

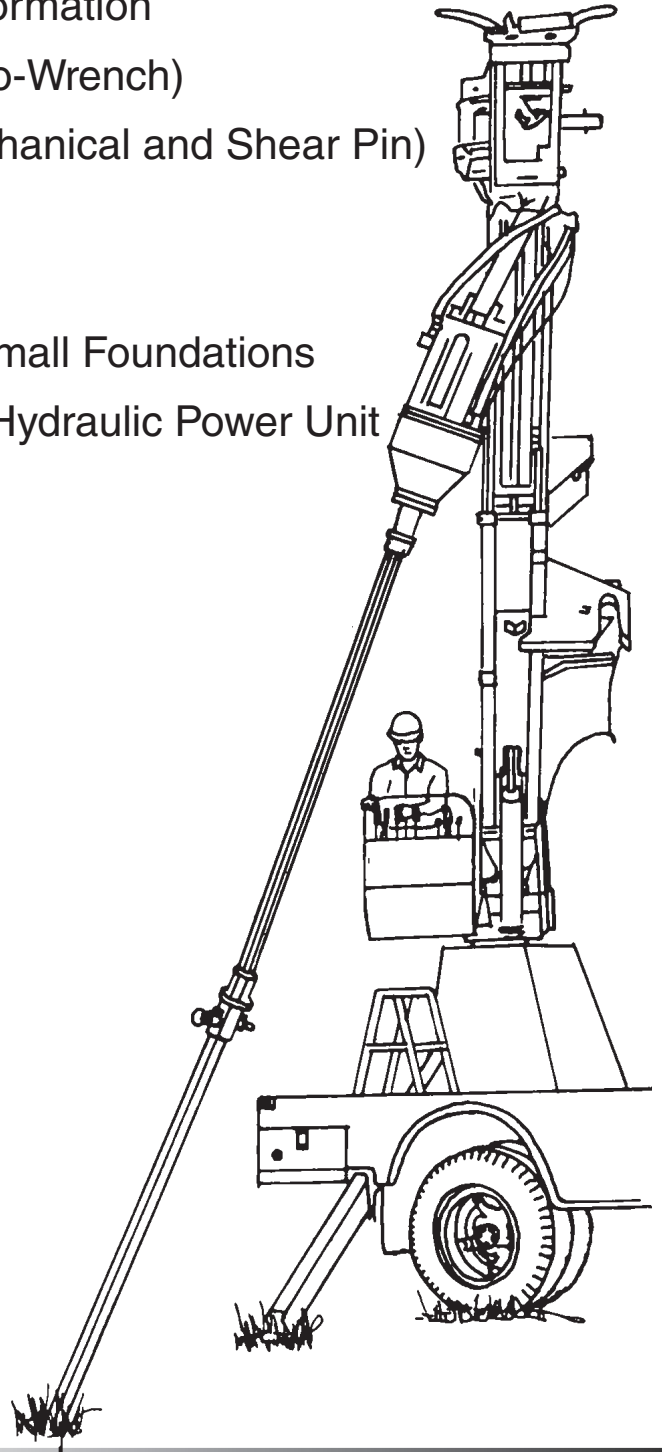
# CHANGE<sup>®</sup>

## Anchor Tools

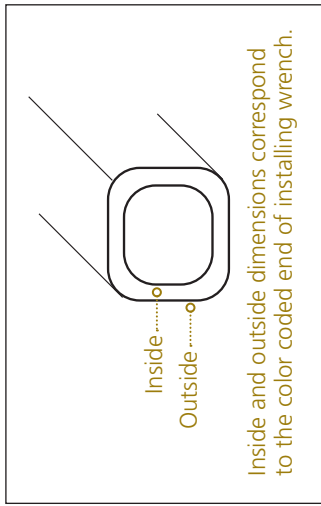
**Catalog 4A February 2018**

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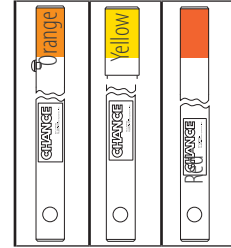
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# HOW TO MATCH ANCHORS AND INSTALLING WRENCHES



Installing Wrench Catalog Number	Length ft	Maximum Installing Torque Rating ft-lb	Outside Dimension Inches	Inside Dimension Inches
C102-1583 <sup>(1)</sup>	7	10,000	2.16	1.46
C102-1595 <sup>(1)</sup>	3½	10,000	2.16	1.46
C303-1064 <sup>(1)</sup>	7	10,000	2.44	1.54
C303-1063 <sup>(1)</sup>	3½	10,000	2.44	1.54
C303-0983 <sup>(2)</sup>	7	15,000	2.44	1.54
C303-0982 <sup>(2)</sup>	3½	15,000	2.44	1.54



Anchor Type	Maximum Installation Torque Rating ft-lb	Wrench Color
C102-50XX Series Tough One Anchor - Large Hub	15,000	Orange
C102-50XX Series Tough One Anchor - Large Hub	10,000	Yellow
C102-52XX Series Tough One Anchor - Small Hub	10,000	Orange
C102-52XX Series Tough One Anchor - Small Hub	8,000	Orange
Mid-Strength PISA Anchor	6,000	Orange
Standard-Strength PISA Anchor	4,000	Orange
PISA 7 Anchor	7,000	Yellow
PISA 6 Anchor (formerly PISA 5 Anchor)	6,000	Red

(1) Fits Locking Dog Assembly CC303-0069HD.  
(2) Fits Locking Dog Assembly CC303-0981.

## STANDARD and HYBRID PISA® Anchor Installing Tools (For installing torques up to 10,000 ft.-lb.)

A complete tool system consists of: Kelly bar adapter, torque indicator, locking dog assembly and drive-end assembly. For instructions for selecting the proper Kelly bar adapter, see page 4A-5.

### • Convertible to Extension Use

Extension assemblies can be added where soil conditions

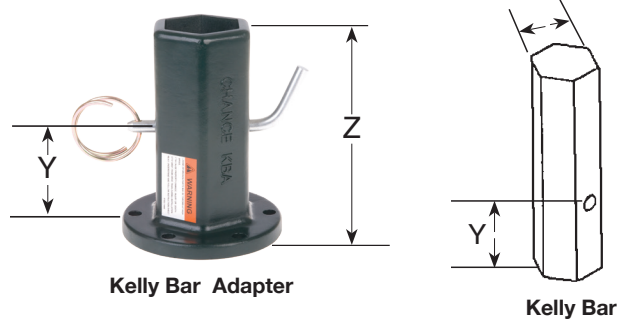
#### STANDARD Kelly Bar Adapter with Bent Arm Pin (5 1/4" Bolt Circle)

Part No.	Kelly Bar Shape	Kelly Bar Dimension			Wt. ea., lb.
		X	Y	Z	
630013	Hex	2"	5"	6 1/8"	10
630011HD	Hex	2 1/2"	4 1/4"	8 1/8"	18
630012HD	Hex	2 5/8"	4 1/4"	8 1/8"	18
630015	Square	2 1/2"	2 3/4"	7"	13 1/4
630017	Square	2 1/2"	2 1/2"	3 1/2"	9

dictate that anchors be set more than one rod length deep or where digger to ground clearances are limited.

### • Transmits Torque to Anchor Core

The wrench transmits the torque from the Kelly bar of the digger to the hub of the Power-Installed Screw Anchor so that the anchor rod need be only large enough in diameter to support the guy load.

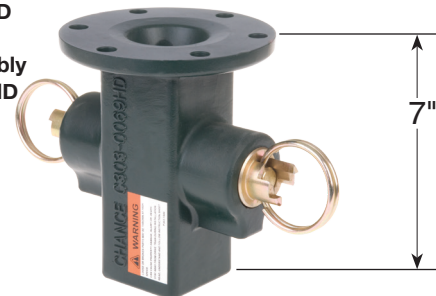


Each STANDARD Kelly bar adapter has six holes for 1/2" bolts on a 5 1/4" bolt circle and comes with six 1/2" Grade 5 bolts, nuts, lock washers and bent arm pin with coil lock.

P0010259P	Hex Bolt
055371P	Lockwasher
055635P	Hex Nut

Cat. No.	Description	Wt. ea.
C3030069HD	Complete STANDARD Locking Dog Assembly	20 lb.
C3030070	Locking Dog Replacement Kit includes parts needed to replace both locking dogs	4 lb.
P1300007P	Replacement Ring Only	0.10 lb.

#### STANDARD Locking Dog Assembly C3030069HD



STANDARD Locking Dog Assembly has six holes for 1/2" bolts on a 5 1/4" bolt circle, comes with six 1/2" Grade 5 bolts, nuts and lock washers.

C1021583	STANDARD Drive-End Wrench installs 8,000 ft.-lb. (small hub) TOUGH ONE® anchors, 10,000 ft.-lb. (small hub) TOUGH ONE® anchors, 4,000 ft.-lb. Standard-Strength PISA anchors, 6,000 ft.-lb. Mid-Strength PISA anchors	57 lb.	7' Long
†C3031064	HYBRID Drive-End Wrench installs 10,000 ft.-lb. (large hub) TOUGH ONE® anchors, 6,000 ft.-lb. PISA 6 anchors, 7,000 ft.-lb. PISA 7 anchors	64 lb.	7' Long

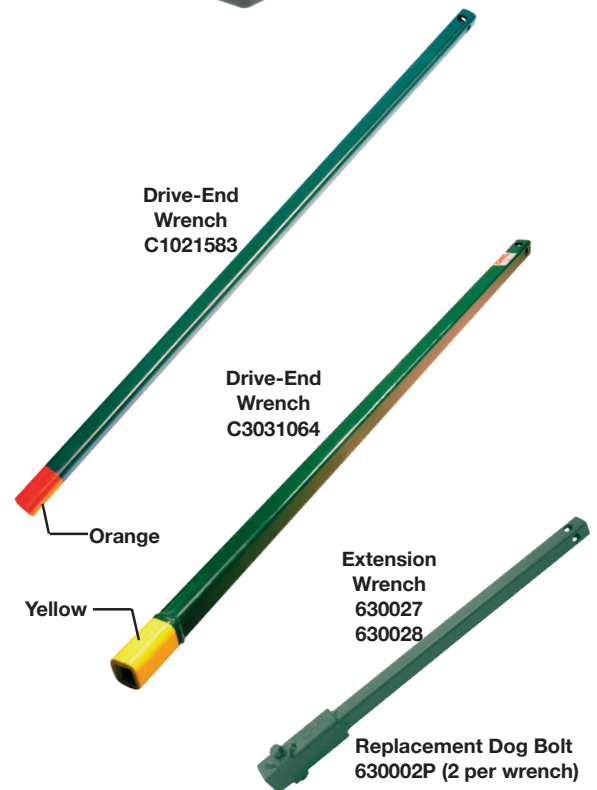
C1021595	STANDARD Drive-End Wrench installs 8,000 ft.-lb. (small hub) TOUGH ONE® anchors, 10,000 ft.-lb. (small hub) TOUGH ONE® anchors, 4,000 ft.-lb. Standard-Strength PISA anchors, 6,000 ft.-lb. Mid-Strength PISA anchors	29 lb.	3.5' Long
†C3031063	HYBRID Drive-End Wrench installs 10,000 ft.-lb. (large hub) TOUGH ONE® anchors, 6,000 ft.-lb. PISA 6 anchors, 7,000 ft.-lb. PISA 7 anchors	28 lb.	3.5' Long

#### Extension Wrench

630027	3 1/2-ft. Extension	42 lb.
630028	7-ft. Extension	70 lb.

\*NOTE: These wrenches will fit 15,000 ft.-lb. TOUGH ONE® anchors dimensionally, but . . . MUST NOT be used for TORQUES IN EXCESS of 10,000 ft.-lb.!

\*NOTE: The old-style HYBRID wrenches C3031063 and C3031064, having a collar welded around the drive end, fit only PISA 6 and PISA 7 anchors.



# SCREW ANCHOR DRIVE TOOL STRINGS

Selecting the correct Kelly Bar Adapter is key to building a successful Drive String.  
Follow these two easy steps:

- 1) Remove the auger from the digger and carefully measure the X and Y dimensions of the Kelly bar.
- 2) Match the shape of the Kelly bar and the X and Y dimensions with the Kelly bar adapter chart provided on page 4A-4 or 4A-6. The Y dimension on the Kelly bar adapter must be equal to or greater than the "Y" dimension on the Kelly bar itself.

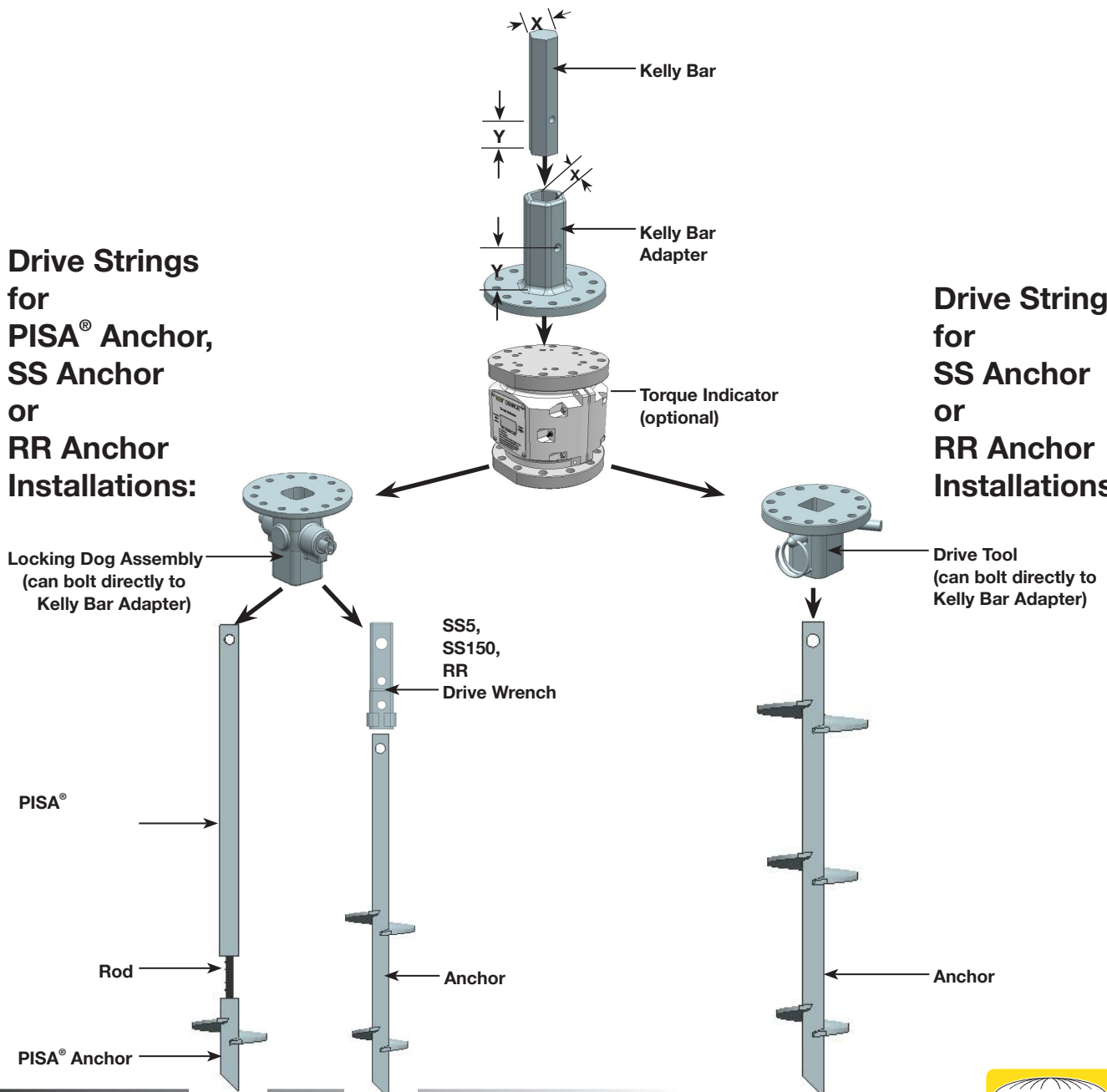
### A Note about Bolt Circles

Chance anchor installing tools are provided with appropriate bolt circles for the expected service. The torque limitations for the three standard bolt circles are give below. **Never exceed the rated torque of any Chance installing tool.**

Bolt Circle	Use for Torque up to
(6) 1/2" Grade 5 bolts on 5 1/4" Bolt Circle	10,000 ft.-lb.
(6) 5/8" Grade 2 bolts on 7 5/8" Bolt Circle	15,000 ft.-lb.
(12) 5/8" Grade 2 bolts on 7 5/8" Bolt Circle	20,000 ft.-lb.

**Drive Strings  
for  
PISA<sup>®</sup> Anchor,  
SS Anchor  
or  
RR Anchor  
Installations:**

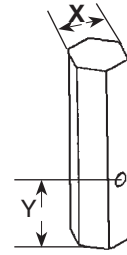
**Drive String  
for  
SS Anchor  
or  
RR Anchor  
Installations:**



## TOUGH ONE® Anchor Installing Tools

(For installing torques up to 15,000 ft.-lb.)

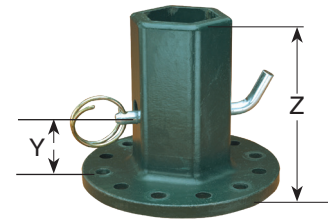
A complete tool system consists of: Kelly bar adapter, torque indicator, locking dog assembly and drive-end assembly. For instructions for selecting the proper Kelly bar adapter, see page 4A-5.



### TOUGH ONE Kelly Bar Adapter with Bent Arm Pin (7<sup>5</sup>/<sub>8</sub>" Bolt Circle)

Part No.	Kelly Bar Shape	Kelly Bar Dimensions			Weight, lb.	5 <sup>5</sup> / <sub>8</sub> " Gr. 2 Bolts Included	Bent Arm Pin Included
		X	Y	Z			
C3030936	Hex	2 <sup>1</sup> / <sub>2</sub> "	3 <sup>7</sup> / <sub>8</sub> "	8 <sup>1</sup> / <sub>4</sub> "	23	12	C3031223
C3030937	Hex	2 <sup>5</sup> / <sub>8</sub> "	3 <sup>7</sup> / <sub>8</sub> "	8 <sup>1</sup> / <sub>4</sub> "	23	12	C3031223
C3030940	Hex	3"	4 <sup>1</sup> / <sub>2</sub> "	8"	27	12	C3031222
C3030955	Square	2 <sup>1</sup> / <sub>2</sub> "	4 <sup>3</sup> / <sub>4</sub> "	7"	22	12	C3031227
C3030958	Square	3"	3 <sup>1</sup> / <sub>2</sub> " & 2 <sup>1</sup> / <sub>16</sub> "	7"	23	12	C3031227
C3031571	Square	3 <sup>1</sup> / <sub>2</sub> "	2' & 4"	6 <sup>11</sup> / <sub>16</sub> "	33	12	C3031227

Each TOUGH ONE® Kelly bar adapters has twelve holes for 5<sup>5</sup>/<sub>8</sub>" bolts on a 7<sup>5</sup>/<sub>8</sub>" bolt circle, comes with twelve 5<sup>5</sup>/<sub>8</sub>" Grade 2 bolts, nuts & lockwashers and bent arm pin with coil lock.



**Kelly Bar Adapter**

Hex Bolt	056653P
Lockwasher	055827P
Hex Nut	055803P

### \*Digital Torque Indicator

Catalog No.	Description	Wt., lb.
C3031689	Torque Indicator adaptable to 5 <sup>1</sup> / <sub>4</sub> " B.C. or 7 <sup>5</sup> / <sub>8</sub> " B.C.	65

\*See page 4A-9 for additional information on Chance Torque Indicators.



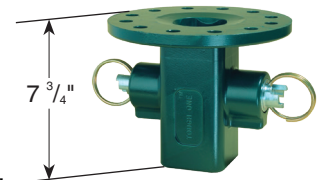
**\*Torque Indicator**

### TOUGH ONE Locking Dog Assembly

Catalog No.	Description	Wt., lb.
C3030981	Complete TOUGH ONE Locking Dog Assembly	28
C3031026	Locking Dog Replacement Kit Includes all parts less casting, bolts, nuts, washers	5

TOUGH ONE locking dog assembly has twelve holes for 5<sup>5</sup>/<sub>8</sub>" bolts on a 7<sup>5</sup>/<sub>8</sub>" bolt circle and comes with twelve 5<sup>5</sup>/<sub>8</sub>" Grade 2 bolts, nuts and lockwashers.

Hex Bolt	056653P
Lockwasher	055827P
Hex Nut	055803P



**Locking Dog Assembly**

### TOUGH ONE Drive-End Wrenches

Catalog No.	Length	Description	Wt., lb.
C3030982	3 <sup>1</sup> / <sub>2</sub> ft.	Installs 15,000 ft.-lb. (large hub) TOUGH ONE®	36
C3030983	7 ft.	Anchors, 10,000 ft.-lb. (large hub) TOUGH ONE® and all 1 <sup>1</sup> / <sub>2</sub> " Core Anchors	73

TOUGH ONE® drive ends are painted with a red band on the bottom.

**Drive Wrench**



### Extension Assemblies for TOUGH ONE Drive-End Wrench

Catalog No.	Length	Description	Wt., lb.
C3030987	3 <sup>1</sup> / <sub>2</sub> ft.	Extension attaches to drive-end wrench	53
C3030988	7 ft.	when additional depth is required.	89

For SS and RR Anchor Tool options when using the TOUGH ONE® Drive String System, see page 4A-8.



# ANCHOR INSTALLING TOOL

Use with STANDARD and TOUGH ONE® Kelly bar adapters, SS, RR and bumper post installing tools

Each Chance plated-steel Bent Arm pin is designed to attach a Kelly bar adapter to a Kelly bar. Also used to secure SS, RR and bumper post anchors to anchor drive tools.

Bent Arm Pins with Coil Locks are included with new tools as required. Order Pins and Coil Locks for existing tools as shown below.



### ORDERING INFORMATION

Kelly Bar Adapter	Bent Arm Pin and Coil Lock Assembly	SS/RR Tools	Bent Arm Pin and Coil Lock Assembly
*630010	C3031227	639001	C3031226
*630011	C3031223	C3030195	C3031225
630011HD	C3031223	C3030201	C3031224
*630012	C3031223	C3030202	C3031224
630012HD	C3031223	C3030020	C3031226
630013	C3031223	T3031403	C3031225
630013A	C3031223	C3031077	C3031224
630014	C3031222		
630015	C3031222		
630016	C3031227		
630017	C3031227		
C3030936	C3031223		
C3030937	C3031223		
C3030940	C3031222		
C3030955	C3031227		
C3030958	C3031227		
C3031571	C3031227		

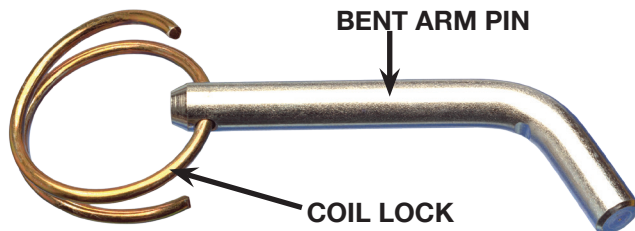
  

Bumper Post Tools	Bent Arm Pin and Coil Lock Assembly
C3030737	C3031227
C3030739	C3031227

**▲ WARNING**

**Chance Bent Arm Pins with Coil Locks are the only tested and approved means for through-pin attachment of drive tools. Do not attempt to use any other means of attachment.**

\*Old-style Kelly Bar Adapters, no longer available.



To order Coil Lock only, order Part No. P3031215P.

Bent Arm Pin and Coil Lock Assembly	Size
C3031226	3" x 5/8"
C3031225	3 1/2" x 3/4"
C3031224	4 1/2" x 1"
C3031227	5" x 3/4"
C3031223	4 1/2" x 1/2"
C3031222	5" x 5/8"

**▲**

**Always use the approved combination of Coil Locks and Bent Arm Pins. Never attempt to use any other combinations, such as hair pins, cotter keys, etc., with Bent Arm Pins.**

## DRIVE TOOLS

### FOR INSTALLING SS OR RR ANCHORS

These tools include our proprietary Alignment Window that helps reduce chance of finger pinch when anchor is inserted into tool. Alignment Window also makes it faster and easier to line up the anchor and anchor tool.

These drive tools require the appropriate Kelly bar adapter, sold separately. Each comes with bolts, nuts and lockwashers.



639001



C3030020



C3031650



E3030255

Cat. No.	Anchor Family	Bolt Circle	Approx. Wt., lb.
639001	SS5/SS150/RR Drive Tool	(6) 1/2" holes on 5 1/4" B.C.	7
C3030195*	SS175 Drive Tool	(12) 5/8" holes on 7 5/8" B.C.	18
C3030201*	SS200 Drive Tool	(12) 5/8" holes on 7 5/8" B.C.	30
C3030202*	SS225 Drive Tool	(12) 5/8" holes on 7 5/8" B.C.	30

\*Requires use of T3030166 adapter, and limited to 10,000 ft.-lb., when used with STANDARD Kelly bar adapter (with a 5 1/4" bolt circle).

These tools slide into locking dog adapter and are retained by spring loaded dogs.

Cat. No.	Anchor Family	Unit fits:	Approx. Wt., lb.
C3030020	SS5/SS150/RR Drive Tool	STANDARD Locking Dog Assembly	8
C3031035		TOUGH ONE® Locking Dog Assembly	11
T3031403	SS175 Drive Tool		26
C3031077	SS200 Drive Tool	TOUGH ONE® Locking Dog Assembly	23

Each of these drive tools includes an integral set of locking dogs that attach the drive tool to the anchor. There is no need to use bent arm pin and coil lock to attach these tools to an anchor.

These drive tools require the appropriate Kelly bar adapter, sold separately. Each comes with bolts, nuts and lockwashers.

Cat. No.	Anchor Family	Bolt Circle	Approx. Wt., lb.
C3031650	SS5/SS150 Drive Tool with Locking Dogs	(6) 1/2" holes on 5 1/4" B.C.	10
C3031645	SS175 Drive Tool with Locking Dogs	(12) 5/8" holes on 7 5/8" B.C.	21

### TOOL FOR INSTALLING NO-WRENCH ANCHORS AND MANUAL FOUNDATIONS

Especially designed for use with the Chance portable anchor installer. This tool bolts directly to the installer's output flange or Kelly bar adapter having six 1/2" dia. holes on a 5 1/4" bolt circle. Adjustable pivoting plates accept rods from 3/4" to 1 1/4" diameter.

For manually-installed foundations, eyenut must be temporarily installed for installation. Has four holes on 5 1/4" bolt circle for attachment. Includes four 1/2" x 1 1/2" bolts, nuts and lockwashers.

Cat. No.	Weight, lb.
E3030255	9



# CHANCE TORQUE INDICATORS

## DIGITAL TORQUE INDICATOR

Using the Wireless Chance® Torque Indicator, you can install screw anchors to a pre-determined torque value, which gives a positive indication of anchor holding capacity in any soil type.

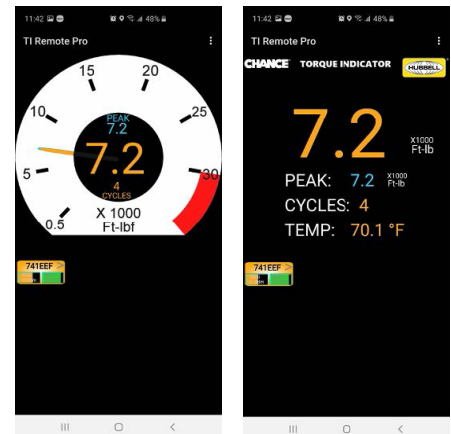
The Indicator mounts between the Kelly bar adapter and drive tool (or locking dog assembly). The LCD display is easy to read in full daylight and gives the operator a direct readout of installation torque at all times.

### Features and Benefits

- Measuring torque is the most accurate way to determine the capacity of helical piles and anchors
- Torque is displayed on Base Unit and transmitted via Bluetooth® to Android and iOS phones and smart devices
- Multiple Bluetooth display devices can be linked to Base Unit
- Download free Torque Indicator Remote Pro app from Apple App Store or Google Play Store
- Torque Indicator Remote Pro app allows torque readings to be sent via email to be downloaded
- Certificate of Calibration supplied with each new unit in case
- Operational temperature range: -30° to 70°C (-22° to 158° F)
- Measures torque up to 30,000 ft-lb
- Accuracy: ±500ft-lb at any reading
- Torque is measured using strain gauges mounted inside the Base Unit.
- No shear pins to replace
- Powered by two standard 9V batteries
- Solid one-piece spool design to withstand most bending loads.
- Top and bottom flange, each provides six holes tapped 1/2" - 13 on a 5-1/4" bolt circle and twelve holes tapped 5/8" - 11 on a 7-5/8" bolt circle.



Base Unit



Digital Display

Catalog No.	Description
C3031836	Torque Indicator Base Unit



## SHEAR PIN TORQUE LIMITER

Catalog No. C3030044

For Installing torques up to 10,000 ft.-lb.

Offers: Protection for anchors and installing tools by disconnecting the power when the installing torque reaches a preselected level.

Useable in very rocky soil.

Durable — does not require special storage or handling.



Top and bottom each has six holes tapped 1/2" - 13 on a 5 1/4" bolt circle.

Catalog Number	Description	Wt., lb.
C3030044	Shear Pin Torque Indicator	54
*C3030045	One Carton of Shear Pins (Approx. 1700 pins)	50
*T3031420	One Box of Shear Pins (Approx. 510 pins)	15

\*Each Shear Pin provides 500 ft.-lb. of torque.

## SOIL TEST PROBE



### • Determine soil conditions without taking core samples

The Chance Soil Test Probe is a mechanical instrument which enables the operator to determine the condition of the sub-soil without core samples. A ratchet-handle torque wrench which slides up and down on the shaft is used to install or retract the probe. Torque wrench readings, in inch-pounds, provide a way to measure the consistency of the sub-soil. The torque values obtained are translated into soil classifications using the Chance Soil Classification Table (see below) located on the inside flap of the carrying case.

Torque readings are taken at the depth to which an anchor is to be installed, and at least 2 feet above this depth because the average earth consistency 2 to 3 feet above the anchor determines the anchor holding capacity. The probe shaft is marked at 1-foot intervals permitting soil evaluation at every foot of depth.

The length of the Soil Test Probe (including helix) is 5 feet. Each shaft coupled to the probe provides an additional 5 feet. A durable carrying case protects the equipment when not in use.

### ORDERING INFORMATION

#### Soil Test Probe 1800 in.-lb. Capacity

Cat. No.	Description	Length	Weight
C3090032	Probe w/3 5-ft. extensions	20'	21 <sup>1</sup> / <sub>2</sub> lb.

#### Accessories

Catalog No.	Description	Weight
C3090033	5-ft. extension only	3 lb.

Class	Common Soil-Type Description	Geological Soil Classification	Probe Values ft.-lb. (NM)	Typical Blow Count "N" per ASTM-D1586
N.A.	Sound hard rock, unweathered (bedrock)	Granite, Basalt, Massive Limestone	N.A.	N.A.
1	Very dense and/or cemented sands; coarse gravel and cobbles	Caliche, (Nitrate-bearing gravel/rock),	over 60 (85 - 181)	60-100+
2	Dense fine sands; very hard silts and clays (may be preloaded)	Basal till; boulder clay; caliche; weathered laminated rock	over 50 (68 - 85)	45-60
3	Dense sands and gravel; hard silts and clays	Glacial till; weathered shales, schist, gneiss and siltstone	42 - 50 56 - 68	35-50
4	Medium dense sand and gravel; very stiff to hard silts and clays	Glacial till; hardpan; marls	33 - 42 (45 - 56)	24-40
5	Medium dense coarse sands and sandy gravels; stiff to very stiff silts and clays	Saprolites, residual soils	25 - 33 (34 - 45)	14-25
6	Loose to medium dense fine to coarse sands to stiff clays and silts	Dense hydraulic fill; compacted fill; residual soils	17 - 25 (23 - 34)	7-14
**7	Loose fine sands; Alluvium; loess; medium - stiff and varied clays; fill	Flood plain soils; lake clays; adobe; gumbo, fill	8 - 17 (11 - 23)	4-8
**8	Peat, organic silts; inundated silts, fly ash very loose sands, very soft to soft clays	Miscellaneous fill, swamp marsh	under 8 (0 - 11)	0-5

Class 1 soils are difficult to probe consistently and the ASTM blow count may be of questionable value.

\*\*It is advisable to install anchors deep enough, by the use of extensions, to penetrate a Class 5 or 6, underlying the Class 7 or 8 Soils.



**BOLT CIRCLE ADAPTERS  
(For torques up to 10,000 ft.-lb.)**

These adapters are used to connect two tools having incompatible bolt circles. The C3030115 is for use between two tools having tapped 5 1/4" bolt circles.

The T3030166 is for use between a tool having a 5 1/4" bolt circle and one having a 7 5/8" bolt circle.

Both are limited to 10,000 ft.-lb.



C3030115



T3030166

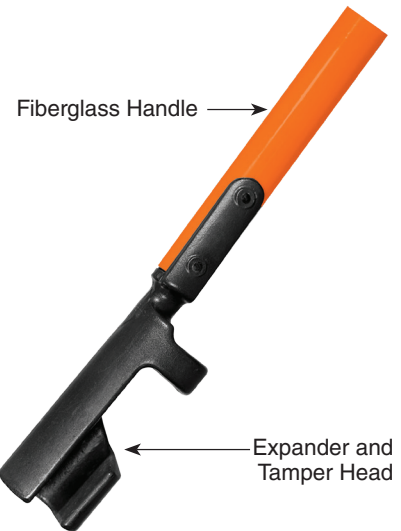


T3030166N

C3030115	Description	Wt., lb.
T3030166	Bolt circle adapter with two 1/2" x 5 1/4" bolt circles	11
T3030166	Bolt circle adapter with one 1/2" x 5 1/4" bolt circle and one 5/8" x 7 5/8" bolt circle	18
T3030166N	Bolt circle adapter with one 1/2" x 5 1/4" bolt circle and one 5/8" x 7 5/8" bolt circle on one steel plate. Note: Cannot be used with shear pin limiter	10

**EXPANDING & TAMPING BAR**

The Chance fiberglass handle Expanding and Tamping Bar simplifies the job of expanding anchors. The curved Expander and Tamper Head distributes the weight of the bar evenly around the anchor rod to reduce handle vibration. The hook of the Expanding and Tamping Bar wraps around the anchor rod to keep the expanding head from slipping off the anchor top plate. This tool is also effectively used for tamping in soil above the installed anchor. The base casting is attached directly to the fiberglass handle.



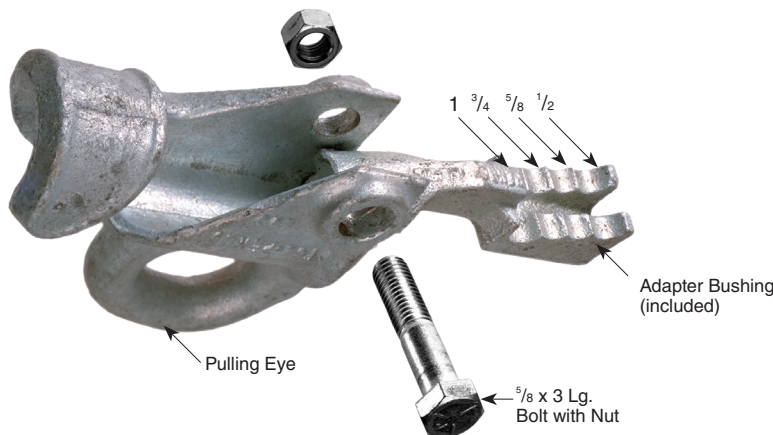
Cat. No.	Description	Length	Weight
C3020003	Expanding & Tamping Bar	10'	22 lb.
C3020004	Expanding & Tamping Bar	12'	24 lb.
*E3020001P	Fiberglass Handle	10'	7 lb.
*E3020006P	Fiberglass Handle	12'	8 lb.
P3020002P	Expander and Tamper Head	N/A	14 lb.

\*Includes plug mix to reset handle.

This inexpensive cost-cutter provides a large offset eye to accommodate three-ton chain hoist hooks, and leaves the anchor eye free with plenty of clearances for attaching formed wire grips. By removing the Adapter Bushing, the E96 Pulling Eye fits 1 1/4" rods. The E96 Pulling Eye is inexpensive and easy to use. One person can assemble and hook up in minutes.

For working loads to approximately 6,000 pounds (ultimate strength — 18,000 pounds).

Catalog No.	Description	Weight
E96	Pulling Eye, Bolt, Nut	5 lb.
C3031661	Bolt, Nut, Adapter	1 lb.



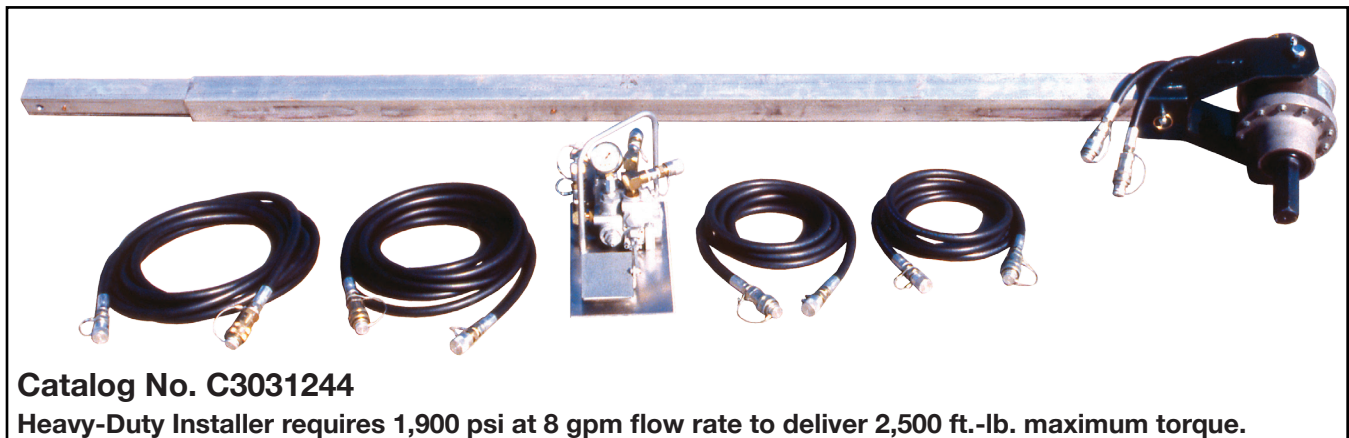
# Portable Anchor Installers for small foundations

**2,500 ft.-lb. torque capacity hydraulic power drive**

**Economical manual operation and portability  
for remote sites, common anchor installations**

For most shaft-driven guy anchors and smaller screw foundations, these compact drivers get into areas where large equipment cannot go or is impractical. Operator does not need to resist the torque generated by anchor installation. Countertorque transmits through a torque bar from the drive head to the earth or other restraint. This frees the operator for the task of guiding the anchor path.

Built-in bypass valve limits output to 2,500-ft.-lb. maximum, two-way foot pedal gives operator direct control over drive and reverse directions, hoses (two 12-ft. and two 25-ft.) come with quick couplers for all connections from power supply to foot control to drive head. Pivoting drive-head yoke connects with bent-arm pin to square-tubular torque bar which telescopes from 8 feet to 10 feet as needed.



# 2,500 ft-lb Portable Anchor Installers

## Heavy Duty – Catalog No. C3031244

Sealed oil-filled gear case. Single Catalog Number above includes all items below. Each item also may be ordered by separate number.

* Hydraulic Control Valve	C3031247
Two 25-ft. Hydraulic Hoses	C4176121 (each)
* Hydraulic Drive Head	C3031233
Yoke Assembly	E3030680
* Two 12-ft. Hydraulic Hoses	E3031253 (pair)
Square Torque Bar Assembly	E3031041

Output Shaft is 2" Hex. - Requires Kelly Bar Adapter 630013 and flanged drive tool (order separately) to install all anchors.

## Optional Hydraulic Power Unit Catalog No. C3031201

For easy wheeling to worksite, hydraulic drive head and foot control secure by rubber strap included to angle braces atop the cart frame and hoses ride on handles.

Cart-mounted on  $\frac{5}{8}$ "-diameter axle with two 4.80 x 8 inflatable (30psi) tires; 27 $\frac{1}{4}$ " wide x 34 $\frac{1}{2}$ " high x 36" long; shipping weight with oil: 275 lb.

Hydraulic Pump with fan cooling system:

Typical output pressure 2500psi  
 Pump displacement 8 gpm @ 3400rpm  
 Reservoir capacity 5 gallons US  
 (shipping cap and vented fill cap provided)

Gasoline Engine System:

16hp Briggs & Stratton  
 Industrial/Commercial Model 326437, Type 2527  
 12-Volt pushbutton start, 3600rpm (maximum)

Operating instructions are included with anchor installer and hydraulic power unit.

Drive head and foot control shown in photo are not included with C3031201









# HUBBELL<sup>®</sup>

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