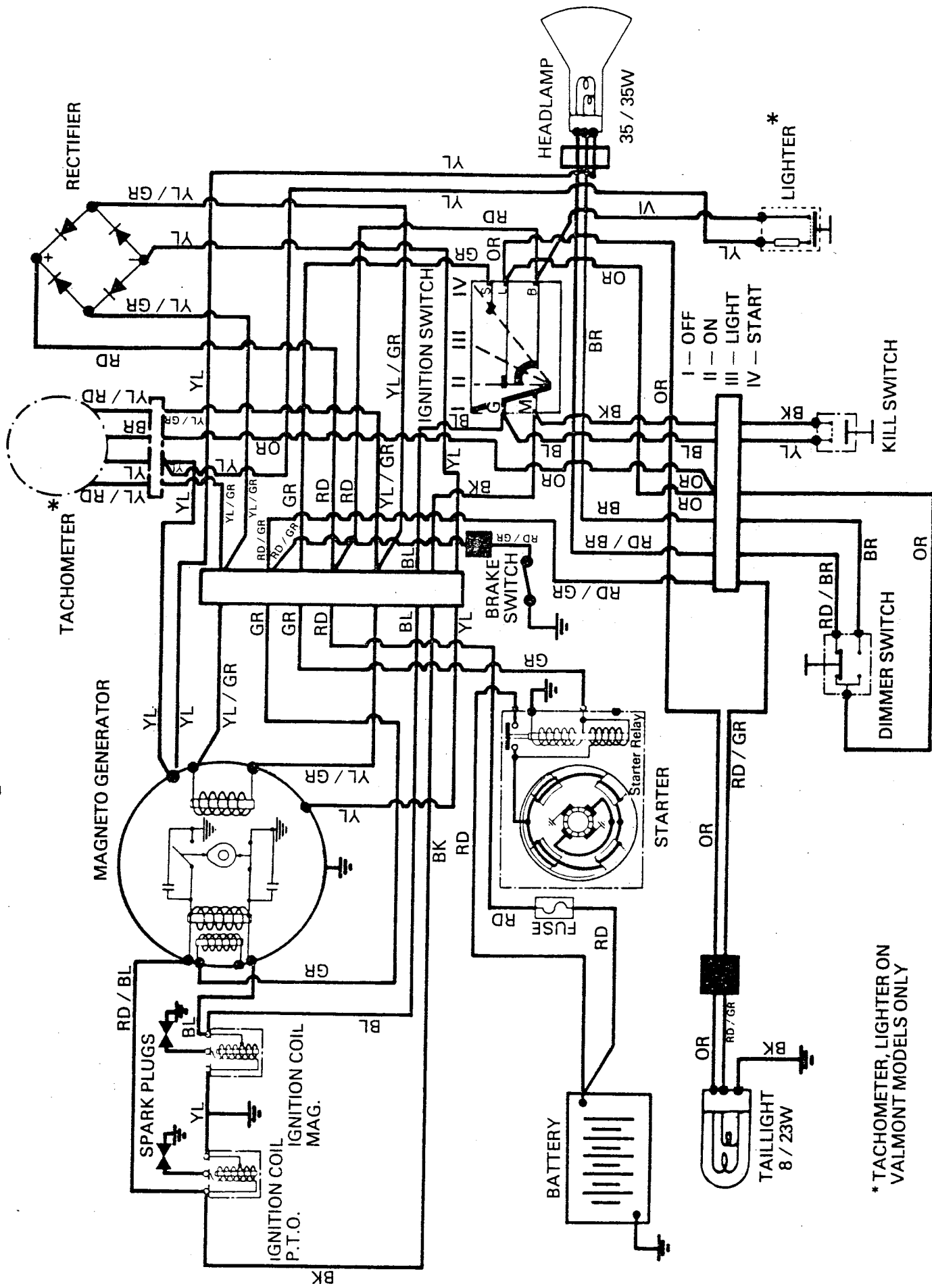
1973 T'NT 400 F/A



1973 Alpine / Valmont 440

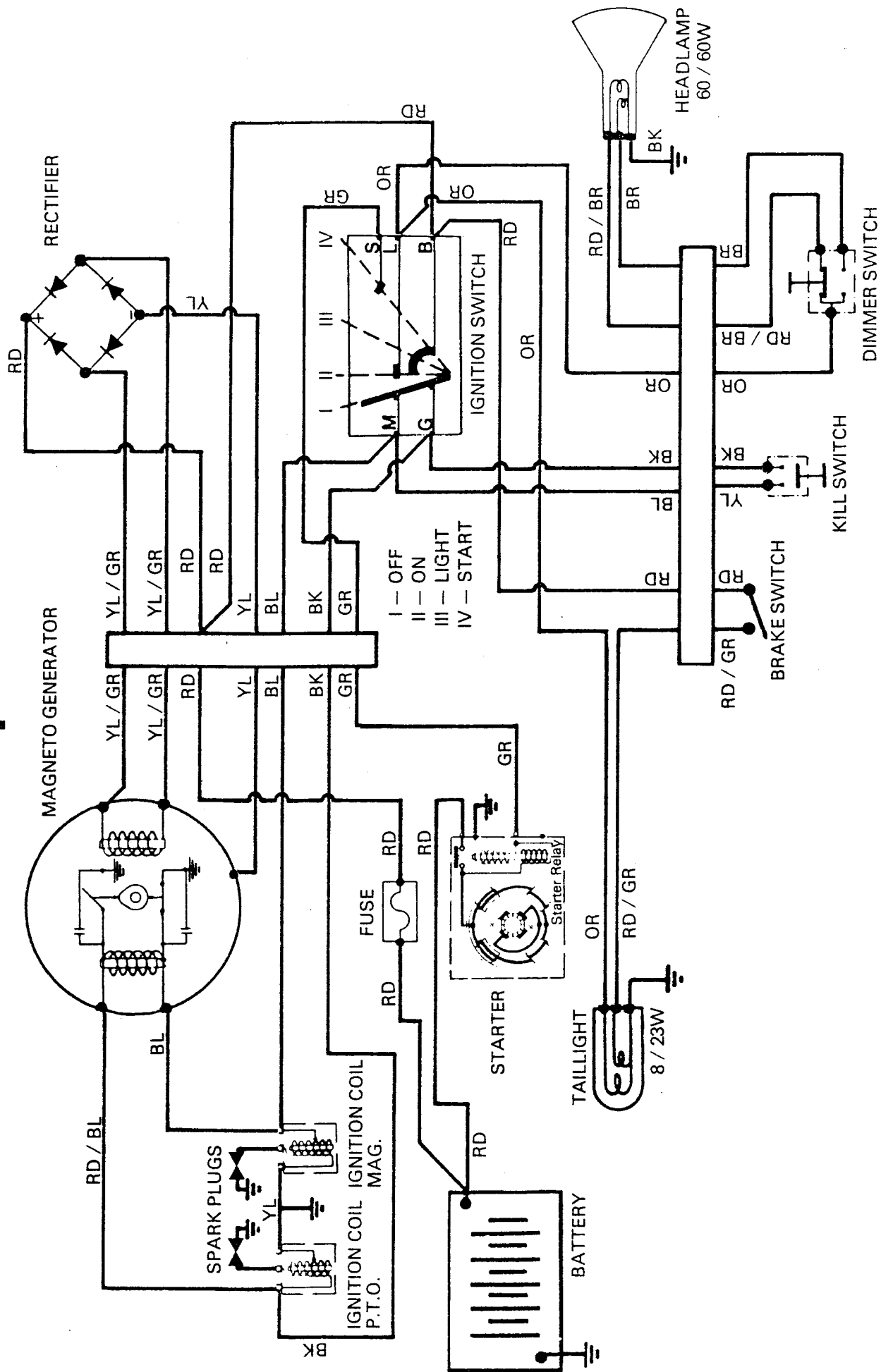


1973 Alpine / Valmont 440ER



* TACHOMETER, LIGHTER ON VALMONT MODELS ONLY

1973 Alpine 640ER



NOTES

