

Nylon Danger Flag

Red nylon Tricot mesh
Will not ravel or rot
Fade resistant, withstands highway speed
18" x 18", 6 flags per bundle

18" Red Danger Flag..... 80-1005



Nylon Danger Flag and Clip Set

Red nylon Tricot mesh
Will not ravel or rot
Fade resistant, withstands highway speed
18" x 18", with plastic clip
2 sets per bundle

18" Red Danger Flag with Clip..... 80-10055



Nylon Danger Flag with Hardwood Staff

Red nylon Tricot mesh
Will not ravel or rot
Fade resistant, withstands highway speed
18" x 18" flag
3/4" x 30" hardwood dowel

18" Red Danger Flag on Staff..... 80-1004



Oversize Load Sign

Yellow Nylon Material
Weather resistant
Withstands highway speed
18" x 84"
12" letter height

Oversize Load Sign..... 80-1000N



Transport and Setup Towing

Oversize Load Sign

Yellow Canvas Material
Weather resistant
Withstands highway speed
18" x 84"
12" letter height



Oversize Load Sign..... 80-1000Y

Wide / Oversize Load Sign

Electro-Galvanized steel sign
Baked enamel finish
Reversible



Oversize Load Sign..... 80-1003Y

Plastic Flag Clips

Plastic clips attach flags to mobile home
Flexible, will not scratch or mar surface
1-3/4" x 3/4"



Flag Clip..... 80-1007

Shock Cord

Durable rubber construction
Attach flexible signs to home for transport
18" length



Shock Cord..... 80-1008

Venture Coupler

Fits top and/or bottom mount A-frame
1/4" welded steel construction
Corrosion protected without paint
FEMA approved
12,500 lb tongue load capacity



Venture Coupler..... 80-1084

Equalizer

1/4" steel construction
Helps distribute load between axles
Prevents undue stress on axles and mobile home frame
Use 9/16" shackle bolts
2.03" x 7"



Steel Equalizer..... 80-2030

Equalizer

1/4" steel construction
Helps distribute load between axles
Prevents undue stress on axles and mobile home frame
Use 9/16" shackle bolts
4" x 7-1/4"



Steel Equalizer..... 80-2031

Shackle Link

Connect spring to equalizer, or spring to spring hanger
Use with 9/16" shackle bolt
1/4" thick steel, 1-1/4" wide
Bolt centers 2-2/2"



Shackle Link..... 80-2025

Transport and Setup

Towing

Shackle Bolt

Steel bolt with hex lock-nut
Use to attach spring to hanger or shackle link
9/16" x 3"



Shock Cord..... 80-2026

Spring Hanger

For use with 1-3/4" wide spring
1/4" thick steel, with 1-1/8" drop
Use only with shackle end of single axle suspension



Spring Hanger..... 80-2021

Spring Hanger

For use with 1-3/4" wide spring
1/4" thick steel, with 3-1/4" drop
Use 9/16" x 3" shackle bolt



Steel Equalizer..... 80-2020

Outer Wheel Bearing

Replacement axle wheel bearing
Precision made, high strength steel alloy
Does not have new grease seal



Wheel Bearing..... 80-2001

Axle Dust Cap

Universal application
Fits most mobile home axles
Prevents contamination/loss of bearing grease



Dust Cap..... 80-2011

Wheel Rim Clamp

Heavy duty steel rim clamp
 Universal application, fits most mobile home axles
 Use with either lug bolts or lug studs
 Plated for corrosion resistance



Rim Clamp..... 80-2006

Lug Bolt

Cone head lug bolt
 Universal application, fits most mobile home axles
 1/2" x 1-5/8" x 1/2-20 threads



Lug Bolt..... 80-2019

Lug Nut

Heavy steel hex nut
 1/2" x 20 thread
 Plated for corrosion resistance



Steel Equalizer..... 80-2004N

Wheel Bolt

For use with steel hubs that drilled and tapped
 Black corrosion resistant finish



1/2" x 1-5/8" x 1/2-13 threads..... 80-2004
1/2" x 2-1/4" x 1/2-13 threads..... 80-2004L
1/2" x 1-7/8" x 1/2-20 threads..... 80-2004F

U-Bolt

Use to mount leaf spring to 3-inch axle tube
 Locking nuts included
 Set of 2



5-3/4" U-Bolt..... 80-2040
6-3/4" U-Bolt..... 80-2041

Transport and Setup

Anchors and Accessories

Iron Root Earth Anchor MI2H58

5/8" x 48" steel shaft, with 6" helix
 Double tension head
 Use in class 3 soils, tested to HUD 3280
 6 per bundle

Black Painted..... 14-3023
Galvanized..... 14-3023G



Iron Root Earth Anchor MI2H34

3/4" x 48" steel shaft with 6" helix
 Double tension head
 Use in class 4A soils, tested to HUD 3280
 6 per bundle

Black Painted..... 14-30233
Galvanized..... 14-30233G



Iron Root Earth Anchor M607

3/4" x 60" steel shaft with 7" helix
 Double tension head
 Use in class 4B soils, tested to HUD 3280
 6 per bundle

Galvanized..... 14-30235G



Iron Root Earth Anchor MI2258

5/8" x 30" steel shaft with double 4" helix
 Double tension head
 Use in class 2 soils, tested to HUD 3280
 8 per bundle

Black Painted..... 14-3040



Transport and Setup Anchors and Accessories

Iron Root Earth Anchor MI223

3/4" x 30" steel shaft with double 4" helix
 Double tension head
 Use in class 3 soils, tested to HUD 3280
 8 per bundle

Galvanized..... 14-3045



Iron Root Earth Anchor MI2H64

3/4" x 36" steel shaft with 4" and 6" helix
 Double tension head
 Use in class 4A soils, tested to HUD 3280
 6 per bundle

Black Painted..... 14-3043



Iron Root Earth Anchor MI4234

3/4" x 42" steel shaft with 4" and 6" helix
 Double tension head
 Use in class 4A soils, tested to HUD 3280
 6 per bundle

Black Painted..... 14-3034



Eye Anchor

1/2" steel shaft with 4" helix
 Black painted
 12 per box

15" Eye Anchor..... 14-3024

30" Eye Anchor..... 14-3025



Transport and Setup

Anchors and Accessories

Eye Anchor

5/8" steel shaft with 6" helix
Black painted
6 per box

40" Eye Anchor..... 14-3031
48" Eye Anchor..... 14-3027



Eye Anchor Kit

Storage building anchor kit
Contains four 30" eye anchors, four 1/8" galvanized clamps,
and 60 feet of galvanized aircraft cable

30" Anchor Kit..... 14-3038



"J"-Rod Concrete Anchor M1J2

12" steel shaft
Double tension head
24 per box

Black Painted..... 14-3021
Black Painted, w/ swivel head..... 14-30210
Galvanized..... 14-30214G



Cross Drive Rock Anchor MRA

3/4" x 30" steel shafts
Swivel double tension head
Engineered for use in solid rock up to 1" from anchor base
5 per box

Black Painted..... 14-3042



Concrete Slab Anchor M1CS2

5/8" expansion bolt included
Double tension head
24 per box

Black Painted..... 14-3020
Galvanized..... 14-3020G



Split Anchor Bolt

For use with Tie-Down tension head anchors
Cadmium plated
8 per bag

Split Bolt..... 14-3022



Lateral Stabilizer Plate

Prevents anchor from slicing thru soil
Black painted steel, 12" wide
8 per box

Stabilizer Plate..... 14-3007



XL Lateral Stabilizer Plate

Required for use in Class 4 soils in Florida
Galvanized steel, 17-1/2" x 13-1/2"
8 per box

XL Stabilizer Plate..... 14-3005G



ABS Stabilizer Plate

High-impact ABS material
Use in loose soil
Approved for use in Florida in class 4 soils

ABS Stabilizer Plate..... 14-3004T



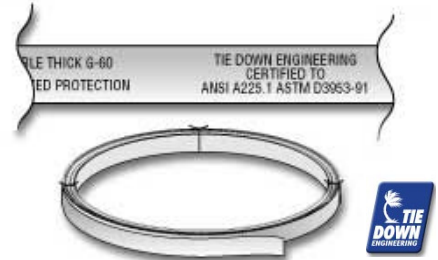
Transport and Setup

Strap and Accessories

Galvanized Strap

HUD certified and marked
Exceeds ASTM D3953-91
Marked every 12 inches
1-1/4" x 37' roll

G60 Galvanized..... 14-30127
G120 Galvanized..... 14-30127G



Galvanized Strap

HUD certified and marked
Exceeds ASTM D3953-91
Marked every 12 inches
1-14" x 600' roll

G60 Galvanized..... 14-3016
G120 Galvanized..... 14-3016G



Galvanized Strap with Swivel Connector

G120 certified and marked
Meets ASTM requirements, approved for use in Florida
Pre-cut length with universal swivel connector

5' Strap..... 14-30175
6' Strap..... 14-30176
7' Strap..... 14-30177
8' Strap..... 14-30178
9' Strap..... 14-30179
12' Strap..... 14-30182
16' Strap..... 14-30186



Galvanized Strap with Frame Hook

Certified and marked
Meets ASTM requirements, approved for use in Florida
Pre-cut length with frame hook

6' Strap..... 14-3049
8' Strap..... 14-30498

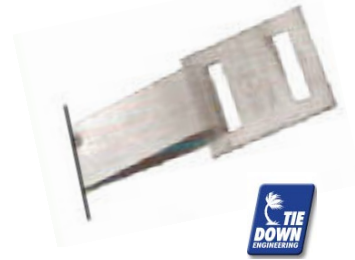


Transport and Setup Strap and Accessories

Galvanized Strap with Buckle

Certified and marked
Meets ASTM requirements, approved for use in Florida
Pre-cut length with buckle

7' Strap.....14-3049B
8' Strap.....14-30499



Strap Buckle

Double slot strap buckle
Hot-dip galvanized steel

Strap Buckle..... 14-3009



Crimp Seal

Semi-closed style
Zinc plated steel

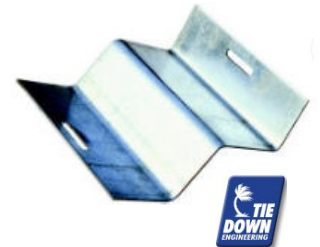
Crimp Seal..... 14-3105



Roof Bracket

Designed to hold strap or cable ties away from roof
Galvanized steel with strap slots

Roof Bracket..... 14-3010



Swivel Connector

Use with beam clamps and Vector system components
Galvanized steel

Swivel Connector..... 14-3008SC



Transport and Setup

Strap and Accessories

Frame Hook

Use with galvanized strap
Galvanized steel



Frame Hook..... 14-3008

Beam Clamp

Use to secure swivel strap connectors to mobile home frame
Galvanized steel, with hardware and instructions
24 sets per box



3" Beam..... 14-30113
4" Beam..... 14-30114
Double Beam..... 14-30118

8-Bolt Gator Beam Clamp

Use to attach longitudinal anchors to I-beam at each end of home
Galvanized steel, with hardware and instructions
4 set per box



4 Bolt Beam Clamp..... 14-3012GB4
8 Bolt Beam Clamp..... 14-3011GB4

Angle Frame Bracket

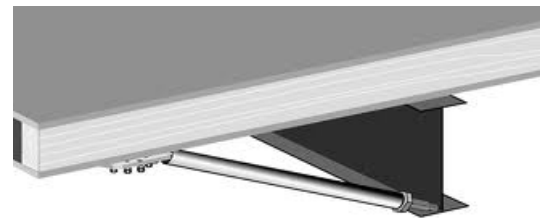
Use to attach longitudinal anchors to I-beam at each end of home
Galvanized steel, with hardware and instructions
24 sets per box



Angle Frame Bracket..... 14-30115

Adjustable Outrigger

Attach to I-beam and extend to home perimeter
Adds additional support and stability to areas that
may carry additional weight
With hardware and instructions



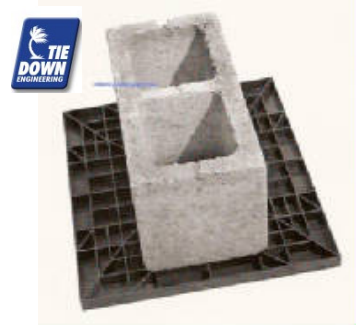
14' Wide home..... 14-3314
16' Wide Home..... 14-3316

Transport and Setup Foundation and Pier Pads

ABS Foundation Pad

High-impact ABS material
Stackable for larger pad area and wider pier spacing

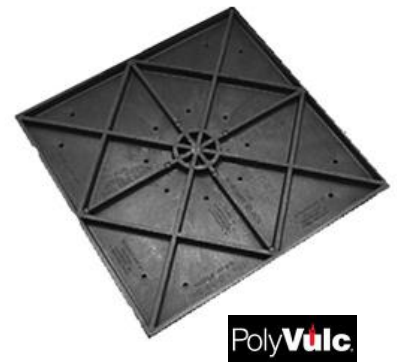
2 sq ft, 16" x 18".....	14-321618
2.5 sq ft, 16" x 22-1/2".....	14-321622
3 sq ft, 17" x 25".....	14-321725
4 sq ft, 24" x 24".....	14-322424



Polyvulc Pier Pad

Heavy duty rubber material
UV stable, resistant to herbicides and pesticides
Made from 100% recycled material

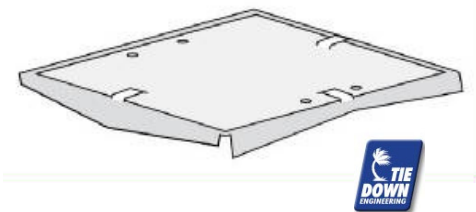
16" x 16".....	14-321616
17" x 23".....	14-321723
18-1/2" x 18-1/2".....	14-321818
20" x 20".....	14-322020



Vector 3 sq. Ft. Pad

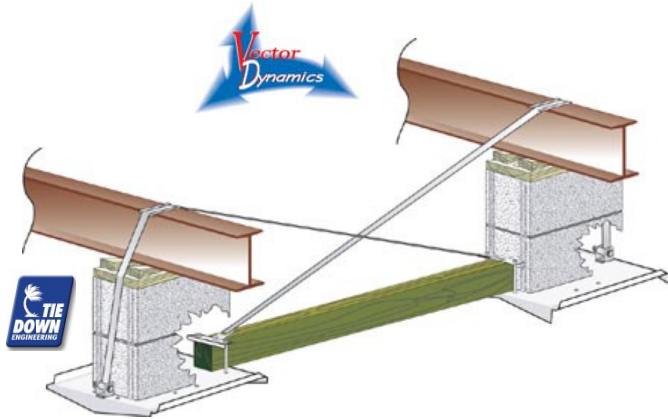
Designed for use with the Vector Dynamics system
Heavy galvanized steel

Vector Pad.....	14-3002P
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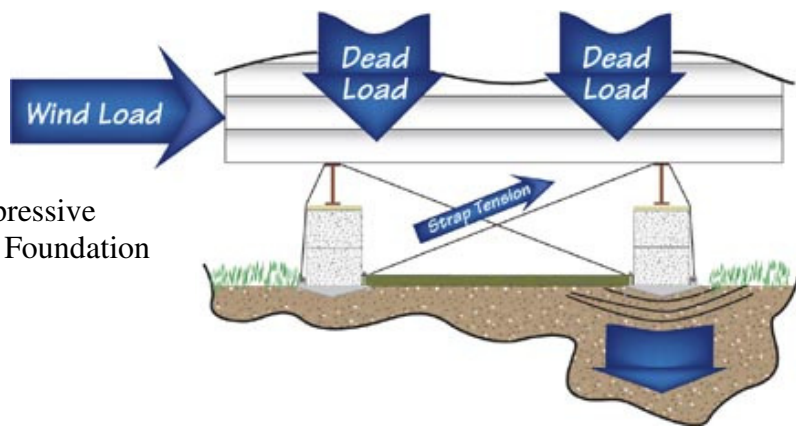


Transport and Setup

Vector Dynamics Foundation System



Tie Down's patented Vector Dynamics Foundation System provides windstorm and seismic protection for manufactured homes (Wind Zone I, II, and III, Florida and seismic loads). Complete installation instructions are packaged with specific items and kits. Additional copies may be obtained from our sales staff, or from Tie Down Engineering.



As wind loads increase, lee side pier compressive forces simultaneously increase the Vector Foundation Pad's resistance to horizontal sliding.



In order to simulate the effects of wind loading, Tie Down used a series of winches attached to dynamometers which were connected to the opposite wind side outer frame section. Special frame hooks attached to equalization cables were used to maintain uniform loads during testing.

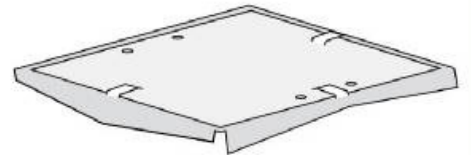


During 2 days in 2001, government and educational researchers used the propwash from a C-130 aircraft to test the strength of a single section manufactured home. Against sustained winds of 80 to 90 mph, gusting to 110 mph, the Vector Dynamics System did not allow any movement of the foundation or the home.

Transport and Setup Vector Dynamics Foundation System

Vector 3 sq. Ft. Pad

Designed for use with the Vector Dynamics system
Heavy galvanized steel



Vector Pad..... 14-3002P

Vector Longitudinal Hardware Kit

Use with the Vector 3-sq. Ft. pad
Includes 2 beam clamps, 2 tension brackets, hardware and instructions



Longitudinal Hardware..... 14-3003L

Vector Lateral Hardware Kit

Use with the Vector 3-sq. ft. pad
Includes hardware and instructions



Lateral Hardware..... 14-3003V

Vector Longitudinal Struts

Use with the Vector 3-sq. ft. pad

30" Strut..... 14-300230
39" Strut..... 14-300239
44" Strut..... 14-300244
53" Strut..... 14-300253
65" Strut..... 14-300265



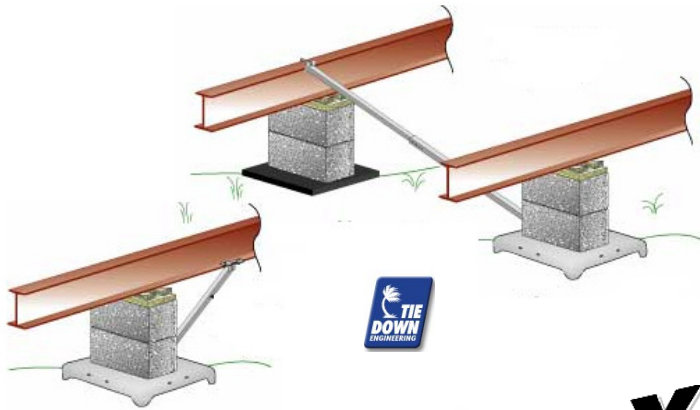
Vector Concrete System

Includes 2 steel pads, straps and hardware

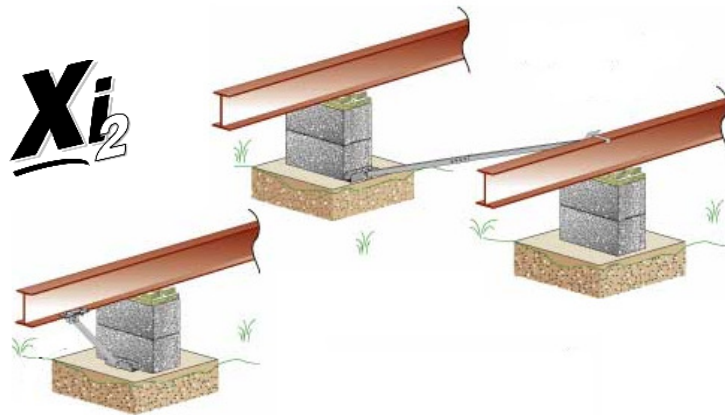
Concrete System..... 14-3000C
Concrete Lateral Kit..... 14-3003C



Transport and Setup Xi2 Foundation System

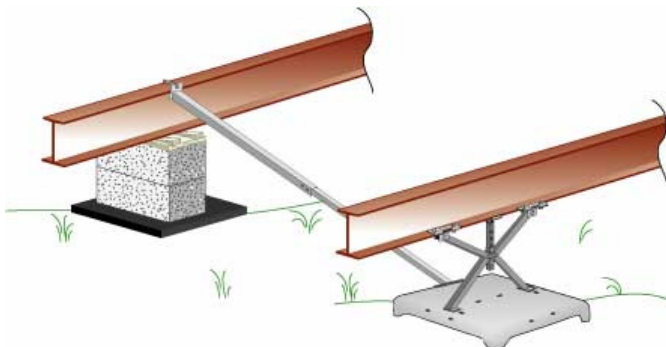


Tie Down's Xi2 Foundation System provides windstorm and seismic protection for manufactured homes. The versatility of the system allows for ground pan or concrete footer for stable Xi2 installation. Concrete footers are most commonly used for permanent foundations or where frost heave occurs.



The installation of both the lateral and longitudinal struts easily and economically addresses both wind and seismic loads imposed on all four sides of the home. This would cover wind elements for wind zones I, II, and III.

The Xi2 system can be used with single stack and double stack block configurations. Check applicable regulations for pier requirements and maximum pier heights for unreinforced piers.



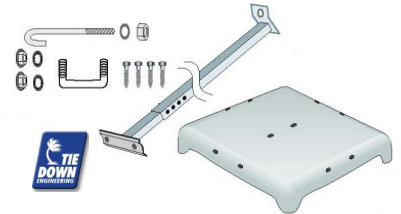
The Xi2 steel pier system replaces the block pier and supplies longitudinal stabilization in both directions.

Transport and Setup Xi2 Foundation System

Xi2 Ground System

Complete with galvanized steel ground pan, 5' strut, hardware and instructions

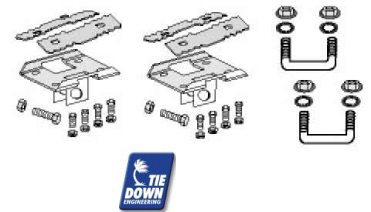
Xi2 Ground..... 14-3019



Xi2 Ground Longitudinal Hardware Kit

Use with Xi2 longitudinal struts. Consists of 2 I-beam brackets, 2 U-bolts, attachment hardware and instructions

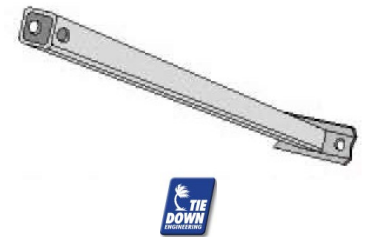
Longitudinal Hardware..... 14-3003Xi2G



Xi2 Longitudinal Strut

Galvanized steel, use with Xi2 ground system

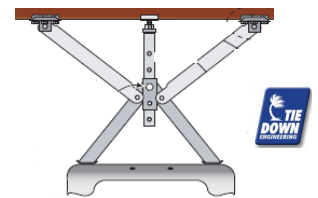
30" Strut..... 14-300330
39" Strut..... 14-300339
44" Strut..... 14-300344
53" Strut..... 14-300353
65" Strut..... 14-300365



Xi2 Pier System

Consists of galvanized steel ground pan, adjustable steel Xi2 pier, attachment hardware, and instructions

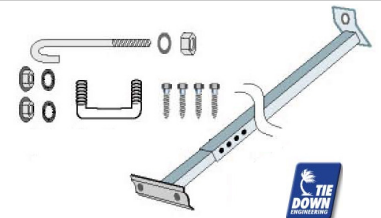
Xi2 Pier..... 14-3235XS



Xi2 Lateral Strut

Use with Xi2 pier system to provide additional lateral stabilization
Includes 5' galvanized steel strut, hardware, and instructions

Xi2 Lateral Strut..... 14-3235XB



Xi2 Concrete System

Use with Xi2 pier system to provide additional lateral stabilization
Includes 5' galvanized steel strut, hardware, and instructions

Xi2 Lateral Strut..... 14-3032



Transport and Setup

Setup Accessories

Treated Pine Wedge

Use in leveling home during setup or for re-leveling home
Pressure treated against termites, fungal decay, and rot



Treated Wedge..... 95-4001

Treated Pine Board

Use as top plate on concrete block pier setup
Pressure treated against termites, fungal decay, and rot



1" x 8" x 16"..... 95-4001
2" x 8" x 16"..... 95-4002

Lag Screw

Hex head steel lag
Use to join home sections during setup



3/8" x 5"..... 35-1217
3/8" x 7"..... 35-1218

Flat Washer

Use with lag screws
50 washers per box



Flat washer..... 35-1220T

Transport and Setup Tools and Equipment

Soil Test Probe

Use to determine the soil condition below the surface
Insures proper anchor use for each soil condition

Soil Test Probe..... 14-3051



Pocket Penetrometer

Used for evaluation and classification of soil consistency
Stainless steel plunger, includes carrying case and adapter foot

Penetrometer..... 14-3052



Drive Machine

Designed to efficiently drive both eye and tension head
anchors into the ground
115V, 1/2HP, 1245 –inch-pounds of torque

Drive Machine..... 14-3070



Adapter Head

Eye anchor adapter head for electric drive machine

Adapter Head..... 14-30506



Speed Wrench

Use to attach slotted bolts and straps to tension head anchors

Speed Wrench..... 14-3054



Crimp Tool

Use to fasten crimp seals to anchor straps and frame ties

Crimp Tool..... 14-3106



Transport and Setup



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