

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-116-4  
Relating to Certification of New Motor Vehicles

SPECIALIZED AUTOMOTIVE ENGINEERING

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Sections 43100, 43102, 43103, and 43835; 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 Specialized Automotive Engineering exhaust emission control systems for 1978 model-year light-duty trucks are certified for the vehicles described below:

Engine Family: 8CWBT  
Engine: 140 CID  
Transmission: 4-speed manual, 5-speed manual  
Exhaust Emission Control Systems: Air Injection, Exhaust Gas Recirculation, Oxidation Catalyst

Models and Engine Codes as listed in attachment.

The following are the recommended values to be listed on the window decal required by California Assembly-Line Test Procedures for 1978 model-year vehicles:

<u>Engine Family</u>	<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
8CWBT	0.4	6	1.6

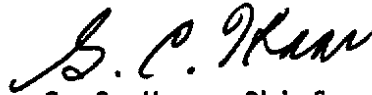
BE IT FURTHER RESOLVED: That the above models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (13 California Administrative Code, Section 2290) for the aforementioned model year, or have been granted a temporary exemption from the aforementioned "Specifications" by Executive Order AA-16 series.

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

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

The Department of Motor Vehicles, the California Highway Patrol, and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California, this 5 day of January, 1978.



G. C. Hass, Chief  
Vehicle Emissions Control Division

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

**Specialized**  
Manufacturer **Automotive Engineering** Executive Order No. A-116-4 Page 1  
Engine Family 8CWBT Engine (CID) 140

ABBREVIATIONS

Distributor

C-Centrifugal Advance  
V-Vacuum Advance  
VR-Vacuum Retard  
HEI-High Energy Ignition  
EI-Electronic Ignition

Fuel System

EFI, FI  
nV-nVenturi Carburetor  
VV-Variable Venturi

Exhaust Emissions Control System

AI-Air Injection  
CAI-Catalyst Air Injection  
CAB-Chamber Air Bleed  
DD-Dual Displacement  
EFI-Electronic Fuel Injection  
EGR-Exhaust Gas Recirculation  
EM-Engine Modification  
EFE-Early Fuel Evaporation  
ESAC-Electronic Spark Advance  
Control  
FI-Fuel Injection

OC-Oxidation Catalyst  
PAI-Pulse Air Injection  
RC-Reduction Catalyst  
TC-Turbo Charged  
TR-Thermal Reactor  
TWC-Three Way Catalyst  
(Feedback Control)  
EGR Syst. Service  
I-Inspect, repair/replace  
as needed  
R-Replace

Model

**Brahma**

1978 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Passenger Cars     Light-Duty Trucks     Medium Duty Vehicles

Specialized  
 Manufacturer Automotive Engineering    Executive Order No. A-116-4    Page 2  
 Engine Family 8CWBT    Engine (CID) 140    Engine Code CWBT-M

Emission Control System AI, EGR, OC    +10%(A/C)    Yes  No

Eng. Code	Vehicle Models (If Coded see attachment)	Trans	Inertia Weight Class	Distributor Type C,V Mfgr. Part Number	Fuel System Type 1-2V Mfgr. Part Number	EGR System Part No. Service*	Tune-Up Specification (1) Basic Timing (2) Idle Mixture (3) Idle Speed
	Brahma Brahma Cab and Chassis	M-4 M-5	3000 11.2	Mitsubishi Electric Corporation T3T60774	Hitachi DCJ328-31	3725	(1) 6° + 1° BICD @ 700-900 RPM in neutral with distributor vacuum line disconnected  (2) 4.0 ± 0.5% (without air injection-disconnect air hose between air pump and check valve, and plug the port of the check valve)  (3) 800 ± 50 in neutral 0 all accessories off

Comments: All \_\_\_\_\_ models have special road load HP settings.  
 See page 1 for abbreviations and model codes.

\* No service required

Date of Issue 010578    Revisions: See Toyo Kogyo SDS for revisions.