

# **FIAT SERVICE LETTER**

SUBJECT: TUNEUP SPECIFICATIONS

VEHICLES: ALL MODELS

GENERAL INFORMATION:

Attached are the tuneup specifications for the model years 1970 through 1976.

All service personnel should use these specifications while performing the maintenance service on the various models.

READ, INITIAL AND PASS ON

Service Manager	Parts Manager	Service Writer	Technician			

1970 MODELS TUNE-UP SPECIFICATIONS

OPERATION	850 SEDAN	850 SPORT COUPE, SPIDER, RACER	124 SPECIAL SEDAN, STATION WAGON	124 SPORT COUPE, SPIDER
Valve Clearance (With Engine Cold)	.006"	Intake .006" Exhaust .008"	.008"	Intake .018" Exhaust .020"
Static Advance	10° BTDC	0° TDC	0° TDC	5° BTDC
Centrifugal Advance	28° ± 2°	38° ± 2°	30° ± 2°	29° ± 2°
Distr. Points Gap	.017" to .019"	.015" to .017"	.017" to .019"	.017" to .019"
Dwell Angle	60° ± 3 at 850 RPM	60° ± 3 at 850 RPM	60° ± 3 at 850 RPM	60° ± 3 at 850 RPM
Type of Spk. Plugs	Champion N9Y	Champion N6Y	Champion N9Y	Champion N6Y
Spark Plug Gap	.020" to .024"	.020" to .024"	.020" to .024"	.020" to .024"
Exhaust Emission Normal Idle	850 RPM	850 RPM	850 RPM	850 RPM
Fast Idle	1600 ± 50 RPM	1600 ± 50 RPM	1600 ± 50 RPM	1600 ± 50 RPM
Cylinder Head Torque Setting (W/Eng. Cold)	36 Ft. lbs.	36 Ft. lbs.	56 Ft. lbs.	56 Ft. lbs.
Rocker Arm Nuts Torque Setting (Cam Housing for 124 Sport)	29 Ft. lbs.	29 Ft. lbs.	29 Ft. lbs.	16 Ft. lbs.

1971 MODELS TUNE-UP SPECIFICATIONS

OPERATION	850 SEDAN	850 SPORT COUPE, SPIDER, RACER	124 SPECIAL SEDAN, STATION WGN.	124 SPORT COUPE, SPIDER
Engine Type	100G3.002	100GBC/100GBS/ 100GBR.040	124B2.040	125 BC.040
SAE HP	42 at 5300 RPM	58 at 6500 RPM	76 at 5400 RPM	104 at 6000 RPM
Valve Clearance (With Engine Cold)	.006"	Intake .006" Exhaust .008"	.008"	Intake .018" Exhaust .020"
Static Advance	10° BTDC	0°	0°	5° BTDC
Centrifugal Advance	28° ± 2°	38° ± 2°	30° ± 2°	31° ± 15°
Distr. Points Gap.	.017" to .019"	.015" to .017"	.017" to .019"	.015" to .017"
Dwell Angle	60° ± 3° at 700 RPM	55° ± 3° at 850 RPM	60° ± 3° at 850 RPM	55° ± 3° at 850 RPM
Type of Spark Plugs	Champion N9Y	Champion N7Y	Champion N9Y	Champion N6Y
Spark Plug Gap	.020" to .024"	.020" to .024"	.020" to .024"	.020" to .024"
Exhaust Emission Normal Idle	700 RPM -----	850 ± 50 RPM 1600 ± 50 RPM	850 ± 50 RPM 1600 ± 50 RPM	850 ± 50 RPM 1600 ± 50 RPM
Fast Idle	-----	-----	-----	-----
% CO Setting	4.5 ± .5%	2 ± .5%	3 ± .5%	2 ± .5%
Cylinder Head Torq. Setting(W/Eng.Cold)	36 ft. lbs.	36 ft. lbs.	56 ft. lbs.	56 ft. lbs.
Rocker Arm Nuts Torque Setting (Cam Housing for 124 Sport)	29 ft. lbs.	29 ft. lbs.	29 ft. lbs.	16 ft. lbs.

124 SPECIAL SEDAN AND STATION WAGON WITH AUTOMATIC TRANSMISSION:

Normal Idle -- 750 ± 50 RPM (Lever in drive, handbrake applied)  
 Fast Idle -- 1600 ± 50 RPM (Lever in neutral)

1972 MODELS TUNE-UP SPECIFICATIONS

OPERATION	850 SPORT SPIDER	128 2-4 DOOR AND S. W.	124 SPECIAL SEDAN & S. W.	124 SPORT COUPE AND SPIDER
ENGINE TYPE	100GBS 040	128A 040	124B2 040	125BC 040
VALVE CLEARANCE (WITH ENGINE COLD)	INTAKE: .006" EXHAUST: .008"	INTAKE: .012" EXHAUST: .016"	.008"	INTAKE: .018" EXHAUST: .020"
IGNITION TIMING (BASIC)	0°	0°	0°	0°
CENTRIFUGAL ADVANCE	38° ± 2°	38° ± 2°	30° ± 2°	31° ± 1.5°
DISTRIBUTOR POINTS GAP	.015" - .017"	.015" - .017"	.017" - .019"	.015" - .017"
DWELL ANGLE	55° @ 850 rpm	55° @ 850 rpm	60° @ 850 rpm	55° @ 850 rpm
TYPE OF SPARK PLUG	CHAMPION N7Y OR AC DELCO 41-2XLS	CHAMPION N9Y OR AC DELCO 42 XLS	CHAMPION N9Y OR AC DELCO 42 XLS	CHAMPION N6Y OR AC DELCO 41-2XLS
SPARK PLUG GAP	.020" - .024"	.020" - .024"	.020" - .024"	.020" - .024"
NORMAL IDLE	850 ± 50 rpm	850 ± 50 rpm	850 ± 50 rpm	850 ± 50 rpm
% CO SETTING	2 ± .5%	2 ± .5%	3 ± .5%	2 ± .5%
FAST IDLE	1600 ± 50 rpm	1600 ± 50 rpm	1600 ± 50 rpm	1600 ± 50 rpm
CYLINDER HEAD TORQUE (ENGINE COLD)	36 FT. LBS.	69 FT. LBS.	56 FT. LBS.	56 FT. LBS.
ROCKER ARM NUTS TORQUE SETTING (CAM HOUSING FOR 128 & 124 SPORTS)	29 FT. LBS.	14 FT. LBS.	29 FT. LBS.	16 FT. LBS.

\* 124 Special Sedan & Station Wagon with Automatic Trans.: Normal Idle: 700-750 RPM (Lever in Drive, Brake Applied), Fast Idle: 1300 ± 50 (Lever in Neutral)



1973 MODELS TUNE-UP SPECIFICATIONS

OPERATION	850 SPORT SPIDER	128 SED. & S.W. 128 SL COUPE	124 SPECIAL SEDAN & S.W.	124 SPORT COUPE AND SPIDER
ENGINE TYPE	100GBS 040	128A, 040 128A1, 040 (COUPE)	124B2 040	125BC 040
VALVE CLEARANCE (WITH ENGINE COLD)	INTAKE: .006" EXHAUST: .008"	INTAKE: .012" EXHAUST: .016"	.008"	INTAKE: .018" EXHAUST: .020"
IGNITION TIMING (at idle)	0°	0°	0°	0°
CENTRIFUGAL ADVANCE	38° ± 2°	38° ± 2°	30° ± 2°	36° ± 1.5°
DISTRIBUTOR POINTS GAP	.015" - .017"	.015" - .017"	.017" - .019"	.015" - .017"
DWELL ANGLE	55° @ 850 rpm	55° @ 850 rpm	60° @ 850 rpm	55° @ 850 rpm
TYPE OF SPARK PLUG	CHAMPION N7Y or AC DELCO 41-2XLS	CHAMPION N9Y or AC DELCO 42 XLS	CHAMPION N9Y or AC DELCO 42 XLS	CHAMPION N6Y or AC DELCO 41-2XLS
SPARK PLUG GAP	.020" - .024"	.020" - .024"	.020" - .024"	.020" - .024"
NORMAL IDLE	850 ± 50 rpm	850 ± 50 rpm	850 ± 50 rpm	850 ± 50 rpm
% CO SETTING	2 ± .5%	2 ± .5%	3 ± .5%	2 ± .5%
FAST IDLE	1600 ± 50 rpm	1600 ± 50 rpm	1600 ± 50 rpm	1600 ± 50 rpm
CYLINDER HEAD TORQUE (ENGINE COLD)	40 FT. LBS.	61 FT. LBS.	56 FT. LBS.	56 FT. LBS.
ROCKER ARM NUTS TORQUE SETTING (CAM HOUSING FOR 128 & 124 SPORTS)	29 FT. LBS.	14 FT. LBS.	29 FT. LBS.	16 FT. LBS.

\* 124 Special Sedan & Station Wagon with Automatic Trans.: Normal Idle: 700-750 RPM (Lever in Drive, Brake Applied)  
Fast Idle: 1300 ± 50 (Lever in Neutral)