YORK®

COUPLING ASSEMBLY

INSTALLATION INSTRUCTIONS | Supersedes: 160.49-N4 (592) | 194 | Form 160.49-N4

COMPRESSOR MODELS HA36, HA41, HA46, HA50, HA57, HA65, HA73, HA81 & HA90 USED WITH CODEPAK MODELS YK L1 L1 G4 THRU YK S2 S2 J4

COMPRESSOR MODEL	HORSEPOWER		COUPLING PART NO.	DISTANCE BETWEEN SHAFTS (INCHES)
	50 HZ	60 HZ		
HA36, 41 & 46	350 – 750	–	029-20897	6.75
	800 – 900	–	029-20913	6.50
	–	350 – 900	029-20897	6.75
HA50 & 57	350 – 750	–	029-20897	6.75
	800 – 900	–	029-20913	6.50
	1000 – 1300	–	029-20921	6.50
	–	350 – 900	029-20897	6.75
	–	1000 – 1300	029-20921	6.50
HA65 & 73	650 – 750	–	029-21381	7.00
	800 – 900	–	029-21382	6.75
	1000 – 1400	–	029-20899	6.75
	–	600 – 900	029-21381	7.00
	–	1000 – 1750	029-20899	6.75
HA81 & 90	800 – 900	–	029-21382	6.75
	1000 – 1400	–	029-20899	6.75
	–	800 – 900	029-21381	7.00
	–	1000 – 1750	029-20899	6.75

GENERAL

Open-drive units shipped dis-assembled (Form 3 or Form 7 shipment) have the drive coupling spool and disc packs removed for shipment. (Coupling hubs are not removed from the motor and compressor shafts.) At the time of unit re-assembly (see Form 160.49-N3) the coupling alignment must be checked and the coupling re-assembled under the supervision of a YORK representative.

ALIGNMENT CHECK

Fasten indicator clamps on the motor coupling hub or shaft and install indicators so that one reads in a radial direction on the rim of compressor hub and the other reads a direction parallel to the shaft on the front face (face toward motor) of the compressor hub near its O.D. (See Fig. 1.) Arrange the indicators to read at nearly the same angular position on the compressor hub. The indicator reading on the rim

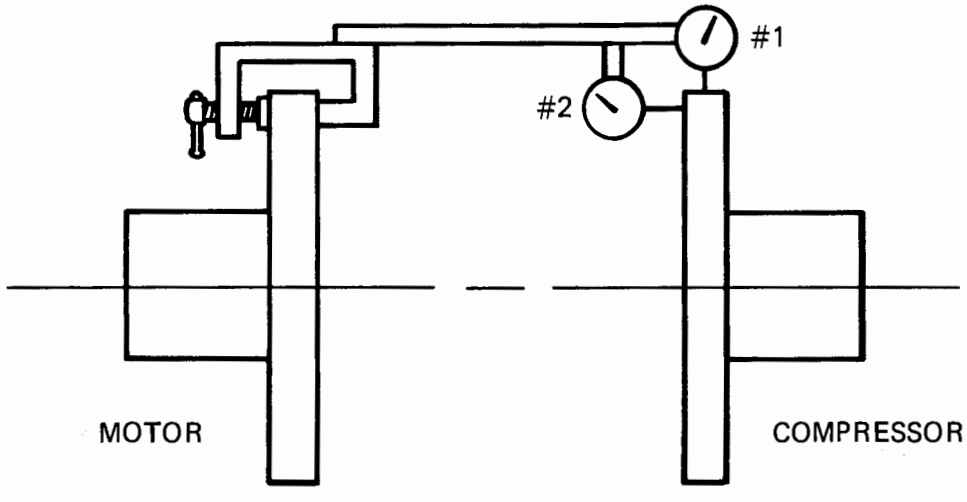

FIG. 1 – CHECKING COUPLING ALIGNMENT

reads parallel misalignment. The indicator reading on the front face reads angular misalignment.

Using marking dye, make a small index mark on the rim of the compressor coupling hub. All alignment readings will be taken with indicators reading at this index mark.

Simultaneously rotate the compressor and motor shafts 360°. Read indicators No. 1 and 2 and compare the readings to Table 1. If indicator readings exceed values shown in Table 1, correct alignment using shims as necessary.

TABLE 1 — ALIGNMENT TOLERANCES

Alignment	Tolerance (Inches)	Max. Combination Tolerance
Horizontal or Vertical Parallel	±.014	±.028
Horizontal or Vertical Angular	±.014	

COUPLING RE-ASSEMBLY (See Fig. 2)

Using Fig. 2 as reference, re-install the spool and disc packs using the bolt and lock nuts provided. Proper torque values are stamped on the coupling.

After alignment and re-assembly are completed, install the compressor coupling guard.

NOTE: The maximum allowable misalignment for a dry flexible coupling is a combination of both parallel and angular readings. To obtain the Total Combined Misalignment value, add the T.I.R. value from the rim and the T.I.R. value from the face. This total must not exceed the "Maximum Combination Tolerance" shown in Table 1.

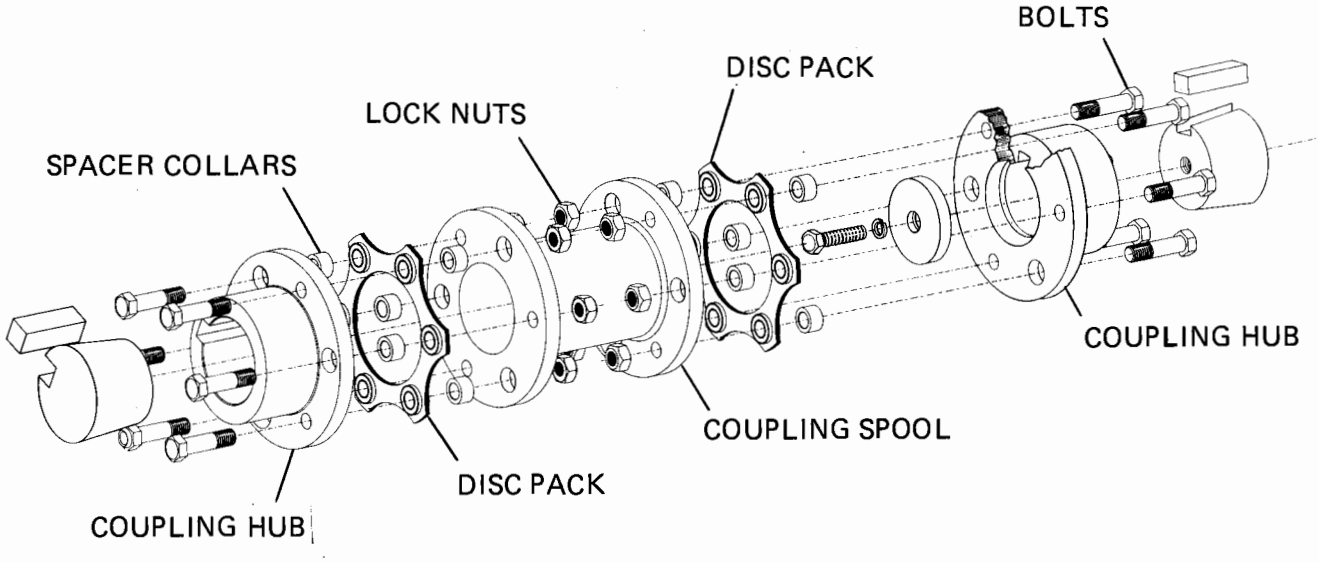

FIG. 2 — EXPLODED VIEW OF COUPLING

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FORM 160.49-N4(194)
SUPERSEDES: 160.49-N4(592)

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