

# TRAINING 2021 GUIDE



**CAMO**<sup>®</sup>  
The Better Way to Build a Deck

**CAMO products are user-friendly, intuitive, and are designed to give you the best experience. To ensure you're confident in every install, we put together this comprehensive Training Guide full of the information you need to build better.**

In this guide, we break down the components of CAMO tools, guide you on setting them up, and give you simple instructions for every install. Towards the back of the guide, we included a resources section full of information about fastening in special cases, best practices to follow, and cover troubleshooting.

Look through this Training Guide to get ready for your install, and you'll see why CAMO is the better way to build a deck.

# CONTENTS

<b>PRODUCT OVERVIEW</b>	<b>4</b>
<b>DRIVE</b>	<b>6</b>
EDGE	8
CLIP	10
FACE	12
<b>UNIVERSAL DECK CLIPS</b>	<b>14</b>
STARTER	16
EDGE	18
EDGEX	20
EDGEXMETAL	22
<b>LEVER</b>	<b>24</b>
BENDING BOARDS	26
LOCKING BOARDS	28

# DRIVE™ System

## DRIVE™



T-15 BIT

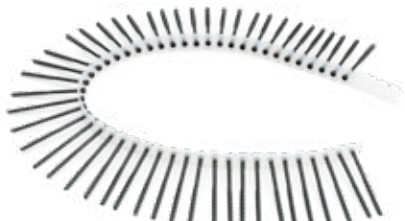


T-20 BIT



INTERCHANGEABLE NOSE PIECES

## COLLATED SCREWS



COLLATED EDGE SCREWS



COLLATED WOOD FACE SCREWS



COLLATED COMPOSITE FACE SCREWS

## UNIVERSAL DECK CLIPS



STARTER



EDGE\*



EDGEX\*



EDGEXMETAL\*



NEVER-MISS™ GUIDE

# MARKSMAN® System

## MARKSMAN TOOLS



MARKSMAN PRO®



MARKSMAN PRO®-X1



MARKSMAN PRO®-NB



MARKSMAN® EDGE

## EDGE SCREWS



PROTECH



STAINLESS STEEL

## MARKSMAN ACCESSORIES



BIT FOR SQUARE BOARDS



BIT FOR GROOVED BOARDS

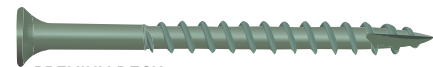


PRE-DRILL BIT

# LEVER®



# Exterior Screws



PREMIUM DECK



COMPOSITE



PREMIUM TRIM



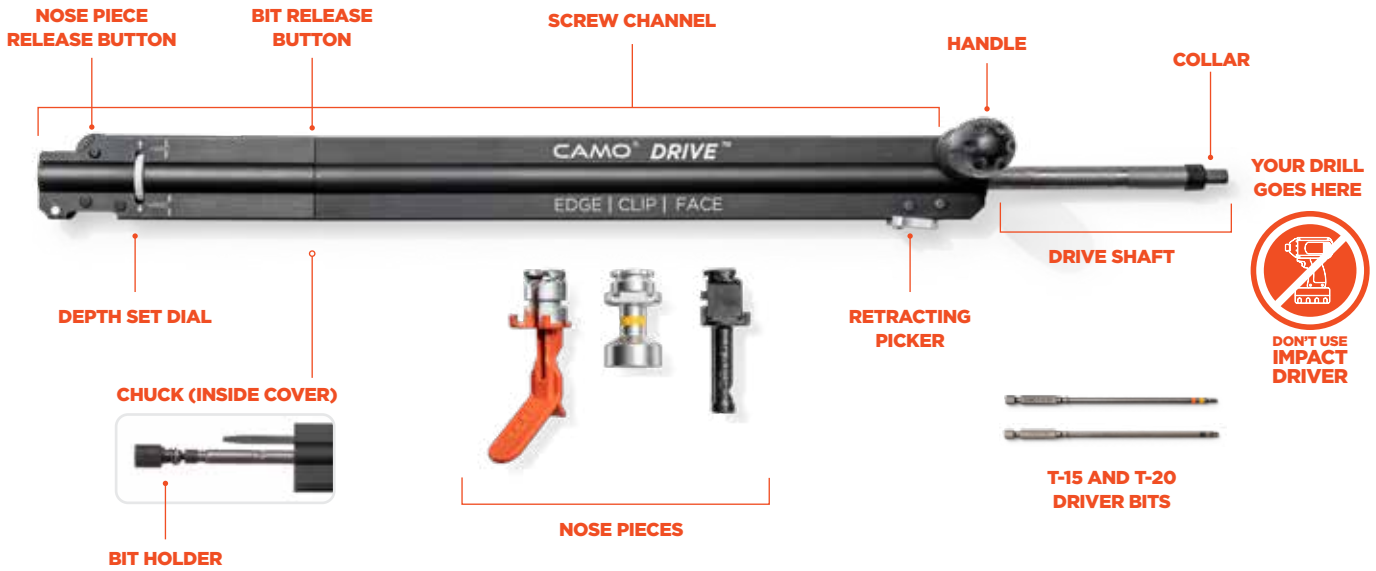
STRUCTURAL

# DRIVE™

Stand up, save your back and knees, and save your time with the award-winning CAMO® DRIVE™ system. The DRIVE tool can be used to fasten almost any board\* while comfortably standing up. DRIVE is for exclusive use with CAMO Universal Deck Clips, and CAMO Collated Edge and Face Screws.

DRIVE	7
EDGE	8
CLIP	10
FACE	12

# Get to know your *DRIVE* tool



## SELECT A NOSE PIECE

	EDGE	CLIP	FACE
Nose Piece			
How It Works			
Compatible Board Profiles	Square	Grooved	Square
Compatible Deck Boards	Pressure Treated Composite PVC Cedar Redwood	Composite PVC Capped Composite Hardwood	Pressure Treated Composite PVC Capped Composite
Compatible Fasteners	Collated Edge Screws	Universal Deck Clips	Collated Composite and Wood Face Screws

\*We do not recommend using the DRIVE tool to Edge fasten capped composites or hardwood as these boards need to be pre-drilled. Instead, use the MARKSMAN Pro® Tool and Edge Screws (p. 31).

## ASSEMBLE THE TOOL



### INSTALL HANDLE

Attach the handle by screwing it onto the bolt at the top of the tool. You can reverse the handle for right or left-handed use by simply loosening the bolt and reinstalling it on the other side of the tool.

# Setup for Edge fastening



## A INSTALL T-15 DRIVER BIT



Using a bit, press the release button in the channel and remove the lower body of the tool.



Position the tool body so the large collar of the drive shaft is on a stable surface.



Pull the body of the tool back with one hand to reveal the bit holder. Continue to hold in place.



Put the T-15 bit in your other hand, pull down on the bit holder, and set the bit in place.



Pull up on the bit holder to ensure the bit is locked in.



Slide the lower tool body over the bit—it will click into position.

## B INSERT EDGE NOSE PIECE



Press the release button.



Insert the Edge nose piece. It will lock into place.

## C ATTACH YOUR DRILL



Make sure the drill is set in the forward position. Insert the large collar of the drive shaft into the drill chuck and tighten.



Set your drill to its highest torque setting.

## D INSERT SCREW STRIP



Slide the collated screw strip into the screw strip channel.



Push the strip through the nose piece.



Slide the picker up.



Push the end of the strip into the picker teeth.

## E TEST & ADJUST SCREW HEIGHT



Before fastening on the deck top, drive a few screws into a scrap piece of material and adjust the depth set dial accordingly. For Edge screws, sink them 1/8-1/4 in. below the surface of the deck board.



# How to Edge fasten

## BEFORE YOU BEGIN

Where Edge fastening with the DRIVE isn't possible, use CAMO Premium Deck or Composite Screws. Go to page 39 for full instructions.

1



### POSITION NOSE PIECE

Starting on the outer edge of the board, line up the nose piece with the joist at least 1 in. from the board end.

2



### ENGAGE DRILL

With the nose piece flat on the surface of the board, and pressure on the DRIVE handle, run the drill at full speed, and push the driver drill down to engage the bit and screw.

3



### FASTEN THE BOARD

Apply steady pressure, but do not force the screw—it will auger the surface on its own. Continue driving until the drill is fully compressed and the depth release disengages.

4



### LIFT DRIVE UP

After fastening, lift up on the DRIVE tool to return your drill to starting position. The screw will automatically advance.

5



### FASTEN EVERY JOIST

Install a screw at every joist on the outer edge of the board.

6



### REPEAT ON OTHER SIDE OF THE BOARD

Follow the same steps to fasten the inside edge of the board.

# Setup for Clip fastening



## A INSTALL T-15 DRIVER BIT



Using a bit, press the release button in the channel and remove the lower body of the tool.



Position the tool body so the large collar of the drive shaft is on a stable surface.



Pull the body of the tool back with one hand to reveal the bit holder. Continue to hold in place.



Put the T-15 bit in your other hand, pull down on the bit holder, and set the bit in place.



Pull up on the bit holder to ensure the bit is locked in.



Slide the lower tool body over the bit—it will click into position.

## B INSERT CLIP NOSE PIECE



Press the release button.



Insert the Clip nose piece. It will lock into place.

## C ATTACH YOUR DRILL



Make sure the drill is set in the forward position. Insert the large collar of the drive shaft into the drill chuck and tighten.



If your drill has a drill and clutch mode, set it to clutch mode. Set your drill to 30% of maximum torque.

# How to Clip fasten



## BEFORE YOU BEGIN

Lay down rows of boards and clips and hold or lock them in place.



## 1 POSITION NOSE PIECE

Starting at the outermost board, place the Clip nose piece over the exposed screw.



## 2 ENGAGE DRILL

With the nose piece flat on the surface of the board, and pressure on the DRIVE handle, run the drill at full speed, and push the driver drill down to engage the bit and screw.



## 3 FASTEN THE BOARD

Apply steady pressure and continue to drive until the drill clutch releases.



## 4 LIFT DRIVE UP

After fastening, lift up on the DRIVE tool to return your drill to starting position.



## 5 FASTEN EVERY JOIST

Fasten all of the remaining clips at each joist.

*\*FIND MORE SPECIFIC INFORMATION ABOUT EACH CLIP TYPE ON PAGES 15-23.*

# Setup for Face fastening



## A INSTALL T-20 DRIVER BIT



Using a bit, press the release button in the channel and remove the lower body of the tool.



Position the tool body so the large collar of the drive shaft is on a stable surface.



Pull the body of the tool back with one hand to reveal the bit holder. Continue to hold in place.



Put the T-20 bit in your other hand, pull down on the bit holder, and set the bit in place.



Pull up on the bit holder to ensure the bit is locked in.



Slide the lower tool body over the bit—it will click into position.

## B INSERT FACE NOSE PIECE



Press the release button.



Insert the Face nose piece. It will lock into place.

## C ATTACH YOUR DRILL



Make sure the drill is set in the forward position. Insert the large collar of the drive shaft into the drill chuck and tighten.



Set your drill to its highest torque setting.

## D INSERT SCREW STRIP



Slide the collated screw strip into the screw strip channel.



Push the strip through the nose piece.



Slide the picker up.



Push the end of the strip into the picker teeth.

## E TEST & ADJUST SCREW HEIGHT



Before fastening on the deck top, drive a few screws into a scrap piece of material and adjust the depth set dial accordingly. For Face screws, you can drive them flush or countersink them.

# How to Face fasten



1



## POSITION NOSE PIECE

Starting on the outer edge of the board, line up the nose piece with the joist at least 1 in. from the board end and edge.

2



## ENGAGE DRILL

With the nose piece flat on the surface of the board, and pressure on the DRIVE handle, run the drill at full speed, and push the driver drill down to engage the bit and screw.

3



## FASTEN THE BOARD

Apply steady pressure, but do not force the screw—it will auger the surface on its own. Continue driving until the drill is fully compressed and the depth release disengages.

4



## LIFT DRIVE UP

After fastening, lift up on the DRIVE tool to return your drill to starting position. The screw will automatically advance.

5



## FASTEN EVERY JOIST

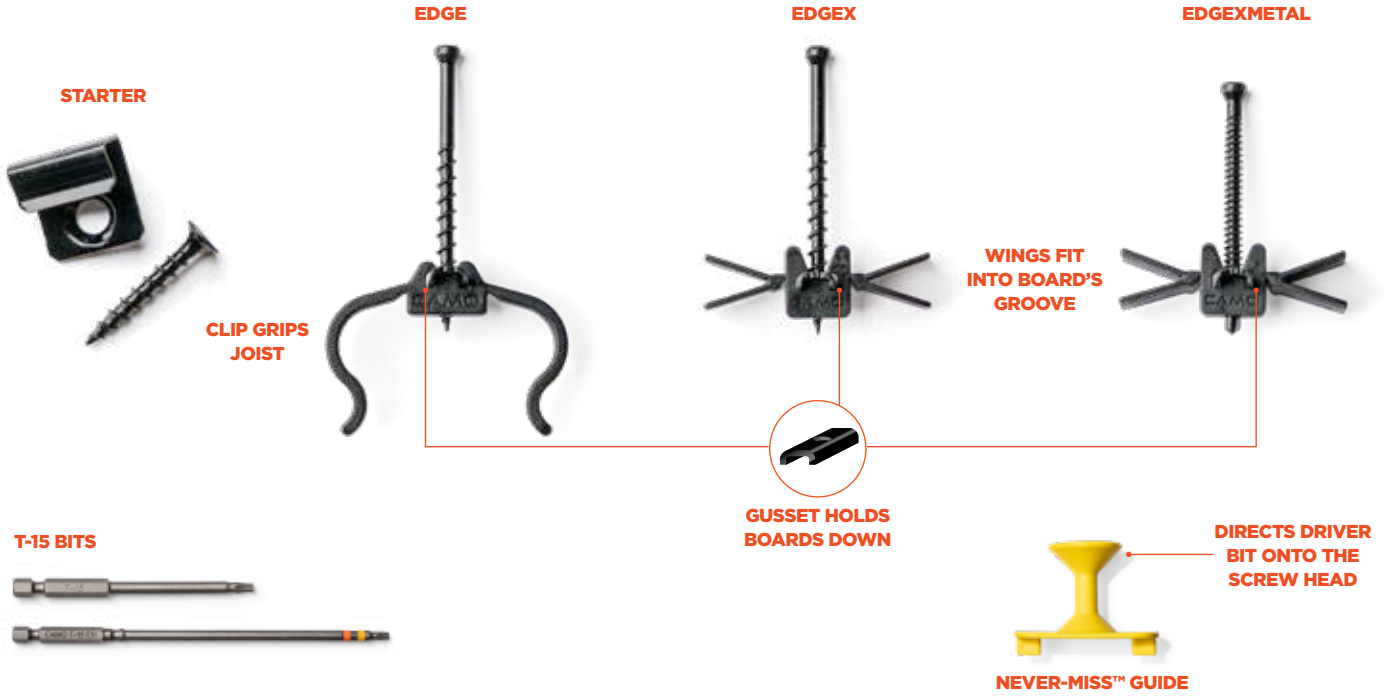
Install two screws at every joist until the entire board is installed.

# UNIVERSAL DECK CLIPS

CAMO Universal Deck Clips make installing grooved decking on wood and metal joists easy for everyone. These hidden deck clips are designed and warranted for use with leading grooved decking and result in a beautiful fastener-free surface that you can install in half the time of other hidden fasteners. Fasten EDGE®, EDGEX®, and EDGEXMETAL® Clips by hand with the included NEVER-MISS™ Guide, or standing up with DRIVE.

<b>INTRODUCTION</b>	<b>15</b>
<b>STARTER</b>	<b>16</b>
<b>EDGE</b>	<b>18</b>
<b>EDGEX</b>	<b>20</b>
<b>EDGEXMETAL</b>	<b>22</b>

# Get to know your Clips



## WHICH CLIPS SHOULD I USE?

CLIP TYPE	90° PATTERNS	ANY PATTERN
	<b>STARTER CLIPS</b>	✓
<b>EDGE CLIPS</b>	✓	X
<b>EDGEX CLIPS</b>	✓	✓
<b>EDGEXMETAL CLIPS</b>	✓	✓

GROOVED BOARD TYPE	
<b>COMPOSITE</b>	✓
<b>PVC</b>	✓
<b>CAPPED COMPOSITE</b>	✓
<b>HARDWOOD</b>	✓

# Setup for STARTER Clips



## A INSERT T-15 BIT



Insert the T-15 driver bit into your drill. Do not use an impact driver.

## B ADJUST DRILL



If your drill has a drill and clutch mode, set it to clutch mode. Set your drill to 30% of maximum torque.



# How to fasten STARTER Clips



1



## FASTEN CLIP ON JOIST

Place clip on the joist, centered with the cross joist, and fasten.

2



## REPEAT

Install a STARTER Clip at every joist.

3



## PLACE BOARD

Tilt board up slightly to set it in the clips.

4



## LAY BOARD DOWN

Gently push the board down to lock it in place.

# Setup for EDGE Clips



## A INSERT T-15 BIT



Insert the T-15 driver bit into your drill. Do not use an impact driver.

## B ADJUST DRILL



If your drill has a drill and clutch mode, set it to clutch mode. Set your drill to 30% of maximum torque.

# How to fasten EDGE Clips



## BEFORE YOU BEGIN

Fasten your first board with CAMO STARTER Clips (p. 17).



1



## PLACE CLIP ON JOIST

Place a clip on the joist with the gusset in the groove. Clips stay in place until you're ready to fasten.

2



## REPEAT ALONG THE BOARD

Place a clip at every joist along the length of the board.

3



## SLIDE ON NEXT BOARD

Place the next board up against the clips, and repeat until you have multiple rows of boards and clips.

4



## LOCK-IN YOUR BOARDS

Hold the boards tightly, or lock them in place with CAMO® LEVER®.



5



## FASTEN WITH NEVER-MISS GUIDE

Starting at the outermost board, place the NEVER-MISS Guide (included) over the screw head, connect the bit to the head and drive. Repeat until all inner boards are fastened.



## OR FASTEN WITH DRIVE (OPTIONAL)

To fasten with DRIVE, starting at the outermost board, put the Clip nose piece over the screw head and drive at full RPM while applying downward pressure. Repeat until all inner boards are fastened. See full instructions on page 10-11.

# Setup for EDGEX Clips



## A INSERT T-15 BIT



Insert the T-15 driver bit into your drill. Do not use an impact driver.

## B ADJUST DRILL



If your drill has a drill and clutch mode, set it to clutch mode. Set your drill to 30% of maximum torque.

# How to fasten EDGEX Clips



## BEFORE YOU BEGIN

Fasten your first board with CAMO STARTER Clips (p. 17).

1



## PLACE CLIP IN GROOVE

Pinch the wings of clip together and slide the clip into the groove. The wings of the clip will expand, holding the clip in place until you're ready to fasten.

2



## REPEAT ALONG THE BOARD

Place a clip at every joist along the length of the board.

3



## SLIDE ON NEXT BOARD

Place the next board up against the clips, and repeat until you have multiple rows of boards and clips.

4



## LOCK-IN YOUR BOARDS

Hold the boards tightly, or lock them in place with CAMO® LEVER®.



5



## FASTEN WITH NEVER-MISS GUIDE

Starting at the outermost board, place the NEVER-MISS Guide (included) over the screw head, connect the bit to the head and drive. Repeat until all inner boards are fastened.



## OR FASTEN WITH DRIVE (OPTIONAL)

To fasten with DRIVE, starting at the outermost board, put the Clip nose piece over the screw head and drive at full RPM while applying downward pressure. Repeat until all inner boards are fastened. See full instructions on page 10-11.

# Setup for EDGEXMETAL Clips



## A INSERT T-15 BIT



Insert the T-15 driver bit into your drill. Do not use an impact driver.

## B ADJUST DRILL



If your drill has a drill and clutch mode, set it to clutch mode. Set your drill to 30% of maximum torque.

# How to fasten EDGEXMETAL Clips



1



## PLACE CLIP IN GROOVE

Pinch the wings of clip together and slide the clip into the groove. The wings of the clip will expand, holding the clip in place until you're ready to fasten.

2



## REPEAT ALONG THE BOARD

Place a clip at every joist along the length of the board.

3



## SLIDE ON NEXT BOARD

Place the next board up against the clips, and repeat until you have multiple rows of boards and clips.

4



## LOCK-IN YOUR BOARDS

Hold the boards tightly, or lock them in place with CAMO® LEVER®.

5



## FASTEN WITH NEVER-MISS GUIDE

Starting at the outermost board, place the NEVER-MISS Guide (included) over the screw head, connect the bit to the head and drive. Repeat until all inner boards are fastened.



## OR FASTEN WITH DRIVE (OPTIONAL)

To fasten with DRIVE, starting at the outermost board, put the Clip nose piece over the screw head and drive at full RPM while applying downward pressure. Repeat until all inner boards are fastened. See full instructions on page 10-11.

CAMO

# LEVER®

Build a better deck by yourself with LEVER®, the one-turn tool that locks-in rows of boards and clips and straightens warped boards.

INTRODUCTION

25

BENDING

26

LOCKING

28

DECK BOARD SIDE

TURN

TURN

DECK BOARD SIDE

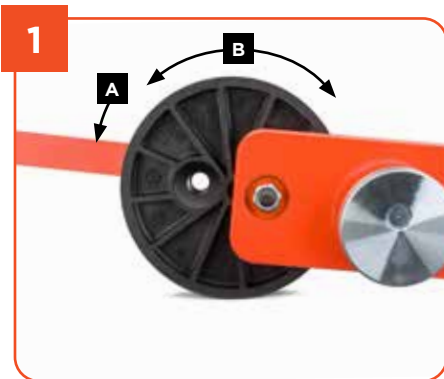
DOUBLE  
JOIST



# Get to know your *LEVER* tool



## ASSEMBLING YOUR TOOL



### ALIGN

A) Straighten the handle.  
B) Align both holes by rotating the board cam.



### INSERT SCREW

Insert flathead screw from the bottom of board cam.



### TIGHTEN

Use supplied hex key to securely tighten the screw.

# Setup for bending boards

## A SET THE JOIST TYPE—WOOD OR METAL



Loosen joist knob until the stop block disengages.



Rotate the stop block to the desired side, align the block with the holes, push back into place, and tighten the joist knob.

## B SET THE JOIST WIDTH



Adjust the stop block to the proper joist width and tighten the knob.



The Single Joist setting accommodates joists 1-½ in. wide. The Double Joist setting accommodates joists 3 in. wide.

# How to bend boards



1



## SECURE BOARD

Get your board in place and fasten one end.

2



## POSITION

Place LEVER on the joist at the opposite end of the board and tighten the joist cam with the pivot pin.

3



## BEGIN BENDING

Apply pressure by moving the handle towards the deck board.

4



## CLOSE THE GAP

Keep turning until the board is in desired fastening position.

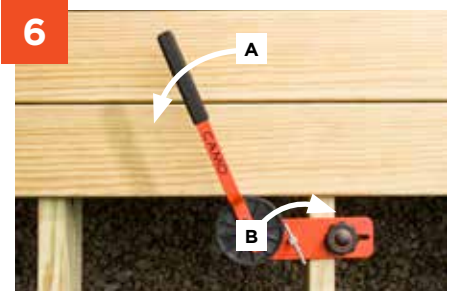
5



## FASTEN

Fasten the board.

6



## RELEASE & REMOVE

A) Release pressure by moving the handle away from the deck board.  
B) Loosen the joist cam and remove LEVER.

# Setup for locking boards and Clips

## A SET THE JOIST TYPE—WOOD OR METAL



Loosen joist knob until the stop block disengages.



Rotate the stop block to the desired side, align the block with the holes, push back into place, and tighten the joist knob.

## B SET THE JOIST WIDTH



Adjust the stop block to the proper joist width and tighten the knob.



The Single Joist setting accommodates joists 1-½ in. wide. The Double Joist setting accommodates joists 3 in. wide.

# How to lock boards

For the best experience with consistent board spacing, use 2-4 LEVER tools across the length of the deck.

1



## PREPARE BOARDS

Lay down multiple rows of boards and CAMO Universal Deck Clips.

2



## POSITION

Place LEVER on the joist and tighten the joist cam with the pivot pin.

3



## LOCK-IN

Apply pressure by moving the handle towards the deck board. Do not over-tighten as the boards can buckle.

4



## FASTEN

Leave LEVER in place until all clips are fastened.

5



## RELEASE

Release pressure by moving the handle away from the deck board.

6



## REMOVE

Loosen the joist cam and remove LEVER.

**CAMO**<sup>®</sup>  
The Better Way to Build a Deck