

MEDIA PRODUCTIONS' MANUALS/USERS' GUIDES

BY

**DR.(MRS) COMFORT M. EKPO
ASSOCIATE PROFESSOR
DEPARTMENT OF EDUCATIONAL TECHNOLOGY
AND LIBRARY SCIENCE
UNIVERSITY OF UYO
AKWA IBOM STATE
NIGERIA**

A MANUAL FOR THE USE OF INSTRUCTIONAL PACKAGE
ON CHANGING A PUNCTURED CAR TYRE

BY

DR (MRS) S. L. ENFO
UNIT OF EDUCATIONAL TECHNOLOGY
UNIVERSITY OF UYO

Subject and Topic: Introductory Technology

Lesson: Changing a punctured car tyre.

Introduction

It is not uncommon on our highways and streets to see cars abandoned after a tyre puncture or to find drivers running to mechanics for a slightest repairs like changing of a car tyre.

My interactions lately with some car owners coupled with my experience as a lady driver have heightened my interest in designing and producing this 'How to do it' instructional package. It is my belief that this material will help many car owners to spend less on car repairs.

Target Audience

This medium is designed for all car owners/drivers, Technical College students and Senior Secondary School students with basic knowledge in Introductory Technology.

Instructional Objectives in Behavioural Terms

As successful learner will be expected to do as the result of this module the following:-

- (a) In a short quiz at the end of the presentation, the learners will be able to name the various steps involved in changing a punctured car tyre.

- (b) They will also be able to identify the essential tools and state their uses at the end of this learning process.
- (c) After a careful study of the steps and the techniques involved in changing a punctured car tyre, the learners will be able to change a punctured car tyre unaided by skilled mechanics.

Materials used in the Production

- 35 mm still camera
- Printing paper
- Chemicals for developing black and white films
- Cardboards
- Cloth cellutape
- Mounting tissue and press
- Leroy lettering set

Instructional Strategy

The intended strategy for this project is a detailed blue print for the twenty (20) close up photographs. These photographs are meant to be spread on a long bench for detailed study of the steps involved in the process. These photographs packed into an accordion shape, can equally be unfolded one at a time to flash the photographs singly. This is to be followed with a practical lesson.

For this instructional sequence to be effectively utilized, the learners must possess the following prerequisite skills:

- ability to read and write in English
- ability to understand everyday spoken English
- ability to identify various parts of a car
- ability to identify the required tools when they are in a common pool of tools.

However, provision is made for individuals who can't read properly by accompanying these visuals with a narration that explains each of the steps.

This sound accompaniment could be replaced by a live class instructor's voice, it could also be used to introduce the module or to recapitulate the lesson.

Methods of Presentation

The concept developed here is presented to the target audience using series of photographs. Some twenty photographs mounted on white cardboard paper with captions are used for the presentation, as well as an audio accompaniment consisting of soft music, and a narration that explains the visuals further. It is hoped that the combination of these visual stimuli with the audio stimulus have made this package a forceful one in this instructional situation since one stimulus is seen reinforcing the other through out the presentation period.

The users of this package can view these photographs and listen to the recorded sound in small groups of 5 - 10 people with or without an instructor. It could also be utilized by individuals privately, thereafter, a practical session should follow where all the tools are available.

The Instructional Model :

1. Visuals/ Fade in soft Instrumental music
2. Visuals/ Music fades out:
Hello friends, listen to this,
'Nigeria goes austere'.
What might this imply?
we the citizens must learn to be
self-reliant and economical in our
spending. Drivers, do a little more
than driving - change your punctured
car tyre when the need arises. You
need the following tools for this job:-
 - a wheel spanner
 - an hydraulic jack, and
 - and inflated spare tyre.

- 3 Visuals If while driving a swerving is perceived, one of the possible causes could be a 'sick tyre on you wheel. Clear from the major road and stop your car by the parking lane.
- 4 Visuals A close examination of the four tyres may reveal a wound on any of the tyres.
- 5 Visuals No need to call a mechanic the problem is simple enough for all trained drivers to manage and you can also manage this.
- 6 Visuals bring out your inflated car tyre, be sure it is in good condition.
- 7 Visuals You need a strong hydraulic jack that can support your car model, and you need wheel spanners too. Do you always have them handy while on a journey?
- 8 Visuals Now, you need to wedge the other tyres to prevent them from rolling while you are at work.
- 9 Visuals First remove the wheel cover of the damage tyre to expose the knots.
- 10 Visuals Then, with your spanner, slacken all the knots. At times, these knots are difficult

- 10 /Visuals/ to be slackened, a little lubrication does it.
- 11 /Visuals/ Take a closer look at your car, close to the four wheels and discover a hook-line structure where an hydraulic jack may be fixed for support.
- 12 /Visuals/ With that support, jack the tyre and wheel off the ground.
- 13 /Visuals/ Remove all the knots holding the tyre to the car.
- 14 /Visuals/ Then freely remove the puncture tyre.
- 15 /Visuals/ A spare inflated car tyre can then be fixed.
- 16 /Visuals/ The four knots are fixed back in place and the car is jacked down.
- 17 /Visuals/ The hydraulic jack is unhooked from the body of the car and taken off.
- 18 /Visuals/ With the wheel spanner, the knots can then be tightened to prevent the wheel from coming off while the car is in motion.

- 19 Visuals Check back to be sure all the four knots are firmly in place, then replace the wheel cover and tighten this too. There you are, the job is done.
- 20 Visuals Return all tools used to your tool's box, close the car boot, clean up and off you go.

Fade Music Under

Recapitulation: what have we learnt?

We have just gone through the various steps involved in changing a punctured car tyre. We have identified three essential tools needed for this job and

these are: - a wheel spanner
- an hydraulic jock, and
- an inflated spare tyre

We have also noted that a very unusual swerving or an unfamiliar sound perceived from a moving car may be as a result of a bad tyre, or a punctured tyre (among other causes)

Can you now remove your car tyre unaided?

If yes, bravo.

No? Then try your hands once more following each of the steps discussed.

Fade in Soft Music.

Introduction

Music Fades Out.

activities

1. What are the steps involved in the process of changing a punctured car tyre?
2. Enumerate all the essential tools you will need for this practical lesson.
3. Can you identify these tools?