

# EN

Original Instructions  
Version 1

**DRAPER**<sup>®</sup>

TRIPLE LEG

# REVERSIBLE PULLER

08442, 13908, 13909



These are the original product instructions. This document is part of the product; retain it for the life of the product, passing it on to subsequent holders. Read this manual in full before attempting to assemble, operate or maintain this product.

This Draper Tools manual describes the purpose of the product and contains all the necessary information to ensure its correct and safe use. Following all the instructions and guidance in this manual will ensure the safety of both the product and the operator and increase the lifespan of the product.

All photographs and drawings within this manual are supplied by Draper Tools to help illustrate correct operation of the product.

Every effort has been made to ensure the information contained in this manual is accurate. However, Draper Tools reserves the right to amend this document without prior warning. Always use the latest version of the product manual.

## 1. Preface

### 1.1 Product Reference

User Manual for: Twin Leg Reversible Puller

Stock No: 08442, 13906, 13907

Part No: N133A, N133

### 1.2 Revisions

**Version 1:** February 2023

First release

Visit [drapertools.com/manuals](http://drapertools.com/manuals) for the latest version of this manual.

### 1.3 Understanding the Safety Content of This Manual



**WARNING!** – Situations or actions that may result in personal injury or death.



**CAUTION!** – Situations or actions that may result in damage to the product or surroundings.

**Important:** – Information or instructions of particular importance.

### 1.4 Copyright Notice

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### 3. Product Introduction

#### 3.1 Intended Use

This product is designed as a three-legged puller for removing gears, bearings, fan belts etc. from shafts or holes. The reversible legs can be repositioned to achieve various reach and spread configurations.

Part of our core range, this product is suitable for regular trade use. Any other application beyond the conditions established for use will be considered misuse. Draper Tools accepts no responsibility for improper use of this product.

**WARNING!**  
**This product is not a toy and must be respected.**

Read this manual in full before attempting to operate or maintain the product, and retain it for later use.

**Important:** This manual is intended as a guide only. **ALWAYS** refer to the vehicle manufacturer's instructions to identify and operate the most appropriate tool for each vehicle.

#### 3.2 Specification

Stock No.	08442	13908	13909
Part No.	N133A	N133	N133
Maximum reach	120mm	65mm	102mm
Maximum spread	150mm	75mm	110mm
Screw size	14.5 x 190mm	11.8 x 124mm	14 x 156mm
Striking head hex size	19mm	14mm	17mm
Screw hardness	38-42 HRC	35-37 HRC	35-37 HRC
Net weight (approx.)	1.56kg	0.52kg	0.95kg

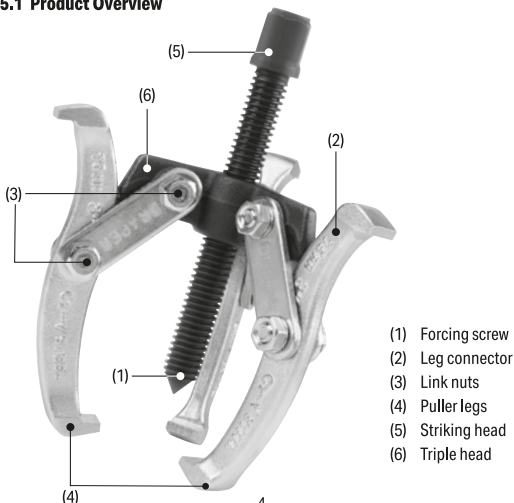
### 4. Health and Safety Information

**Important:** Read all the Health and Safety instructions before attempting to operate or maintain this product. Non-compliance may result in injury or damage to the user, the product or the workpiece.

- Observe all standard safety precautions and good practices when in a workshop environment and working with vehicles.
- Wear appropriate eye or face protection and protective gloves.
- Before every use, inspect the product for broken, cracked, loose or corroded parts.  
**Important: DO NOT** use this product if it is damaged in any way.
- **ALWAYS** ensure that the tool is fitted squarely to the part to be removed.
- **DO NOT** exceed the puller's rated reach or spread.
- **DO NOT** use wrench extensions or apply excessive pressure when tightening the forcing screw.
- Apply force gradually; **DO NOT** use an impact wrench.
- Be mindful of situations where the sudden release of pressure or resistance may cause injury or damage.
- Where possible, keep the puller and part covered during operation to protect yourself from flying debris.
- Maintain good balance during operation and brace yourself to accommodate a sudden release of pressure.
- **DO NOT** modify this product in any way.


### 5. Identification and Unpacking

#### 5.1 Product Overview



## 5.2 Packaging

Keep the product packaging for the duration of the warranty period in case the product needs to be returned for repair.

 **WARNING! Keep packaging materials out of reach of children. Dispose of packaging correctly and responsibly and in accordance with local regulations.**

## 6. Operating Instructions

**Important:** Before use, read and understand all the safety instructions listed in this manual.

### 6.1 Notes on Use

**Important:** Read this section in full before attempting to use this product.

- Remove any rust from the shaft and part before installing the puller.
- Lubricate the part to be removed around the shaft and bore to reduce the friction against the shaft.
- **ALWAYS** ensure that the forcing screw (1) is positioned centrally on the shaft and that both legs are securely seated against the part to be removed.
- Always use the largest suitable puller for the part to be removed that can be accommodated.
- Tightening the forcing screw will increase the grip of the self-locking legs.
- The link nuts (3) of the puller must **NOT** be locked tight or they may damage the tool.
- Clean and lubricate the forcing screw before and after **EVERY** use.

### 6.2 Configurations

The puller legs (4) can be installed in various orientations to achieve different reach and spread configurations:


- Rotate the legs lengthways to adjust the reach of the tool.
- Rotate the legs widthways to switch from external to internal gripping on the part to be removed.
- Remove the leg connectors (2) entirely and attach the legs directly to the triple head (6) for the smallest reach and spread ranges achievable for this tool.

To rotate the legs, loosen the link nuts (3) and remove the legs from the connectors, then rotate the legs as appropriate and reinstall. The legs can also be bolted directly to the triple head if the connectors are removed.

**Important:** **ALWAYS** use an appropriate configuration for the part to be removed and adjust all three legs in the same way. The puller must be attached squarely to the workpiece.

### 6.3 Basic Reverse Puller Operation

1. Ensure that the shaft and part to be removed are clean and free from corroded material.
2. Rotate the striking head (5) anticlockwise to withdraw the forcing screw (1) and provide sufficient reach.
3. Locate the puller legs (4) around the workpiece and hand-tighten the forcing screw until contact is made with the shaft.  
**Important:** Ensure that the forcing screw is positioned at the centre of the shaft or part before tightening it. Check the forcing screw and leg positions frequently to ensure a firm and secure grip.
4. Once the puller is positioned correctly and its grip is secure, use a suitable tool to tighten the forcing screw further to draw the part off the shaft.
5. Hit the striking head with a soft-faced hammer as you tighten the forcing screw and frequently check the positioning of the legs and forcing screw.

 **CAUTION! Attempting to remove parts using the forcing screw alone may stress the triple head and screw thread and damage the tool. Refer to the vehicle manufacturer's information for the correct procedure for this tool for each part.**

## 7. Product Care and Disposal

- Clean and lubricate the forcing screw (1) and triple head (6) before and after **EVERY** use.
- Keep the puller free from dust and debris and ensure that the link nuts do not become overly tight.
- Before storing the product, wipe it thoroughly with a lightly oiled cloth to prevent corrosion.
- Store the product in a clean and dry environment, out of reach of children.
- At the end of its working life, dispose of the product responsibly and in line with local regulations; recycle where possible.

## 8. Explanation of Symbols



Read the instruction manual



Wear appropriate eye protection



Product reach range (example)  
0-120mm



Product spread range (example)  
0-150mm



Central screw size (example)  
14.5 x 190 mm



Hexagonal head (example)  
19mm

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For aftersales servicing or warranty repairs, please contact the Draper Tools Helpline for details of an agent in your local area.

## YOUR DRAPER STOCKIST

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