

# MD 80, DC-9, B-717 Tow Bar Equipment Manual

## **Use This Manual for**

# **1. Operating Procedures**

2. Maintenance Procedures

### 3. Tow Bar and Parts Ordering

### For ordering new Tow Bars or Renewable Parts

Please contact:

Hall Industries Equipment Division One USS Industrial Park Ellwood City, PA 16117 Phone (724) 752-2000 FAX (724) 752-8666



#### MD 80, DC 9, B-717 EQUIPMENT MANUAL

SECTION I	<b>Description – Dimensions and Weights</b>
SECTION II	<b>Operating Procedures</b>
SECTION III	Maintenance Procedures
SECTION IV	Renewal Parts

#### SECTION I DESCRIPTION – DIMENSIONS AND WEIGHTS MD 80, DC 9, B-717 TOW BAR ASSEMBLY TB-9205

Weight:	
Body	110#
Head with Adapter	110#
Tow Bar, COMPLETE	220#
Length:	
Body with Tow Eye	111"
Head with Adapter	41"
Total Assembly	152"
Width:	
Yoke	48"
Height:	
Body	26"
Yoke	12"

Hall Industries, Inc. - 514 Mecklem Ln. - Ellwood City, PA 16117For more information, contactPhone: 724-752-2000 Fax: 724-758-1558 Web: www.hallindustries.comservice@hallindustries.com



#### SECTION II OPERATING PROCEDURE MD 80, DC 9, B-717 TOW BAR ASSEMBLY

#### A. ATTACHING TOW BAR TO AIRCRAFT

The aircraft can be towed forward or pushed aft on hard surfaces using a yoke-type Tow Bar. The Tow Bar attaches to the nose wheel axle by means of the extension pins on the yoke. When the tow bar yoke is lined up with the nose gear, the extension pins have to be manually locked in position on both sides of the nose gear by the operator.

#### **B.** ATTACHING TOW BAR TO TOW TRACTOR

Once the tow bar is securely attached to the nose gear, the tow tractor should be placed at the centerline of the Tow Bar. The operator must manually lift the tow bar to engage with the tow tractor and install the locking pin.

#### C. PUSHING THE AIRCRAFT

This must be done in accordance with the instructions in McDonnell Douglas Facility and Equipment Planning Manual.

**CAUTION:** If at any time the jack knife protection torque shear bolt yields or breaks, carefully bring the aircraft to a stop. Before pushing or tow can be continued a new jack knife protection torque shear bolt must be inserted. Use only a Hall Industries shear bolt as follows, Part Number TB-9205-2, (7,760#).

#### D. DISCONNECTING TOW BAR FROM AIRCRAFT

Release the extension pins manually to release the yoke from the nose gear on the aircraft. Carefully move the tow bar and tow tractor clear of the aircraft.



#### SECTION III MAINTENANCE PROCEDURES MD 80, DC 9, B-717 TOW BAR ASSEMBLY

- A. Check wheels and wheel castors for bent, broken, or worn parts and security. Lubricate pivot points. Lubricate wheel bearings.
- B. Check yoke assembly for operation of lock mechanisms, spring wear and free movement of locking pins. Lubricate pivot points.
- C. Inspect yoke assembly for worn or damaged parts and security.
- D. Check tow eye on tow bar for condition and security.
- E. Check tow bar main body tube for bending or cracking.
- F. Check shear pin and bushings for breakage, wear and security.
- G. Clean, repaint or touch-up paint as required.
- H. Inspect for missing or illegible instruction plaques. Replace as required. See Attachment #1

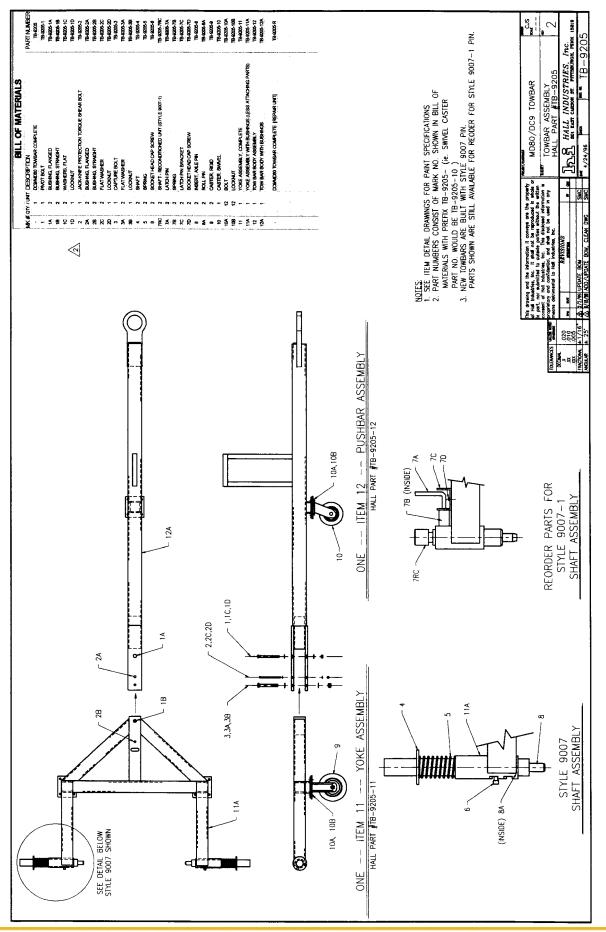


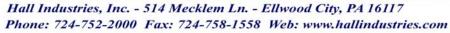


#### SECTION IV RENEWAL PARTS MD80, DC9 TOW BAR ASSEMBLY

#### MD80, DC9 TOW BAR ASSEMBLY DWG TB-9205

MK #	QTY / UNIT	DESCRIPTION	PART NUMBER
	1	DC9/MD80 TOWBAR COMPLETE	TB-9205
1	1	PIVOT BOLT	TB-9205-1
1A	2	BUSHING, FLANGED	TB-9205-1A
1B	2	BUSHING, STRAIGHT	TB-9205-1B
1C	2	WASHERS, FLAT	TB-9205-1C
1D	1	LOCKNUT	TB-9205-1D
2	1	SHEAR BOLT	TB-9205-2
2A	2	BUSHING, FLANGED	TB-9205-2A
2B	2	BUSHING, STRAIGHT	TB-9205-2B
2C	2	FLAT WASHER	TB-9205-2C
2D	1	LOCKNUT	TB-9205-2D
3	1	CAPTURE BOLT	TB-9205-3
3A	2	FLAT WASHER	TB-9205-3A
3B	1	LOCKNUT	TB-9205-3B
4	2	SHAFT	TB-9205-4
5	2	SPRING	TB-9205-5
6	2	SOCKET HEAD CAP SCREW	TB-9205-6
8	2	INSERT, AXLE	TB-9205-8
8A	2	ROLL PIN	TB-9205-8A
9	2	CASTER, RIGID	TB-9205-9
10	1	CASTER, SWIVEL	TB-9205-10
10A	12	BOLT	TB-9205-10A
10B	12	LOCKNUT	TB-9205-10B
11	1	YOKE ASSEMBLY, COMPLETE	TB-9205-11
11A	1	YOKE ASSEMBLY (LESS ATTACHING PARTS/ WITH	TB-9205-11A
		BUSHINGS)	
12	1	TOW BAR BODY ASSEMBLY	TB-9205-12
12A	1	TOW BAR BODY (LESS ATTACHING PARTS/ WITH BUSHING	TB-9205-12A
		DC9/MD80 TOWBAR COMPLETE [REPAIR UNIT]	TB-9205-R





For more information, contact service@hallindustries.com

ORDERING INFO:   1. TO ADD TO THE LOCKING FEATURE TO A EXISTING 9205 BAR YOU WILL NEED TO PURCHASE TWO OF NUMBER ~ TB-9205-AT-1001-KIT   2. TO PURCHASE A NEW TOWBAR HEAD WITH THE LOCKING FEATURE INSTALLED YOU WILL NEED TO PURCHASE NUMBER ~ TB-9205-AT-11   3. TO PURCHASE A NEW COMPLETE TOWBAR YOU WILL NEED TO PURCHASE NUMBER ~ TB-9205-AT-11   3. TO PURCHASE A NEW COMPLETE TOWBAR YOU WILL NEED TO PURCHASE NUMBER ~ TB-9205-AT	REVISIONS   REV DESCRIPTION DATE BY CHK
TH44400845S0000 T-HANDLE QUICK RELEASE PIN	TB-9205-AT-1002 SAFETY RING TB-9205-AT-1001 SLIDE BOLT
(TB-9205-8A_ROLL PIN) (TB-9205-6_SHC SCREW) (TB-9205-AT-1004)	LANYARD 4"
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