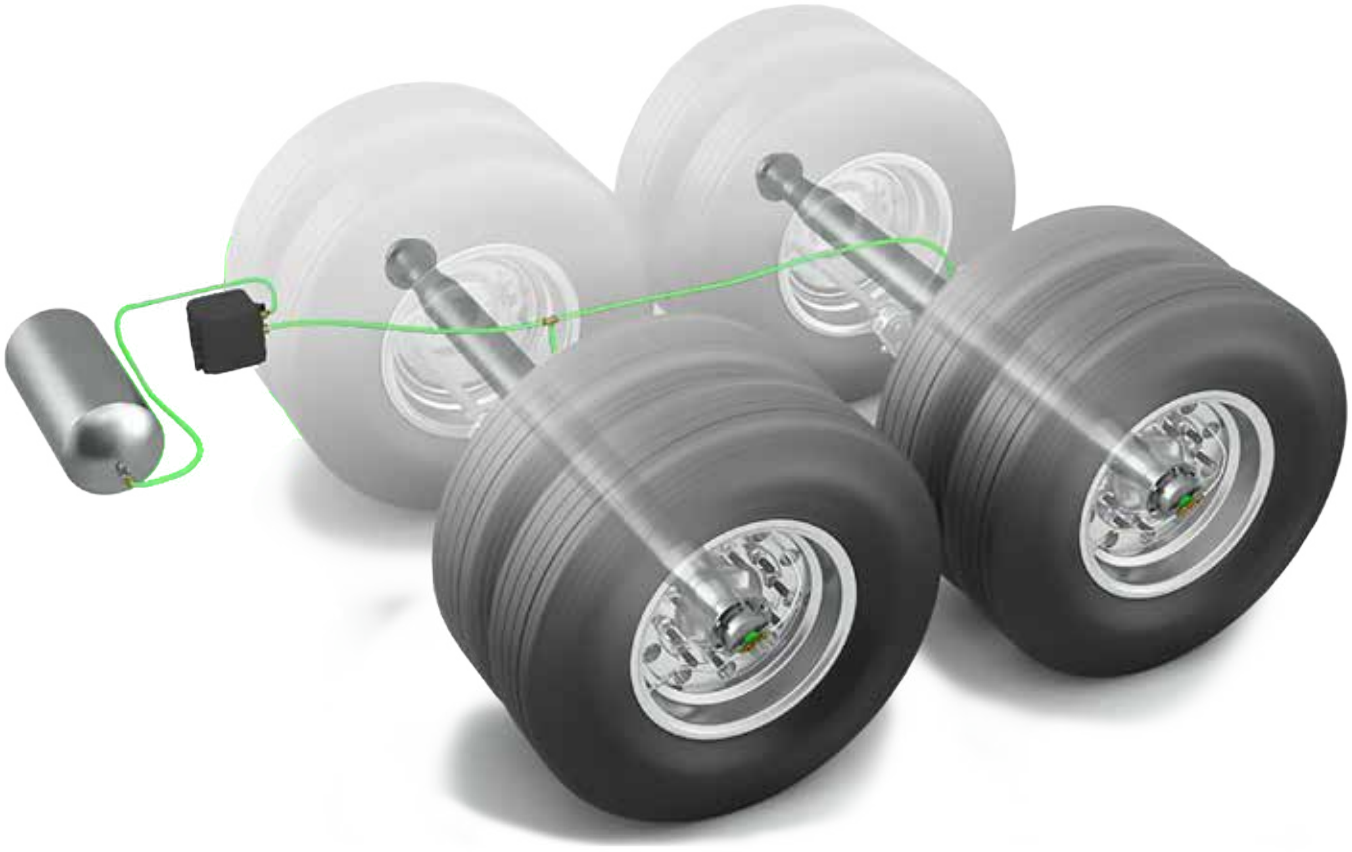
AFTERMARKET

October 2023

MERITOR® TIRE INFLATION SYSTEM



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About This Manual

As the leading automatic tire inflation system in North America, the Meritor Tire Inflation System (MTIS™) is designed to be compatible with a wide range of axle and wheel-end component combinations.

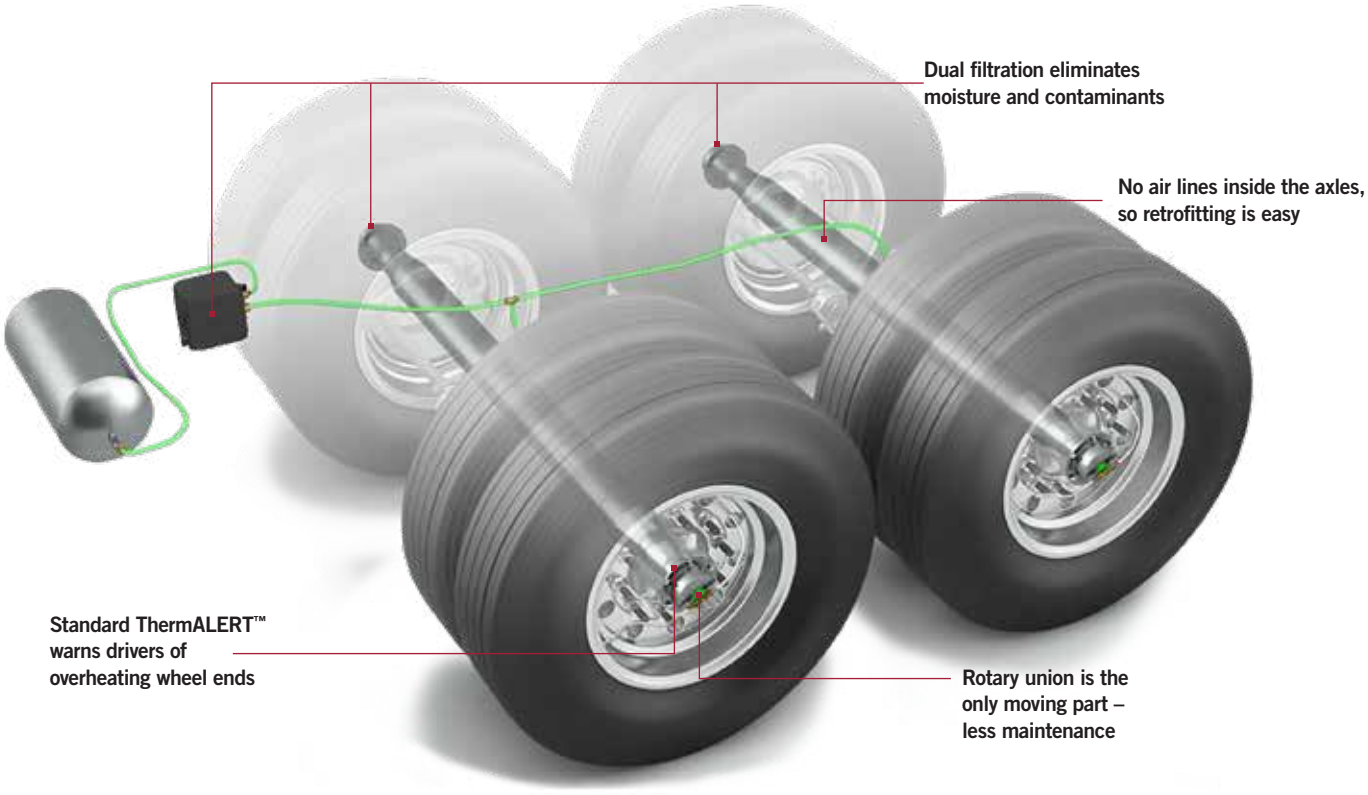


FIGURE 1

How MTIS Works

Air from the trailer air supply is routed to a central control box, then into each axle. The axles act as conduits to carry air through a rotary union assembly, which distributes air to each tire as needed. (Periodic inspection is required. See MTIS Maintenance Manual 14P.)

MTIS FEATURES AND BENEFITS

Extends tire life

Federal Motor Carrier Safety Administration (FMCSA) and U.S. Environmental Protection Agency (EPA) studies show a 10 percent longer tire life with tire inflation systems

- Underinflation negatively affects both new tires and retreads
- Continuous inflation prevents early retreading and reduces overall fleet tire costs
- Helps preserve tire casing for maximum retreading

Increases fuel economy

- Proper tire pressure means better fuel economy
- Proven 1.4 percent average improvement in fuel economy per vehicle based on a FMCSA real-world study on tire inflation systems

Decreases fleet maintenance costs

- Less time spent on manual pressure checking and filling
- Longer intervals between retreads

Improves safety

- Prevents underinflation, which is the leading cause of tire blowouts
- Reduces the risk of road accidents caused by underinflation
- Delivers real-time warnings of tire issues

Reduces roadside assistance calls

- In most cases, it keeps tires inflated until the driver reaches a maintenance location, which reduces service calls and unplanned downtime
- Reduces blowouts

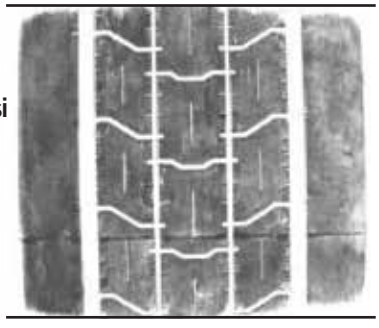
Provides over-the-road pressure maintenance

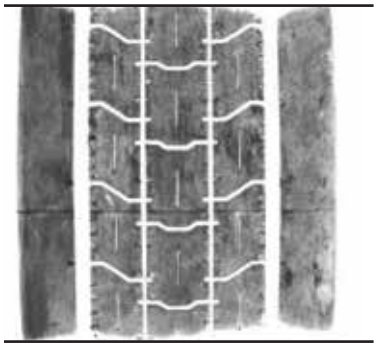
Tire Footprint @ 100 psi vs. 70 psi

Tire footprint and rolling resistance increase as inflation pressure decreases. Fuel economy drops up to 3.8 percent if a tire is underinflated by 30 psi.

7" long @ 100 psi
Optimum fuel economy

*Laboratory testing performed by Standards Testing Laboratories, Massillon, Ohio





8¼" long @ 70 psi
18 percent more rubber on the road equals a 3.8 percent decrease in fuel economy*

Control Box Assembly

The drawings below provide an overview of the key components of the MTIS.

The MTIS Control Box manages the pressurized air flow to the tires. The Control Box (original design) was in use until 2019. In 2019, the Manifold design control box was released into production and retrofit kits. Be sure to verify the control box in place for your existing MTIS. The new Manifold design will replace the pre-2019 original Control Box.

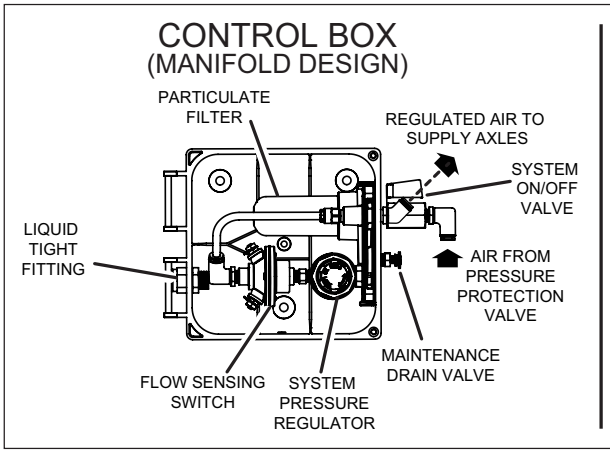


FIGURE 2

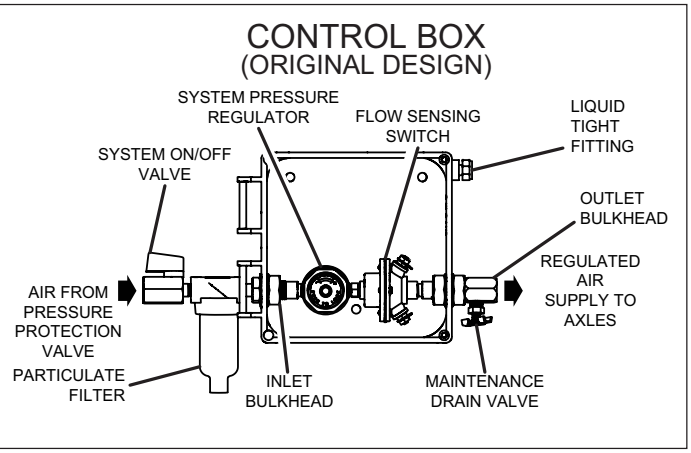


FIGURE 3

Dual Wheel End Assembly

The illustration below shows the assembly of typical MTIS wheel end components.

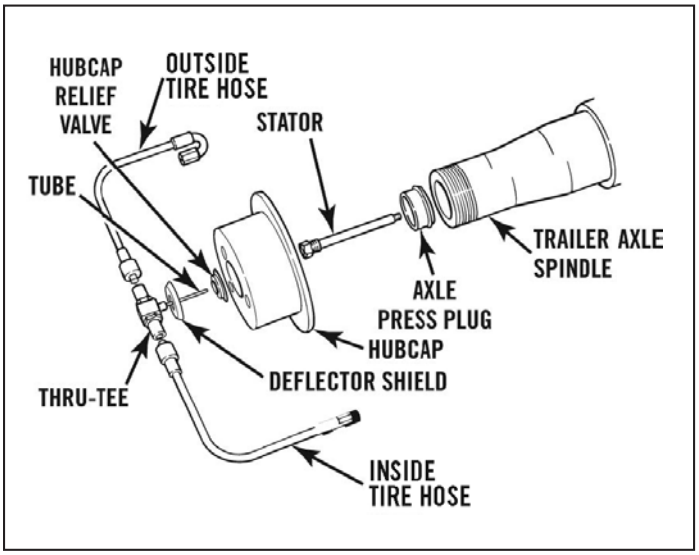


FIGURE 4

Additional Information

Please contact your Meritor representative for assistance or you can also access product and service information on the Meritor Tire Inflation System (MTIS) in the Literature On Demand section of www.Meritor.com.

Reference documents include

- MM14P MTIS Maintenance Manual
- TP9914 MTIS Technical Guide

TIRE INFLATION SYSTEM STANDARD KIT

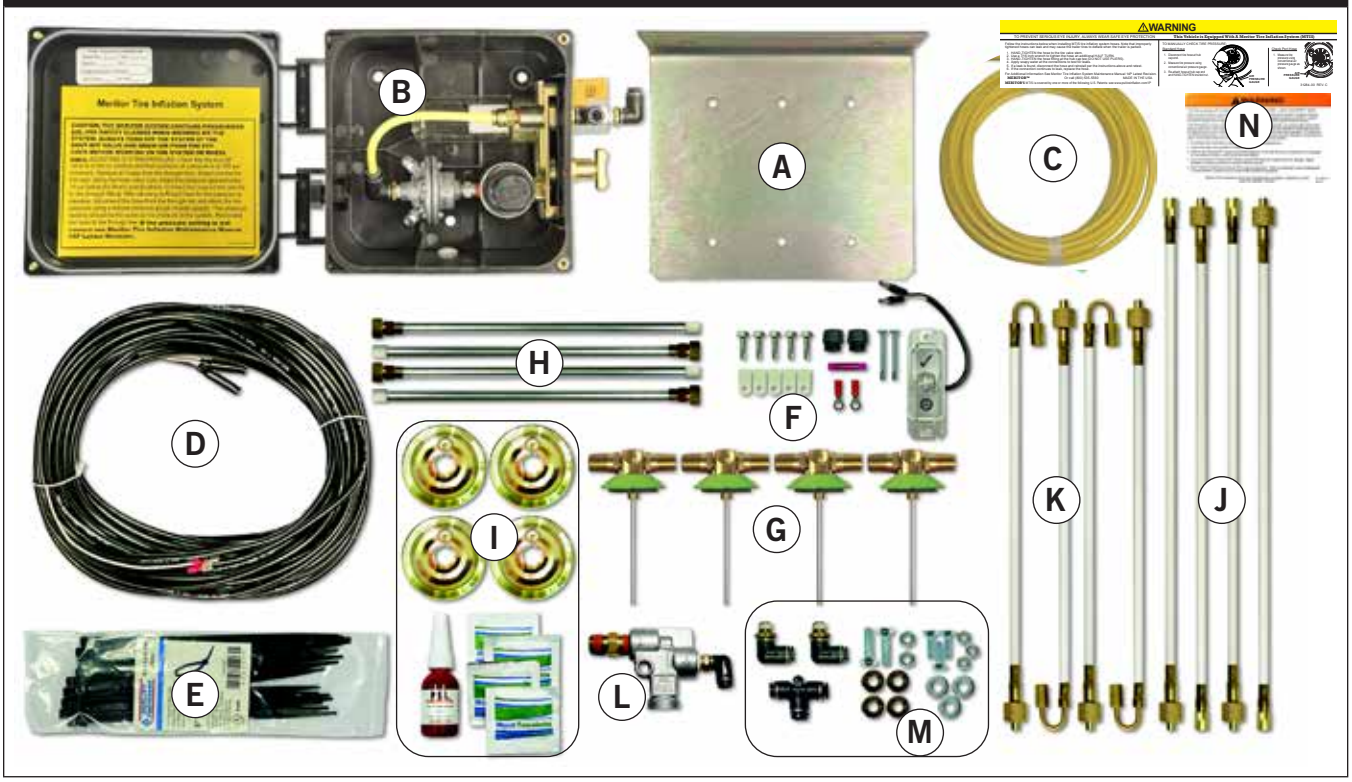


FIGURE 5

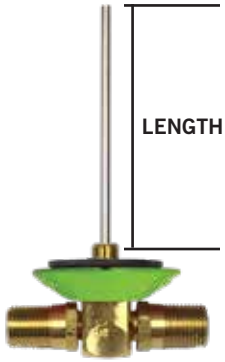
TYPICAL STANDARD KIT CONTENTS FOR A TANDEM AXLE TRAILER WITH DUAL TIRES

ITEM	QTY. (per Tandem Kit)	COMPONENTS
A	1	Control Box Bracket
B	1	Control Box Assembly
C	1	Nylon Air Tubing, 25 feet
D	1	Electrical Cable
E	1	Nylon Tie Straps, 25 Count
F	1	Trailer Light With Hardware
G	4	Thru-Tee Assemblies
H	4	Stators
I	4	ThermALERT™ Press Plugs with Alcohol Prep Wipe and Retaining Compound
J	4	Hose Assemblies - Inside Tires
K	4	Hose Assemblies - Outside Tires
L	1	Pressure Protection Valve (PPV)
M	1	Fitting And Hardware Kit
N	1	Labels

TABLE 1

GUIDELINES FOR SPECIFYING MTIS WITH THERMALERT™ STANDARD

As the leading automatic tire inflation system in North America, the Meritor Tire Inflation System (MTIS™) with ThermALERT™ Standard is designed to be compatible with a wide range of axle and wheel-end component combinations. To help ensure that you specify the correct MTIS kit for an application, Meritor is pleased to provide the following guidelines to assist in product selection, which depends on the type of axles and wheel-ends on the trailer.



THRU-TEE

Specify a New or Retrofit Kit

Please determine following information to allow selection of the proper kit:

1. Axle Manufacturer
2. Spindle Series (“N” - Tapered, Or “P” - Straight)
3. Dual Tires or Single Tire (SS)
4. Wheel Size
5. Number of Axles (Single, Tandem, Tridem, Quad)
6. Hub Material - Ductile Iron or Aluminum and if it’s a ConMet PreSet design
7. Desired Cold Tire Pressure Setting
8. Hubcap Type and Wheel End Lubrication
9. Optional: CP hoses, Control Box Check Port

NOTE: Hubcaps may be included in kits or may be ordered separately. When ordering hubcaps separately, please provide appropriate style of hubcap and wheel end lubrication type if part number is not known.

NOTE: All retrofit kits are pre-set to to 100psi cold tire pressure. Please consult the MTIS Maintenance and Installation Manual (MM14P) for additional details.

NOTE: For part number nomenclature explanation, see Table 2.

For Installation on Meritor TN/TQ Axles with Tapered Spindles

Specify kits having thru-tee assemblies with 3.5" long tubes when the trailer axles are equipped with either ductile iron or aluminum hubs. The hubs can be ConMet PreSet or other designs.

For Installation on Meritor TP Axles with Parallel Spindles

Specify kits having thru-tee assemblies with 4" long tubes when the trailer axles are equipped with ductile iron hubs except for ConMet hubs. If the trailer axles are equipped with aluminum or ConMet ductile iron hubs, specify an MTIS kit containing thru-tees with 5" long tubes.

Determine the type of kit you need.

MTIS Kit Part Numbers “Partial” MTIS Kits

“Partial” kits do not include spindle press plugs or stators. Partial kits are for installation on axles which have been prepped for MTIS at the production factory. (The spindle press plugs and stators have been installed on the axles.) Note that the standard thru-tee length for partial MTIS kits is 3.5". If you require a longer thru-tee length, please inform your Meritor customer service representative when placing your MTIS order. When a length other than the standard 3.5" is specified, it will be stated in the kit part number. Refer to the following table for examples.

TRAILER AXLE AND HUB TYPES	RECOMMENDED THRU-TEE TUBE LENGTH	MTIS WITH THERMALERT™ PARTIAL KIT NUMBER H2712 FAMILY
TN axle with ductile iron hubs including ConMet PreSet or PreSet Plus	3.5"	**H2712-22**
TN axle with aluminum hubs including ConMet PreSet or PreSet Plus	3.5"	**H2712-22**
TP axle with ductile iron hubs	4"	**H2712-22-4**
TP axle with aluminum hubs	5"	**H2712-22-5**
TP axle with ConMet PreSet or PreSet Plus hubs	5"	**H2712-22-5**

"Full" MTIS Kits

"Full" MTIS kits and the other components as shown in Figure 5 are for installation on axles which have not been prepped for MTIS. These kits include spindle press plugs and stators. The standard thru-tee tube length for a full MTIS kit is based on the spindle type for which the kit is intended. For example, a full MTIS kit for a TN axle will have a standard thru-tee tube length of 3.5" while a full MTIS kit for a TP axle will have a standard thru-tee tube length of 4".

If you require a thru-tee length longer than the standard length, please inform your Meritor customer service representative when placing your MTIS order. When a length other than the standard is specified, it will be stated in the kit part number. Refer to the tables below for the axle type and product codes.

STRAIGHT SPINDLE - THERMALERT® EQUIPPED (INCLUDES AXLE PREP COMPONENTS)	
H1955 Series	Holland ProPar™ (Square Axle)
H1975 Series	Meritor TP, TB (1998 and later), WP, Hendrickson® HP (after 2002), SAF Holland® Ingersoll®, AXN F24 - 2.75"
H1995 Series	Meritor TP MTec6 axles
H2405 Series	Meritor TB (before 1998) - 2.95"
H2595 Series	Sudisa® 12-R
H2815 Series	Dana® P22, Hendrickson HP (pre 2002) - 2.50"
H1151 Series	Meritor TL - 2.50"

TAPERED SPINDLE - THERMALERT® EQUIPPED (INCLUDES AXLE PREP COMPONENTS)	
H1965 Series	Meritor TN/TQ, RN/RQ, Hendrickson HN, SAF, AXN, HDNABI and Ridewell N-Series, Dana/Eaton D22 Hollow Spindle, Ingersoll F22 (starting Aug. 2017) - 1.75 inch
H1985 Series	Meritor TN MTec6 axles
H2375 Series	Holland Trade (Note: Check diameter of opening to determine kit.)
H2645 Series	Sudisa 11-M

TAPERED SPINDLE - NON-THERMALERT® EQUIPPED (INCLUDES AXLE PREP COMPONENTS)	
31935 Series	Ingersoll® F22 (For axles manufactured prior to August 2017.) - 1.50 inch

EXAMPLES OF STANDARD KITS

AXLE / SPINDLE TYPE	HUB TYPE	RECOMMENDED THRU-TEE TUBE LENGTH	MTIS WITH THERMALERT™ KIT NUMBER
TN/TQ, HN	Ductile Iron	3.5"	**H1965-22**
TN/TQ, HN	Aluminum	3.5"	**H1965-22**
TP, WP, HP (2.75" bore)	Ductile Iron	4"	**H1975-22**
TP, WP, HP (2.75" bore)	Aluminum	5"	**H1975-22-5**
TP	ConMet PreSet or PreSet Plus	5"	**H1975-22-5**

Please contact your Meritor representative for assistance to obtain the correct kit for the application. You can also access product and service information on the Meritor Tire Inflation System (MTIS) in the Literature On Demand section of www.Meritor.com or MeritorPartsXpress.com under Xact Search.

MTIS Kit Part Number Structure

In this example, we will use the Meritor TN/TQ, Hendrickson HN, Dana/Eaton D22 Hollow Spindle with Tandem Axles, Dual Dynamics Hubcaps and Check Port Hoses.

NOTE: For non ThermALERT-equipped systems replace “H” prefix with “3” prefix for Series part #.

H1965-22-CP-D1

SERIES / AXLE TYPE	NO. AXLES	TIRES	HOSES	OPTIONS
H1965	22		CP	D1
Per Catalog Tables	11 = Single Axle 22 = Tandem Axle 33 = Tridem Axle 44 = Quad Axle"	BLANK = Dual S = Single	BLANK = Standard CP = Auxiliary Check Port CP2 = Dual Auxiliary Check Port	Options vary by OE and Application. Hubcap option shown for example. D1 = Dual Dynamics™ 6H, 5.5" oil D2 = Dual Dynamics 6H, 5.5" grease D3 = Dual Dynamics screw-on oil D4 = Dual Dynamics screw-on grease D5 = Dual Dynamics 6H, 6.75" oil D6 = Dual Dynamics 6H, 6.75" grease OTHER = OE Options as defined

TABLE 2

Digital ThermAlert

The Meritor MTIS retrofit kits can be specified to support the Digital ThermAlert application. To specify a Digital ThermAlert compatible kit, change the first digit of the part number from ‘H’ to ‘T’.

For example, a retrofit application that would require an H196522 kit can be specified to be Digital ThermAlert compliant by changing the part number to T196522.

The difference between a Digital ThermAlert kits and a standard kits is the axle press plug. For Digital ThermAlert, the standard ThermAlert screw is no longer present on the press plug. The press plug for Digital ThermAlert has an attachment mechanism for the Digital Temperature sensor.

Installation of a full functioning Digital ThermAlert system requires additional temperature sensors and a data collection system. Please contact your Meritor representative to learn more about these systems.

COMPONENTS
MANIFOLD CONTROL BOX AND SERVICE PARTS

MERITOR® MANIFOLD CONTROL BOX

	PART NUMBER	DESCRIPTION
	**31092-00**	Manifold Control Box Assembly, Complete
	31092-002	Manifold Control Box Complete Assembly with Auxiliary port on air output

SERVICE PARTS - MANIFOLD CONTROL BOX

	PART NUMBER	DESCRIPTION
The following parts are service parts for the Manifold Control Box ONLY. The Manifold Control Box has supply and output on the right side of the box.		
	**31104-00**	Filter Element
	**31105-00**	Clear Filter Bowl Kit, includes: • Bowl and seal (Note: Remove old seal from manifold before replacing with new seal.)
	**31084-14**	Manifold Service Kit, includes: • 1 pc manifold assy • 1 pc manifold gasket • Control Box Pressure Regulator Valve • Clear Filter Bowl with Seal and Filter • 4 pcs mounting screws • 1 pc air line
	**31083-33**	Control Box Enclosure Assy, includes: • Empty box • Lid with lid screws, gasket and decals affixed on inside of lid
	**31083-28**	Control Box Lid Assy, includes: • Lid with lid screws, gasket and decals affixed on inside of lid

COMPONENTS
CHECK PORT CONTROL BOX CONVERSION PARTS

MANIFOLD AND ORIGINAL CONTROL BOX

	PART NUMBER	DESCRIPTION
The following parts are needed to convert your Control Box to receive a Check Port fitting. This allows you to check system output air pressure using a pressure gauge or TireView® TPMS Sensor.		
	**31084-13**	Control Box Outlet Adapter
	**31083-09**	Control Box ON/OFF Valve
	**31084-08**	Check Port Tank Valve

SERVICE PARTS - ORIGINAL CONTROL BOX

	PART NUMBER	DESCRIPTION
The following parts are service parts for the Original Control Box ONLY. The Original Control Box has supply and output on the right side of the box. NOTE: The 31082-00 Control Box has been superseded by 31092-00 Manifold Control Box		
	**31083-01**	Control Box, empty box with lid and screws
	**31103-00**	Filter Bowl Kit, includes: • Bowl and seal • Particulate Filter (Note: Remove old seal from control box before replacing with new seal.)
	**31114-00**	Control Box Inlet - Bulkhead/Check Valve Assembly
	**31084-01**	Outlet Bulkhead Fitting
	**31084-01-A**	Outlet Assembly
	**31083-02**	Control Box Pressure Regulator Valve

COMPONENTS
COMMON CONTROL BOX SERVICE PARTS

COMMON CONTROL BOX PARTS

	PART NUMBER	DESCRIPTION
	**31084-10**	Control Box Flow Sensing Switch - In-Line
	**31073-00**	Control Box Bracket
	**31083-09**	Control Box ON/OFF Valve
	**31083-12**	Maintenance Drain • Effective August, 2020. This will be replaced by part # 31083-04
	**31083-04**	Maintenance Drain • Effective August, 2020. This will supersede part # 31083-12

COMPONENTS
ELECTRICAL / PLUMBING

ELECTRICAL / PLUMBING COMPONENTS

	PART NUMBER	DESCRIPTION
	**31052-35**	¼ inch Nylon Tubing, 25 ft.
	**31182-70**	Electrical Cable, 70 ft. • 2-wire Insulated Cable with Bullet and Spade Connectors
	**31182-40**	Electrical Cable, 40 ft. • 2-wire Insulated Cable with Bullet and Spade Connectors
	**31263-14**	Light Assembly • Includes light and bracket
	**H1263-06**	Light Assembly Kit • Includes light and bracket • Includes mounting hardware • Includes Trailer Warning Label • Includes ThermALERT Light Warning Label
	**31263-01**	Y-Harness – 1 ft.
	**31263-11**	Y-Harness – 6 ft.

COMPONENTS
THRU-TEES

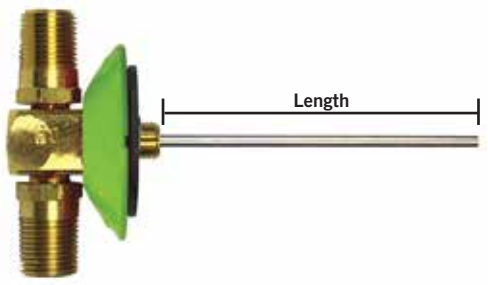
RECOMMENDED THRU-TEE LENGTHS

As the leading automatic tire inflation system, the Meritor® Tire Inflation System is designed to be compatible with a wide broad range of axle and wheel-end component combinations. To help ensure the correct kit for an application, Meritor® provides the following guidelines for Thru-Tee sizing.

SAE TRAILER SPINDLE TYPE	HUB TYPE/MATERIAL	THRU-TEE LENGTH (IN.)	COMMENTS
N-series	Iron	3.5	Includes ConMet Hubs
N-series	Aluminum	3.5	Includes ConMet Hubs
P-series	Iron	4.0	Except ConMet Hubs
P-series	Iron	5.0	ConMet Hubs
P-series	Aluminum	5.0	Includes ConMet Hubs

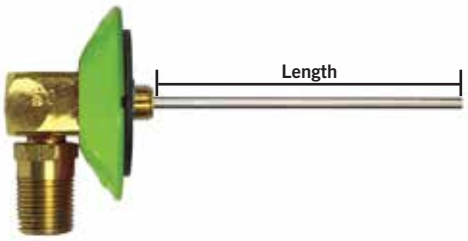
NOTE: Above are recommendations. Thru-tee length should be verified based on vehicle specific wheel-end components.
Other components, like hub cap brand, can affect the thru-tee length determination.

THRU-TEE ASSEMBLY, DUAL TIRE APPLICATIONS



PART NUMBER	LENGTH (IN.)	DESCRIPTION
31317-03	3.5	Thru-Tee Assembly Dual Tire Application
31317-00	4.0	
31317-04	5.0	

THRU-TEE ASSEMBLY, SINGLE TIRE APPLICATIONS



PART NUMBER	LENGTH (IN.)	DESCRIPTION
31317-03S	3.5	Thru-Tee Assembly Single Tire Application
31317-00S	4.0	
31317-04S	5.0	

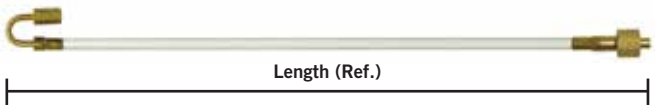
STATOR ASSEMBLY

PART NUMBER	LENGTH (IN.)	DESCRIPTION
31313-29-M	n/a	Crush Washer, Blue - 4 pcs
31314-21	10.5	Stator Assembly • ¼ inch NPT • 10.5 inch length

COMPONENTS
WHEEL END HOSE

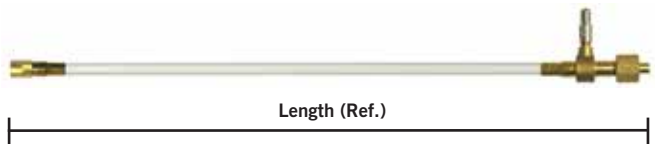
HOSE ASSEMBLIES

PART NUMBER	LENGTH (IN.)	DESCRIPTION
31373-00	17.0	Hose Assembly • Inside Tire
31374-00	13.5	
31373-11	11.5	Hose Assembly • Single Tire
31373-16	16	Hose Assembly • For 22.5in 10 Hole Al Wheels, Inside Tire

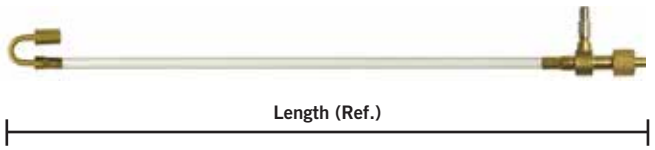


PART NUMBER	LENGTH (IN.)	DESCRIPTION
31363-00	13.5	Hose Assembly • Outside Tire
31364-00	11.5	

AUXILIARY SINGLE CHECK PORT HOSE ASSEMBLIES

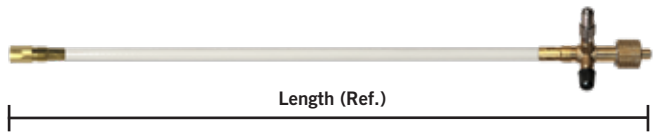


PART NUMBER	LENGTH (IN.)	DESCRIPTION
31373-00-CP	17.0	Auxiliary Check Port Hose Assembly • Inside Tire
31374-00-CP	13.5	
31373-11-CP	11.5	Auxiliary Check Port Hose Assembly • Single Tire
31373-16CP	16	Hose Assembly • For 22.5in 10 Hole Al Wheels, Inside Tire

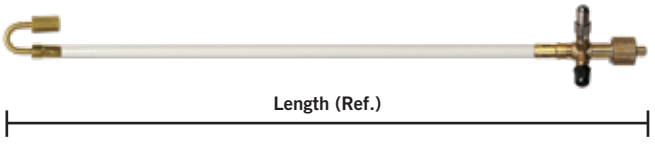


PART NUMBER	LENGTH (IN.)	DESCRIPTION
31363-00-CP	13.5	Auxiliary Check Port Hose Assembly • Outside Tire
31364-00-CP	11.5	

AUXILIARY DUAL CHECK PORT HOSE ASSEMBLIES



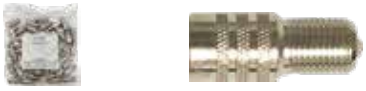
PART NUMBER	LENGTH (IN.)	DESCRIPTION
31373-00-CP2	17.0	Auxiliary Check Port Hose Assembly • Inside Tire
31374-00-CP2	13.5	
31373-11-CP2	11.5	Auxiliary Check Port Hose Assembly • Single Tire



PART NUMBER	LENGTH (IN.)	DESCRIPTION
31363-00-CP2	13.5	Auxiliary Check Port Hose Assembly • Outside Tire
31364-00-CP2	11.5	

VALVE COMPONENTS

PART NUMBER	DESCRIPTION
11342-04	Valve core • 3 PSI



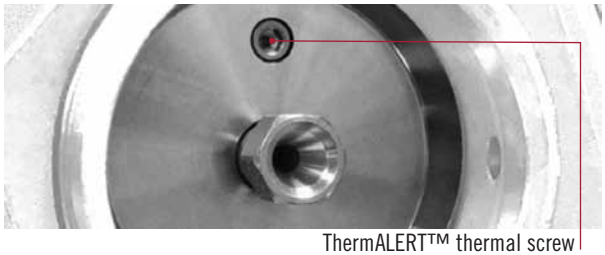
PART NUMBER	DESCRIPTION
11363-08-50	Double Seal Valve Caps, 50pcs

COMPONENTS
PRESS PLUG KITS

PRESS PLUG KITS

AXLE INFORMATION	DIAMETER	AXLE SERIES	THERMALERT™	NON-THERMALERT™	DIGITAL THERMALERT™	DRIVER
Holland ProPar™	2.75 in.	**H1955**	**H2321-01-A**	X	X	**51011-01**
Meritor TP/TB, WP, Hendrickson HP (after 2002), SAF Holland, Ingersoll F22, HDNABI, Ridewell, AXN	2.75 in.	**H1975**	**H2184-01-A**	X	**T2184-01-A**	**51011-06** (Others may apply, see driver table)
Meritor TP MTec6	2.905 in.	**H1995**	**H2190-01-A**	X	**T2190-01-A**	**51011-19**
Meritor TB (before 1998)	2.95 in.	**H2405**	X	**32382-01-A**	X	**51011-14**
Sudisa® 12-R	2.25 in.	**H2595**	X	**32601-01-A**	X	**51011-03**
Dana P22, Hendrickson HP (pre 2002)	2.50 in.	**H2815**	**H2473-01-A**	X	X	**51011-13**
Meritor TL	2.468 in.	**H1151**	**H1021-01-A**	X	X	**51011-16**
Meritor TN/TQ, RN/RQ, Hendrickson HN, SAF Holland, AXN, HDNABI and Ridewell N-Series, Dana/Eaton D22 Hollow Spindle, Ingersoll F22 (starting Aug. 2017)	1.75 in.	**H1965**	**H2202-01-A**	X	**T2202-01-A**	**51011-02** (Others may apply, see driver table)
Meritor TN Mtec6	2.05 in.	**H1985**	**H2300-01-A**	X	**T2300-01-A**	**51011-20**
Holland Trade	1.904 in.	**H2375**	X	**32342-01-A**	X	**51011-05**
Sudisa 11-M	1.50 in.	**H2645**	X	**32611-01-A**	X	**51011-04**
Ingersoll F22 (prior to Aug. 2017)	1.50 in.	**31935**	X	**32701-01-A**	X	**51011-08**
Sudisa 9-M	1.625 in.		X	**32771-01-A**	X	**51011-09**

THERMALERT™ THERMAL SCREW



ThermALERT™ thermal screw

PART NUMBER	DESCRIPTION
H2200-02	Thermal Screw replacement assy. • Includes gasket

TOOLS AND ACCESSORIES

	PART NUMBER	DESCRIPTION
	**51032-00**	System Pressure Test Gauge • Supersedes 81014-00
	**81044-00**	Slide Hammer Assembly • Used to remove axle plugs, press plugs • Includes 81044-01 Removal Spear • Includes 81044-02 Plug Remover
	**81044-01**	Spindle Plug Removal Spear • Used on 81044-00
	**81044-02**	Press Plug Remover • Used on 81044-00
	**51011-10**	Drive Handle • Used on press plug installation • Includes O-ring (size -111)
	**51032-10**	Valve Core Installation Tool • Myers 27144 or equivalent • Preset @ 4 in. lb.
	**51032-20**	Thru-tee Installation Socket • 3/8" Drive

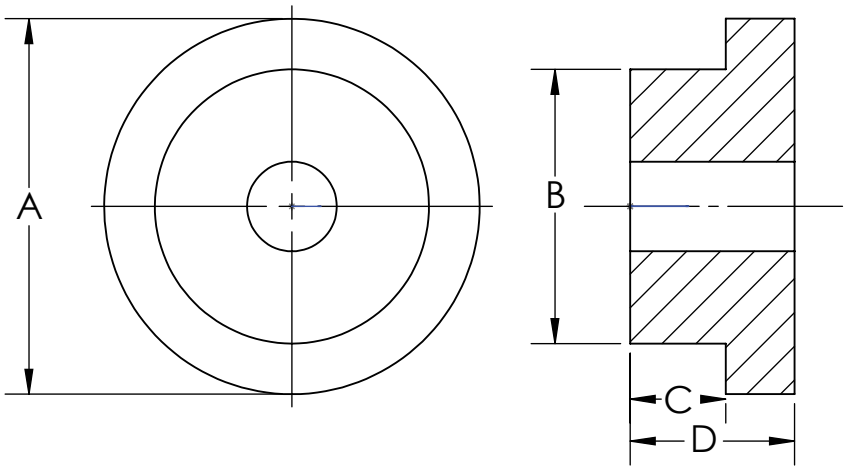
Additional MTIS Service and Speciality Tools available from Hi-Tec Trailer, Inc., (361-728-3102), blanton@hi-tectx.com

Including:
Solid Spindle Drill Jig 81023-00
Tap Guide 81023-10

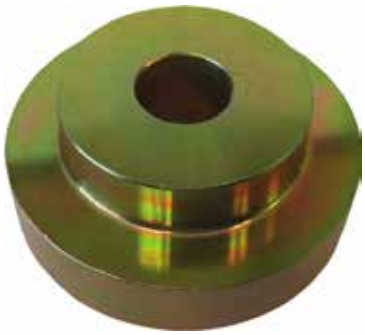
Polishing and Bore Tools available from Grainger® (See MM14P).

COMPONENTS
PRESS PLUG DRIVER HEADS

NOTE: The following driver heads are used with drive handle 51011-10.

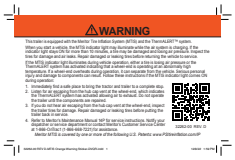


Example Driver Head Shown



		DRIVER HEAD DIMENSIONS (INCHES)			
PART NUMBER	DRIVER HEAD APPLICATION	"A"	"B"	"C"	"D"
51011-01	Holland ProPar	3.25	2.40	0.62	1.00
51011-02	Meritor TN/TQ, RN/RQ, Hendrickson HN, SAF Holland, AXN, HDNABI and Ridewell N-Series, Dana/Eaton D22 Hollow Spindle, Ingersoll F22 (starting Aug. 2017)	2.50	1.51	0.50	1.00
51011-03	Sudisa 12-R	2.75	2.00	0.60	1.00
51011-04	Sudisa 11-M	2.50	1.26	0.57	1.00
51011-05	Holland Trade	2.50	1.69	0.44	1.00
51011-06	Meritor TP/TB, SAF, Hendrickson HP after 2002 (without cotter pin holes)	3.25	2.51	0.49	1.00
51011-07	Meritor WP, SAF, AXN, HDNABI (with cotter pin holes)	3.25	2.51	1.06	1.50
51011-08	Ingersoll F22 (prior to Aug. 2017)	2.50	1.20	0.57	1.00
51011-09	Sudisa 9-M	2.50	1.38	0.56	1.00
51011-11	Hendrickson ProPar (2.50 inch bore)	3.25	2.19	0.56	1.00
51011-13	Dana P22, Hendrickson HP (before 2002)	3.25	2.30	0.40	1.00
51011-14	Meritor TB (2.95 inch, oversized bore)	3.25	2.68	0.45	1.00
51011-15	Dana Modified P22	3.25	2.30	0.937	1.562
51011-16	Meritor TL/LM (2.468 inch)	3.25	2.21	0.685	1.125
51011-17	AXN, HDNABI N-series	2.50	1.51	0.625	1.00
51011-18	AXN, HDNABI P-series (without cotter pin holes)	3.25	2.51	0.615	1.00
51011-19	Meritor Mtec6 TP	3.25	2.642	1.125	1.625
51011-20	Meritor Mtec6 TN	2.50	1.775	0.430	1.00
51011-21	Valx 35mm	2.50	1.125	0.50	1.00

MISCELLANEOUS PARTS

	PART NUMBER	DESCRIPTION
	**31025-01**	Pressure Protection Valve Assembly
	**31982-01**	Small parts assortment (2-axle kit) includes: • Pressure Protection Valve • 1/4 inch NPT x 1/4 inch push-to-connect 90° fitting • 3/8 inch hex nipple • 1/8 NPT x 1/4 inch push-to-connect • 5/16 inch hex head capscrew • 5/16 inch self-locking hex nut • 1/4 inch flat washer • 5/16 inch hex head capscrew • 1/4 inch self-locking hex nut • 1/4 inch tubing union tee
	**31982-02**	Tandem Axle Parts Bag • No Pressure Protection Valve included • All other parts same as in 31982-01
	**31982-02-10**	Single Axle Parts Bag • No Pressure Protection Valve included • All other parts same as in 31982-01
	**31284-00**	Trailer Warning Label • English version
	31284-00-SP	Trailer Warning Label • Spanish version
	**32262-00**	ThermALERT™ Warning Label • English version
	**32262-00-SP**	ThermALERT™ Warning Label • Spanish version

COMPONENTS
HUBCAPS

MERITOR GENUINE HUBCAPS

PART NUMBER	QTY. BOLT HOLES	BOLT CIRCLE (INCHES)	LUBRICANT TYPE	SPINDLE TYPE	SIGHT GLASS	SIDE FILL PORT	INCLUDES MOUNTING HARDWARE	OPTION CODE
A-3262N1522	6	5.5	Grease	N-Series Tapered	None	None	No	NA
A-3262Q1525	6	6.75	Grease	P-Series Straight	None	None	No	NA

NOTE: Hubcaps do not include gasket

DUAL DYNAMICS HUBCAPS

PART NUMBER	QTY. BOLT HOLES	BOLT CIRCLE (INCHES)	LUBRICANT TYPE	SPINDLE TYPE	SIGHT GLASS	SIDE FILL PORT	INCLUDES MOUNTING HARDWARE	OPTION CODE
32270-00	6	4	Oil	Special Drive Axle Hub for Drop Axles	None	1	No	
32273-00	6	5.5	Grease	N-Series Tapered	None	-	No	D2
32283-00	6	5.5	Oil	N-Series Tapered	Min/Max	1	No	D1
32293-00	Screw-on	n/a	Grease	TB	None	-	n/a	D4
32295-00	Screw-on	n/a	Oil	TB	Min/Max	1	n/a	D3
32514-00	6	6.75	Grease	P-Series Straight	None	-	No	D6
32515-00	6	6.75	Oil	P-Series Straight	Min/Max	1	No	D5

NOTE: All hubcap assemblies in this chart include gasket. Hendrickson axles per PSI catalog.
P-Series hubcaps are compatible with Hendrickson P Series Precision 320 spindle nut

HUBCAP ACCESSORIES

PART NUMBER	QTY. BOLT HOLES	BOLT CIRCLE (INCHES)	NOTES	DESCRIPTION
10X1795	5/16 - 18	3/4	Unit Pack of 20	Hubcap Bolt
10x1677	5/16 - 18	5/8	Unit Pack of 20	Hubcap Bolt
2208P1212	6	6.75	Unit Pack of 100pcs	Hubcap TP Gasket, Federal Mogul
2208U1113	6	6.75	Unit Pack of 100pcs	Hubcap TP Gasket, Stemco
2208S1137	6	5.5	Unit Pack of 2pcs	Hubcap TN Gasket, Stemco

SKF HUBCAPS

PART NUMBER	QTY. BOLT HOLES	BOLT CIRCLE (INCHES)	LUBRICANT TYPE	SPINDLE TYPE	SIGHT GLASS	SIDE FILL PORT	CONSTRUCTION	INCLUDES MOUNTING HARDWARE	OPTION CODE
31526-00	6	5.5	Grease	N-Series Tapered	None	-	ZYTEL	Yes	K2
31527-00	6	5.5	Oil	N-Series Tapered	Min/Max	2	ZYTEL	Yes	K1
31537-00	6	6.75	Grease	P-Series Straight	None	-	ZYTEL	Yes	K6
31539-00	6	6.75	Oil	P-Series Straight	Min/Max	2	ZYTEL	Yes	K5

NOTE: All hubcap assemblies in this chart include gasket and hardware.
P-Series hubcaps are compatible with Hendrickson P Series Precision 320 spindle nut

STEMCO HUBCAPS

PART NUMBER	QTY. BOLT HOLES	BOLT CIRCLE (INCHES)	LUBRICANT TYPE	SPINDLE TYPE	SIGHT GLASS	SIDE FILL PORT	INCLUDES MOUNTING HARDWARE
31426-00	6	5.5	Grease	N-Series	Tapered Opaque	-	No
31427-00	6	5.5	Oil	N-Series	Tapered Min/Max	1	No
31436-00	Screw-on	n/a	Grease	TB	Opaque	-	n/a
31437-00**	6	6.75	Grease	P-Series Straight	Opaque	-	No
31438-00	Screw-on	n/a	Oil	TB	Min/Max	1	n/a
31439-00**	6	6.75	Oil	P-Series	Straight Min/Max	1	No

NOTE: All hubcap assemblies in this chart include gasket.
*Effective May 9, 2022 the manufacturer has suspended production of this hubcap
**Hubcap is NOT compatible with Hendrickson axles. Reference Meritor PIL-18B001.

Hubcap Installation on Hendrickson Axles

CAUTION

There are certain hub caps that interfere with the Hendrickson P Series Precision 320 spindle nut. This is an issue with the hub cap and spindle nut, and not the MTIS.

SOLUTION: Please refer to PIL-18B001 for a list of MTIS ready hub caps that have been validated to provide sufficient clearance on the Hendrickson axles equipped with this nut.

NUMERICAL LISTING

PART NUMBER	PAGE NUMBER
10X1677	20
10X1795	20
2208P1212	20
2208S1137	20
2208U1113	20
11342-04	15
11363-08-50	15
31025-01	19
31052-35	13
31073-00	12
31083-01	11
31083-02	11
31083-04	12
31083-09	10, 12
31083-12	12
31083-28	9
31083-33	9
31084-01	11
31084-01-A	11
31084-08	10
31084-10	12
31084-13	10
31084-14	9
31092-00	9
31092-002	9
31103-00	11
31104-00	9
31105-00	9
31114-00	11
31182-40	13
31182-70	13
31263-01	13
31263-11	13
31263-14	13
31284-00	19
31284-00-SP	19
31313-29-M	14
31314-21	14
31317-00	14
31317-00S	14
31317-03	14
31317-03S	14
31317-04	14
31317-04S	14
31363-00	15
31363-00-CP	15
31363-00-CP2	15
31364-00	15
31364-00-CP	15
31364-00-CP2	15
31373-00	15
31373-00-CP	15
31373-00-CP2	15
31373-11	15
31373-11-CP	15
31373-11-CP2	15
31373-16	15
31373-16CP	15
31374-00	15
31374-00-CP	15
31374-00-CP2	15
31426-00	21
31427-00	21
31436-00	21
31437-00	21
31438-00	21
31439-00	21
31526-00	21
31527-00	21
31537-00	21
31539-00	21
31935	16
31982-01	19
31982-02	19
31982-02-10	19
32262-00	19
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32270-00	20
32273-00	20
32283-00	20
32293-00	20
32295-00	20
32342-01-A	16
32382-01-A	16
32514-00	20
32515-00	20
32601-01-A	16
32611-01-A	16
32701-01-A	16
32771-01-A	16
51011-01	16, 18
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51011-18	18
51011-19	16, 18
51011-20	16, 18
51011-21	18
51032-00	17
51032-10	17
51032-20	17
81044-00	17
81044-01	17
81044-02	17
A-3262N1522	20
A-3262Q1525	20
H1021-01-A	16
H1151	16
H1263-06	13
H1955	16
H1965	16
H1965-22	7
H1965-22	7
H1975	16
H1975-22	7
H1975-22-5	7
H1975-22-5	7
H1985	16
H1995	16
H2184-01-A	16
H2190-01-A	16
H2200-02	16
H2202-01-A	16

Notes:

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