

PRODUCT: TOP DRIVE

DATE: 06.08.2010

SUBJECT: ROTARY HOSE RETENTION, 275-DC, 350-AC, 4017-AC, 350/500-DC

SERIAL NUMBERS: 275T-DC - 004,005,010,011,013,030,036,041,047,062,076,092,097,111,116,123,124,132,138,139,143,144,145,146,152,160,162,163,169,175,178,187,189,190,192,193,195,197,203,205,210,211,213,220,225,226,228,232,233,234,235,238,266,360,362,410,414,463,477,486,520,526,562,564,594
350-AC - 454,499,517,531,535,548,582,606,642,667,682,720,745,761,767,782,784,787,793
4017-AC – 550,554,566,567,586,587,592,644,659,677,679,689,692,710,712,726,733,734,736,760,774,776,804,810
350/500T-DC - 007,008,014,015,016,017,018,019,020,021,022,023,024,025,027,028,029,031,032,033,034,035,037,038,039,040,042,043,044,045,046,048,051,052,053,054,055,056,058,059,060,061,063,064,065,067,068,069,070,072,073,074,075,077,078,079,081,082,083,084,086,087,088,089,090,091,093,094,095,098,099,100,101,102,104,105,107,108,110,112,113,114,115,117,118,119,120,122,125,126,127,128,129,134,140,142,149,150,154,155,157,158,161,164,165,167,168,170,171,172,174,176,180,182,183,184,185,188,191,194,196,198,201,202,204,206,207,215,216,217,219,222,223,224,236,237,241,242,244,245,260,269,296,303,305,307,309,310,314,319,323,329,331,337,339,342,343,382,388,392,413,415,426,431,440,449,489,501,510,515,521,522,525,534,595,633,686

DISCUSSION: It was reported that Rotary Hose safety clamp was secured to the Top Drive Guard with a safety sling which caused a Top Drive Guard member to break off and fall to the rig's floor. This is not a recommended practice.

RECOMMENDATION: If a suitable "tie-off" point is currently not sufficient, kits have been created to provide a permanent "tie-off" location for Rotary Hose Clamp.

Refer to the following Rotary Hose Retention Kits for an itemized parts listing. The following kits will require a modification to the Top Drive Main Housing.

TD Models:

Rotary Hose Retention Kits:

6027DC

AY16655

350AC

AY16664

4017AC

AY16675

350/500DC

AY16686

INFORMATION:

For further information contact:

For a complete list of all bulletins go to www.canrig.com

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275T-DC Rotary Hose Retention (AY16655) Procedure:

Parts:

DT19072 - MOD, HOUSING, 275T, ROTARY HOSE RETENTION
DT19071 - PLATE, RETROFIT, ROTARY RETENTION, 275T
SH-0750NC-0125-W - CAPSCR, HEX SOC HD, 3/4-10UNC x 1.25, W
LW-0750-NLS - LOCKWASHER, 3/4 NORD-LOCK SMALL
M21-2000-010 - WIRE ROPE, 1/16", 7 x 7, STAINLESS
M19-3006-010 - FERRULE, 1/16, OVAL, ALUMINUM
E03-2000-010 - CABLE TIE, 13.4 IN LG
(CUSTOMER SUPPLIED) 7/8" x 32" LG WIRE ROPE SLING W/ HEAVY DUTY THIMBLE
AND 7/8" SHACKLE

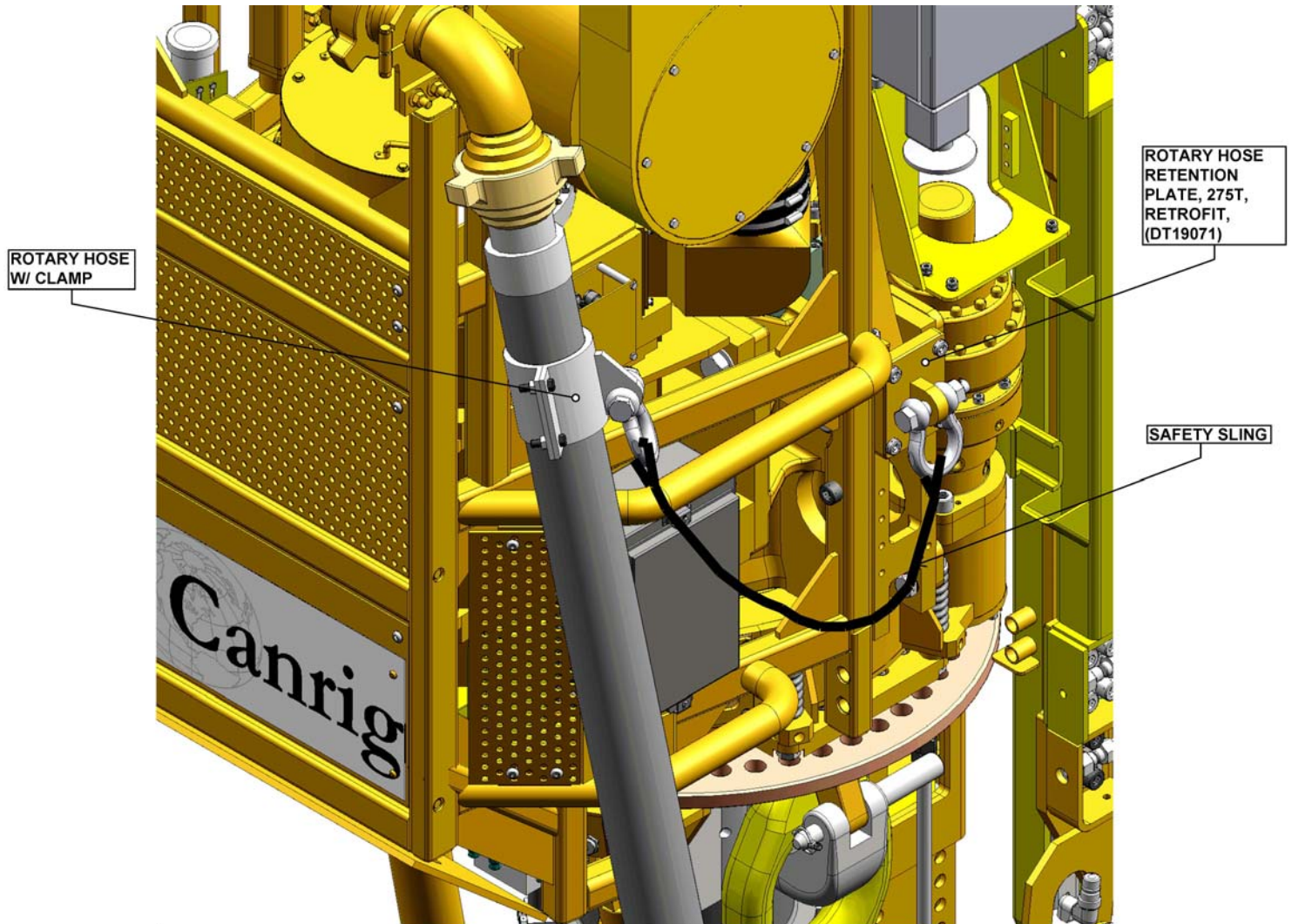


Fig. 1

1. Refer to included drawing (DT19072) for Top Drive Housing modification to drill and tap (4) holes at specified dimensional location in drawing. See Fig. 1.
2. After holes are tapped, install Rotary Hose Retention Plate (DT19071) with (4) 3/4"-10UNC x 1 1/4" (SH-0750NC-0125-W) capscrews and (4) Nordloc washers (LW-0750-NLS).
3. Torque the (4) 3/4"-10UNC x 1 1/4" (SH-0750NC-0125-W) capscrews to 350 ft-lbs and safety wire with (M21-2000-010) and (M19-3006-010).
4. Install one end of sling to shackle and attach to lug in Rotary Hose Retention Plate (DT19071). (Sling and shackle supplied by customer.)
5. Install the other of sling to shackle and attach on the Rotary Hose Clamp. Tie-wrap slings to eliminate excess slack with (E03-2000-010). Final assembly should be as shown in Fig 1.

350T-AC Rotary Hose Retention (AY16664) Procedure:

Parts:

DT19084 - MOD, HOUSING, ROTARY HOSE RETENT., 350T-AC
DT19083 - PLATE, ROTARY HOSE RETENTION, 350T-AC
SH-1000NC-0200-W - CAPSCR, HEX SOC HD, 1-8UNC x 2.00, W
LW-1000-NL - LOCKWASHER, 1 NORD-LOCK
M21-2000-010 - WIRE ROPE, 1/16", 7 x 7, STAINLESS
M19-3006-010 - FERRULE, 1/16, OVAL, ALUMINUM
E03-2000-010 - CABLE TIE, 13.4 IN LG
(CUSTOMER SUPPLIED) 7/8" x 40" LG WIRE ROPE SLING W/ HEAVY
DUTY THIMBLE AND 7/8" SHACKLE

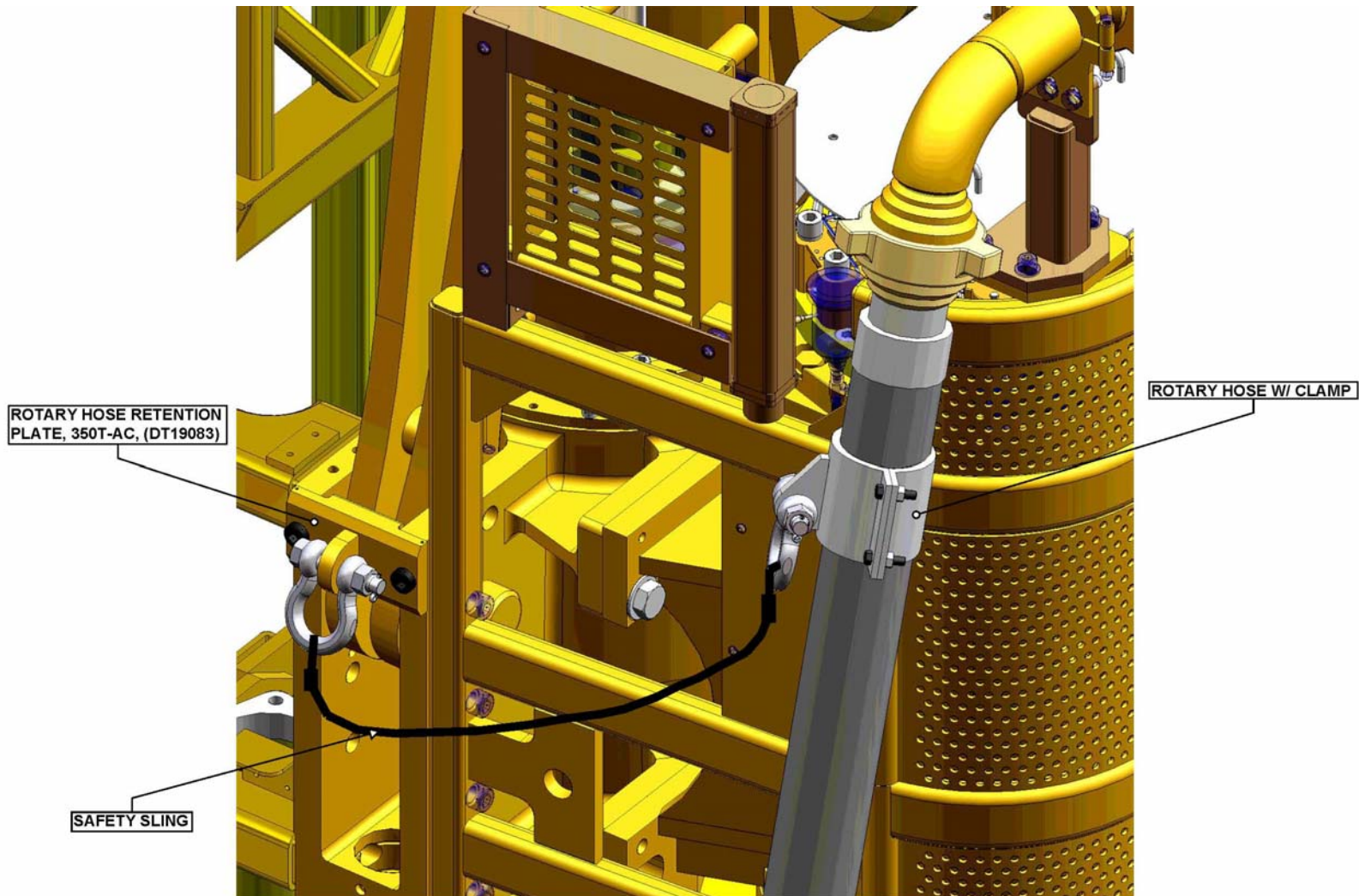


Fig. 2

1. Refer to included drawing (DT19084) for Top Drive Housing Modification to drill and tap (2) holes at specified dimensional location in drawing. See Fig. 2.
2. After holes are tapped, install Rotary Hose Retention Plate (DT19083) with (2) 1"-8UNC x 2" (SH-1000NC-0200-W) capscrews and (2) Nordloc washers (LW-1000-NL).
3. Torque the (2) 1"-8UNC x 2" (SH-1000NC-0200-W) capscrews to 848 ft-lbs and safety wire with (M21-2000-010) and (M19-3006-010).
4. Install one end of sling to shackle and attach to lug in Rotary Hose Retention Plate (DT19083). (Sling and shackle supplied by customer.)
5. Install the other of sling to shackle and attach on the Rotary Hose Clamp. Tie-wrap sling to eliminate excess slack with (E03-2000-010) Final assembly should be as shown in Fig 2.

175T-AC Rotary Hose Retention (AY16675) Procedure:

Parts:

DT19121 - MOD, HSG EAR, ROTARY RETENTION, 4017T-AC
DT19107 - PLATE, ROTARY HOSE RETENTION, 4017-AC
SH-0750NC-0125-W - CAPSCR, HEX SOC HD, 3/4-10UNC x 1.25, W
LW-0750-NLS - LOCKWASHER, 3/4 NORD-LOCK SMALL
M21-2000-010 - WIRE ROPE, 1/16", 7 x 7, STAINLESS
M19-3006-010 - FERRULE, 1/16, OVAL, ALUMINUM
E03-2000-010 - CABLE TIE, 13.4 IN LG
(CUSTOMER SUPPLIED) 7/8" x 50" LG WIRE ROPE SLING W/ HEAVY
DUTY THIMBLE AND 7/8" SHACKLE

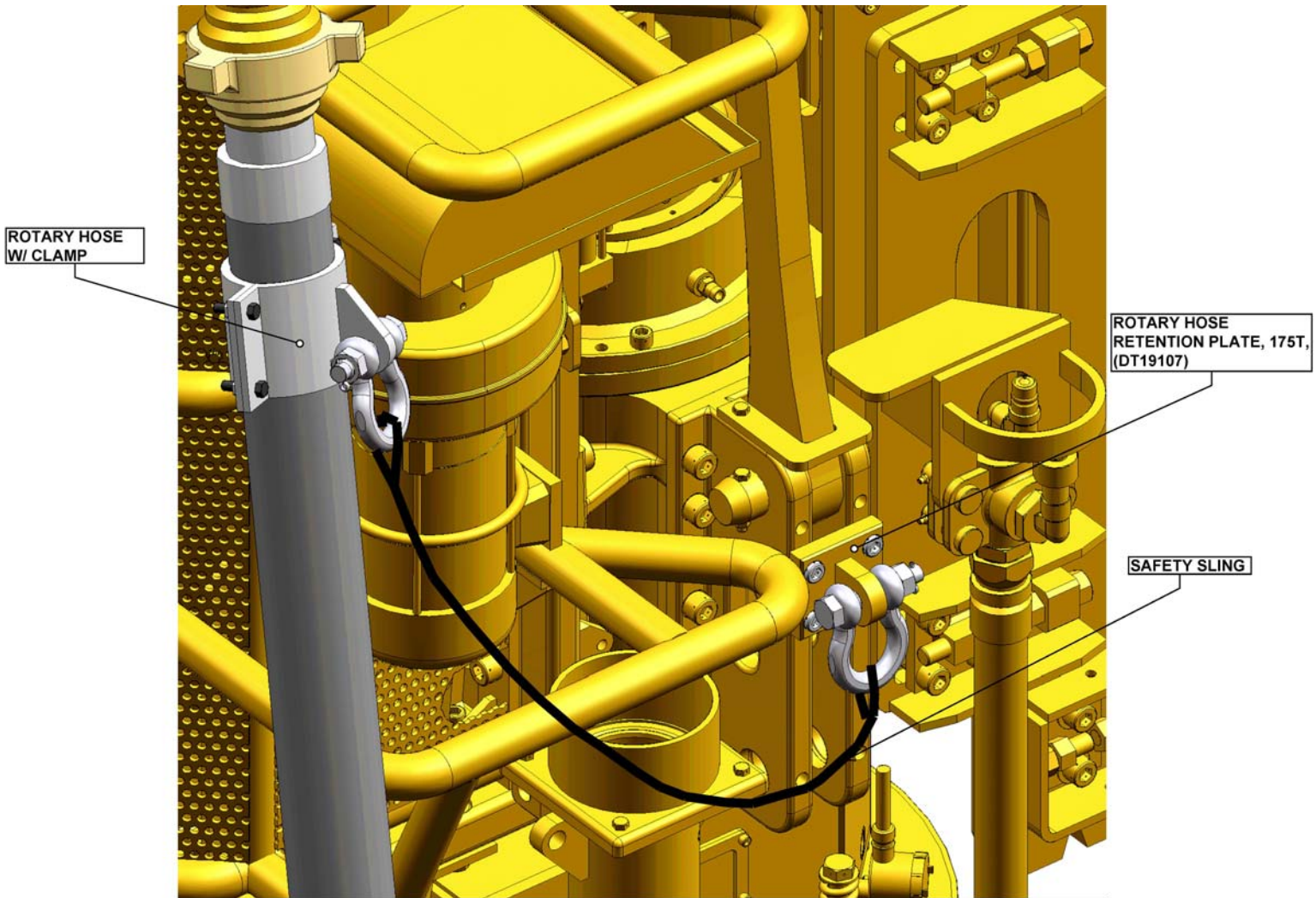


Fig. 3

1. Refer to included drawing (DT19121) for Top Drive Housing modification to drill and tap (4) holes at specified dimensional location in drawing. See Fig. 3.
2. After holes are tapped, install Rotary Hose Retention Plate (DT19107) with (4) 3/4"-10UNC x 1 1/4" (SH-0750NC-0125-W) capscrews and (4) Nordloc washers (LW-0750-NLS)
3. Torque the (4) 3/4"-10UNC x 1 1/4" (SH-0750NC-0125-W) capscrews to 350 ft-lbs and safety wire with (M21-2000-010) and (M19-3006-010).
4. Install one end of sling to shackle and attach to lug in Rotary Hose Retention Plate (DT19107) . (Sling and shackle supplied by customer.)
5. Install the other of sling to shackle and attach on the Rotary Hose Clamp. Tie-wrap slings to eliminate excess slack with (E03-2000-010). Final assembly should be as shown in Fig 3.

350/500T-DC Rotary Hose Retention (AY16686) Procedure:

Parts:

DT19158 - PLATE,ROTARY HOSE RETENTION,350/500T-DC
SH-0750NC-0400-W - CAPSCR, HEX SOC HD, 3/4-10UNC x 4.00, W
LW-0750-NLS - LOCKWASHER, 3/4 NORD-LOCK SMALL
M21-2000-010 - WIRE ROPE, 1/16", 7 x 7, STAINLESS
M19-3006-010 - FERRULE, 1/16, OVAL, ALUMINUM
E03-2000-010 - CABLE TIE, 13.4 IN LG
(CUSTOMER SUPPLIED) 7/8" x 43" LG WIRE ROPE SLING W/ HEAVY
DUTY THIMBLE AND 7/8" SHACKLE

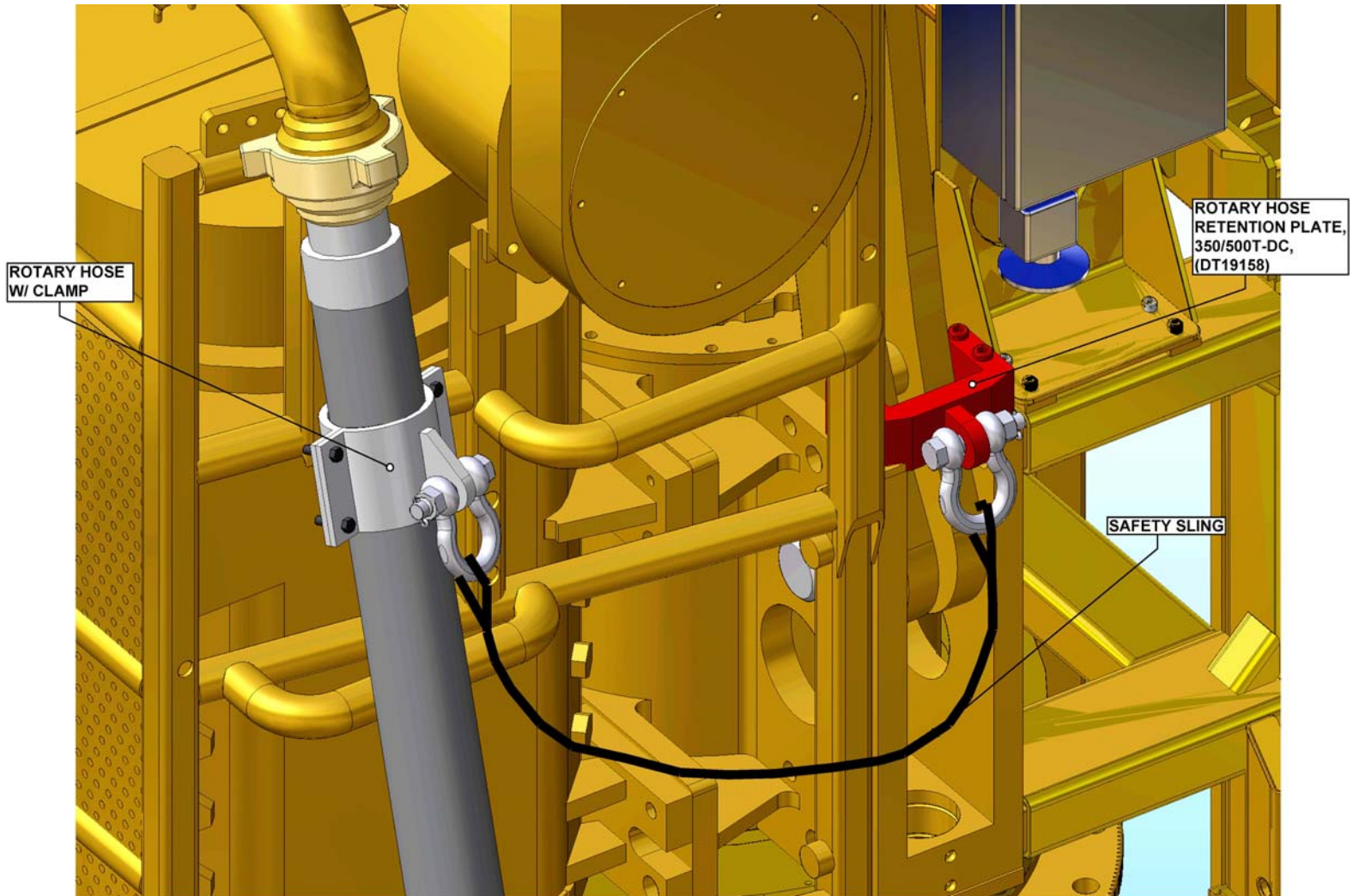


Fig. 4

1. Remove existing Upper Link Retainer with (2) $\frac{3}{4}$ "-10UNC 1 $\frac{1}{2}$ " LG capscrews and replace with Rotary Hose Retention Kit (AY16686) for 350/500T-DC which includes Rotary Hose Retention Plate (DT19158) with (4) $\frac{3}{4}$ "-10UNC x 4" (SH-0750NC-0400-W) capscrews and (4) Nordloc washers (LW-0750-NLS). See Fig. 4.
2. Torque the (4) $\frac{3}{4}$ "-10UNC x 4" (SH-0750NC-0400-W) capscrews to 350 ft-lbs and safety wire with (M21-2000-010) and (M19-3006-010).
3. Install one end of sling to shackle and attach to lug in Rotary Hose Retention Plate (DT19158). (Sling and shackle supplied by customer.)
4. Install other end of sling to other shackle and install on the Rotary Hose Clamp. Tie-wrap sling to eliminate excess slack with (E03-2000-010). Final assembly should be as shown in Fig. 4.

275T-DC Rotary Hose Retention (AY16655) Procedure:

Parts:

DT19072 - MOD, HOUSING, 275T, ROTARY HOSE RETENTION
DT19071 - PLATE, RETROFIT, ROTARY RETENTION, 275T
SH-0750NC-0125-W - CAPSCR, HEX SOC HD, 3/4-10UNC x 1.25, W
LW-0750-NLS - LOCKWASHER, 3/4 NORD-LOCK SMALL
M21-2000-010 - WIRE ROPE, 1/16", 7 x 7, STAINLESS
M19-3006-010 - FERRULE, 1/16, OVAL, ALUMINUM
E03-2000-010 - CABLE TIE, 13.4 IN LG
(CUSTOMER SUPPLIED) 7/8" x 32" LG WIRE ROPE SLING W/ HEAVY DUTY THIMBLE
AND 7/8" SHACKLE

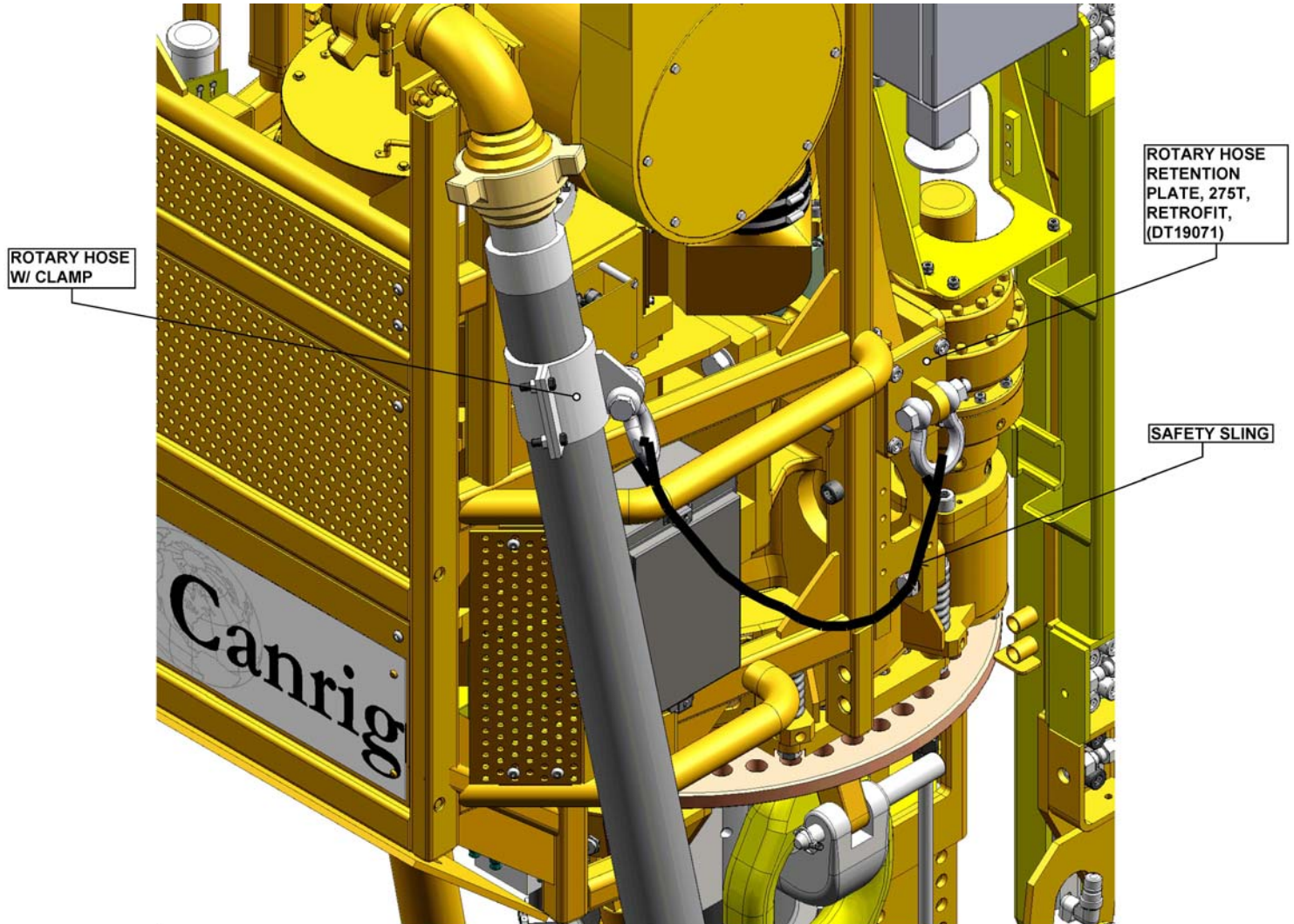


Fig. 1

1. Refer to included drawing (DT19072) for Top Drive Housing modification to drill and tap (4) holes at specified dimensional location in drawing. See Fig. 1.
2. After holes are tapped, install Rotary Hose Retention Plate (DT19071) with (4) 3/4"-10UNC x 1 1/4" (SH-0750NC-0125-W) capscrews and (4) Nordloc washers (LW-0750-NLS).
3. Torque the (4) 3/4"-10UNC x 1 1/4" (SH-0750NC-0125-W) capscrews to 350 ft-lbs and safety wire with (M21-2000-010) and (M19-3006-010).
4. Install one end of sling to shackle and attach to lug in Rotary Hose Retention Plate (DT19071). (Sling and shackle supplied by customer.)
5. Install the other of sling to shackle and attach on the Rotary Hose Clamp. Tie-wrap slings to eliminate excess slack with (E03-2000-010). Final assembly should be as shown in Fig 1.

350T-AC Rotary Hose Retention (AY16664) Procedure:

Parts:

DT19084 - MOD, HOUSING, ROTARY HOSE RETENT., 350T-AC
DT19083 - PLATE, ROTARY HOSE RETENTION, 350T-AC
SH-1000NC-0200-W - CAPSCR, HEX SOC HD, 1-8UNC x 2.00, W
LW-1000-NL - LOCKWASHER, 1 NORD-LOCK
M21-2000-010 - WIRE ROPE, 1/16", 7 x 7, STAINLESS
M19-3006-010 - FERRULE, 1/16, OVAL, ALUMINUM
E03-2000-010 - CABLE TIE, 13.4 IN LG
(CUSTOMER SUPPLIED) 7/8" x 40" LG WIRE ROPE SLING W/ HEAVY
DUTY THIMBLE AND 7/8" SHACKLE

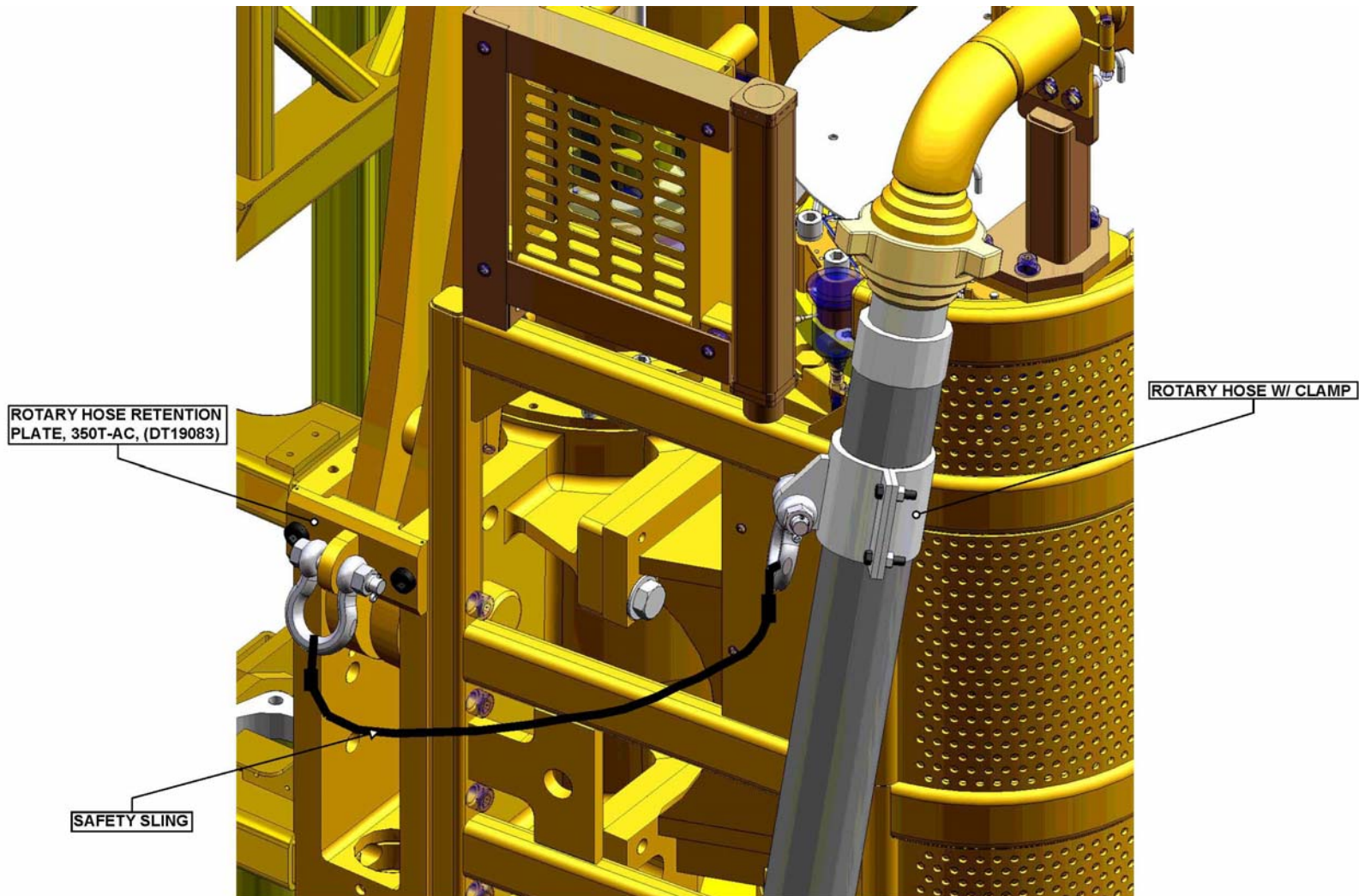


Fig. 2

1. Refer to included drawing (DT19084) for Top Drive Housing Modification to drill and tap (2) holes at specified dimensional location in drawing. See Fig. 2.
2. After holes are tapped, install Rotary Hose Retention Plate (DT19083) with (2) 1"-8UNC x 2" (SH-1000NC-0200-W) capscrews and (2) Nordloc washers (LW-1000-NL).
3. Torque the (2) 1"-8UNC x 2" (SH-1000NC-0200-W) capscrews to 848 ft-lbs and safety wire with (M21-2000-010) and (M19-3006-010).
4. Install one end of sling to shackle and attach to lug in Rotary Hose Retention Plate (DT19083). (Sling and shackle supplied by customer.)
5. Install the other of sling to shackle and attach on the Rotary Hose Clamp. Tie-wrap sling to eliminate excess slack with (E03-2000-010)
Final assembly should be as shown in Fig 2.

175T-AC Rotary Hose Retention (AY16675) Procedure:

Parts:

DT19121 - MOD, HSG EAR, ROTARY RETENTION, 4017T-AC
DT19107 - PLATE, ROTARY HOSE RETENTION, 4017-AC
SH-0750NC-0125-W - CAPSCR, HEX SOC HD, 3/4-10UNC x 1.25, W
LW-0750-NLS - LOCKWASHER, 3/4 NORD-LOCK SMALL
M21-2000-010 - WIRE ROPE, 1/16", 7 x 7, STAINLESS
M19-3006-010 - FERRULE, 1/16, OVAL, ALUMINUM
E03-2000-010 - CABLE TIE, 13.4 IN LG
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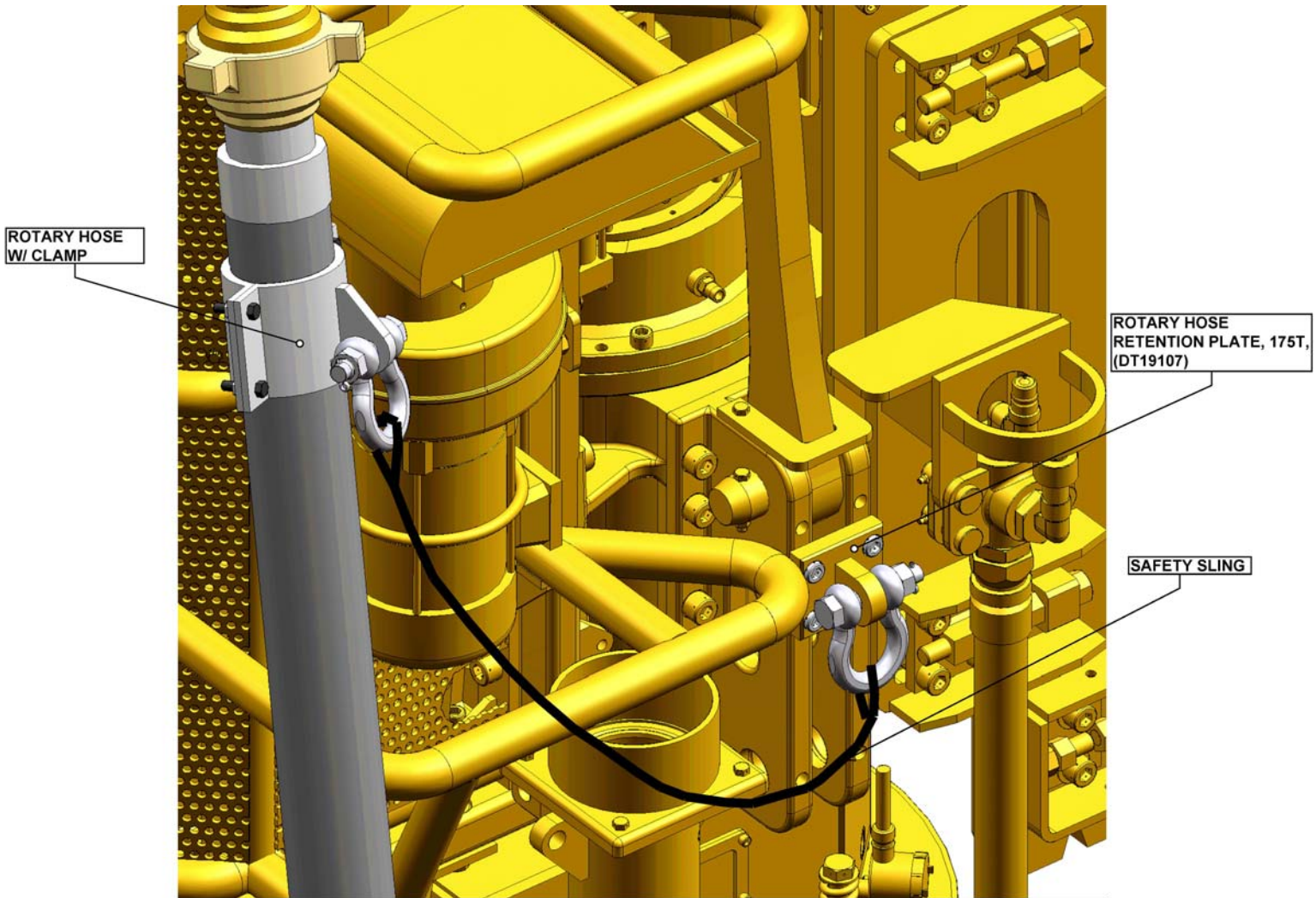


Fig. 3

1. Refer to included drawing (DT19121) for Top Drive Housing modification to drill and tap (4) holes at specified dimensional location in drawing. See Fig. 3.
2. After holes are tapped, install Rotary Hose Retention Plate (DT19107) with (4) 3/4"-10UNC x 1 1/4" (SH-0750NC-0125-W) capscrews and (4) Nordloc washers (LW-0750-NLS)
3. Torque the (4) 3/4"-10UNC x 1 1/4" (SH-0750NC-0125-W) capscrews to 350 ft-lbs and safety wire with (M21-2000-010) and (M19-3006-010).
4. Install one end of sling to shackle and attach to lug in Rotary Hose Retention Plate (DT19107) . (Sling and shackle supplied by customer.)
5. Install the other of sling to shackle and attach on the Rotary Hose Clamp. Tie-wrap slings to eliminate excess slack with (E03-2000-010). Final assembly should be as shown in Fig 3.

350/500T-DC Rotary Hose Retention (AY16686) Procedure:

Parts:

DT19158 - PLATE,ROTARY HOSE RETENTION,350/500T-DC
SH-0750NC-0400-W - CAPSCR, HEX SOC HD, 3/4-10UNC x 4.00, W
LW-0750-NLS - LOCKWASHER, 3/4 NORD-LOCK SMALL
M21-2000-010 - WIRE ROPE, 1/16", 7 x 7, STAINLESS
M19-3006-010 - FERRULE, 1/16, OVAL, ALUMINUM
E03-2000-010 - CABLE TIE, 13.4 IN LG
(CUSTOMER SUPPLIED) 7/8" x 43" LG WIRE ROPE SLING W/ HEAVY
DUTY THIMBLE AND 7/8" SHACKLE

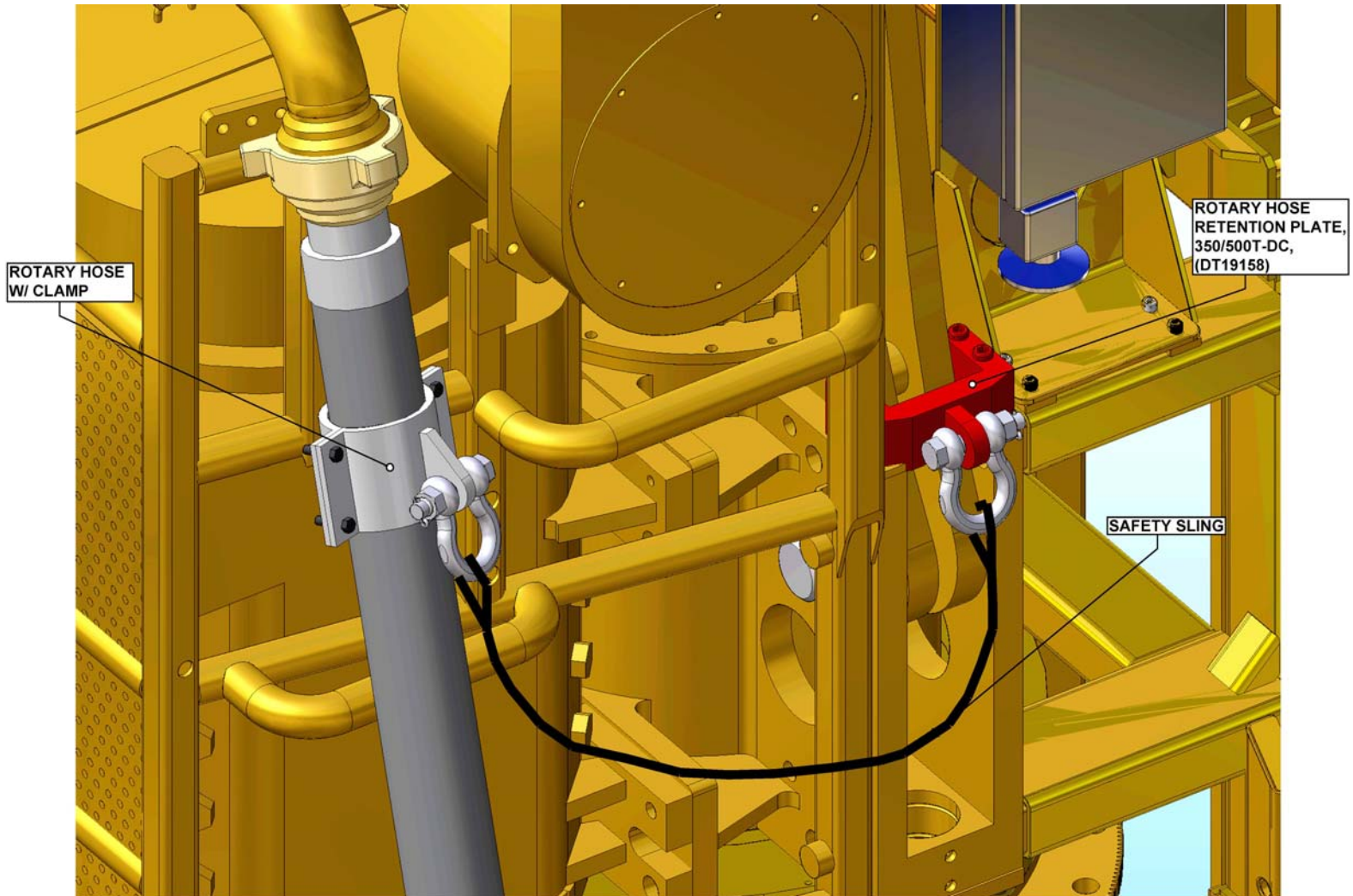


Fig. 4

1. Remove existing Upper Link Retainer with (2) $\frac{3}{4}$ "-10UNC 1 $\frac{1}{2}$ " LG capscrews and replace with Rotary Hose Retention Kit (AY16686) for 350/500T-DC which includes Rotary Hose Retention Plate (DT19158) with (4) $\frac{3}{4}$ "-10UNC x 4" (SH-0750NC-0400-W) capscrews and (4) Nordloc washers (LW-0750-NLS). See Fig. 4.
2. Torque the (4) $\frac{3}{4}$ "-10UNC x 4" (SH-0750NC-0400-W) capscrews to 350 ft-lbs and safety wire with (M21-2000-010) and (M19-3006-010).
3. Install one end of sling to shackle and attach to lug in Rotary Hose Retention Plate (DT19158). (Sling and shackle supplied by customer.)
4. Install other end of sling to other shackle and install on the Rotary Hose Clamp. Tie-wrap sling to eliminate excess slack with (E03-2000-010). Final assembly should be as shown in Fig. 4.

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