

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-479
Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1990 model-year General Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

Engine Family: L3G4.3T5XEB1 Displacement: 4.3 Liters (262 Inches³)

Equipped With the Following Exhaust Emission Control Systems:

- Exhaust Gas Recirculation
- Oxygen Sensor
- Three-way Catalyst
- Throttle Body Electronic Fuel Injection
- On-Board Diagnostics (Exempted).

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

<u>Loaded Vehicle Weight (lbs.)</u>	<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
0-3750	0.39	9.0	0.4
3751-5750	0.50	9.0	1.0

The following are the certification emission values for this engine family:

<u>Loaded Vehicle Weight (lbs.)</u>	<u>Hydrocarbons (Grams per Mile)</u>	<u>Carbon Monoxide (Grams per Mile)</u>	<u>Nitrogen Oxides (Grams per Mile)</u>
0-3750	0.17	1.8	0.2
3751-5750	0.25	4.2	0.3

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Code of Regulations, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Code of Regulations, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions of California Health and Safety Code Section 43205.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 9th day of February, 1989.



K. D. Drachand, Chief
Mobile Source Division

(FOR CARB USE ONLY)

SUPPLEMENTAL DATA AND CERTIFICATION REVIEW SHEETS

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NOTES:

- (1) Please refer to manufacturer's HP lists (Attachment I) for correct dyno test HP settings based on model and equipment.
- (2) If two test weights are listed, the lower weight will be used for testing.
- (3) Letter derivative codes are the same as corresponding numeric codes except as indicated.

ISSUED: 12-19-88

REV NO.:

17-L3G4.3T5XEB1-Index 1A
(1990)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
LIGHT DUTY TRUCKS AND MEDIUM DUTY VEHICLES

VEHICLE MODELS:

C C 1 0 7 0 3 + E 6 3 (EXAMPLE)

Digit 1
Selling Division*

C-Chevrolet
T-GMC Truck

Digit 2
Chassis Type

C, M, R, S-Conventional
4x2
G-Forward Control 4x2
(Body Frame Integral)
K, T, V-Conventional 4x4

Digit 3
Series/GVWR Range

1-3500 to 7300 lbs
2-6400 to 8600 lbs
3-7100 to 14500 lbs

Digits 4 & 5
CA Dimension/Model Type

05-Blazer, Jimmy
06-S10/15
07-42"/Pickup, Chassis-Cab
09-56"/Suburban, Chassis-
Cab, Pickup, Astro, Safari
10-60" Chevy Van/Vandura,
Sportvan/Rally, Chassis-Cab
13-Chevy Van/Vandura,
Sportvan/Rally

Digits 6 & 7
Cab or Body Style

03-Conventional Cab
(S-T, C-K Models)
05-Chevy Van/Vandura &
Astro/Safari (Cargo)
06-Suburban/Sportvan/
Rally & Astro/Safari
(Passenger)
16-Blazer/Jimmy
53-Extended Cab
(S-T, C-K Models)

Digits 8, 9 & 10
Body Ordering Code

E62-Stepside/Fenderside
Pickup
E63-Fleetside/Wideside
Pickup
ZW9-Base Body

VEHICLE MODELS:

1 U M 0 6 (EXAMPLE)

Digit 1
Selling Division

1-Chevrolet
2-Pontiac

Digit 2
Body Designation

U-Lumina APV,
Trans Sport

Digit 3
Trim Level

H, M, S

Digits 4 and 5
Body Style

06-Van

* Digit 1 is not shown on subsequent pages. All vehicle models listed are sold by Chevrolet (C) and GMC Truck (T).

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: L3G4.3T5XE81

PASSENGER CARS___ LIGHT DUTY TRUCKS_X MEDIUM DUTY VEHICLES___ GAS_X DIESEL___

ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: LB0-3E

EMISSION CONTROL SYSTEM: EGR/TWC/02S (OBD, TBI)

ENGINE: FRONT_X MID___ REAR___ DRIVE: FWD___ RWD___ 4WD-FT___ 4WD-PT_X

CERTIFICATION STANDARDS*: .50 HC, 1.0 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE: A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
21	T10603+E63 T10803+E63 T10653+E63 T10516	A4	3875 4000	16125551/ ANKB	17088109	25101432 (MS 447), 25104269 (MS 461)
22	T10603+E63 T10803+E63 T10653+E63 T10516		3875 4000			
23	T10603+E63 T10803+E63 T10653+E63 T10516		3875 4000	16129851/ APAL		
24	T10603+E63 T10803+E63 T10653+E63 T10516		3875 4000			

* Tune-up label codes are found in the upper left hand corner of the tune-up label.
All T10 models are certified to the .50 HC; 1.0 NOx gm/mi standard are are equipped
with TLC of "FAT."

ISSUED: 12-19-88

REV. NO.: 001, 002

17-L3G4.3T5XE81-2A
(1990)

(FOR CARB USE ONLY)

E.O. # A-6-479

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: L3G4.3T5XE81
 PASSENGER CARS___ LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES___ GAS X DIESEL___
 ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: L80-3E
 EMISSION CONTROL SYSTEM: EGR/TWC/O2S (OBD, TBI)
 ENGINE: FRONT X MID___ REAR___ DRIVE: FWD___ RWD X 4WD-FT___ 4WD-PT___
 CERTIFICATION STANDARDS: *.39 HC, 0.4 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE: A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	*EGR SYSTEM PART NO.	CATALYST PART NO.
23	S10603+E63	A4	3375	16129851/ APAL	17088109	25101432 (MS 447), 25104269 (MS 461)
	S10803+E63		3500			
	S10653+E63		3750			
	S10516					
24	S10603+E63		3375			
	S10803+E63					
	S10653+E63		3500			
	S10516		3750			

**TUNE-UP LABEL CODES ARE FOUND IN THE UPPER LEFT HAND CORNER OF THE TUNE-UP LABEL. ALL S-10 MODELS ARE CERTIFIED TO THE .39 HC; 0.4 NOX GM/MI STANDARD AND ARE EQUIPPED WITH TLC OF "FNC"*

(FOR CARB USE ONLY)

E.O. # A-6-479

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: L3G4.3T5XEB1

PASSENGER CARS___ LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES___ GAS X DIESEL___

ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: LB0-3E

EMISSION CONTROL SYSTEM: EGR/TWC/02S (OBD, TBI)

ENGINE: FRONT X MID___ REAR___ DRIVE: FWD___ RWD X 4WD-FT___ 4WD-PT___

CERTIFICATION STANDARDS*: .39 HC, 0.4 NOx DPA: SEE ATTACHMENT I

<u>ENG CODE</u>	<u>VEH MODELS (SEE PAGE 1A)</u>	<u>TRANS TYPE:</u> A-AUTO M-MAN	<u>EQUIV TEST WEIGHT</u>	<u>IGN SYSTEM (ECU/PROM) PART NO.</u>	<u>EGR SYSTEM PART NO.</u>	<u>CATALYST PART NO.</u>
25	S10603+E63 S10803+E63 S10653+E63 S10516	M5	3375 3500 3625	16129801/ APAC	17088109	25101432 (MS 447), 25104269 (MS 461)
26	S10603+E63 S10803+E63 S10653+E63 S10516		3375 3500 3750			

* Tune-up label codes are found in the upper left hand corner of the tune-up label.
All S10 models are certified to the .39 HC; 0.4 NOx gm/mi standard and are equipped with TLC of "FNC."

ISSUED: 12-19-88

REV. NO.: 001, 003

17-L3G4.3T5XEB1-4A
(1990)

(FOR CARB USE ONLY)

E.O. # A-6-479

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: L3G4.3T5XE1

PASSENGER CARS___ LIGHT DUTY TRUCKS_X MEDIUM DUTY VEHICLES___ GAS_X DIESEL___

ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: LBO-3E

EMISSION CONTROL SYSTEM: EGR/TWC/02S (OBD, TBI)

ENGINE: FRONT_X MID___ REAR___ DRIVE: FWD___ RWD___ 4WD-FT___ 4WD-PT_X

CERTIFICATION STANDARDS*: .50 HC, 1.0 NOx DPA: SEE ATTACHMENT I

<u>ENG CODE</u>	<u>VEH MODELS (SEE PAGE 1A)</u>	<u>TRANS TYPE: A-AUTO M-MAN</u>	<u>EQUIV TEST WEIGHT</u>	<u>IGN SYSTEM (ECU/PROM) PART NO.</u>	<u>EGR SYSTEM PART NO.</u>	<u>CATALYST PART NO.</u>
25	T10603+E63 T10803+E63 T10653+E63 T10516	M5	3875 4000	16129801/ APAC	17088109	25101432 (MS 447), 25104269 (MS 461)
26	T10603+E63 T10803+E63 T10653+E63 T10516		3875 4000			

* Tune-up label codes are found in the upper left hand corner of the tune-up label.
All T10 models are certified to the .50 HC; 1.0 NOx gm/mi standard are equipped with TLC of "FAT."

ISSUED: 12-19-88

REV. NO.: 001, 003

17-L3G4.3T5XE1-5A
(1990)

(FOR CARB USE ONLY)

E.O. # A-6-479

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: L3G4.3T5XE81
 PASSENGER CARS___ LIGHT DUTY TRUCKS_X MEDIUM DUTY VEHICLES___ GAS_X DIESEL___
 ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: LB0-3E
 EMISSION CONTROL SYSTEM: EGR/TWC/02S (OBD, TBI)
 ENGINE: FRONT_X MID___ REAR___ DRIVE: FWD___ RWD_X 4WD-FT___ 4WD-PT___
 CERTIFICATION STANDARDS*: .39 HC, 0.4 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE:		EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
		A-AUTO	M-MAN				
27	S10603+E63	M5		3375	16129811/ APAD	17088109	25101432 (MS 447), 25104269 (MS 461)
	S10803+E63 S10653+E63			3500			
28	S10603+E63			3375			
	S10803+E63			3500			
	S10653+E63						

* Tune-up label codes are found in the upper left hand corner of the tune-up label.
 All S10 models are certified to the .39 HC; 0.4 NOx gm/mi standard and are equipped
 with TLC of "FNC."

ISSUED: 12-19-88

REV. NO.: 001, 003

17-L3G4.3T5XE81-6A
(1990)

(FOR CARB USE ONLY)

E.O. # A-6-479

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: L3G4.3T5XE81

PASSENGER CARS___ LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES___ GAS X DIESEL___

ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: L80-3E

EMISSION CONTROL SYSTEM: EGR/TWC/O2S (OBD, TBI)

ENGINE: FRONT X MID___ REAR___ DRIVE: FWD___ RWD X 4WD-FT___ 4WD-PT___

CERTIFICATION STANDARDS: *.39 HC, 0.4 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE:		EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
		A-AUTO	M-MAN				
27	S10603+E63	M5		3375	16129811/ APAD	17088109	25101432 (MS 447), 25104269 (MS 461)
	S10803+E63			3500			
	S10653+E63						
28	S10603+E63			3375			
	S10803+E63			3500			
	S10653+E63						

** TUNE-UP LABEL CODES ARE FOUND IN THE UPPER LEFT HAND CORNER OF THE TUNE-UP LABEL. ALL S-10 MODELS ARE CERTIFIED TO THE .39 HC; 0.4 NOx gm/mi STANDARD AND ARE EQUIPPED WITH TLC OF "FNC"*

ISSUED: 12-19-88

REV. NO.:

17-L3G4.3T5XE81-6A
(1990)

(FOR CARB USE ONLY)

E.O. # A-6-479

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: L3G4.3T5XE81
PASSENGER CARS___ LIGHT DUTY TRUCKS_X MEDIUM DUTY VEHICLES___ GAS_X DIESEL___
ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: L80-3E
EMISSION CONTROL SYSTEM: EGR/TWC/O2S (OBD, TBI)
ENGINE: FRONT_X MID___ REAR___ DRIVE: FWD___ RWD_X 4WD-FT___ 4WD-PT___
CERTIFICATION STANDARDS*: .39 HC, 0.4 NOx DPA: SEE ATTACHMENT I

<u>ENG CODE</u>	<u>VEH MODELS (SEE PAGE 1A)</u>	<u>TRANS TYPE: A-AUTO M-MAN</u>	<u>EQUIV TEST WEIGHT</u>	<u>IGN SYSTEM (ECU/PROM) PART NO.</u>	<u>EGR SYSTEM PART NO.</u>	<u>CATALYST PART NO.</u>
27	S10516	M5	3625	16129811/ APAD	17088109	25101432 (MS 447), 25104269 (MS 461)
28	S10516		3750			

* Tune-up label codes are found in the upper left hand corner of the tune-up label.
All S10 models are certified to the .39 HC; 0.4 NOx gm/mi standard and are equipped with TLC of "FNC."

ISSUED: 12-19-88

REV. NO.: 001, 003

17-L3G4.3T5XE81-7A
(1990)

(FOR CARB USE ONLY)

E.O. # A-6-479

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: L3G4.3T5XE81
 PASSENGER CARS___ LIGHT DUTY TRUCKS_X MEDIUM DUTY VEHICLES___ GAS_X DIESEL___
 ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: LB0-3E
 EMISSION CONTROL SYSTEM: EGR/TWC/O2S (OBD, TBI)
 ENGINE: FRONT_X MID___ REAR___ DRIVE: FWD___ RWD___ 4WD-FT___ 4WD-PT_X
 CERTIFICATION STANDARDS*: .50 HC, 1.0 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE: A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
27	T10603+E63 T10803+E63 T10653+E63 T10516	M5	3875 4000	16129811/ APAD	17088109	25101432 (MS 447), 25104269 (MS 461)
28	T10603+E63 T10803+E63 T10653+e63 T10516		3875 4000			

* Tune-up label codes are found in the upper left hand corner of the tune-up label.
 All T10 models are certified to the .50 HC; 1.0 NOx gm/mi standard are are equipped
 with TLC of "FAT."

ISSUED: 12-19-88

REV. NO.: 001, 003

17-L3G4.3T5XE81-8A
(1990)

(FOR CARB USE ONLY)

E.O. # A-6-479

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: L3G4.3T5XEB1

PASSENGER CARS___ LIGHT DUTY TRUCKS_X MEDIUM DUTY VEHICLES___ GAS_X DIESEL___

ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: LBO-3E

EMISSION CONTROL SYSTEM: EGR/TWC/02S (OBD, TBI)

ENGINE: FRONT_X MID___ REAR___ DRIVE: FWD___ RWD_X 4WD-FT___ 4WD-PT___

CERTIFICATION STANDARDS*: .39 HC, 0.4 NOx DPA: SEE ATTACHMENT I

<u>ENG CODE</u>	<u>VEH MODELS (SEE PAGE 1A)</u>	<u>TRANS TYPE:</u> <u>A-AUTO</u> <u>M-MAN</u>	<u>EQUIV TEST WEIGHT</u>	<u>IGN SYSTEM (ECU/PROM) PART NO.</u>	<u>EGR SYSTEM PART NO.</u>	<u>CATALYST PART NO.</u>
29	S10603+E63 S10803+E63 S10653+E63	M5	3375 3500	16129821/ APAF	17088109	25101432 (MS 447), 25104269 (MS 461)
30	S10603+E63 S10803+E63 S10653+E63		3375 3500			

* Tune-up label codes are found in the upper left hand corner of the tune-up label. All S10 models are certified to the .39 HC; 0.4 NOx gm/mi standard and are equipped with TLC of "FNC."

ISSUED: 12-19-88

REV. NO.: 001, 003

17-L3G4.3T5XEB1-9A
(1990)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: L3G4.3T5XEB1

PASSENGER CARS___ LIGHT DUTY TRUCKS_X MEDIUM DUTY VEHICLES___ GAS_X DIESEL___

ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: LBO-3E

EMISSION CONTROL SYSTEM: EGR/TWC/O2S (OBD, TBI)

ENGINE: FRONT_X MID___ REAR___ DRIVE: FWD___ RWD_X 4WD-FT___ 4WD-PT___

CERTIFICATION STANDARDS*: .39 HC, 0.4 NOx DPA: SEE ATTACHMENT I

ENG CODE	VEH MODELS (SEE PAGE 1A)	TRANS TYPE: A-AUTO M-MAN	EQUIV TEST WEIGHT	IGN SYSTEM (ECU/PROM) PART NO.	EGR SYSTEM PART NO.	CATALYST PART NO.
29	S10516	M5	3625	16129821/ APAF	17088109	25101432 (MS 447), 25104269 (MS 461)
30	S10516		3750			

* Tune-up label codes are found in the upper left hand corner of the tune-up label. All S10 models are certified to the .39 HC; 0.4 NOx gm/mi standard are are equipped with TLC of "FNC."

(FOR CARB USE ONLY)

E.O. # A-6-479

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MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: L3G4.3T5XE1
PASSENGER CARS___ LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES___ GAS X DIESEL___
ENGINE TYPE: V6 LITER (CID): 4.3 (262) EVAP FAMILY: LBO-3E
EMISSION CONTROL SYSTEM: EGR/TWC/O2S (OBD, TBI)
ENGINE: FRONT X MID___ REAR___ DRIVE: FWD___ RWD___ 4WD-FT___ 4WD-PT X
CERTIFICATION STANDARDS*: .50 HC, 1.0 NOx DPA: SEE ATTACHMENT I

<u>ENG CODE</u>	<u>VEH MODELS (SEE PAGE 1A)</u>	<u>TRANS TYPE:</u> A-AUTO M-MAN	<u>EQUIV TEST WEIGHT</u>	<u>IGN SYSTEM (ECU/PROM) PART NO.</u>	<u>EGR SYSTEM PART NO.</u>	<u>CATALYST PART NO.</u>
29	T10603+E63 T10803+E63 T10653+E63 T10516	M5	3875 4000	16129821/ APAF	17088109	25101432 (MS 447), 25104269 (MS 461)
30	T10603eE63 T10803+E63 T10653+E63 T10516		3875 4000			

* Tune-up label codes are found in the upper left hand corner of the tune-up label.
All T10 models are certified to the .50 HC; 1.0 NOx gm/mi standard and are equipped with TLC of "FAT."

ISSUED: 12-19-88

REV. NO.: 001, 003

17-L3G4.3T5XE1-11A
(1990)