

FEDERAL TRANSIT BUS TEST

Performed for the Federal Transit Administration U.S. DOT
In accordance with 49 CFR, Part 665

Altoona Bus Testing and Research Center Test Bus Procedure

1.1 ACCESSIBILITY OF COMPONENTS AND SUBSYSTEMS

Pass/Fail
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**LTI BUS RESEARCH
AND TESTING CENTER**

ABBREVIATIONS

ABTC	Altoona Bus Test Center
A/C	Air Conditioner
ADB	Advance design bus
CBD	Central business district
CI	Compression ignition
CNG	Compressed natural gas
CW	Curb weight (bus weight including maximum fuel, oil, and coolant; but without passengers or driver)
dB(A)	Decibels with reference to 0.0002 microbar as measured on the “A” scale
DIR	Test director
DR	Bus driver
EPA	Environmental Protection Agency
FFS	Free floor space (floor area available to standees, excluding ingress/egress areas, area under seats, area occupied by feet of seated passengers, and the vestibule area)
FTA	Federal Transit Administration
GAWR	Gross axle weight rating
GL	Gross load (150 lb. for every designed passenger seating position, for the driver, and for each 1.5 sq. ft. of free floor space)
GVW	Gross vehicle weight (curb weight plus gross vehicle load)
GVWR	Gross vehicle weight rating
hr.	Hour
LNG	Liquefied natural gas
LTI	Larson Transportation Institute
mpg	Miles per gallon
mph	Miles per hour
NBM	New bus models
PSTT	Penn State Test Track
rpm	Revolutions per minute
SAE	Society of Automotive Engineers
SCF	Standard cubic feet
SCFM	Standard cubic feet per minute
SCH	Test scheduler
SA	Staff Assistant
SI	Spark ignition
SLW	Seated load weight (curb weight plus 150 lb. for every designated passenger seating position and for the driver)
TD	Test driver
TM	Track manager
TP	Test personnel

1.1-I. TEST OBJECTIVE

The objective of this test is to check the general accessibility of components and systems. Items that are checked are typically ones that would normally require maintenance or repair during transit service.

1.1-II. TEST DESCRIPTION

Accessibility of components and subsystems will be checked, and where accessibility is restricted then that particular subsystem is to be noted along with the reason for inaccessibility.

1.1-III. TEST ARTICLE

The test article is transit bus, with a minimum service life of 4, 5,7,10 or 12 years.

1.1-IV. TEST EQUIPMENT/FACILITIES/PERSONNEL

The equipment and test facilities at the ABTC are used for these tests. Test personnel include:

1. Test personnel (TP)

1.1-V. TEST DATA

The test data consist of the Accessibility Data Form of all scheduled and unscheduled maintenance and repair. Test data also includes the Accessibility Data Form. All forms to be filled out with pen. Copies of all data forms shall be forwarded to the ABTC manager.

X-VI. TEST PREPARATION AND PROCEDURES

The detailed procedures are listed in Procedure 1.1-1.

DETAILED TEST PROCEDURES		TITLE: 1. Maintainability
Procedure 1.1-1	NOMENCLATURE: Accessibility of Components and Subsystems	
OPER STEP	ACTION BY	TEST PREPARATION AND PROCEDURE
1	TP	Use pen for all forms.
2	TP	Record the accessibility of all components and subsystems involved in scheduled and unscheduled maintenance and repair. Note the part or subsystem and describe any accessibility restrictions.
3	TP	Photograph any accessibility restriction.
4	TP	Fill out the Accessibility Data Form and record comments. Insure all components and subsystems on the form have been checked.
5	TP	File completed Accessibility Data Form.