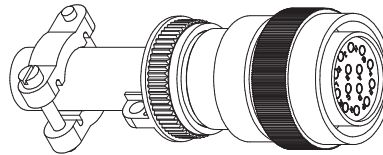
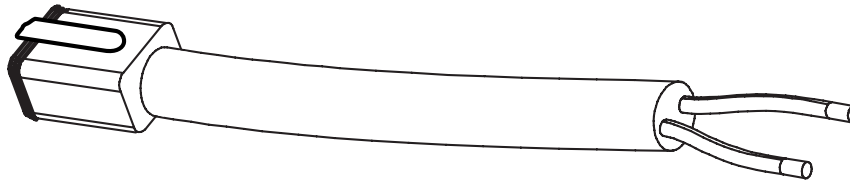


# ELECTRICAL KIT

## OPERATION & ASSEMBLY MANUAL

### 14-PIN FEMALE PLUG



PM-000093

ISO V1.0

MY.DIGGA.COM



DECAL IS APPLIED TO THE  
ATTACHMENT

MY.DIGGA.COM



DECAL TO BE APPLIED TO  
WINDOW OF MACHINE

**ACCESS OPERATOR MANUALS RISK ASSESSMENTS AND MORE**

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# To the Purchaser

## **Thank you and congratulations on the purchase of your new Digga 14-Pin Female Plug Electrical Assembly Kit.**

This Kit is specifically used for Digga Dozer Blade, Tilt Bucket, Debris Cleana, Ballast Trencher, Power Rakes, Harley Rake or Digga Tilt Attach. This product was carefully designed and manufactured to give you years of dependable service. To keep it running efficiently, please read the instructions in the manual to keep it in top working condition.

### **Before Operation**

Inspect the product for shipping damage and if any damage does exist, do not operate until the damaged parts have been replaced or repaired. The primary responsibility for safety with this equipment falls to the operator. Make sure the equipment is operated only by trained individuals that have read and understood this manual. If there is any portion of this manual or function you do not understand, contact your local authorized Digga dealer or the manufacturer to obtain further assistance. Keep this manual available for reference.

### **About This Manual**

This manual has been designed to help you do a better and safer job. **Read this manual carefully and become familiar with its contents before connecting and operating this unit.**

No responsibility will be taken by Digga for any omissions or errors in this manual as all data is correct at time of print, however Digga reserve the right to revise this manual without further notice.

### **Service**

Use only manufacturer replacement parts. Substitute parts may not meet the required standards.



## **CAUTION**

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**Never allow anyone to operate the attachments without reading the “Safety precautions” and “Operating instructions” sections of the manual. Always choose hard and level ground to park the vehicle on and set the brake, so the unit cannot roll.**

<b>MODELS COVERED IN THIS MANUAL</b>	
<b>ADAPTER HARNESS FROM THE 2-PIN OR 4-PIN PLUG TO THE 14-PIN PLUG FOR THE FOLLOWING HARNESSES</b>	
<b>TC-000011 Harness</b>	Used on Tilt Bucket or Dozer Blade
<b>TC-000015 Harness</b>	Used on Tilt Bucket (mid-mount valve)
<b>DM-000021 Harness</b>	Used on Tilt Attach (Series 1), 2-Speed Drive Units, Angle Brooms with Single Remote, Digga Power Rake (Soil Conditioner) Slew Standard and Mini Power Rake
<b>EH-000040 Harness</b>	Used on Tilt Attach (Series 2)
<b>DC-000051 Harness</b>	Used on Debris Cleana or Ballast Trencher
<b>EC-000029 Harness</b>	Used on FFC Power Rake (Pre July 2014)
<b>EH-000012 Harness</b>	Used on Harley Rake (ALL YEARS), FFC Power Rake (Post July 2014) and Digga Power Rake (Soil Conditioner) Slew Pro

## **NOTE**

It is the responsibility of the Dealer or end user to choose the appropriate button on the joystick of the skid-steer loader which they want to use to energise the tilt or slew feature on these attachments. The next step is to use the 12V test light provided in the kit (see page 8) to determine which pins on the loader's 14-pin service plug are energised when pressing the button on the joystick.

# Operating Instructions

Please follow these assembly instructions to ensure that the appropriate Adapter harness kit (2-pin or 4-pin) is supplied for the attachment harness. The following harnesses will need to have the 2-pin or 4-pin Adapter harness fitted:

- TC-000011 harness on Tilt Bucket or Dozer Blade
- TC-000015 harness on Tilt Bucket (mid-mount valve)
- DM-000021 harness on Tilt Attach (Series 1), All 2-Speed Drives, single remote Angle Brooms, Digga Power Rake (Soil Conditioner) Slew Standard and Mini Power Rake
- EH-000040 harness on Tilt Attach (Series 2)
- DC-000051 harness on Debris Cleana or Ballast Trencher
- EC-000029 harness on FFC Power Rake (Pre July 2014)
- EH-000012 harness on Harley Rake (All Years), FFC Power Rake (Post July 2014) and Digga Power Rake (Soil Conditioner) Slew Pro

The 14-pin plug kit is supplied as an option to the above attachments. The pin out configuration of the 14-pin plug on each machine brand is varied. For this reason Digga supply the 14-pin plug not connected to the Adapter harness. The end user has to check available buttons on the joysticks and then determine the corresponding terminals in the 14-pin plug on the loader. The wires on the adapter harness can be inserted into the appropriate positions in the plug.

Digga have provided a circuit test light (Part No. EC-000108) to perform continuity checks. If you are still encountering problems you will need to consult an auto electrician or the loader manufacturer.

## **NOTE**

**Power Rake & Harley Rake** - Pressing the selected momentary button on the loaders joystick, the Power Rake will be able to slew to the left or right. When the momentary switch is released, the attachment will stop slewing. To enable the Power Rake to slew, the drum must be rotating in a clockwise direction (when viewed from the left hand side of the attachment with the operator facing forward).

**Mini Power Rake** - Pressing the selected button on the loaders joystick, the Mini Power Rake will be able to slew to the left or right. When the switch is released, the attachment will stop slewing. On the Mini Power Rake, angling/slewing function and drum rotation cannot be operated simultaneously, the attachment can either slew or the drum can rotate, but not both at the same time.

**Debris Cleana or Ballast Trencher** - Pressing the selected momentary button on the loaders joystick, the debris cleaner or the ballast trencher will be able to slew to the left or right. When the momentary switch is released, the attachment will stop slewing. Whilst slewing, the conveyor chain continues to rotate.

**Tilt Bucket** - Pressing the selected button on the joystick, the bucket tilt feature will be energised and the bucket will be able to tilt using the joystick for left and right tilt. When the button is switched off then the tilt feature will be de-energised thus defaulting to the open and closing feature of the bucket. The bucket can then open and close using the joystick. It is not possible to simultaneously tilt and open the bucket. It can only perform one function at any given time.

**Dozer Blade** - Pressing the selected button on the joystick, the tilt feature will be energised and the dozer blade will be able to tilt using the joystick for left and right tilt. When the button is switched off then the tilt feature will be de-energised thus defaulting to the slew feature of the dozer blade. The slew feature left or right is operated using the joystick. It is not possible to simultaneously tilt and slew the dozer blade. It can only perform one function at any given time.

**Tilt Attach Series 1 and Series 2** - Pressing the selected button on the joystick, the tilt feature will be energised and the attachment will be able to tilt using the joystick for left and right tilt. When the button is switched off then the tilt feature will be de-energised thus defaulting to the open and closing feature of the bucket. The bucket can then open and close using the joystick. It is not possible to simultaneously tilt the attachment and open the bucket. It can only perform one function at any given time.

**Angle broom** – when pressing the selected button on the joystick, angle slew feature will be energised and the angle broom will be able to slew using the joystick movement (for Left and right Slews). When the joystick button is switched off the slew feature will be De-energised and the brush drum will resume rotation. It is not possible to simultaneously slew the angle broom whilst the drum is rotating. It can only perform one function at any given time.

# Conversion Instructions

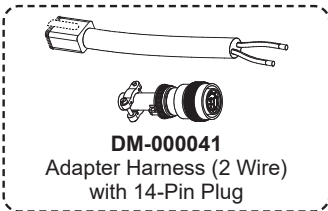
## 14-Pin Adapter Kit EC-000241



**PM-00093**  
Installation Manual



**DE-00097**  
QR Code  
Window Decal



**DM-00041**  
Adapter Harness (2 Wire)  
with 14-Pin Plug



**EC-000108**  
Circuit Test Light

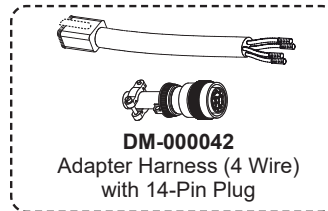
## 14-Pin Adapter Kit EK-000001



**PM-00093**  
Installation Manual



**DE-00097**  
QR Code  
Window Decal



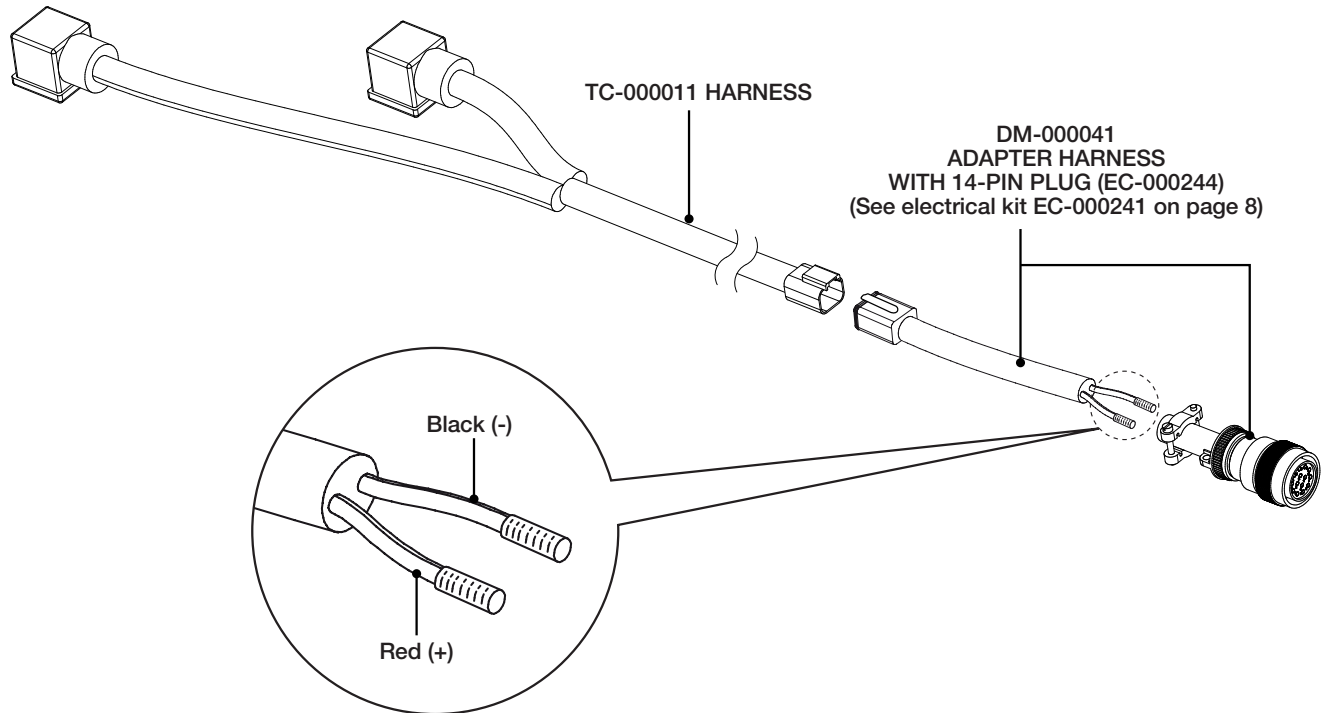
**DM-00042**  
Adapter Harness (4 Wire)  
with 14-Pin Plug



**EC-000108**  
Circuit Test Light

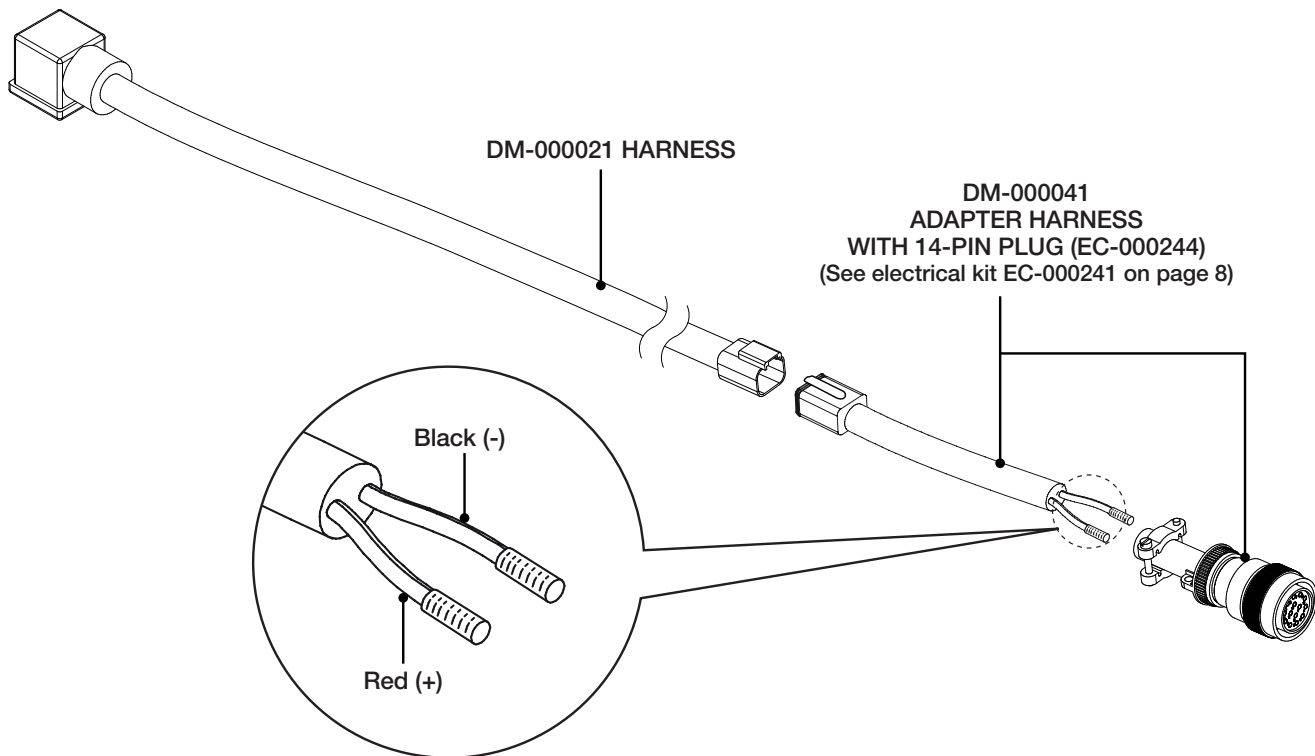
# Conversion Instructions

**TC-000011 HARNESS USED ON TILT BUCKET AND DOZER BLADE :**



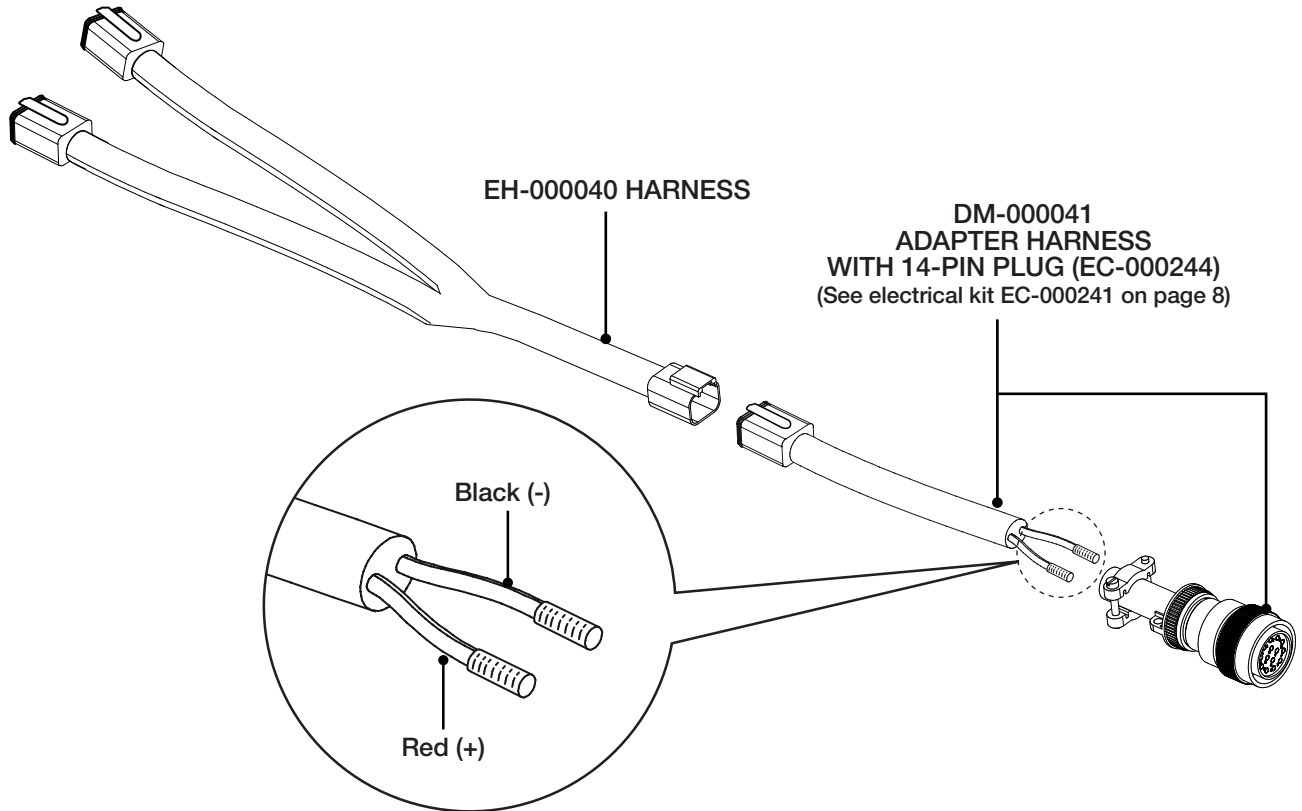
# Conversion Instructions

**DM-000021 HARNESS USED ON TILT ATTACH (SERIES 1), 2-SPEED DRIVE UNITS, ANGLE BROOMS (WITH SINGLE REMOTE), POWER RAKE/SOIL CONDITIONER (STANDARD SLEW) & MINI POWER RAKE:**



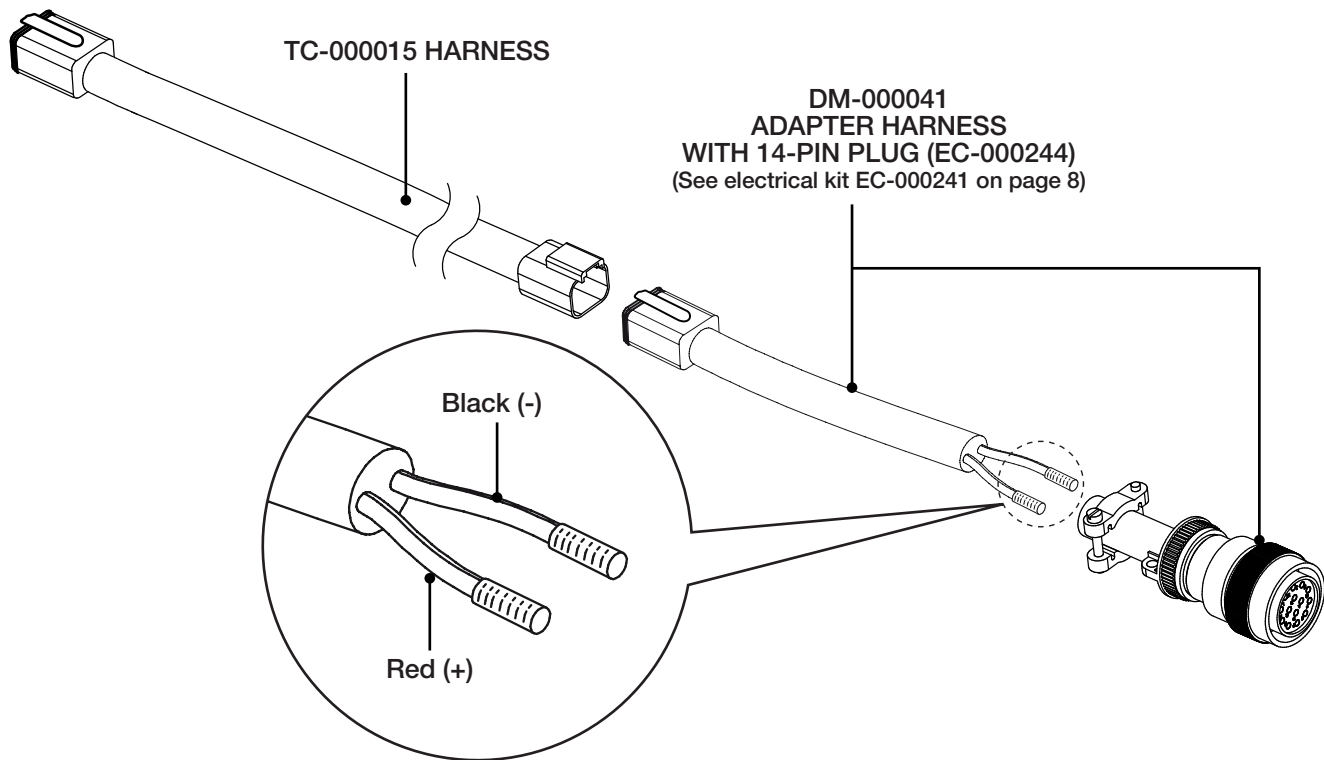
# Conversion Instructions

## EH-00040 HARNESS USED ON TILT ATTACH (SERIES 2):



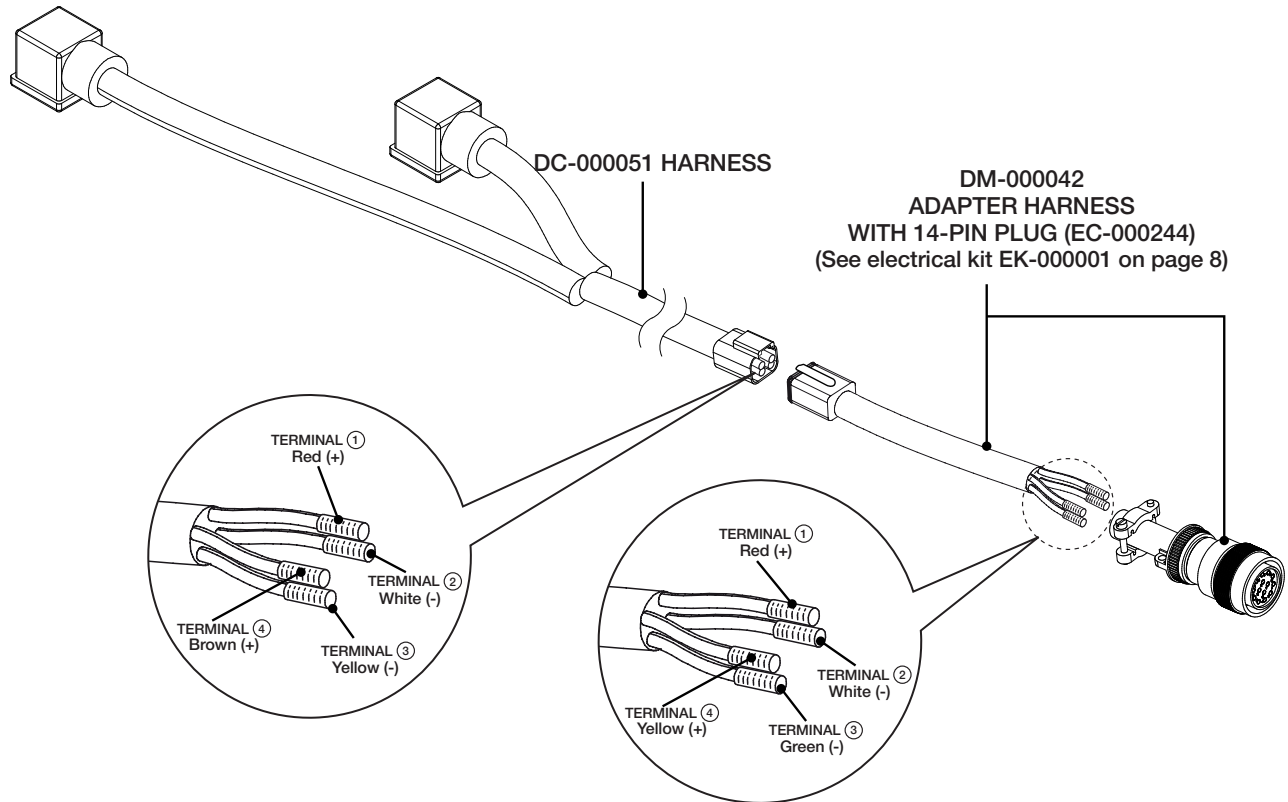
# Conversion Instructions

## TC-000015 HARNESS USED ON TILT BUCKET (MID MOUNT VALVE) :



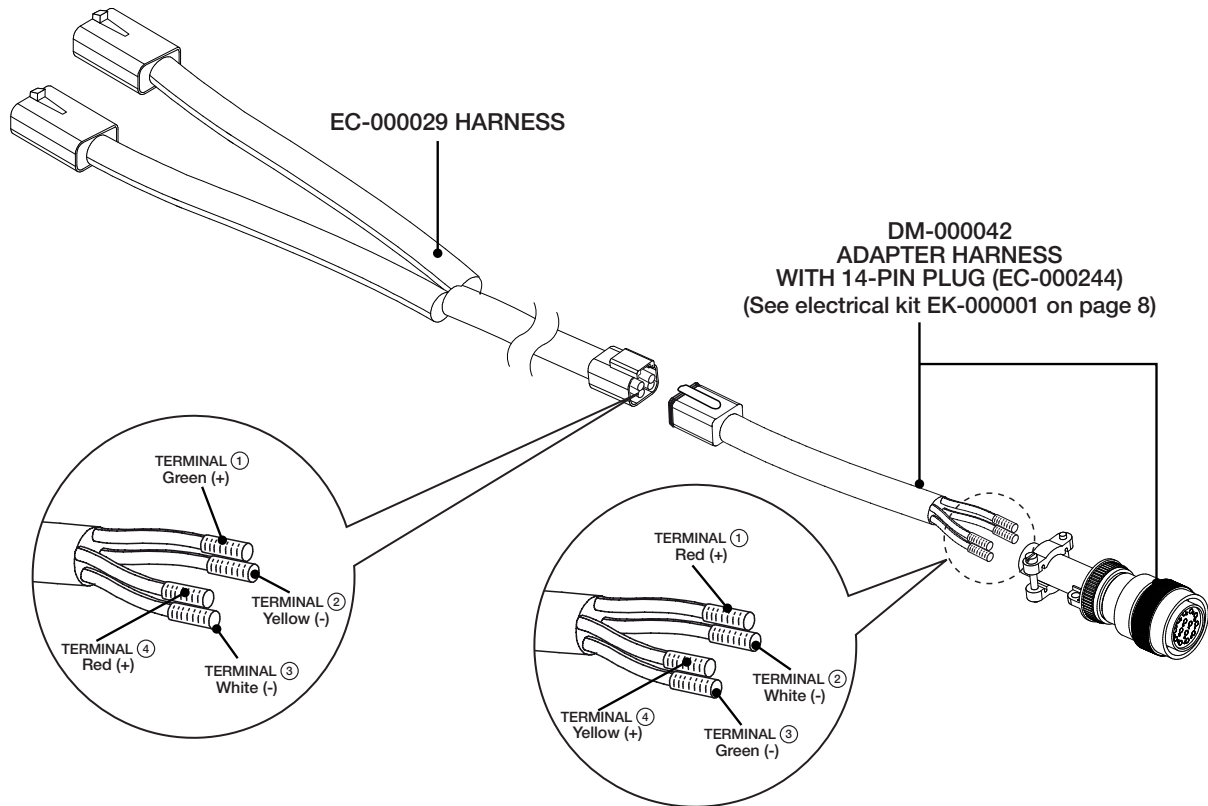
# Conversion Instructions

## DC-000051 HARNESS USED ON DEBRIS CLEANA AND BALLAST TRENCHER



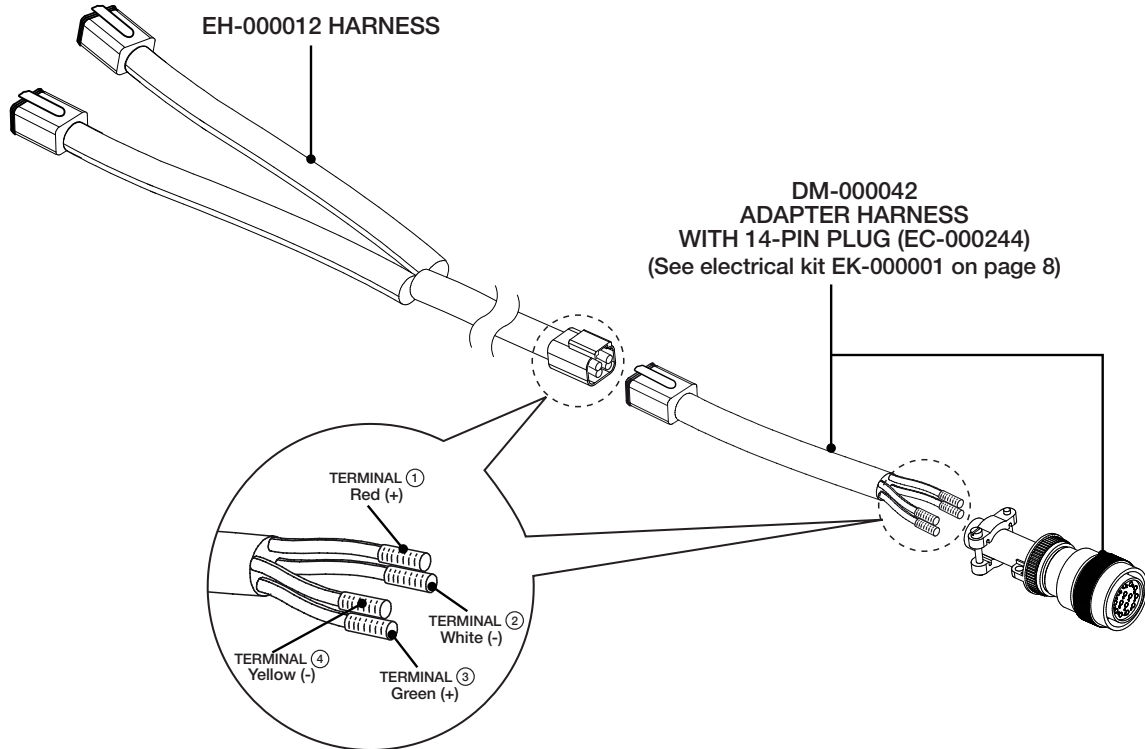
# Conversion Instructions

## EC-000029 HARNESS USED ON POWER RAKE (PRE JULY 2014)



# Conversion Instructions

**EH-000012 HARNESS USED ON HARLEY RAKE (ALL YEARS), FFC POWER RAKE (POST JULY 2014) AND DIGGA POWER RAKE/SOIL CONDITIONER (SLEW PRO) :**



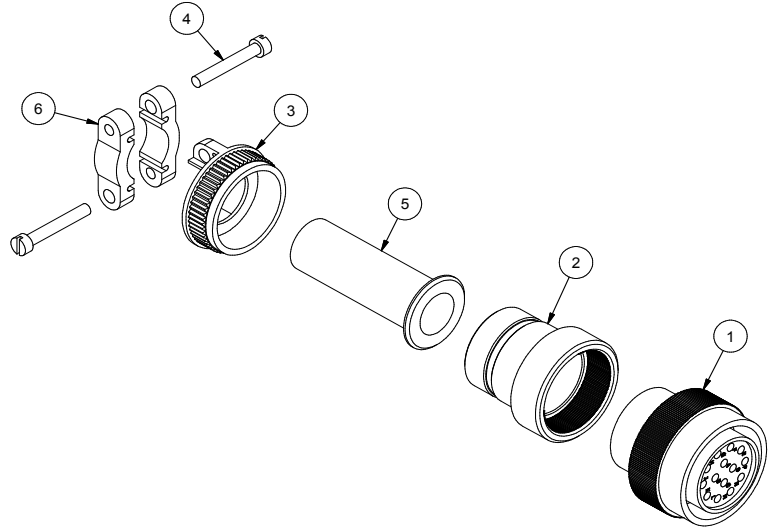
# Plug Sub-Assembly

## HOW TO SUB-ASSEMBLE THE PLUG:

The 14-pin plug is supplied in parts and will require assembly (see the exploded view below). Item 2 below will need to be pressed onto Item 1. Item 5 will need to be installed into item 3.

## PLUG CHANGE OVER PROCEDURE.

1. The Adaptor harness DM-000041 and DM-000042 are supplied without the 14-pin plug attached. The operator must determine the appropriate buttons on the loader joystick to use. Using the supplied electrical tester will determine which pins on the loader accessories plug are energised when the selected buttons on the joysticks are pressed. The pin symbols on the loader plug can be cross-referenced to the 14-pin plug.
2. Item 2 has to be pressed onto Item 1.
3. Pass the Adaptor harness through items 3, 5 & 2.
4. Insert the harness into the selected terminals located in the back of the 14 pin plug.
5. Ensure that Item 3 is screwed onto Item 2.
6. Assemble Items 4 and 6 onto Item 3.





# Contact Information

For further information on spare parts, please contact one of the Digga sales offices shown below, or contact your local authorised Digga dealer.

## DIGGA INTERNATIONAL SALES OFFICES

### ASIA PACIFIC

#### DIGGA HEAD OFFICE - BRISBANE

4 Octal St, Yatala QLD 4207

Phone: +61 7 3807 3330

Email: [info@digga.com](mailto:info@digga.com)

#### DIGGA NEW SOUTH WALES

19 Mckay Close,  
Wetherill Park, NSW 2164

Phone: 1300 2 DIGGA

Email: [nsw@digga.com](mailto:nsw@digga.com)

#### DIGGA VICTORIA

151 Wedgewood Road,  
Hallam, VIC 3803

Phone: 1300 2 DIGGA

Email: [vic@digga.com](mailto:vic@digga.com)

Web: [www.digga.com](http://www.digga.com)

### NORTH AMERICA

#### DIGGA NORTH AMERICA

2325 Industrial Parkway SW

Dyersville IA 52040

Phone: + 1 563 875 7915

Email: [infous@digga.com](mailto:infous@digga.com)

Web: [www.diggausa.com](http://www.diggausa.com)

### EUROPE

#### DIGGA EUROPE

Unit 1, Nexus Park

Plenty Close

Newbury, RG14 5RL

England, United Kingdom

Phone: +44 (0) 1488 688 550

Email: [infouk@digga.com](mailto:infouk@digga.com)

Web: [www.diggaeurope.com](http://www.diggaeurope.com)

## Warranty Statement

All new Digga products are warranted to be free from defects in materials or workmanship, for a period of twelve (12) months from date of original purchase, which may cause failure under normal usage and service when used for the purpose intended. Digga Australia Pty Ltd warrants its equipment for a period of twelve (12) months dating from delivery to the original user.

In the event of failure (excluding cable, ground engaging parts such as sprockets, digging chain, bearings, teeth, tamping and demolition heads, blade cutting edges, pilot bits, auger teeth, auger heads ), if after examination, Digga determines failure was due to defective material and/or workmanship, parts only will be repaired or replaced. Digga may request defective product or products be returned prepaid to them for inspection at their place of business or to a location specified by Digga. The warranty will be considered void if the product or any part of the product is modified or repaired in any way not expressly authorized by Digga, or if closed components are disassembled prior to return. Closed components include, but are not limited to: gearboxes, hydraulic pumps, motors, cylinders and actuators. Any goods returned to Digga by the customer under warranty or repair must have all freight charges prepaid for on the customers account.

Any claims under this warranty must be made within fifteen (15) days after the Buyer learns of the facts upon which such claim is based. All claims not made in writing and received by Digga outside the time period specified above shall be deemed waived.

### **Damage or failure through operator abuse or negligence voids warranty.**

This warranty is in lieu of all other warranties expressed or implied and there are no warranties of merchantability or of fitness for a particular purpose. In no event shall Digga be liable for consequential or special damage. Digga's liability for any and all losses and damages to buyer, resulting from any cause whatsoever, including Digga's negligence, irrespective of whether such defects are discoverable or latent, shall in no event exceed the purchase price of the particular products with respect to which losses or damages are claimed, or, at the election of Digga, the repair or replacement of defective or damaged products.

