



FLYER INDUSTRIES LIMITED

64 HOKA STREET • BOX 245 TRANSCONA P.O. • WINNIPEG, MANITOBA, CANADA R2C 3T4
PHONE: (204) 224-1251 • TELEX 07-57523

February 2, 1983



Please find enclosed the Technical Specifications and brochure on Flyer Transit Bus Series D901 as requested.

Your interest in our Canadian manufactured transit buses is appreciated.

Should you require additional information, please do not hesitate to contact us at your convenience.

Sincerely,

FLYER INDUSTRIES LTD.

A handwritten signature in blue ink that reads "Aline Moley".

Administrative Assistant
Marketing Department

AM/1c
Encl.

Flyer is continually investing in research and development assessing technical progress and innovations to meet the present and future market demands.

We are a progressive company and are continually striving for excellence in transit bus production.

The 901 series coach, our latest design, is consistent with Flyer's policy of constantly up-grading the product to meet the transportation needs of tomorrow.

Appearance/Visibility

The new front end has been designed to substantially increase driver visibility and enhance the appearance of the large passenger window desired by transit operators.

Structure

The load bearing structure is a composite structural "chassisless" frame made from high tensile steel (SAE S410 GR950D) and is not dependent on exterior side panelling for structural integrity. Full length longitudinals are utilized in the lower frame section with cross members and bulkheads. Integrated into the lower frame are the structural pillars of the side frame, roof bows and longitudinals which complete the structural frame of the coach.

Ongoing structural analysis and testing has resulted in a reduction of coach weight while maintaining the original capacity of the frame. Combined with redistribution of components the weight distribution on the axles has been improved.

The advantage of the structural design enables a Flyer Coach to maintain its full rated capacity in the event of damage to exterior side panels in an accident. Side panels can be replaced without the concern of impairing structural safety of the coach.

Coaches utilizing exterior side panelling as a composite part of the structural integrity are subject to frame distortion in the event of exterior panel damage in an accident.

Capabilities

Flyer production facilities are the finest in Canada and the support staff includes Operations, Engineering and Manufacturing executives with many years experience in the industry.

In the last two years the company has increased its production 300% and forecasts an increase of 100% per year over the next two years.

On the following pages you will find:

- a general specification sheet on the D901 the most current model and,
- general dimensions for the D901 coach.

Detailed specifications for the D901 are available upon request.

Detailed inquiries are welcomed and can be addressed to:

Henry Poirier or Bob Blahnik
64 Hoka Street
Box 245, Transcona P.O.
Winnipeg, Manitoba
R2C 3T4

www.barp.ca

MODEL 901 GENERAL SPECIFICATIONS

FRAME: Fully integrated structure.

ENGINE:

D.D.A. 6V-71N

Injector sizes available as follows:

50 mm	develops 172 B.H.P.	@ 2100 r.p.m.
	Peak Torque = 562 lb. ft.	@ 1000 r.p.m.
55 mm	develops 185 B.H.P.	@ 2100 r.p.m.
	Peak Torque = 574 lb. ft.	@ 1000 r.p.m.
60 mm	develops 200 B.H.P.	@ 2100 r.p.m.
	Peak Torque = 583 lb. ft.	@ 1000 r.p.m.

D.D.A. 6V-92TA

Injector sizes available as follows:

65 mm	develops 253 B.H.P.	@ 2100 r.p.m.
	Peak Torque = 766 lb. ft.	@ 1200 r.p.m.
70 mm	develops 277 B.H.P.	@ 2100 r.p.m.
	Peak Torque = 816 lb. ft.	@ 1300 r.p.m.
75 mm	develops 294 B.H.P.	@ 2100 r.p.m.
	Peak Torque = 873 lb. ft.	@ 1200 r.p.m.

AXLE: Rockwell Standard

RATIO's

4 5/8 (4.625)	top speed	=	67 m.p.h. (109 Km/hr)
5 1/8 (5.125)	top speed	=	57 m.p.h. (93 Km/hr)
5 3/8 (5.375)	top speed	=	54 m.p.h. (88 Km/hr)

VEHICLE WEIGHT:

23,000 lbs. (includes fuel and driver).

FUEL CONSUMPTION:

6V71N engine = as per attached Basic Engine Performance sheet.
6V92TA engine = as per attached Basic Engine Performance sheet.

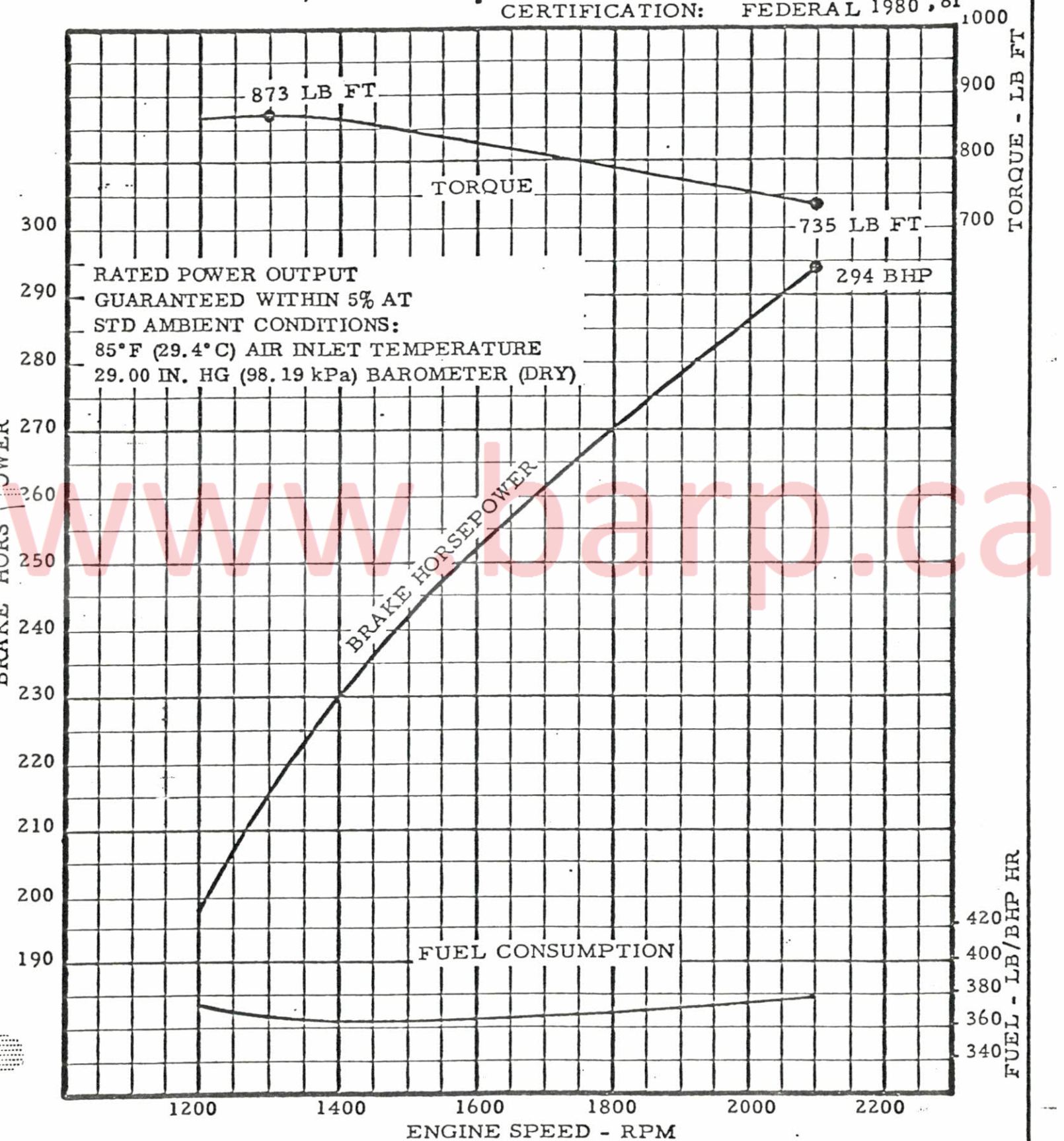
SUSPENSION:

Air Ride.



Detroit Diesel Allison
Division of General Motors Corporation

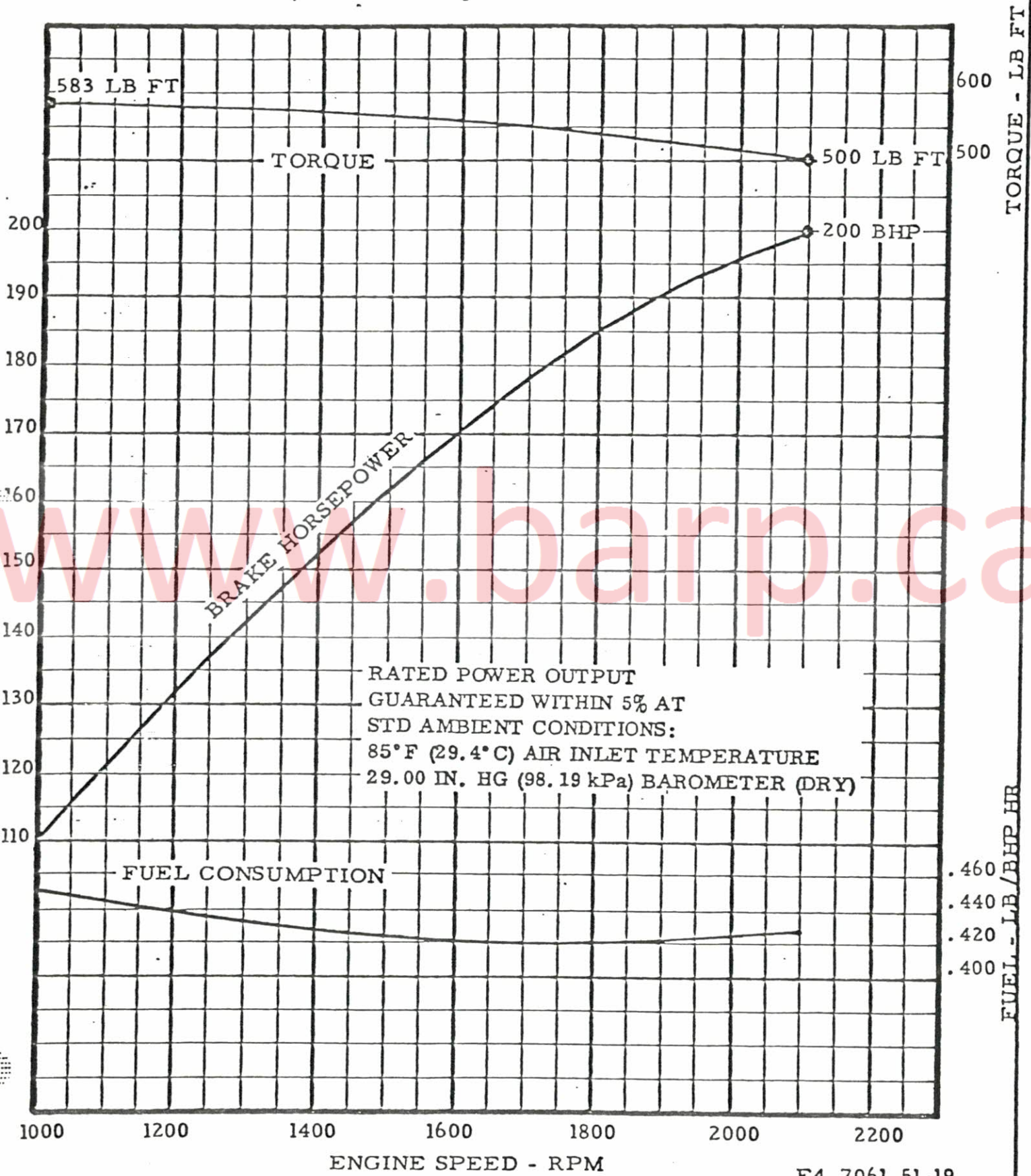
MODEL: 6V-92TA COACH
APPLICATION: AUTOMOTIVE
INJECTOR: 7G75 (1.470 TIMING)
TURBOCHARGER: TV7101 (1.39 A/R)
FUEL: NO. 2 DIESEL
CERTIFICATION: FEDERAL 1980, 81





Detroit Diesel Allison
Division of General Motors Corporation

MODEL: 6V-71N (2V)
APPLICATION: COACH
INJECTOR: 7E60 (1.500 TIMING)
FUEL: NO. 2 DIESEL
CERTIFICATION: FEDERAL 1979, 80, 81



STEERING:

Manual - Ross Gear.
Power - Shepperd Hydraulic Assist.

Lock to Lock = 8.5 turns.

SEATING:

American Seating.
Otaco Seating.

SEATING CAPACITY:

40 Ft. Bus = 51 passengers.
35 Ft. Bus = 43 passengers.

MAJOR OPTIONS:

Wheelchair lifts.
Air Conditioning.
Kneeling System.
Double entrance and exit doors.

www.barp.ca

GENERAL DIMENSIONS

		MODEL 901		
		D10235	D10240	E10240
LENGTH	- Over Bumpers	35 Ft.	40 Ft.	40 Ft. 8 In.
	- Over Body	34 Ft. 8 In.	39 Ft. 8 In.	39 Ft. 8 In.
	- Rear Seat to Dash	360.0 In.	431.0 In.	431.0 In.
WIDTH	- Over Body - Outside	101.9 In.	101.9 In.	101.9 In.
	- Over Body - Inside	98.0 In.	98.0 In.	98.0 In.
	- Aisle	25.0 In.	25.0 In.	25.0 In.
	- Entrance Door	38.0 In.	38.0 In.	38.0 In.
	- Exit Door	26.5 In.	26.5 In.	26.5 In.
	- Double Entrance & Exit	53.0 In.	53.0 In.	53.0 In.
HEIGHT	- Front at Axle	118.8 In.	118.8 In.	118.8 In.
	- Rear at Axle	119.8 In.	119.8 In.	119.8 In.
	- Maximum	120.5 In.	120.5 In.	132.5 In.
	- Maximum (with A/C)	126.0 In.	126.0 In.	132.5 In.
	- Front Step from Ground	13.5 In.	13.5 In.	13.5 In.
	- Rear Step from Ground	14.0 In.	14.0 In.	14.0 In.
	- Second and Third Step	10.7 In.	10.7 In.	10.7 In.
	- Floor from Ground	34.9 In.	34.9 In.	34.9 In.
	- Front Bumper from Ground	21.0 In.	21.0 In.	21.0 In.
	- Rear Bumper from Ground	21.6 In.	21.6 In.	21.6 In.
HEADROOM	- Front	81.5 In.	81.5 In.	81.5 In.
	- Rear	79.2 In.	79.2 In.	79.2 In.
	- Entrance Door	81.5 In.	81.5 In.	81.5 In.
	- Exit Door	79.2 In.	79.2 In.	79.2 In.
OVERHANG	- Front	83.4 In.	83.4 In.	83.4 In.
	- Rear	111.9 In.	111.9 In.	117.2 In.
TRACK	- Front Axle	85.2 In.	85.2 In.	85.2 In.
	- Rear Axle	76.5 In.	76.5 In.	76.5 In.
APPROACH ANGLE		10°	10°	10°
DEPARTURE ANGLE		9°	9°	9°
BRAKING ANGLE		10°	10°	10°
WHEELBASE		224.75 In.	284.75 In.	284.75 In.
TURNING RADIUS (OVER BODY)		439.0 In.	504.0 In.	504.0 In.
TIRE SIZE		22.0x12.5 In.	22.0x12.5 In.	22.0x12.5 In.
FUEL TANK CAPACITY - IMP. GAL.		116 Gal.	116 Gal.	N/A
	- U.S. GAL.	138 Gal.	138 Gal.	N/A
ELECTRICAL SYSTEM & A/C		12VDC	12VDC	12VDC
TROLLEY OVERHEAD POWER		N/A	N/A	600VDC

FLYER INDUSTRIES LIMITED

Flyer ranks among North America's foremost builders of Diesel and Electric Transit Buses. Flyer Industries has been manufacturing buses for 50 years, commencing with Troop Transport buses and School buses. Flyer, with its Manufacturing plants located in Winnipeg, Manitoba, Canada employs in excess of 500 employees.

Product range includes Transit buses of 10240, 10235 "New Look" Diesel buses and 10240 "New Look" Trolley buses. Buses have been produced for customers such as:

<u>DIESEL BUSES</u>		<u>TROLLEY BUSES</u>	
Regina, Sask.	11	Toronto, Ont.	151
Hamilton, Ont.	30	Hamilton, Ont.	56
Toronto, Ont.	225	Edmonton, Alta.	37
Mississauga, Ont.	57	Vancouver, B.C.	250
Kitchener, Ont.	32	San Francisco, CA.	343
Winnipeg, Man.	463	Dayton, Ohio	65
Calgary, Alta.	74	Boston, Mass.	50
Vancouver, B.C.	145		<u>952</u>
Edmonton, Alta.	29		
Saskatoon, Sask.	29		
Brandon, Man.	8		
Seattle, WA.	259		
San Mateo, CA.	113		
Oakland, CA.	190		
Snohomish, WA.	54		
Syracuse, N.Y.	25		
Anchorage, Alaska	38		
Hauppauge, N.Y.	25		
Ottawa, Ont.	18		
Montreal, P.Q.	10		
Torrance, CA.	17		
New Bedford, Mass.	8		
Volusia, Florida	5		
Boston, Mass.	168		
	<u>2033</u>		

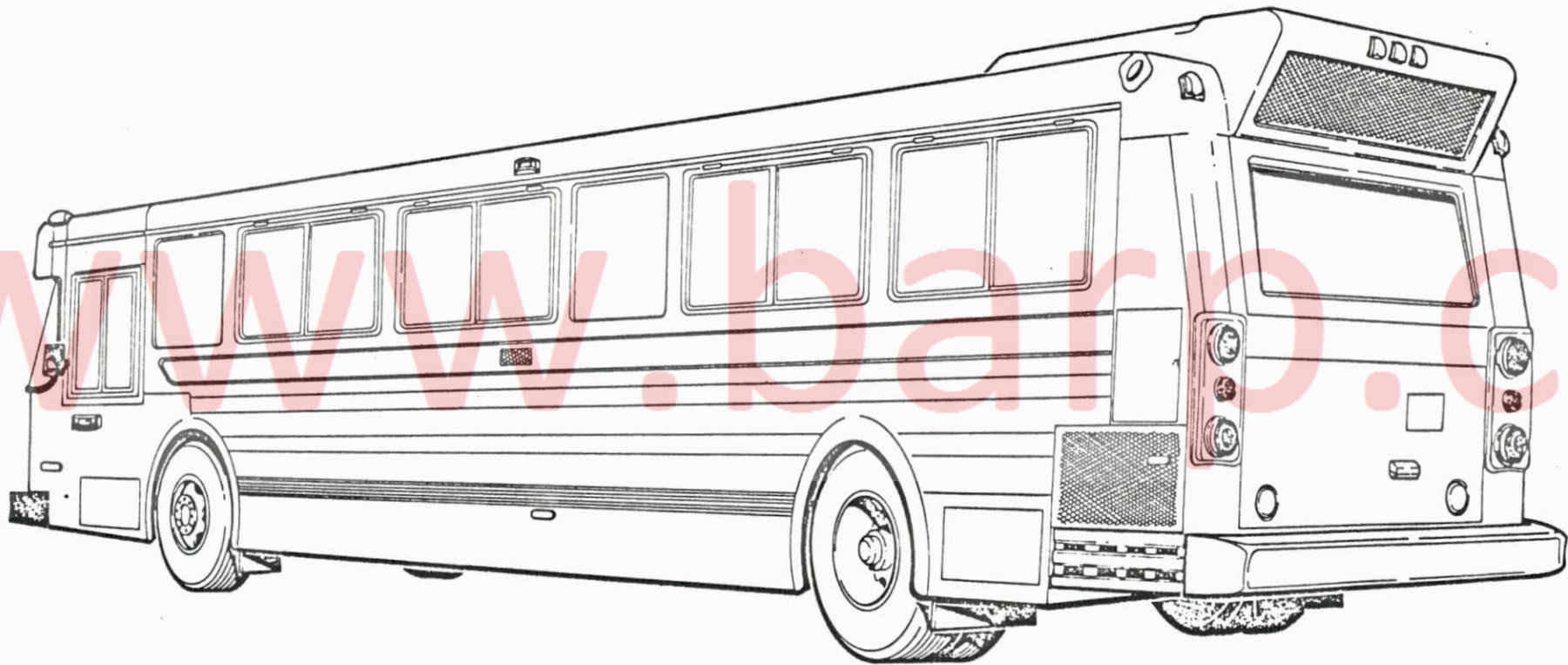
Of no less importance is Flyer's range of services from Engineering, Consulting, Maintenance Training and After Sales Service.

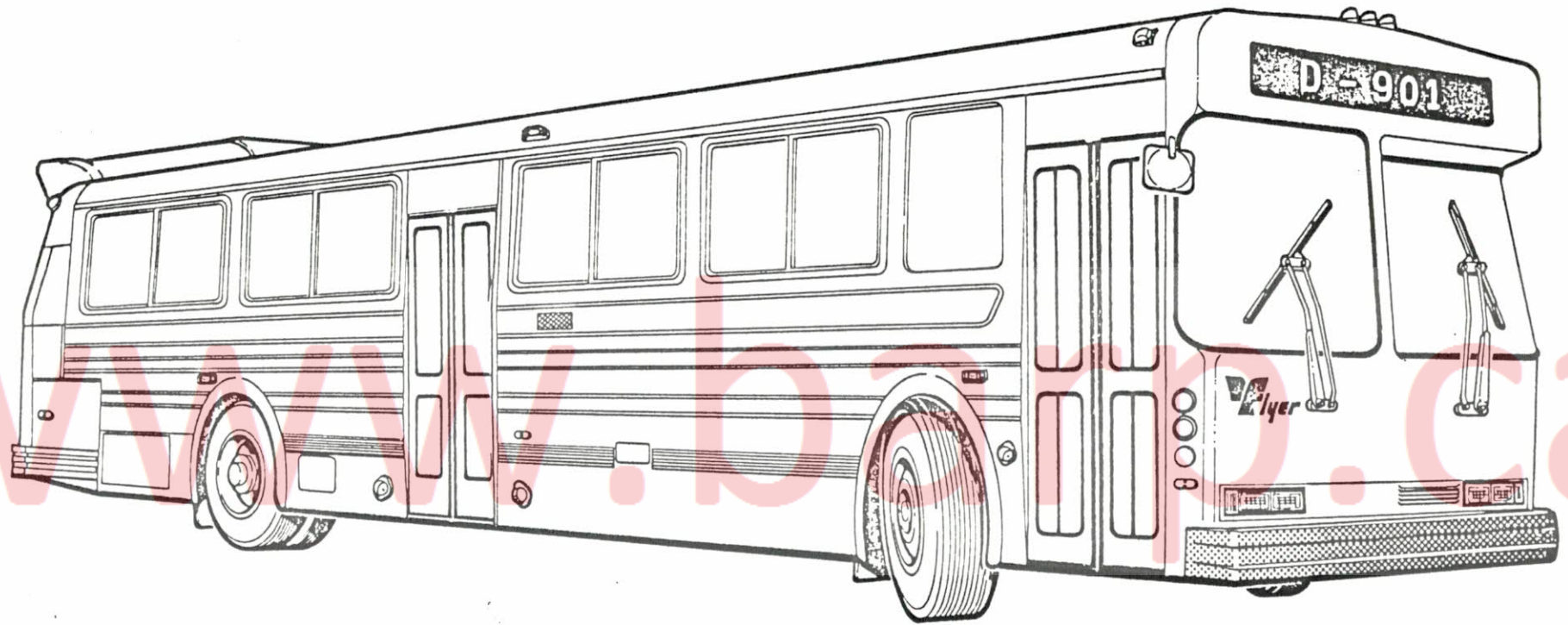
The Service Department and Spare Parts Division are located in Winnipeg. A complete Service staff is available at 24 hours notice on an emergency basis to aid our customers with any Service problems. From past history, we have been capable of supplying most emergency spare part needs on a 24 hour basis.

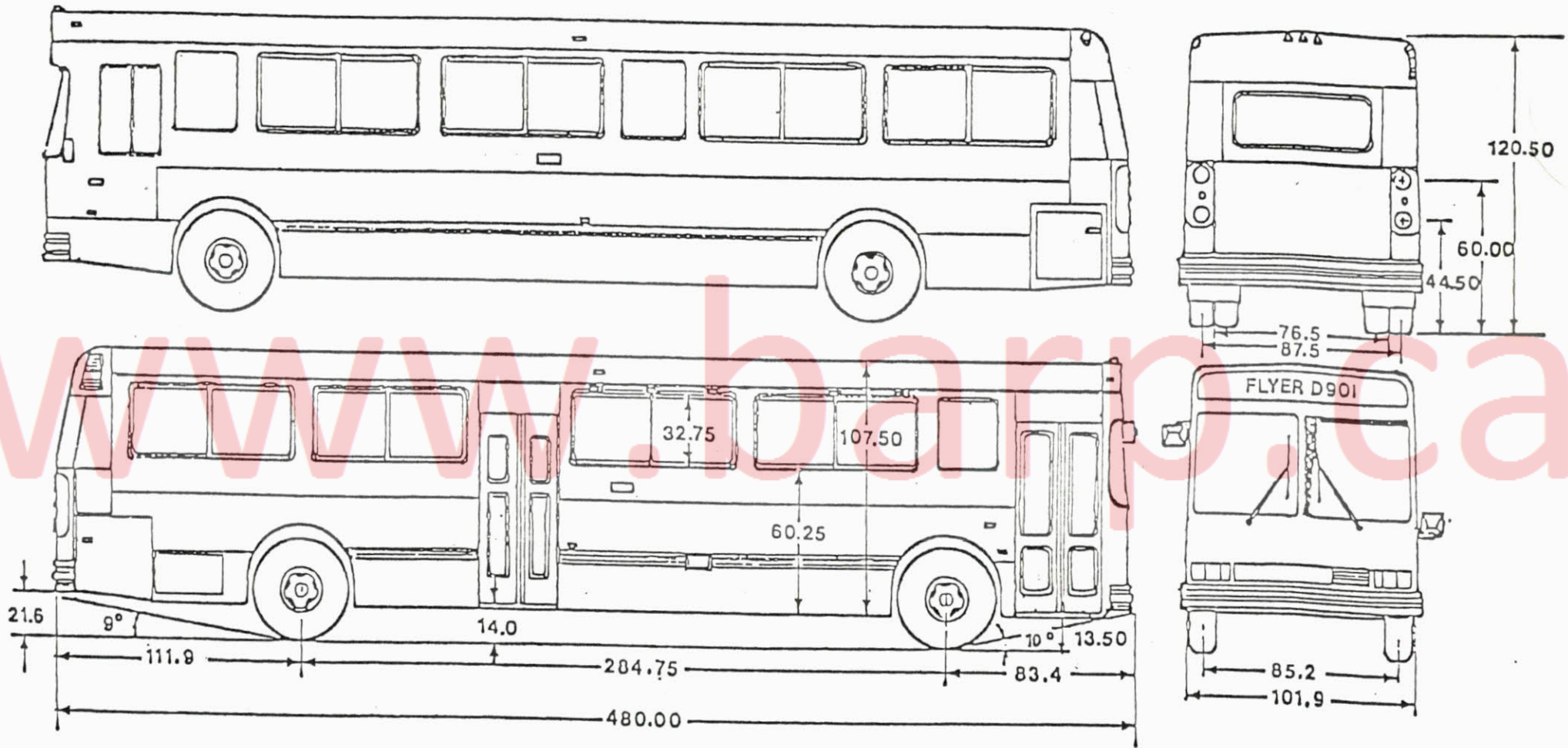
GENERAL DIMENSIONS

METRIC

		MODEL 901		
		D10235	D10240	E10240
LENGTH	- Over Bumpers	10,668 mm	12,192 mm	12,421 mm
	- Over Body	10,566 mm	12,090 mm	12,090 mm
	- Rear Seat to Dash	9,144 mm	10,947 mm	10,947 mm
WIDTH	- Over Body - Outside	2,588 mm	2,588 mm	2,588 mm
	- Over Body - Inside	2,489 mm	2,489 mm	2,489 mm
	- Aisle	635 mm	635 mm	635 mm
	- Entrance Door	965 mm	965 mm	965 mm
	- Exit Door	673 mm	673 mm	673 mm
	- Double Entrance & Exit	1,346 mm	1,346 mm	1,346 mm
HEIGHT	- Front at Axle	3,017 mm	3,017 mm	3,017 mm
	- Rear at Axle	3,042 mm	3,042 mm	3,042 mm
	- Maximum	3,060 mm	3,060 mm	3,365 mm
	- Maximum (with A/C)	3,200 mm	3,200 mm	3,365 mm
	- Front Step from Ground	342 mm	342 mm	342 mm
	- Rear Step from Ground	355 mm	355 mm	355 mm
	- Second and Third Step	272 mm	272 mm	272 mm
	- Floor from Ground	886 mm	886 mm	886 mm
	- Front Bumper from Ground	533 mm	533 mm	533 mm
- Rear Bumper from Ground	548 mm	548 mm	548 mm	
HEADROOM	- Front	2,070 mm	2,070 mm	2,070 mm
	- Rear	2,011 mm	2,011 mm	2,011 mm
	- Entrance Door	2,032 mm	2,032 mm	2,032 mm
	- Exit Door	1,993 mm	1,993 mm	1,993 mm
OVERHANG	- Front	2,423 mm	2,423 mm	2,423 mm
	- Rear	2,842 mm	2,842 mm	2,978 mm
TRACK	- Front Axle	2,118 mm	2,118 mm	2,118 mm
	- Rear Axle	1,943 mm	1,943 mm	1,943 mm
APPROACH ANGLE		10°	10°	10°
DEPARTURE ANGLE		9°	9°	9°
BREAKOVER ANGLE		10°	10°	10°
WHEELBASE		5,708 mm	7,232 mm	7,232 mm
TURNING RADIUS (OVER BODY)		11,150 mm	12,801 mm	12,801 mm
TIRE SIZE		559mm x 317.5mm	559mm x 317.5mm	559mm x 317.5mm
FUEL TANK CAPACITY		522 L	522 L	N/A
ELECTRICAL SYSTEM & A/C		12VDC	12VDC	12VDC
TROLLEY OVERHEAD POWER		N/A	N/A	600VDC







EXTERIOR GENERAL ARRANGEMENT
 FLYER D901 MODEL 10240

