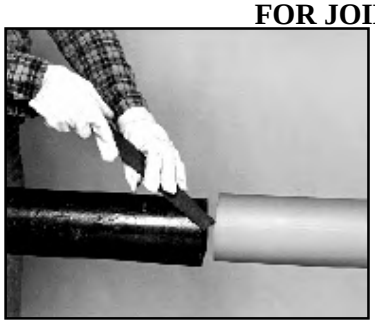
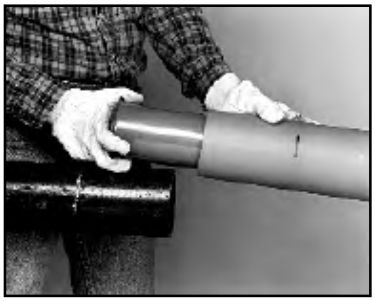
Class I-EZ IPS Straight Conductive
Class II-EZ IPS Reducing Conductive

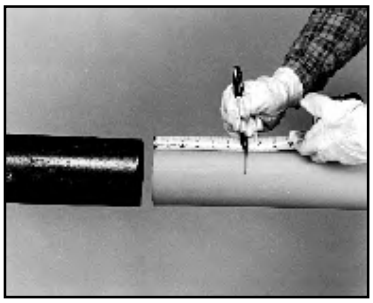
INSTALLATION INSTRUCTIONS
FOR JOINING IPS STEEL AND PLASTIC PIPE IN ANY COMBINATION



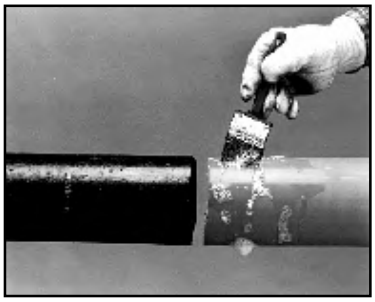
1. Clean pipe ends at least 6" back from end, removing dirt, rust, oil and scale. Pipe ends must be cut square (straight) and be free of longitudinal grooves. NOTE: Pipes may be abutted, but a gap of ¼" is recommended to allow for pipe expansion into coupling.



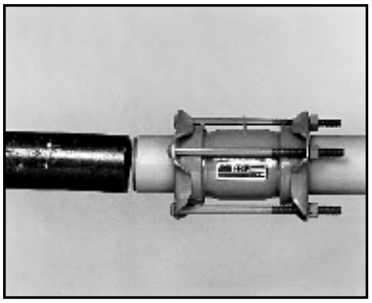
2. When joining plastic pipe, insert a properly sized metallic stiffener into plastic pipe end(s). The stiffener must be at least 7" long and be marked with the same SDR as the pipe.



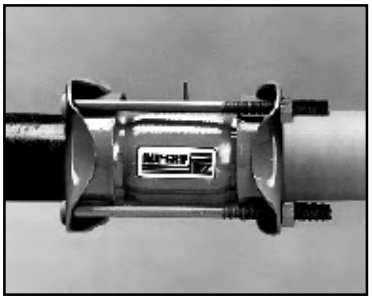
3. Mark each pipe 6" back from end.



4. Lubricate pipes and coupling gaskets.



5. Pull coupling entirely onto one pipe (if reducing, pull onto smaller pipe). If coupling does not stab easily onto pipe, see other side of these instructions.



6. Back coupling over second pipe and center between marks on pipes.

7. Alternate tightening nuts opposed to each other. Torque nuts fully and evenly to:

1 ¼ IPS
- 30 ft.-lbs Minimum
- 40 ft.-lbs. Minimum

All other sizes
- 80 ft.-lbs. Minimum
- 100 ft.-lbs. Minimum

PRESSURE RATING
200 WOG (PE to PE)
200 WOG (PE to STEEL)
300 WOG (STEEL to STEEL)

Tensile Rating
Per DOT 192.283 (b)

Class I-IPS Straight-Conductive

PIPE DIAMETER		CATALOG NUMBER	CERTIFIED PER CFR 49 PART 192.283 (B)*	
NOMINAL	ACTUAL	CONDUCTIVE	PE 2306/2406	PE 3406/3408
1-1/4	1.660	EZ18A7UMG	SDR 10	SDR 9.33
2	2.375	EZ28A7UMG	SDR 11	SDR 9.33
3	3.500	EZ38A7UMG	SDR 11	SDR 9.33
4	4.500	EZ48A7UMG	SDR 11	SDR 9.33
6	6.625	EZ68A7UMG	SDR 11	SDR 11
8	8.625	EZ88A7UMG	SDR 11	SDR 11

Class II-IPS Reducing-Conductive

PIPE DIAMETER		CATALOG NUMBER	CERTIFIED PER CFR 49 PART 192.283 (B)*	
NOMINAL	ACTUAL	CONDUCTIVE	PE 2306/2406	PE 3406/3408
2 to 1-1/4	2.375/1.66	EZ218A7UMG	SDR 11/10*	SDR 9.33
3 to 2	3.50/2.375	EZ328A7UMG	SDR 11	SDR 9.33
4 to 2	4.50/2.375	EZ428A7UMG	SDR 11	SDR 9.33
4 to 3	4.50/3.50	EZ438A7UMG	SDR 11	SDR 9.33
6 to 4	6.625/4.50	EZ648A7UMG	SDR 11	SDR 11
8 to 6	8.625/6.625	EZ868A7UMG	SDR 11	SDR 11

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CONDUCTIVE
MAXI-GRIP EZ™
Disassembly Instructions

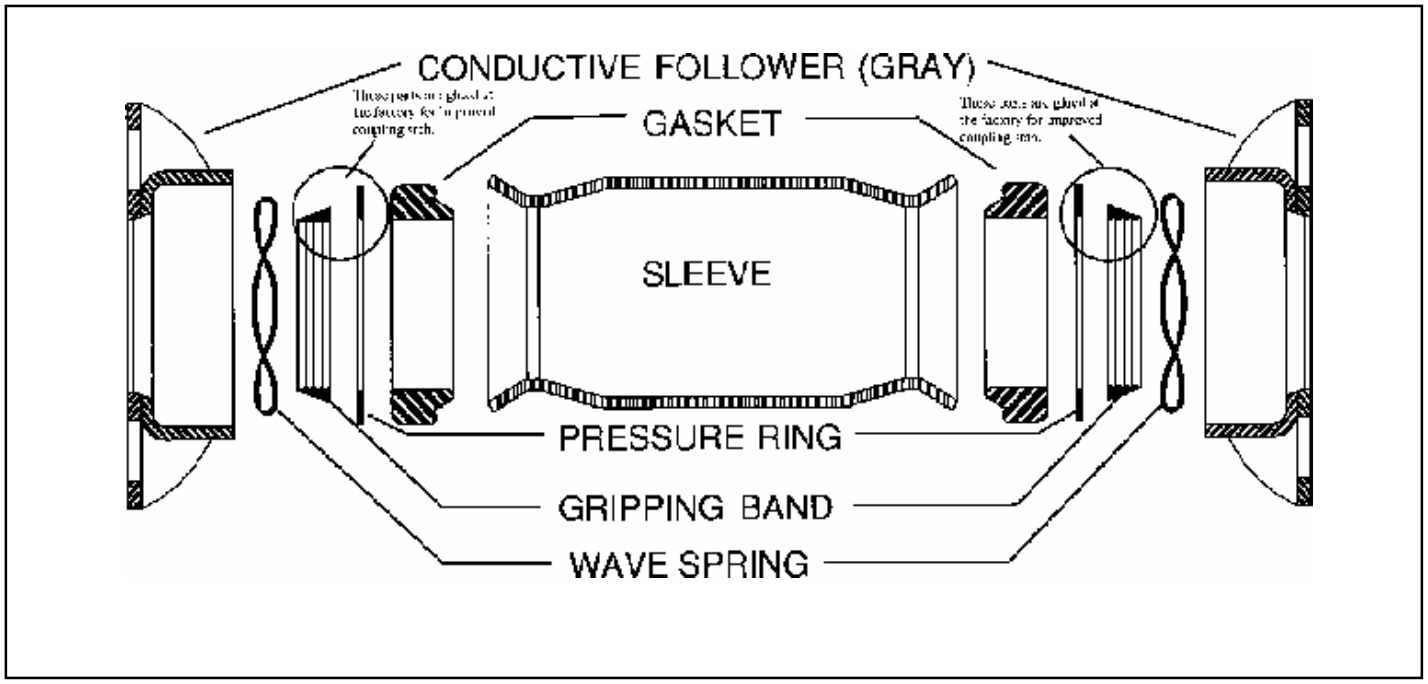
Most installations should not require disassembly of the Maxi-Grip EZ™ coupling. If a coupling does not stab, loosen the nuts and then gently attempt to pull the coupling onto the pipe.

If the coupling must be disassembled for installation (such as in tight spaces or on out-of-round pipe), observe the following guidelines.

1) **Prepare pipes** as per instructions 1 thru 4 on other side.
2) **Remove nuts** (and bolts) from coupling, but keep all component parts within each follower.
3) **Slide each follower** (with internal components) onto its respective pipe.
4) **Center Barrel** (Sleeve) between marks on pipes.
5) **Bring each follower back against sleeve.** Be sure to keep components evenly aligned with pipe.
6) **Replace bolts** and nuts and tighten fully to a minimum torque of :

1-1/4" IPS	30 Ft.-Lbs. Minimum-40 Ft.-Lbs Maximum
All Other sizes	80 Ft.-Lbs. Minimum-100 Ft.-Lbs Maximum

Note: In extreme cases it may be necessary to slide component parts individually onto each pipe. In this case, slide the parts onto each pipe as indicated below.



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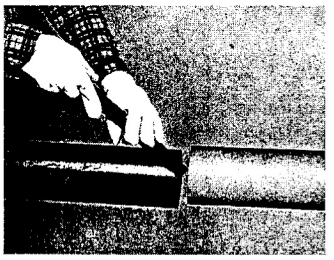
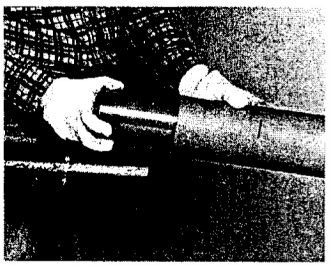
INSTALLATION INSTRUCTIONS

F7412/6/04
Sheet 1 of 2

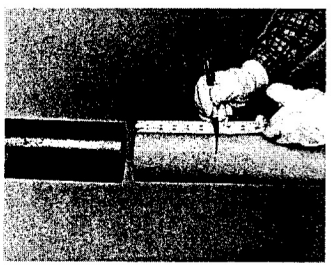
CLASS I-EZ IPS STRAIGHT CONDUCTIVE (8" IPS)
CLASS II-EZ IPS REDUCING CONDUCTIVE (8" IPS-6"IPS)
For joining IPS STEEL and PLASTIC pipes IN ANY COMBINATION



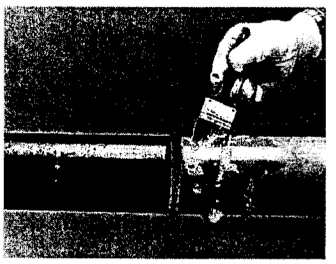
1. Clean pipe ends at least 6" back from end, removing dirt, rust, oil, and scale. Pipe ends must be cut square (straight) and be free of longitudinal grooves. NOTE: Pipes may be abutted, but a gap of ¼" is recommended to allow for pipe expansion into coupling. Gap should not exceed 2".



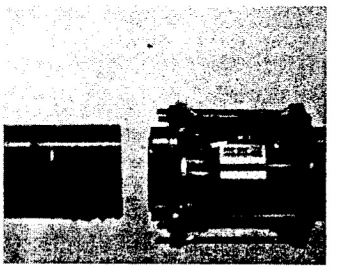
2. When joining plastic pipe, insert a properly sized metallic stiffener into plastic pipe end(s). The stiffener must be at least 7" long and be marked with the same SDR as the pipe.



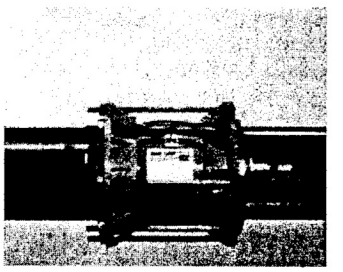
3. Mark each pipe 6" back from end.



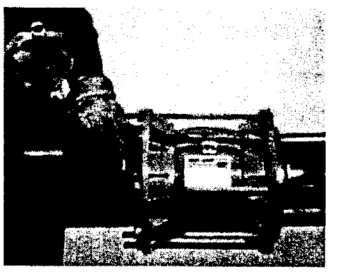
4. Lubricate pipes and coupling gaskets.



5. Pull coupling entirely onto one pipe. If coupling does not stab easily, loosen nuts. Then, while supporting the coupling from underneath, gently attempt to pull coupling onto pipe. If disassembly is required, see other side of these instructions.



6. Back coupling over second pipe and center between marks on pipes.



7. Torque nuts fully to 80 Ft-Lbs. minimum 100 Ft-Lbs. maximum.

PRESSURE RATINGS
200 WOG (PE to PE)
200 WOG (PE to STEEL)
300 WOG (STEEL to STEEL)

PIPE DIAMETER				CERTIFIED PER CFR 49 PART 192.283 (b)	
NOMINAL	ACTUAL	PRODUCT CLASS	STYLE NUMBER	PE 2306/2406	PE 3406/3408
8	8.625	CLASS I IPS STRAIGHT	EZ-88A7-UMG	SDR 11.0	SDR 11.0
8 TO 6	8.625/6.625	CLASS II IPS REDUCING	EZ-868A7-UMG	SDR 11.0	SDR 11.0

TENSILE RATING – PER DOT 192.283(b)

INSTRUCTIONS
8" IPS CONDUCTIVE MAXI-GRIP EZ

FOR CASES REQUIRING COUPLING DISASSEMBLY

MOST INSTALLATIONS WILL NOT REQUIRE DISASSEMBLY OR THE MAXI-GRIP EZ COUPLING. IF THE COUPLING DOES NOT STAB, LOOSEN THE NUTS. THEN, SUPPORTING THE COUPLING FROM UNDERNEATH, GENTLY ATTEMPT TO PULL THE COUPLING ONTO THE PIPE.

IF THE COUPLING MUST BE DISASSEMBLED (SUCH AS IN VERY LIMITED SPACES OR INSTALLATIONS WHERE OUT-OF-ROUND PIPE IS INVOLVED), OBSERVE THE FOLLOWING GUIDELINES.

1. PREPARE PIPES AS PER INSTRUCTIONS 1 THRU 3 ON REVERSE SIDE.
2. REMOVE NUTS AND BOLTS FROM COUPLING, BUT KEEP COMPONENT PARTS IN EACH FOLLOWER.
3. SLIDE EACH FOLLOWER (AND INTERNAL COMPONENTS) ONTO RESPECTIVE PIPE.
4. CENTER THE COUPLING BARREL (SLEEVE) BETWEEN MARKS ON PIPES.
5. BRING EACH FOLLOWER BACK AGAINST SLEEVE. BE SURE TO KEEP INTERNAL COMPONENTS EVENLY ALIGNED WITH PIPE.
6. REPLACE BOLTS AND NUTS AND TIGHTEN EVENLY TO A MINIMUM TORQUE OF 80 FT-LBS AND A MAXIMUM TORQUE OF 100 FT-LBS.

8" IPS MAXI-GRIP EZ ASSEMBLY DIAGRAM