



Dual Bait Receptacle

MAN-TTT-760 (R01)

Thru-Tubing Technology

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Dual Bait Receptacle

Description

The Dual Bait Receptacle was designed to be run below a mud motor for milling jobs or for setting various tools in the wellbore. The clutches are designed to transmit adequate torque from the motor to the mill. The Dual Bait Receptacle creates an emergency release in case the mill becomes stuck. The Dual Bait Receptacle can also be used to set packers and various wireline tools either on coil tubing, braided line or wireline.

Operation

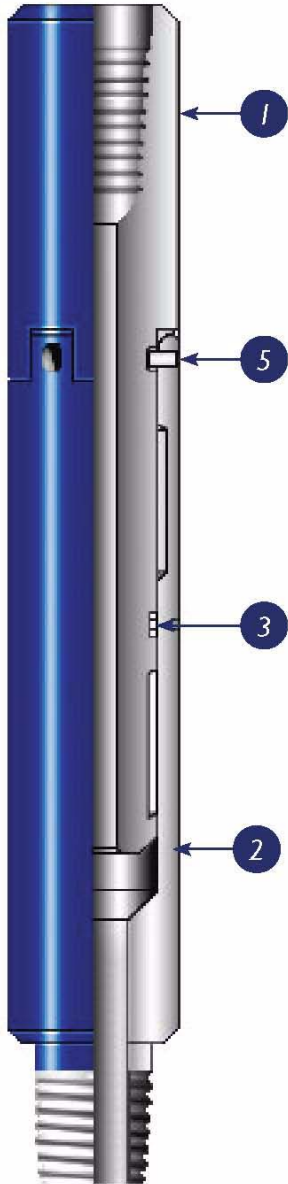
An upward pull will shear the brass shear screws, allowing retrieval of the motor. Depending on the orientation of the receptacle, an internal or external fishing neck is exposed for further fishing procedures.



Note: Unless otherwise indicated, all the strength figures given in this manual, are the result of calculations based on the yield strength of the material used in the manufacture of this product. These strength calculations are considered accurate within plus or minus 20% and are to be used only as a guide. They do not constitute a guarantee, actual or implied. In use, appropriate allowance should be made as a safety factor.

Dual Bait Receptacle

TT0760-175B BOM, Schematic and Specs



ITEM	QTY	TOOL PARTS DESCRIPTION	PART NUMBER
1	1	Top Sub	TT0760-175B-001
2	1	Bottom Sub	TT0760-175B-002
3	1	O-Ring 1 3/16" x 1 3/8" x 3/32"	PUR-TOBV000-123
4	2	Back-Up Rings 1 3/16" x 1 3/8" x 3/32"	PUR-TOBU000-123
5	6	Brass Slotted Shear Screws	PURTBSS121-020

Tool Name: 1.750 in. OD Dual Bait Receptacle

Product Code: TT0760-175B **Tool OD:** 1.750 in. **Tool ID:** 0.50 in.

Material: AISI 4140 HT **Tool Length:** 11.0 in.

Minimum Yield: 100,000 psi

Strength Properties of Tool:

Minimum Yield Point and Load to Yield: The internal fishing neck of the Bottom Sub, 22,100 lbs; the external fishing neck of the Top Sub, **when** the tool is re-engaged with a pulling tool, 29,800 lbs.

Burst Point and Burst Pressure: The O-ring bore of the Bottom Sub, 23,000 psi.

Torsional Weak Point and Ft-Lbs to Yield: 1,820 ft-lbs as a function of torsional yield of the Bottom Sub at the internal fishing neck.

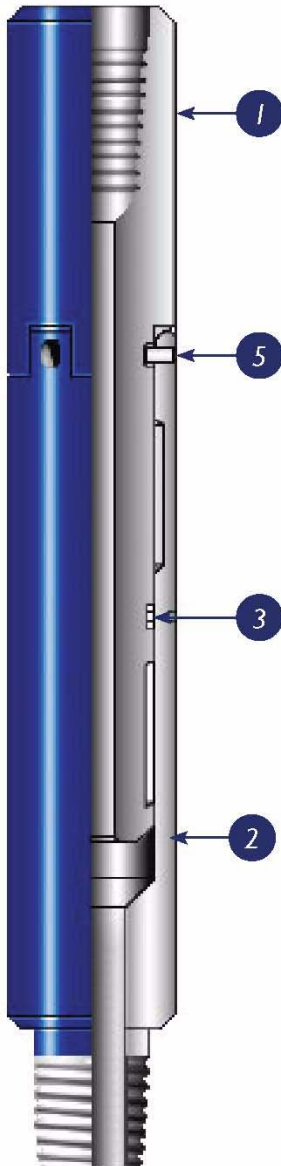
Miscellaneous Information:

Shear Screw Size and Values: 10-32 X 5/16 in. Long Brass Slotted Head Shear Screws, 920 lbs Per Screw (plus or minus 15%).

Fishing Profile: When disconnected, the tool leaves either a 2 in. nominal (1.375 in. ID) internal fishing neck or 2 in. nominal (1.375 in. OD) external fishing neck looking up, depending on the tool's orientation.

Dual Bait Receptacle

TT0760-181B BOM, Schematic and Specs



ITEM	QTY	TOOL PARTS DESCRIPTION	PART NUMBER
1	1	Top Sub	TT0760-181B-001
2	1	Bottom Sub	TT0760-181B-002
3	1	O-Ring 1 3/16" x 1 3/8" x 3/32" 2-123	PUR-TORV000-123
4	2	Back-Up Rings 1 3/16" x 1 3/8" x 3/32" 8-123	PUR-TOBU000-123
5	6	Brass Slotted Shear Screws 10-32 x 5/16"	PUR-TBSS121-020

Tool Name: 1.813 in. OD Dual Bait Receptacle

Product Code: TT0760-181B **Tool OD:** 1.813 in. **Tool ID:** 0.50 in.

Material: AISI 4140 HT **Tool Length:** 11.0 in.

Minimum Yield: 100,000 psi

Strength Properties of Tool:

Minimum Yield Point and Load to Yield: The internal fishing neck on the Bottom Sub, 25,700 lbs; the external fishing neck on the Top Sub, **when** the tool is re-engaged with a pulling tool, 29,800 lbs.

Burst Point and Burst Pressure: The O-ring bore of the Bottom Sub, 26,300 psi.

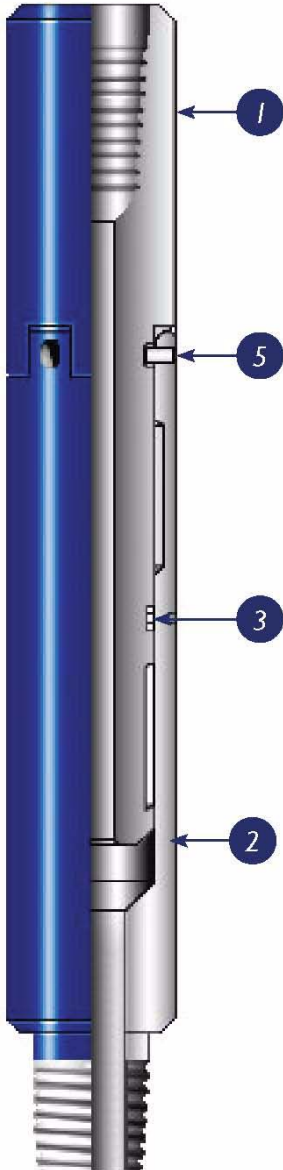
Torsional Weak Point and Ft-Lbs to Yield: 2,270 ft-lbs as a function of torsional yield of the Bottom Sub at the internal fishing neck.

Miscellaneous Information:

Shear Screw Size and Values: 10-32 X 5/16 in. Long Brass Slotted Head Shear Screws, 920 lbs per screw (plus or minus 15%).

Fishing Profile: When disconnected, the tool leaves either a 2 in. nominal (1.375 in. ID) internal fishing neck or 2 in. nominal (1.375 in. OD) external fishing neck looking up, depending on the tool's orientation.

TT0760-213B BOM, Schematic and Specs



ITEM	QTY	TOOL PARTS DESCRIPTION	PART NUMBER
1	1	Top Sub	TT0760-213B-001
2	1	Bottom Sub	TT0760-213B-002
3	1	O-Ring 1 1/2" x 1 3/4" x 1/8" 2-222	PUR-TORV000-222
4	2	Back-Up Rings 1 1/2" x 1 3/4" x 1/8" 8-222	PUR-TOBU000-222
5	6	Brass Slotted Shear Screws 1/4-20 x 1/4"	PUR-TBSS160-016

Tool Name: 2.125 in. OD Dual Bait Receptacle

Product Code: TT0760-213B **Tool OD:** 2.125 in. **Tool ID:** 1.00 in.

Material: AISI 4140 HT **Tool Length:** 13.2 in.

Minimum Yield: 100,000 psi

Strength Properties of Tool:

Minimum Yield Point and Load to Yield: The internal fishing neck of the Bottom Sub, 17,700 lbs; the external fishing neck of the Top Sub, **when** the tool is re-engaged with a pulling tool, 28,400 lbs.

Burst Point and Burst Pressure: The O-ring bore of the Bottom Sub, 18,600 psi.

Torsional Weak Point and Ft-Lbs to Yield: 1,940 ft-lbs as a function of torsional yield of the Bottom Sub at the internal fishing neck.

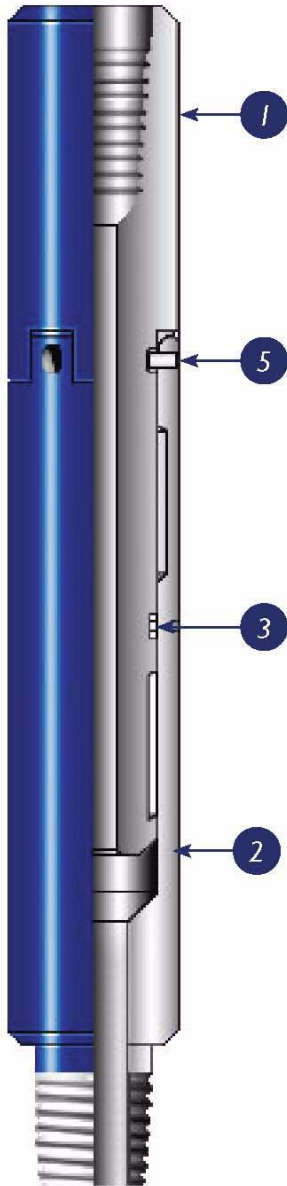
Miscellaneous Information:

Shear Screw Size and Values: 1/4-20 X 1/4 in. Long Brass Slotted Head Shear Screws, 1,415 lbs per screw (plus or minus 15%).

Fishing Profile: When disconnected, the tool leaves either a 2-1/2 in. nominal (1.813 in. ID) internal fishing neck or 2-1/2 in. nominal (1.75 in. OD) external fishing neck looking up, depending on the tool's orientation.

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TT0760-225B BOM, Schematic and Specs



ITEM	QTY	TOOL PARTS DESCRIPTION	PART NUMBER
1	1	Top Sub	TT0760-225B-001
2	1	Bottom Sub	TT0760-225B-002
3	1	O-Ring 1 1/2" x 1 3/4" x 1/8" 2-222	PUR-TORV000-222
4	2	Back-Up Rings 1 1/2" x 1 3/4" x 1/8" 8-222	PUR-TOBU000-222
5	6	Brass Slotted Shear Screws 1/4-20 x 1/4"	PUR-TBSS160-016

Tool Name: 2.250 in. OD Dual Bait Receptacle

Product Code: TT0760-225B **Tool OD:** 2.250 in. **Tool ID:** 1.00 in.

Material: AISI 4140 HT **Tool Length:** 13.2 in.

Minimum Yield: 100,000 psi

Strength Properties of Tool:

Minimum Yield Point and Load to Yield: The external fishing neck of the Top Sub, **when** the tool is re-engaged with a pulling tool, 28,400 lbs; the internal fishing neck of the Bottom Sub, 32,000 lbs.

Burst Point and Burst Pressure: The O-ring bore of the Bottom Sub, 24,100 psi.

Torsional Weak Point and Ft-Lbs to Yield: 3,740 ft-lbs as a function of torsional yield of the Bottom Sub at the internal fishing neck.

Miscellaneous Information:

Shear Screw Size and Values: 1/4-20 X 1/4 in. Long Brass Slotted Head Shear Screws, 1,415 lbs per screw (plus or minus 15%).

Fishing Profile: When disconnected, the tool leaves either a 2-1/2 in. nominal (1.813 in. ID) internal fishing neck or 2-1/2 in. nominal (1.75 in. OD) external fishing neck looking up, depending on the tool's orientation.

1.0 Pre-Assembly



Warning: *Make sure all tool parts and components have been thoroughly cleaned or serious damage and/or injury could occur!*



Note: *Verify that the correct O-ring redress kit and quantities are used as specified on the Bill Of Materials (for example, 5 each etc....). Lay out all redress kit components on a clean surface.*



Note: *Make sure to lubricate all O-rings and threaded surfaces.*



Note: *Visually inspect all parts for damage or wear. Thread parts together without the O-rings to check fit. Repair or replace damaged parts.*



Caution: *Always file wrench marks or burrs and clean off debris!*



Caution: *This tool should always be disassembled, cleaned thoroughly, inspected and reassembled after each job!*

2.0 Assembly

2.1 Grease the entire OD and ID of the Top Sub (item #1).

2.2 Put the O-ring and Backups (item # 3 and 4) onto the ID of the Top Sub in this order; Backup, O-ring, Backup.

2.3 Grease the entire ID of the Bottom Sub.

2.4 Put the Top Sub into a vise. Insert the Bottom Sub into the Top Sub and use a rubber mallet to complete the connection. The torque lugs in both subs should align.

2.5 Finally, according to your desired shear values, screw in the appropriate number of Shear Screws (item #5).

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3.0 Disassembly

3.1 Place the tool in a vise on the Top Sub (item #1).

3.2 Remove and discard the Shear Screws (item #5).

3.3 Remove the Bottom Sub (item #2) from the Top Sub (item #1).

3.4 Remove the Top Sub from the vise.



Note: Remove and discard all O-rings. Replace O-rings after each use. Thoroughly clean tool parts in a cleaner approved by state and/or local laws.



Note: Visually inspect tool for swelling after each use. Damaged or swelled components must be replaced.



Note: It is recommended that a Magnetic Particle Inspection (MPI) be completed on all components after each job.