

Model 23/24

LEFT SIDE ONLY**TRANSMISSION GEAR DATA:**

L.H. 6-Bolt Opening Gear FORWARD of Centerline

36 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.7000" (17.7800MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100PRCQX-*3 (1) 125 Eng 129 Furnished

(1) Gear and Shaft Kit No. KXA-2-P-587

CM4052-A
CM4054-A
ES42-5A

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

40 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.0000" (25.4000MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

40 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.0000" (25.4000MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100XRBQX-*3 (1) 125 Eng 73 Furnished

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442XFBQX-*5 (2)	250	Opp	44				Furnished	442XFBQX-*3 (2)	250	Opp	44					Furnished
442XLBQX-*5 (3)	250	Opp	58				Furnished	442XLBQX-*3 (3)	250	Opp	58					Furnished
442XQBQX-*5 (3)	225	Opp	62				Furnished	442XQBQX-*3 (3)	225	Opp	62					Furnished
442XRBQX-*5 (3)	225	Opp	72				Furnished	442XRBQX-*3 (3)	225	Opp	72					Furnished
442XSBQX-*5 (3)	200	Opp	86				Furnished	442XSBQX-*3 (3)	200	Opp	86					Furnished
442XUBQX-*5 (3)	195	Opp	102				Furnished	442XUBQX-*3 (3)	195	Opp	102					Furnished
442XWBQX-*5 (3)	175	Opp	120				Furnished	442XWBQX-*3 (3)	175	Opp	120					Furnished
442XXBQX-*5 (3)	140	Opp	142				Furnished	442XXBQX-*3 (3)	140	Opp	142					Furnished

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

236XDBQX-*5 (3)	250	Opp	47				Furnished	236XDBQX-*3 (3)	250	Opp	47					Furnished
236XKBQX-*5 (3)	250	Opp	60				Furnished	236XKBQX-*3 (3)	250	Opp	60					Furnished
236XQBQX-*5 (3)	250	Opp	81				Furnished	236XQBQX-*3 (3)	250	Opp	81					Furnished
236XUBQX-*5 (3)	225	Opp	92				Furnished	236XUBQX-*3 (3)	225	Opp	92					Furnished

ONE SPEED - FORWARD & REVERSE

340XFBQX-*5 (4)	200	Opp	41	43	7-A-140 (5)		Furnished	340XFBQX-*5 (4)	200	Opp	41	43	7-A-140 (5)			Furnished
352XSBQX-*5 (3)	140	Opp	87	112			Furnished	352XSBQX-*3 (3)	140	Opp	87	112				Furnished

TWO SPEEDS - FORWARD & REVERSE

321XNBQX-*5	140	Opp	122	83			Furnished	321XNBQX-*3	140	Opp	122	83				Furnished
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ONE SPEED - DUAL SHAFT

452XSBQX-*3 (3)	140	Opp	87				Furnished	452XSBQX-*3 (3)	140	Opp	87					Furnished
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GEARED ADAPTERS

626XBQX-4BP							Furnished	626XBQX-3BP								Furnished
630XBQX-4BP							Furnished	630XBQX-3BP								Furnished
645XBQX-4BP							Furnished	645XBQX-3BP								Furnished

NOTE: 100 Series will not mount on the left side due to output shaft interference.

- (1) Gear and Shaft Kit No. KXA-2-P-578
(2) Input Gear Part No. 5-P-1084
(3) Input Gear Part No. 5-P-1023
(4) Input Gear Part No. 5-P-720
(5) Filler block furnished with P.T.O.

January 2008

CM4052-D
CM4054-D
ES42-5D

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

42 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.8500" (21.5900MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

42 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.8500" (21.5900MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100XRBQX-*3 (1) 125 Eng 76 7-A-140 7170-11X

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442KFBQX-*5 (2)	250	Opp	47		7-A-140		7170-3X	442KFBQX-*3 (2)	250	Opp	47		7-A-140		7170-3X
442KLBQX-*5 (3)	250	Opp	61		7-A-140		7170-3X	442KLBQX-*3 (3)	250	Opp	61		7-A-140		7170-3X
442KQBQX-*5 (3)	225	Opp	65		7-A-140		7170-3X	442KQBQX-*3 (3)	225	Opp	65		7-A-140		7170-3X
442KRBQX-*5 (3)	225	Opp	75		7-A-140		7170-3X	442KRBQX-*3 (3)	225	Opp	75		7-A-140		7170-3X
442KSBQX-*5 (3)	200	Opp	90		7-A-140		7170-3X	442KSBQX-*3 (3)	200	Opp	90		7-A-140		7170-3X
442KUBQX-*5 (3)	195	Opp	107		7-A-140		7170-3X	442KUBQX-*3 (3)	195	Opp	107		7-A-140		7170-3X
442KWBQX-*5 (3)	175	Opp	126		7-A-140		7170-3X	442KWBQX-*3 (3)	175	Opp	126		7-A-140		7170-3X
442KXBQX-*5 (3)	140	Opp	149		7-A-140		7170-3X	442KXBQX-*3 (3)	140	Opp	149		7-A-140		7170-3X

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

236KDBQX-*5 (3)	250	Opp	49		7-A-140		7170-3X	236KDBQX-*3 (3)	250	Opp	49		7-A-140		7170-3X
236KKBQX-*5 (3)	250	Opp	62		7-A-140		7170-3X	236KKBQX-*3 (3)	250	Opp	62		7-A-140		7170-3X
236KQBQX-*5 (3)	250	Opp	85		7-A-140		7170-3X	236KQBQX-*3 (3)	250	Opp	85		7-A-140		7170-3X
236KUBQX-*5 (3)	225	Opp	97		7-A-140		7170-3X	236KUBQX-*3 (3)	225	Opp	97		7-A-140		7170-3X

ONE SPEED - FORWARD & REVERSE

340SFBQX-*5 (4)	200	Opp	43	45	7-A-270		7170-2X	340SFBQX-*5 (4)	200	Opp	43	45	7-A-270		7170-2X
352XSBQX-*5 (3)	140	Opp	91	118	7-A-140		7170-3X	352XSBQX-*3 (3)	140	Opp	91	118	7-A-140		7170-3X

TWO SPEEDS - FORWARD & REVERSE

321XNBQX-*5	140	Opp	129	87	7-A-140		Furnished	321XNBQX-*3	140	Opp	129	87	7-A-140		Furnished
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ONE SPEED - DUAL SHAFT

452XSBQX-*3 (3)	140	Opp	91		7-A-140		7170-3X	452XSBQX-*3 (3)	140	Opp	91		7-A-140		7170-3X
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GEARED ADAPTERS

626KBQX-4BP					7-A-140		7170-3X	626KBQX-3BP					7-A-140		7170-3X
630KBQX-4BP					7-A-140		7170-3X	630KBQX-3BP					7-A-140		7170-3X
645KBQX-4BP					7-A-140		7170-3X	645KBQX-3BP					7-A-140		7170-3X

NOTE: 100 Series will not mount on the left side due to output shaft interference.

(1) Gear and Shaft Kit No. KXA-2-P-578
(2) Input Gear Part No. 5-P-1084
(3) Input Gear Part No. 5-P-1023
(4) Input Gear Part No. 5-P-720

CM5952-A ES62-5A
 CM5952-C ES67-5A
 ES60-5A
 ES60-5C
 ES60-5F

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

41 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.7200" (18.2900MM)

TRANSMISSION GEAR DATA:

R.H. 8-Bolt Opening Gear FORWARD of Centerline

41 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.4450" (11.3000MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100XRBGX-*3 (1) 125 Eng 83 7-A-125(P) 328564X Furnished

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442KFBGX-*5 (2)	250	Opp	49	7-A-300	7170-5X	442KFBGX-*3 (2)	250	Opp	49	7-A-187(P)	328564X	7170-4X
442KLBGX-*5 (3)	250	Opp	64	7-A-300	7170-5X	442KLBGX-*3 (3)	250	Opp	64	7-A-187(P)	328564X	7170-4X
442KQBGX-*5 (3)	225	Opp	69	7-A-300	7170-5X	442KQBGX-*3 (3)	225	Opp	69	7-A-187(P)	328564X	7170-4X
442KRBGX-*5 (3)	225	Opp	80	7-A-300	7170-5X	442KRBGX-*3 (3)	225	Opp	80	7-A-187(P)	328564X	7170-4X
442KSBGX-*5 (3)	200	Opp	95	7-A-300	7170-5X	442KSBGX-*3 (3)	200	Opp	95	7-A-187(P)	328564X	7170-4X
442KUBGX-*5 (3)	195	Opp	113	7-A-300	7170-5X	442KUBGX-*3 (3)	195	Opp	113	7-A-187(P)	328564X	7170-4X
442KWBGX-*5 (3)	175	Opp	133	7-A-300	7170-5X	442KWBGX-*3 (3)	175	Opp	133	7-A-187(P)	328564X	7170-4X
442KXBGX-*5 (3)	140	Opp	157	7-A-300	7170-5X	442KXBGX-*3 (3)	140	Opp	157	7-A-187(P)	328564X	7170-4X
660KFBGX-*5 (4)	375	Opp	49	7-A-300	7170-5X	489XFBGX-*3 (2)	250	Opp	49	8-A-248		328170-192X
										8-A-093		
660KQBGX-*5 (5)	375	Opp	69	7-A-300	7170-5X	489XLBGX-*3 (3)	250	Opp	64	8-A-248		328170-192X
										8-A-093		
660KSBGX-*5 (6)	325	Opp	95	7-A-300	7170-5X	489XQBGX-*3 (3)	225	Opp	69	8-A-248		328170-192X
										8-A-093		
						489XRBGX-*3 (3)	225	Opp	80	8-A-248		328170-192X
										8-A-093		
						489XSBGX-*3 (3)	200	Opp	95	8-A-248		328170-192X
										8-A-093		
						489XUBGX-*3 (3)	195	Opp	113	8-A-248		328170-192X
										8-A-093		
						489XWBGX-*3 (3)	175	Opp	133	8-A-248		328170-192X
										8-A-093		
						489XXBGX-*3 (3)	140	Opp	157	8-A-248		328170-192X
										8-A-093		
						680XFBGX-*3 (4)	375	Opp	49	8-A-248		328170-192X
										8-A-093		
						680XQBGX-*3 (5)	375	Opp	69	8-A-248		328170-192X
										8-A-093		
						680XSBGX-*3 (6)	325	Opp	95	8-A-248		328170-192X
										8-A-093		
						880XBBGX-*3 (7)	500	Opp	34	8-A-295		328170-14X
						880XMBGX-*3 (8)	500	Opp	61	8-A-295		328170-14X
						880XRBGX-*3 (9)	400	Opp	84	8-A-295		328170-14x

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CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

(1) Gear and Shaft Kit No. KXA-2-P-571
 (2) Input Gear Part No. 5-P-1082
 (3) Input Gear Part No. 5-P-1015
 (4) Input Gear Part No. 5-P-1325
 (5) Input Gear Part No. 5-P-1326
 (6) Input Gear Part No. 5-P-1327

(7) Input Gear Part No. 5-P-1116
 (8) Input Gear Part No. 5-P-1175
 (9) Input Gear Part No. 5-P-1117

CM5952-A	ES62-5A
CM5952-C	ES67-5A
ES60-5A	
ES60-5C	
ES60-5F	

LEFT SIDE ONLY	RIGHT SIDE ONLY
TRANSMISSION GEAR DATA: L.H. 6-Bolt Opening Gear FORWARD of Centerline 41 Teeth - R.H. HELIX PITCH LINE TO APERTURE FACE: .7200" (18.2900MM)	TRANSMISSION GEAR DATA: R.H. 8-Bolt Opening Gear FORWARD of Centerline 41 Teeth - R.H. HELIX PITCH LINE TO APERTURE FACE: .4450" (11.3000MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

880XTBGX-*3 (10)	350	Opp	108	8-A-295	328170-14X
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ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

236KDBGX-*5 (3)	250	Opp	52	7-A-300	7170-5X	236KDBGX-*3 (3)	250	Opp	52	7-A-187(P)	328564X	7170-4X
236KKBGX-*5 (3)	250	Opp	66	7-A-300	7170-5X	236KKBGX-*3 (3)	250	Opp	66	7-A-187(P)	328564X	7170-4X
236KQBGX-*5 (3)	250	Opp	89	7-A-300	7170-5X	236KQBGX-*3 (3)	250	Opp	89	7-A-187(P)	328564X	7170-4X
236KUBGX-*5 (3)	225	Opp	102	7-A-300	7170-5X	236KUBGX-*3 (3)	225	Opp	102	7-A-187(P)	328564X	7170-4X

ONE SPEED - FORWARD & REVERSE

340XFBGX-*5 (11)	200	Opp	45	47	7-A-140 (12)	7170-5X	340XFBGX-*5 (11)	200	Opp	45	47	7-A-140(P)(12)	328564X	Furnished
					7-A-300							7-A-125(P)		
352XSBGX-*5 (3)	140	Opp	92	119	7-A-400	7170-5X	352XSBGX-*3 (3)	140	Opp	92	119	7-A-187(P)	328564X	7170-4X
							863XBBGX-*5	500	Opp	34	42	8-A-295		328170-14X

ONE SPEED - DUAL SHAFT

452XSBGX-*3 (3)	140	Opp	92	7-A-400	7170-5X	452XSBGX-*3 (3)	140	Opp	92	7-A-187(P)	328564X	7170-4X
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GEARED ADAPTERS

626KBGX-4HB	7-A-400	7170-5X	628XBGX-3HB	8-A-375	328170-192X
630KBGX-4HB	7-A-400	7170-5X			
645KBGX-4HB	7-A-400	7170-5X			

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

(3) Input Gear Part No. 5-P-1015
 (10) Input Gear Part No. 5-P-1177
 (11) Input Gear Part No. 5-P-580
 (12) Filler block furnished with P.T.O.

CM5952-B

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

39 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.8820" (22.4000MM)

TRANSMISSION GEAR DATA:

R.H. 8-Bolt Opening Gear FORWARD of Centerline

39 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.6070" (15.4200MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100XRBGX-*3 (1) 125 Eng 79 7-A-062(P) 310778X Furnished

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442KFBGX-*5 (2)	250	Opp	47	7-A-200	7170-4X	442XFBGX-*3 (2)	250	Opp	47	7-A-032(P)	328564X	Furnished
442KLBGX-*5 (3)	250	Opp	61	7-A-200	7170-4X	442XLBGX-*3 (3)	250	Opp	61	7-A-032(P)	328564X	Furnished
442KQBGX-*5 (3)	225	Opp	66	7-A-200	7170-4X	442XQBGX-*3 (3)	225	Opp	66	7-A-032(P)	328564X	Furnished
442KRBGX-*5 (3)	225	Opp	76	7-A-200	7170-4X	442XRBGX-*3 (3)	225	Opp	76	7-A-032(P)	328564X	Furnished
442KSBGX-*5 (3)	200	Opp	90	7-A-200	7170-4X	442XSBGX-*3 (3)	200	Opp	90	7-A-032(P)	328564X	Furnished
442KUBGX-*5 (3)	195	Opp	108	7-A-200	7170-4X	442XUBGX-*3 (3)	195	Opp	108	7-A-032(P)	328564X	Furnished
442KWBGX-*5 (3)	175	Opp	127	7-A-200	7170-4X	442XWBGX-*3 (3)	175	Opp	127	7-A-032(P)	328564X	Furnished
442KXBGX-*5 (3)	140	Opp	150	7-A-200	7170-4X	442XXBGX-*3 (3)	140	Opp	150	7-A-032(P)	328564X	Furnished
660KFBGX-*5 (4)	375	Opp	47	7-A-200	7170-4X	489XFBGX-*3 (2)	250	Opp	47	8-A-062	328170-190X	
										8-A-093		
660KQBGX-*5 (5)	375	Opp	66	7-A-200	7170-4X	489XLBGX-*3 (3)	250	Opp	61	8-A-062	328170-190X	
										8-A-093		
660KSBGX-*5 (6)	325	Opp	90	7-A-200	7170-4X	489XQBGX-*3 (3)	225	Opp	66	8-A-062	328170-190X	
										8-A-093		
						489XRBGX-*3 (3)	225	Opp	76	8-A-062	328170-190X	
										8-A-093		
						489XSBGX-*3 (3)	200	Opp	90	8-A-062	328170-190X	
										8-A-093		
						489XUBGX-*3 (3)	195	Opp	108	8-A-062	328170-190X	
										8-A-093		
						489XWBGX-*3 (3)	175	Opp	127	8-A-062	328170-190X	
										8-A-093		
						489XXBGX-*3 (3)	140	Opp	150	8-A-062	328170-190X	
										8-A-093		
						680XFBGX-*3 (4)	375	Opp	47	8-A-062	328170-190X	
										8-A-093		
						680XQBGX-*3 (5)	375	Opp	66	8-A-062	328170-190X	
										8-A-093		
						680XSBGX-*3 (6)	325	Opp	90	8-A-062	328170-190X	
										8-A-093		
						880XBBGX-*3 (7)	500	Opp	32	8-A-165	328170-15X	
						880XMBGX-*3 (8)	500	Opp	58	8-A-165	328170-15X	
						880XRBGX-*3 (9)	400	Opp	80	8-A-165	328170-15X	

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CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

- (1) Gear and Shaft Kit No. KXA-2-P-571
 (2) Input Gear Part No. 5-P-1082
 (3) Input Gear Part No. 5-P-1015
 (4) Input Gear Part No. 5-P-1325
 (5) Input Gear Part No. 5-P-1326
 (6) Input Gear Part No. 5-P-1327

- (7) Input Gear Part No. 5-P-1116
 (8) Input Gear Part No. 5-P-1175
 (9) Input Gear Part No. 5-P-1117

January 2008

CM5952-B

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

39 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.8820" (22.4000MM)

TRANSMISSION GEAR DATA:

R.H. 8-Bolt Opening Gear FORWARD of Centerline

39 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.6070" (15.4200MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

880XTBGX-*3 (10) 350 Opp 103 8-A-165 328170-15X

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

236KDBGX-*5 (3)	250	Opp	49		7-A-200		7170-4X	236XDBGX-*3 (3)	250	Opp	49		7-A-032(P)	328564X	Furnished
236KKBGX-*5 (3)	250	Opp	63		7-A-200		7170-4X	236XKBGX-*3 (3)	250	Opp	63		7-A-032(P)	328564X	Furnished
236KQBGX-*5 (3)	250	Opp	85		7-A-200		7170-4X	236XQBGX-*3 (3)	250	Opp	85		7-A-032(P)	328564X	Furnished
236KUBGX-*5 (3)	225	Opp	98		7-A-200		7170-4X	236XUBGX-*3 (3)	225	Opp	98		7-A-032(P)	328564X	Furnished

ONE SPEED - FORWARD & REVERSE

340XFBGX-*5 (11)	200	Opp	43	45	7-A-140 (12)		7170-4X	340XFBGX-*5 (11)	200	Opp	43	45	7-A-140(P)(12)	328564X	Furnished
					7-A-165										
352XSBGX-*5 (3)	140	Opp	88	113	7-A-200		7170-4X	352XSBGX-*3 (3)	140	Opp	88	113	7-A-032(P)	328564X	Furnished
								863XBBGX-*5	500	Opp	32	40	8-A-165		328170-15X

ONE SPEED - DUAL SHAFT

452XSBGX-*3 (3)	140	Opp	88		7-A-200		7170-4X	452XSBGX-*3 (3)	140	Opp	88		7-A-032(P)	328564X	Furnished
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GEARED ADAPTERS

626KBGX-4HB					7-A-200		7170-4X	628XBGX-3HB					8-A-190		328170-190X
630KBGX-4HB					7-A-200		7170-4X								
645KBGX-4HB					7-A-200		7170-4X								

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

(3) Input Gear Part No. 5-P-1015
 (10) Input Gear Part No. 5-P-1177
 (11) Input Gear Part No. 5-P-580
 (12) Filler block furnished with P.T.O.

January 2008

CM5952-D
ES55-5D
ES60-5D
ES62-5D
ES67-5D

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

43 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.5600" (14.2200MM)

TRANSMISSION GEAR DATA:

R.H. 8-Bolt Opening Gear FORWARD of Centerline

43 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.2840" (7.2100MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100XRBGX-*3 (1) 125 Eng 87 7-A-300(P) 328564X 7170-13X

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442KFBGX-*5 (2)	250	Opp	52		7-A-500		7170-5X	442KFBGX-*3 (2)	250	Opp	52		7-A-350(P)	328564X	7170-5X
442KLBGX-*5 (3)	250	Opp	67		7-A-500		7170-5X	442KLBGX-*3 (3)	250	Opp	67		7-A-350(P)	328564X	7170-5X
442KQBGX-*5 (3)	225	Opp	72		7-A-500		7170-5X	442KQBGX-*3 (3)	225	Opp	72		7-A-350(P)	328564X	7170-5X
442KRBGX-*5 (3)	225	Opp	84		7-A-500		7170-5X	442KRBGX-*3 (3)	225	Opp	84		7-A-350(P)	328564X	7170-5X
442KSBGX-*5 (3)	200	Opp	100		7-A-500		7170-5X	442KSBGX-*3 (3)	200	Opp	100		7-A-350(P)	328564X	7170-5X
442KUBGX-*5 (3)	195	Opp	119		7-A-500		7170-5X	442KUBGX-*3 (3)	195	Opp	119		7-A-350(P)	328564X	7170-5X
442KWBGX-*5 (3)	175	Opp	140		7-A-500		7170-5X	442KWBGX-*3 (3)	175	Opp	140		7-A-350(P)	328564X	7170-5X
442KXBGX-*5 (3)	140	Opp	165		7-A-500		7170-5X	442KXBGX-*3 (3)	140	Opp	165		7-A-350(P)	328564X	7170-5X
660KFBGX-*5 (4)	375	Opp	52		7-A-500		7170-7X	489XFBGX-*3 (2)	250	Opp	52		8-A-375		328170-192X
													8-A-093		
660KQBGX-*5 (5)	375	Opp	72		7-A-500		7170-7X	489XLBGX-*3 (3)	250	Opp	67		8-A-375		328170-192X
													8-A-093		
660KSBGX-*5 (6)	325	Opp	100		7-A-500		7170-7X	489XQBGX-*3 (3)	225	Opp	72		8-A-375		328170-192X
													8-A-093		
								489XRBGX-*3 (3)	225	Opp	84		8-A-375		328170-192X
													8-A-093		
								489XSBGX-*3 (3)	200	Opp	100		8-A-375		328170-192X
													8-A-093		
								489XUBGX-*3 (3)	195	Opp	119		8-A-375		328170-192X
													8-A-093		
								489XWBGX-*3 (3)	175	Opp	140		8-A-375		328170-192X
													8-A-093		
								489XXBGX-*3 (3)	140	Opp	165		8-A-375		328170-192X
													8-A-093		
								680XFBGX-*3 (4)	375	Opp	52		8-A-375		328170-192X
													8-A-093		
								680XQBGX-*3 (5)	375	Opp	72		8-A-375		328170-192X
													8-A-093		
								680XSBGX-*3 (6)	325	Opp	100		8-A-375		328170-192X
													8-A-093		
								880XBBGX-*3 (7)	500	Opp	36		8-A-500		Furnished
								880XMBGX-*3 (8)	500	Opp	64		8-A-500		Furnished
								880XRBGX-*3 (9)	400	Opp	88		8-A-500		Furnished

Continued Next Page

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

(1) Gear and Shaft Kit No. KXA-2-P-571
(2) Input Gear Part No. 5-P-1082
(3) Input Gear Part No. 5-P-1015
(4) Input Gear Part No. 5-P-1325
(5) Input Gear Part No. 5-P-1326
(6) Input Gear Part No. 5-P-1327

(7) Input Gear Part No. 5-P-1116
(8) Input Gear Part No. 5-P-1175
(9) Input Gear Part No. 5-P-1117

January 2008

CM5952-D
ES55-5D
ES60-5D
ES62-5D
ES67-5D

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

43 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.5600" (14.2200MM)

TRANSMISSION GEAR DATA:

R.H. 8-Bolt Opening Gear FORWARD of Centerline

43 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.2840" (7.2100MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

880XTBGX-*3 (10) 350 Opp 113 8-A-500 Furnished

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

236KDBGX-*5 (3)	250	Opp	54		7-A-500		7170-5X	236KDBGX-*3 (3)	250	Opp	54		7-A-350(P)	328564X	7170-5X
236KKBGX-*5 (3)	250	Opp	70		7-A-500		7170-5X	236KKBGX-*3 (3)	250	Opp	70		7-A-350(P)	328564X	7170-5X
236KQBGX-*5 (3)	250	Opp	94		7-A-500		7170-5X	236KQBGX-*3 (3)	250	Opp	94		7-A-350(P)	328564X	7170-5X
236KUBGX-*5 (3)	225	Opp	107		7-A-500		7170-5X	236KUBGX-*3 (3)	225	Opp	107		7-A-350(P)	328564X	7170-5X

ONE SPEED - FORWARD & REVERSE

340XFBGX-*5 (11)	200	Opp	47	50	7-A-140 (12)		7170-6X	340XFBGX-*5 (11)	200	Opp	47	50	7-A-140(P)(12)	328564X	7170-5X
					7-A-500								7-A-300(P)		
352XSBGX-*5 (3)	140	Opp	97	125	7-A-500		7170-7X	352XSBGX-*3 (3)	140	Opp	97	125	7-A-300(P)	328564X	7170-5X
								863XBBGX-*5	500	Opp	36	44	8-A-500		Furnished

ONE SPEED - DUAL SHAFT

452XSBGX-*3 (3)	140	Opp	97		7-A-500		7170-5X	452XSBGX-*3 (3)	140	Opp	97		7-A-300(P)	328564X	7170-5X
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GEARED ADAPTERS

626KBGX-4HB					7-A-500		7170-7X	628XBGX-3HB					8-A-500		328170-192X
													8-A-032		
630KBGX-4HB					7-A-500		7170-7X								
645KBGX-4HB					7-A-500		7170-7X								

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

(3) Input Gear Part No. 5-P-1015
(10) Input Gear Part No. 5-P-1177
(11) Input Gear Part No. 5-P-580
(12) Filler block furnished with P.T.O.

January 2008

CM5952-E
ES60-5E

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

43 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.5600" (14.2200MM)

TRANSMISSION GEAR DATA:

R.H. 8-Bolt Opening Gear FORWARD of Centerline

43 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.2840" (7.2100MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100XRBGX-*3 (1) 125 Eng 96 7-A-300(P) 328564X 7170-13X

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442KFBGX-*5 (2)	250	Opp	57		7-A-562		7170-7X	442KFBGX-*3 (2)	250	Opp	57		7-A-350(P)	328564X	7170-5X
442KLBGX-*5 (3)	250	Opp	73		7-A-562		7170-7X	442KLBGX-*3 (3)	250	Opp	73		7-A-350(P)	328564X	7170-5X
442KQBGX-*5 (3)	225	Opp	79		7-A-562		7170-7X	442KQBGX-*3 (3)	225	Opp	79		7-A-350(P)	328564X	7170-5X
442KRBGX-*5 (3)	225	Opp	92		7-A-562		7170-7X	442KRBGX-*3 (3)	225	Opp	92		7-A-350(P)	328564X	7170-5X
442KSBGX-*5 (3)	200	Opp	109		7-A-562		7170-7X	442KSBGX-*3 (3)	200	Opp	109		7-A-350(P)	328564X	7170-5X
442KUBGX-*5 (3)	195	Opp	130		7-A-562		7170-7X	442KUBGX-*3 (3)	195	Opp	130		7-A-350(P)	328564X	7170-5X
442KWBGX-*5 (3)	175	Opp	153		7-A-562		7170-7X	442KWBGX-*3 (3)	175	Opp	153		7-A-350(P)	328564X	7170-5X
442KXBGX-*5 (3)	140	Opp	181		7-A-562		7170-7X	442KXBGX-*3 (3)	140	Opp	181		7-A-350(P)	328564X	7170-5X
660KFBGX-*5 (4)	375	Opp	57		7-A-562		7170-7X	489XFBGX-*3 (2)	250	Opp	57		8-A-375		328170-192X
													8-A-093		
660KQBGX-*5 (5)	375	Opp	79		7-A-562		7170-7X	489XLBGX-*3 (3)	250	Opp	73		8-A-375		328170-192X
													8-A-093		
660KSBGX-*5 (6)	325	Opp	109		7-A-562		7170-7X	489XQBGX-*3 (3)	225	Opp	79		8-A-375		328170-192X
													8-A-093		
								489XRBGX-*3 (3)	225	Opp	92		8-A-375		328170-192X
													8-A-093		
								489XSBGX-*3 (3)	200	Opp	109		8-A-375		328170-192X
													8-A-093		
								489XUBGX-*3 (3)	195	Opp	130		8-A-375		328170-192X
													8-A-093		
								489XWBGX-*3 (3)	175	Opp	153		8-A-375		328170-192X
													8-A-093		
								489XXBGX-*3 (3)	140	Opp	181		8-A-375		328170-192X
													8-A-093		
								680XFBGX-*3 (4)	375	Opp	57		8-A-375		328170-192X
													8-A-093		
								680XQBGX-*3 (5)	375	Opp	79		8-A-375		328170-192X
													8-A-093		
								680XSBGX-*3 (6)	325	Opp	109		8-A-375		328170-192X
													8-A-093		
								880XBBGX-*3 (7)	500	Opp	39		8-A-032		Furnished
								880XMBGX-*3 (8)	500	Opp	70		8-A-032		Furnished
								880XRBGX-*5 (9)	400	Opp	96		8-A-032		Furnished

Continued Next Page

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

- (1) Gear and Shaft Kit No. KXA-2-P-571
(2) Input Gear Part No. 5-P-1082
(3) Input Gear Part No. 5-P-1015
(4) Input Gear Part No. 5-P-1325
(5) Input Gear Part No. 5-P-1326
(6) Input Gear Part No. 5-P-1327

- (7) Input Gear Part No. 5-P-1116
(8) Input Gear Part No. 5-P-1175
(9) Input Gear Part No. 5-P-1117

January 2008

CM5952-E
ES60-5E

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

43 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.5600" (14.2200MM)

TRANSMISSION GEAR DATA:

R.H. 8-Bolt Opening Gear FORWARD of Centerline

43 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.2840" (7.2100MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

880XTBGX-*3 (10) 350 Opp 124 8-A-032 Furnished

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

236KDBGX-*5 (3)	250	Opp	59		7-A-562		7170-7X	236KDBGX-*3 (3)	250	Opp	59		7-A-350(P)	328564X	7170-5X
236KKBGX-*5 (3)	250	Opp	76		7-A-562		7170-7X	236KKBGX-*3 (3)	250	Opp	76		7-A-350(P)	328564X	7170-5X
236KQBGX-*5 (3)	250	Opp	103		7-A-562		7170-7X	236KQBGX-*3 (3)	250	Opp	103		7-A-350(P)	328564X	7170-5X
236KUBGX-*5 (3)	225	Opp	118		7-A-562		7170-7X	236KUBGX-*3 (3)	225	Opp	118		7-A-350(P)	328564X	7170-5X

ONE SPEED - FORWARD & REVERSE

340XFBGX-*5 (11)	200	Opp	52	54	7-A-140 (12)		7170-6X	340XFBGX-*5 (11)	200	Opp	52	54	7-A-140(P)(12)	328564X	7170-5X
					7-A-500								7-A-300(P)		
352XSBGX-*5 (3)	140	Opp	106	137	7-A-562		7170-7X	352XSBGX-*3 (3)	140	Opp	106	137	7-A-300(P)	328564X	7170-5X
								863XBBGX-*5	500	Opp	39	48	8-A-032		Furnished

ONE SPEED - DUAL SHAFT

452XSBGX-*3 (3)	140	Opp	106		7-A-562		7170-7X	452XSBGX-*3 (3)	140	Opp	106		7-A-300(P)	328564X	7170-5X
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GEARED ADAPTERS

626KBGX-4HB					7-A-562		7170-7X	628XBGX-3HB					8-A-500		328170-192X
													8-A-032		
630KBGX-4HB					7-A-562		7170-7X								
645KBGX-4HB					7-A-562		7170-7X								

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

(3) Input Gear Part No. 5-P-1015
(10) Input Gear Part No. 5-P-1177
(11) Input Gear Part No. 5-P-580
(12) Filler block furnished with P.T.O.

January 2008

9072-A
PS97-7A

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

50 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.9000" (22.8600MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

50 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

1.0540" (26.7700MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100XRAHX-*3 (1)	125	Eng	88		7-A-062(P)	328481X	Furnished								
812XKAHX-*3	400	Eng	59		8-A-062		328170-115X								

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

221XCAHX-*3	250	Opp	39		7-A-032(P)(2)	328481X	Furnished	221XCAHX-*3	250	Opp	39		7-A-032 (2)		328170-102X
					7-A-062(P)								7-A-140		
221XEAHX-*3	250	Opp	45		7-A-062(P)	328481X	Furnished	221XEAHX-*3	250	Opp	45		7-A-140		328170-102X
221XLAHX-*3	200	Opp	61		7-A-062(P)	328481X	Furnished	221XLAHX-*3	200	Opp	61		7-A-140		328170-102X
221XPAHX-*3	200	Opp	74		7-A-062(P)	328481X	Furnished	221XPAHX-*3	200	Opp	74		7-A-140		328170-102X
442XAAHX-*3 (3)	250	Opp	35		7-A-032(P)	328481X	Furnished	442XAAHX-*3 (3)	250	Opp	35		7-A-140		7170-3X
442XCAHX-*3 (4)	250	Opp	44		7-A-032(P)	328481X	Furnished	442XCAHX-*3 (4)	250	Opp	44		7-A-140		7170-3X
442XFAHX-*3 (5)	250	Opp	55		7-A-032(P)	328481X	Furnished	442XFAHX-*3 (5)	250	Opp	55		7-A-140		7170-3X
442XHAHX-*3 (6)	250	Opp	64		7-A-032(P)	328481X	Furnished	442XHAHX-*3 (6)	250	Opp	64		7-A-140		7170-3X
442XLAHX-*3 (7)	250	Opp	71		7-A-032(P)	328481X	Furnished	442XLAHX-*3 (7)	250	Opp	71		7-A-140		7170-3X
442XQAHX-*3 (7)	225	Opp	76		7-A-032(P)	328481X	Furnished	442XQAHX-*3 (7)	225	Opp	76		7-A-140		7170-3X
442XRAHX-*3 (7)	225	Opp	88		7-A-032(P)	328481X	Furnished	442XRAHX-*3 (7)	225	Opp	88		7-A-140		7170-3X
442XSAHX-*3 (7)	200	Opp	105		7-A-032(P)	328481X	Furnished	442XSAHX-*3 (7)	200	Opp	105		7-A-140		7170-3X
442XUAHX-*3 (7)	195	Opp	125		7-A-032(P)	328481X	Furnished	442XUAHX-*3 (7)	195	Opp	125		7-A-140		7170-3X
442XWAHX-*3 (7)	175	Opp	147		7-A-032(P)	328481X	Furnished	442XWAHX-*3 (7)	175	Opp	147		7-A-140		7170-3X
442XXAHX-*3 (7)	140	Opp	174		7-A-032(P)	328481X	Furnished	442XXAHX-*3 (7)	140	Opp	174		7-A-140		7170-3X
489XAAHX-*3 (3)	250	Opp	35				Furnished	660KFAHX-*3 (8)	375	Opp	55		7-A-140		7170-3X
489XCAHX-*3 (4)	250	Opp	44				Furnished	660KQAHX-*3 (9)	375	Opp	76		7-A-140		7170-3X
489XFAHX-*3 (5)	250	Opp	55				Furnished	660KSAHX-*3 (10)	325	Opp	105		7-A-140		7170-3X
489XHAHX-*3 (6)	250	Opp	64				Furnished								
489XLAHX-*3 (7)	250	Opp	71				Furnished								
489XQAHX-*3 (7)	225	Opp	76				Furnished								
489XRAHX-*3 (7)	225	Opp	88				Furnished								
489XSAHX-*3 (7)	200	Opp	105				Furnished								
489XUAHX-*3 (7)	195	Opp	125				Furnished								
489XWAHX-*3 (7)	175	Opp	147				Furnished								
489XXAHX-*3 (7)	140	Opp	174				Furnished								
680XFAHX-*3 (8)	375	Opp	55				Furnished								
680XQAHX-*3 (9)	375	Opp	76				Furnished								
680XSAHX-*3 (10)	325	Opp	105				Furnished								
823XBAHX-*3 (11)	500	Opp	37				Furnished								

Continued Next Page

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

- (1) Gear and Shaft Kit No. KXA-2-P-565
(2) Filler block furnished with P.T.O.
(3) Input Gear Part No. 5-P-1280
(4) Input Gear Part No. 5-P-1287
(5) Input Gear Part No. 5-P-1077
(6) Input Gear Part No. 5-P-1364

- (7) Input Gear Part No. 5-P-1004
(8) Input Gear Part No. 5-P-1242
(9) Input Gear Part No. 5-P-1246
(10) Input Gear Part No. 5-P-1322
(11) Input Gear Part No. 5-P-285

January 2008

9072-A
PS97-7A

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

50 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.9000" (22.8600MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

50 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

1.0540" (26.7700MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

823XJAHX-*3 (12)	500	Opp	56					Furnished							
823XMAHX-*3 (13)	500	Opp	66					Furnished							
823XRAHX-*3 (14)	400	Opp	91					Furnished							
823XTKTX-*3 (15)	350	Opp	111		8-A-165 (2)			Furnished							
880XBAHX-*3 (16)	500	Opp	37					Furnished							
880XDAHX-*3 (17)	500	Opp	44					Furnished							
880XGAHX-*3 (18)	500	Opp	48					Furnished							
880XJAHX-*3 (19)	500	Opp	56					Furnished							
880XMAHX-*3 (20)	500	Opp	66					Furnished							
880XQAHX-*3 (21)	450	Opp	77					Furnished							
880XRAHX-*3 (22)	400	Opp	91					Furnished							
880XTAHX-*3 (23)	350	Opp	118					Furnished							

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

236XDAHX-*3 (7)	250	Opp	58		7-A-032(P)	328481X	Furnished	230XAAJX-*3	250	Opp	29				Furnished
236XKAHX-*3 (7)	250	Opp	73		7-A-032(P)	328481X	Furnished	230XBAJX-*3	250	Opp	37				Furnished
236XQAHX-*3 (7)	250	Opp	99		7-A-032(P)	328481X	Furnished	230XDAJX-*3	250	Opp	43				Furnished
236XUAHX-*3 (7)	225	Opp	113		7-A-032(P)	328481X	Furnished	230XKAJX-*3	250	Opp	59				Furnished
885XBAHX-*3 (16)	500	Opp	37				Furnished	230XQAJX-*3	250	Opp	78				Furnished
885XGAHX-*3 (18)	500	Opp	48				Furnished	230XUAJX-*3	225	Opp	125				Furnished
885XJAHX-*3 (19)	500	Opp	56				Furnished	236KDAHX-*3 (7)	250	Opp	58		7-A-140		7170-3X
885XMAHX-*3 (20)	500	Opp	66				Furnished	236KKAHX-*3 (7)	250	Opp	73		7-A-140		7170-3X
								236KQAHX-*3 (7)	250	Opp	99		7-A-140		7170-3X
								236KUAHX-*3 (7)	225	Opp	113		7-A-140		7170-3X

ONE SPEED - FORWARD & REVERSE

340XFAHX-*5 (24)	200	Opp	48	50	7-A-140(P)(2) 7-A-062	310778X	Furnished	340XFAHX-*5 (24)	200	Opp	48	50	7-A-140 (2) 7-A-165		7170-3X
352XSAHX-*3 (7)	140	Opp	107	138	7-A-062(P)	328481X	Furnished	352XSAHX-*3 (7)	140	Opp	107	138	7-A-140		7170-3X
863XBAHX-*5	500	Opp	37	46			Furnished								

ONE SPEED - DUAL SHAFT

452XSAHX-*3 (7)	140	Opp	107		7-A-032(P)	328481X	Furnished	452XSAHX-*3 (7)	140	Opp	107		7-A-140		7170-3X
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CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(2) Filler block furnished with P.T.O.
(7) Input Gear Part No. 5-P-1004
(12) Input Gear Part No. 5-P-325
(13) Input Gear Part No. 5-P-283
(14) Input Gear Part No. 5-P-721
(15) Input Gear Part No. 5-P-1395

(16) Input Gear Part No. 5-P-1100
(17) Input Gear Part No. 5-P-1101
(18) Input Gear Part No. 5-P-1135
(19) Input Gear Part No. 5-P-1102
(20) Input Gear Part No. 5-P-1103
(21) Input Gear Part No. 5-P-1385

(22) Input Gear Part No. 5-P-1104
(23) Input Gear Part No. 5-P-1105
(24) Input Gear Part No. 5-P-581

January 2008

9072-A
PS97-7A

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

50 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.9000" (22.8600MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

50 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

1.0540" (26.7700MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

GEARED ADAPTERS

628XAHX-3AH	8-A-032	Furnished	626KAHX-3AH	7-A-140	7170-3X
			630KAHX-3AH	7-A-140	7170-3X
			645KAHX-3AH	7-A-140	7170-3X

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

January 2008

CM4954-A
ES43-5A
ES52-5A
ES53-5A

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

32 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.1010" (27.9654MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

32 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.1010" (27.9654MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100XRAPX-*3 (1) 125 Eng 69 Furnished

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442XAAPX-*5 (2)	250	Opp	26				Furnished	442XAAPX-*3 (2)	250	Opp	26				Furnished
442XCAPX-*5 (3)	250	Opp	33				Furnished	442XCAPX-*3 (3)	250	Opp	33				Furnished
442XFAPX-*5 (4)	250	Opp	41				Furnished	442XFAPX-*3 (4)	250	Opp	41				Furnished
442XLAPX-*5 (5)	250	Opp	53				Furnished	442XLAPX-*3 (5)	250	Opp	53				Furnished
442XQAPX-*5 (5)	225	Opp	58				Furnished	442XQAPX-*3 (5)	225	Opp	58				Furnished
442XRAPX-*5 (5)	225	Opp	67				Furnished	442XRAPX-*3 (5)	225	Opp	67				Furnished
442XSAPX-*5 (5)	200	Opp	79				Furnished	442XSAPX-*3 (5)	200	Opp	79				Furnished
442XUAPX-*5 (5)	195	Opp	94				Furnished	442XUAPX-*3 (5)	195	Opp	94				Furnished
442XWAPX-*5 (5)	175	Opp	111				Furnished	442XWAPX-*3 (5)	175	Opp	111				Furnished
442XXAPX-*5 (5)	140	Opp	132				Furnished	442XXAPX-*3 (5)	140	Opp	132				Furnished

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

236XDAPX-*5 (5)	250	Opp	43				Furnished	236XDAPX-*3 (5)	250	Opp	43				Furnished
236XKAPX-*5 (5)	250	Opp	56				Furnished	236XKAPX-*3 (5)	250	Opp	56				Furnished
236XQAPX-*5 (5)	250	Opp	75				Furnished	236XQAPX-*3 (5)	250	Opp	75				Furnished
236XUAPX-*5 (5)	225	Opp	86				Furnished	236XUAPX-*3 (5)	225	Opp	86				Furnished

ONE SPEED - FORWARD & REVERSE

340XFAPX-*5 (6)	200	Opp	38	40	7-A-140 (7)		Furnished	340XFAPX-*5 (6)	200	Opp	38	40	7-A-140 (7)		Furnished
352XSAPX-*5 (5)	140	Opp	80	104			Furnished	352XSAPX-*3 (5)	140	Opp	80	104			Furnished

ONE SPEED - DUAL SHAFT

452XSAPX-*3 (5)	140	Opp	80				Furnished	452XSAPX-*3 (5)	140	Opp	80				Furnished
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GEARED ADAPTERS

626XAPX-4GX		Furnished	626XAPX-3GX		Furnished
630XAPX-4GX		Furnished	630XAPX-3GX		Furnished
645XAPX-4GX		Furnished	645XAPX-3GX		Furnished

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.

NOTE: 100 Series will not mount on the left side due to output shaft interference.

NOTE: The ES-43-5A, ES52-5A and ES53-5A transmissions have two six bolt openings on the left hand side. The front opening is for P.T.O. application. The rear opening is for assembly of the reverse idler gear.

(1) Gear and Shaft Kit No. KXA-2-P-685
(2) Input Gear Part No. 5-P-1282
(3) Input Gear Part No. 5-P-1289
(4) Input Gear Part No. 5-P-1079
(5) Input Gear Part No. 5-P-1006
(6) Input Gear Part No. 5-P-845

(7) Filler block furnished with P.T.O.

January 2008

CM4954-D
ES43-5D
ES52-5D
ES53-5D

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

34 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.9220" (23.4188MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

34 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.9220" (23.4188MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100XRAPX-*3 (1) 125 Eng 74 7-A-125 7170-11X

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442KAAPX-*5 (2)	250	Opp	28		7-A-125		7170-3X	442KAAPX-*3 (2)	250	Opp	28		7-A-125		7170-3X
442KCAPX-*5 (3)	250	Opp	35		7-A-125		7170-3X	442KCAPX-*3 (3)	250	Opp	35		7-A-125		7170-3X
442KFAPX-*5 (4)	250	Opp	44		7-A-125		7170-3X	442KFAPX-*3 (4)	250	Opp	44		7-A-125		7170-3X
442KLAPX-*5 (5)	250	Opp	57		7-A-125		7170-3X	442KLAPX-*3 (5)	250	Opp	57		7-A-125		7170-3X
442KQAPX-*5 (5)	225	Opp	61		7-A-125		7170-3X	442KQAPX-*3 (5)	225	Opp	61		7-A-125		7170-3X
442KRAPX-*5 (5)	225	Opp	71		7-A-125		7170-3X	442KRAPX-*3 (5)	225	Opp	71		7-A-125		7170-3X
442KSAPX-*5 (5)	200	Opp	84		7-A-125		7170-3X	442KSAPX-*3 (5)	200	Opp	84		7-A-125		7170-3X
442KUAPX-*5 (5)	195	Opp	100		7-A-125		7170-3X	442KUAPX-*3 (5)	195	Opp	100		7-A-125		7170-3X
442KWAPX-*5 (5)	175	Opp	118		7-A-125		7170-3X	442KWAPX-*3 (5)	175	Opp	118		7-A-125		7170-3X
442KXAPX-*5 (5)	140	Opp	140		7-A-125		7170-3X	442KXAPX-*3 (5)	140	Opp	140		7-A-125		7170-3X

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

236KDAPX-*5 (5)	250	Opp	46		7-A-125		7170-3X	236KDAPX-*3 (5)	250	Opp	46		7-A-125		7170-3X
236KKAPX-*5 (5)	250	Opp	59		7-A-125		7170-3X	236KKAPX-*3 (5)	250	Opp	59		7-A-125		7170-3X
236KQAPX-*5 (5)	250	Opp	79		7-A-125		7170-3X	236KQAPX-*3 (5)	250	Opp	79		7-A-125		7170-3X
236KUAPX-*5 (5)	225	Opp	91		7-A-125		7170-3X	236KUAPX-*3 (5)	225	Opp	91		7-A-125		7170-3X

ONE SPEED - FORWARD & REVERSE

340SFAPX-*5 (6)	200	Opp	40	42	7-A-250		7170-4X	340SFAPX-*5 (6)	200	Opp	40	42	7-A-250		7170-4X
352XSAPX-*5 (5)	140	Opp	85	110	7-A-125		7170-3X	352XSAPX-*3 (5)	140	Opp	85	110	7-A-125		7170-3X

ONE SPEED - DUAL SHAFT

452XSAPX-*3 (5)	140	Opp	85		7-A-125		7170-3X	452XSAPX-*3 (5)	140	Opp	85		7-A-125		7170-3X
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GEARED ADAPTERS

626KAPX-4GX					7-A-125		7170-3X	626KAPX-3GX					7-A-125		7170-3X
630KAPX-4GX					7-A-125		7170-3X	630KAPX-3GX					7-A-125		7170-3X
645KAPX-4GX					7-A-125		7170-3X	645KAPX-3GX					7-A-125		7170-3X

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.

NOTE: 100 Series will not mount on the left side due to output shaft interference.

NOTE: The ES-43-5D, ES52-5D and ES53-5D transmissions have two six bolt openings on the left hand side. The front opening is for P.T.O. application. The rear opening is for assembly of the reverse idler gear.

- (1) Gear and Shaft Kit No. KXA-2-P-685
(2) Input Gear Part No. 5-P-1282
(3) Input Gear Part No. 5-P-1289
(4) Input Gear Part No. 5-P-1079
(5) Input Gear Part No. 5-P-1006
(6) Input Gear Part No. 5-P-845

January 2008

9505-2A PSO105-7LL
 9505-2B
 PS105-7LL
 PS125-6L
 PS130-6L

BOTTOM SIDE ONLY**RIGHT SIDE ONLY****TRANSMISSION GEAR DATA:**

BOT 8-Bolt Opening Gear FORWARD of Centerline

43 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

1.4790" (37.5666MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

43 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

1.6360" (41.5544MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100XRAHX-*3 (1) 125 Opp 90 7-A-1468(T) 328530-1X 7170-50X

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

823ZBAHX-*3 (6)	500	Opp	38	8-A-295	328170-17X	221XCAHX-*3	250	Eng	40	7-A-1468(T)	328530-1X	328170-36X
										7-A-062(P)		
										7-A-032 (2)		
823ZJAHX-*3 (7)	500	Opp	57	8-A-295	328170-17X	221XEAHX-*3	250	Eng	46	7-A-1468(T)	328530-1X	328170-36X
823ZMAHX-*3 (8)	500	Opp	67	8-A-295	328170-17X	221XLAHX-*3	200	Eng	62	7-A-1468(T)	328530-1X	328170-36X
823ZRAHX-*3 (9)	400	Opp	93	8-A-295	328170-17X	221XPAHX-*3	200	Eng	75	7-A-1468(T)	328530-1X	328170-36X
880ZBAHX-*3 (10)	500	Opp	38	8-A-295	328170-17X	442KFAHX-*3 (3)	250	Eng	55	7-A-1468(T)	328530-1X	7170-26X
880ZDAHX-*3 (11)	500	Opp	45	8-A-295	328170-17X	442KHAHX-*3 (4)	250	Eng	64	7-A-1468(T)	328530-1X	7170-26X
880ZGAHX-*3 (12)	500	Opp	49	8-A-295	328170-17X	442KLAHX-*3 (5)	250	Eng	72	7-A-1468(T)	328530-1X	7170-26X
880ZJAHX-*3 (13)	500	Opp	57	8-A-295	328170-17X	442KQAHX-*3 (5)	225	Eng	77	7-A-1468(T)	328530-1X	7170-26X
880ZMAHX-*3 (14)	500	Opp	67	8-A-295	328170-17X	442KRAHX-*3 (5)	225	Eng	90	7-A-1468(T)	328530-1X	7170-26X
880ZQAHX-*3 (15)	450	Opp	79	8-A-295	328170-17X	442KSAHX-*3 (5)	200	Eng	107	7-A-1468(T)	328530-1X	7170-26X
880ZRAHX-*3 (16)	400	Opp	93	8-A-295	328170-17X	442KUAHX-*3 (5)	195	Eng	127	7-A-1468(T)	328530-1X	7170-26X
880ZTAHX-*3 (17)	350	Opp	119	8-A-295	328170-17X	442KWAHX-*3 (5)	175	Eng	149	7-A-1468(T)	328530-1X	7170-26X
						442KXAHX-*3 (5)	140	Eng	177	7-A-1468(T)	328530-1X	7170-26X

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

885ZBAHX-*3 (10)	500	Opp	38	8-A-295	328170-17X	236KDAHX-*3 (5)	250	Eng	58	7-A-1468(T)	328530-1X	7170-26X
885ZGAHX-*3 (12)	500	Opp	49	8-A-295	328170-17X	236KKAHX-*3 (5)	250	Eng	75	7-A-1468(T)	328530-1X	7170-26X
885ZJAHX-*3 (13)	500	Opp	57	8-A-295	328170-17X	236KQAHX-*3 (5)	250	Eng	100	7-A-1468(T)	328530-1X	7170-26X
885ZMAHX-*3 (14)	500	Opp	67	8-A-295	328170-17X	236KUAHX-*3 (5)	225	Eng	115	7-A-1468(T)	328530-1X	7170-26X

ONE SPEED - FORWARD & REVERSE

						340XFAHX-*5 (18)	200	Eng	48	51	7-A-140(P)(19)	328530-1X	7170-26X
											7-A-1468(T)		
						352XSAHX-*3 (5)	140	Eng	108	140	7-A-1468(T)	328530-1X	7170-26X

ONE SPEED - DUAL SHAFT

						452XSAHX-*3 (5)	140	Eng	108		7-A-1468(T)	328530-1X	7170-26X
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NOTE: Adapters not recommended on 8-Bolt openings.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

- (1) Gear and Shaft Kit No. KXA-2-P-565
 (2) Filler block furnished with P.T.O. but not required
 (3) Input Gear Part No. 5-P-1077
 (4) Input Gear Part No. 5-P-1364
 (5) Input Gear Part No. 5-P-1004
 (6) Input Gear Part No. 5-P-285

- (7) Input Gear Part No. 5-P-325
 (8) Input Gear Part No. 5-P-283
 (9) Input Gear Part No. 5-P-721
 (10) Input Gear Part No. 5-P-1100
 (11) Input Gear Part No. 5-P-1101
 (12) Input Gear Part No. 5-P-1135

- (13) Input Gear Part No. 5-P-1102
 (14) Input Gear Part No. 5-P-1103
 (15) Input Gear Part No. 5-P-1385
 (16) Input Gear Part No. 5-P-1104
 (17) Input Gear Part No. 5-P-1105
 (18) Input Gear Part No. 5-P-581

- (19) Filler block furnished with P.T.O.

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AS125-9A	LAS135-9A	PS125-9A
AS135-9A	LAS140-9A	PS140-9A
AS140-9A	LAS145-9A	PS9-VPD
LAS115-9A	LPS125-9A	PS95-9A
LAS125-9A	LPS140-9A	

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 8-Bolt Opening Gear FORWARD of Centerline

45 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.7300" (18.5420MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear REAR of Centerline

45 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

1.0750" (27.3050MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

812XKAHX-*3	400	Eng	77				Furnished								
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ONE SPEED - TWO GEAR - MECHANICAL SHIFT

221XCAHX-*5	250	Opp	51		7-A-062(P) 7-A-032 (1)	328481X	Furnished	221XCAHX-*4	250	Opp	51		7-A-062 7-A-032 (1)		Furnished
221XEAHX-*5	250	Opp	59			328481X	Furnished	221XEAHX-*4	250	Opp	59				Furnished
221XLAHX-*5	200	Opp	80			328481X	Furnished	221XLAHX-*4	200	Opp	80				Furnished
221XPAHX-*5	200	Opp	96			328481X	Furnished	221XPAHX-*4	200	Opp	96				Furnished
442XAAHX-*5 (2)	250	Opp	45			328481X	Furnished	442XFAHX-*4 (4)	250	Opp	71				Furnished
442XCAHX-*5 (3)	250	Opp	58			328481X	Furnished	442XHAHX-*4 (5)	250	Opp	82				Furnished
442XFAHX-*5 (4)	250	Opp	71			328481X	Furnished	442XLAHX-*4 (6)	250	Opp	92				Furnished
442XHAHX-*5 (5)	250	Opp	82			328481X	Furnished	442XQAHX-*4 (6)	225	Opp	100				Furnished
442XLAHX-*5 (6)	250	Opp	92			328481X	Furnished	442XRAHX-*4 (6)	225	Opp	115				Furnished
442XQAHX-*5 (6)	225	Opp	100			328481X	Furnished	442XSAHX-*4 (6)	200	Opp	137				Furnished
442XRAHX-*5 (6)	225	Opp	115			328481X	Furnished	442XUAHX-*4 (6)	195	Opp	164				Furnished
442XSAHX-*5 (6)	200	Opp	137			328481X	Furnished	442XWAHX-*4 (6)	175	Opp	192				Furnished
442XUAHX-*5 (6)	195	Opp	164			328481X	Furnished	442XXAHX-*4 (6)	140	Opp	228				Furnished
442XWAHX-*5 (6)	175	Opp	192			328481X	Furnished	660XFAHX-*4 (7)	375	Opp	71				Furnished
442XXAHX-*5 (6)	140	Opp	228			328481X	Furnished	660XQAHX-*4 (8)	375	Opp	100				Furnished
489XCAHX-*5 (3)	250	Opp	58				Furnished	660XSAHX-*4 (9)	325	Opp	137				Furnished
489XFAHX-*5 (4)	250	Opp	71				Furnished								
489XHAHX-*5 (5)	250	Opp	82				Furnished								
489XLAHX-*5 (6)	250	Opp	92				Furnished								
489XQAHX-*5 (6)	225	Opp	100				Furnished								
489XRAHX-*5 (6)	225	Opp	115				Furnished								
489XSAHX-*5 (6)	200	Opp	137				Furnished								
489XUAHX-*5 (6)	195	Opp	164				Furnished								
489XWAHX-*5 (6)	175	Opp	192				Furnished								
489XXAHX-*5 (6)	140	Opp	228				Furnished								
680XFAHX-*5 (7)	375	Opp	71				Furnished								
680XQAHX-*5 (8)	375	Opp	100				Furnished								
680XSAHX-*5 (9)	325	Opp	137				Furnished								
823XBAHX-*5 (10)	500	Opp	49				Furnished								
823XJAHX-*5 (11)	500	Opp	74				Furnished								
823XMAHX-*5 (12)	500	Opp	86				Furnished								

Continued Next Page

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: The 100 Series will not mount on this transmission due to output shaft interference.

NOTE: The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

- (1) Filler block furnished with P.T.O.
 (2) Input Gear Part No. 5-P-1280
 (3) Input Gear Part No. 5-P-1287
 (4) Input Gear Part No. 5-P-1077
 (5) Input Gear Part No. 5-P-1364
 (6) Input Gear Part No. 5-P-1004

- (7) Input Gear Part No. 5-P-1242
 (8) Input Gear Part No. 5-P-1246
 (9) Input Gear Part No. 5-P-1322
 (10) Input Gear Part No. 5-P-285
 (11) Input Gear Part No. 5-P-325
 (12) Input Gear Part No. 5-P-283

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AS125-9A	LAS135-9A	PS125-9A
AS135-9A	LAS140-9A	PS140-9A
AS140-9A	LAS145-9A	PS9-VPD
LAS115-9A	LPS125-9A	PS95-9A
LAS125-9A	LPS140-9A	

LEFT SIDE ONLY	RIGHT SIDE ONLY
TRANSMISSION GEAR DATA: L.H. 8-Bolt Opening Gear FORWARD of Centerline 45 Teeth - SPUR PITCH LINE TO APERTURE FACE: .7300" (18.5420MM)	TRANSMISSION GEAR DATA: R.H. 6-Bolt Opening Gear REAR of Centerline 45 Teeth - SPUR PITCH LINE TO APERTURE FACE: 1.0750" (27.3050MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine % Hi Rev	Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine % Hi Rev	Filler Block	Adapter Assy.	Stud Kit
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ONE SPEED - TWO GEAR - MECHANICAL SHIFT

823XRAHX-*5 (13)	400	Opp	119			Furnished							
823XTKTX-*5 (14)	350	Opp	145	8-A-165 (1)		Furnished							
880XBAHX-*5 (15)	500	Opp	49			Furnished							
880XDAHX-*5 (16)	500	Opp	58			Furnished							
880XGAHX-*5 (17)	500	Opp	63			Furnished							
880XJAHX-*5 (18)	500	Opp	74			Furnished							
880XMAHX-*5 (19)	500	Opp	86			Furnished							
880XQAHX-*5 (20)	450	Opp	101			Furnished							
880XRAHX-*5 (21)	400	Opp	119			Furnished							
880XTAHX-*5 (22)	350	Opp	154			Furnished							

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

230XAAJX-*5	250	Opp	38	7-A-093(P)	328481X	Furnished	230XAAJX-*4	250	Opp	38	7-A-093		Furnished
230XBAJX-*5	250	Opp	49	7-A-093(P)	328481X	Furnished	230XBAJX-*4	250	Opp	49	7-A-093		Furnished
230XDAJX-*5	250	Opp	57	7-A-093(P)	328481X	Furnished	230XDAJX-*4	250	Opp	57	7-A-093		Furnished
230XKAJX-*5	250	Opp	76	7-A-093(P)	328481X	Furnished	230XKAJX-*4	250	Opp	76	7-A-093		Furnished
230XQAJX-*5	250	Opp	102	7-A-093(P)	328481X	Furnished	230XQAJX-*4	250	Opp	102	7-A-093		Furnished
230XUAJX-*5	225	Opp	163	7-A-093(P)	328481X	Furnished	230XUAJX-*4	225	Opp	163	7-A-093		Furnished
236XDAHX-*5 (6)	250	Opp	75		328481X	Furnished	236XDAHX-*4 (6)	250	Opp	75			Furnished
236XKAHX-*5 (6)	250	Opp	96		328481X	Furnished	236XKAHX-*4 (6)	250	Opp	96			Furnished
236XQAHX-*5 (6)	250	Opp	129		328481X	Furnished	236XQAHX-*4 (6)	250	Opp	129			Furnished
236XUAHX-*5 (6)	225	Opp	148		328481X	Furnished	236XUAHX-*4 (6)	225	Opp	148			Furnished
885XBAHX-*5 (15)	500	Opp	49			Furnished							
885XGAHX-*5 (17)	500	Opp	63			Furnished							
885XJAHX-*5 (18)	500	Opp	74			Furnished							
885XMAHX-*5 (19)	500	Opp	86			Furnished							

ONE SPEED - FORWARD & REVERSE

340XFAHX-*5 (23)	200	Opp	62	66	7-A-140(P)(24)	328481X	Furnished	340XFAHX-*4 (23)	200	Opp	62	66	7-A-140 (1)	Furnished
352XSAHX-*5 (6)	140	Opp	139	180	7-A-032(P)	328481X	Furnished	352XSAHX-*4 (6)	140	Opp	139	180	7-A-032	Furnished
863XBAHX-*5	500	Opp	49	60			Furnished							

ONE SPEED - DUAL SHAFT

452XSAHX-*3 (6)	140	Opp	139			328481X	Furnished	452XSAHX-*6 (6)	140	Opp	139			Furnished
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CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: The 100 Series will not mount on this transmission due to output shaft interference.

NOTE: The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(1) Filler block furnished with P.T.O.
 (6) Input Gear Part No. 5-P-1004
 (13) Input Gear Part No. 5-P-721
 (14) Input Gear Part No. 5-P-1395
 (15) Input Gear Part No. 5-P-1100
 (16) Input Gear Part No. 5-P-1101

(17) Input Gear Part No. 5-P-1135
 (18) Input Gear Part No. 5-P-1102
 (19) Input Gear Part No. 5-P-1103
 (20) Input Gear Part No. 5-P-1385
 (21) Input Gear Part No. 5-P-1104
 (22) Input Gear Part No. 5-P-1105

(23) Input Gear Part No. 5-P-581
 (24) Filler block furnished with P.T.O. but not required

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AS125-9A	LAS135-9A	PS125-9A
AS135-9A	LAS140-9A	PS140-9A
AS140-9A	LAS145-9A	PS9-VPD
LAS115-9A	LPS125-9A	PS95-9A
LAS125-9A	LPS140-9A	

LEFT SIDE ONLY	RIGHT SIDE ONLY
TRANSMISSION GEAR DATA: L.H. 8-Bolt Opening Gear FORWARD of Centerline 45 Teeth - SPUR PITCH LINE TO APERTURE FACE: .7300" (18.5420MM)	TRANSMISSION GEAR DATA: R.H. 6-Bolt Opening Gear REAR of Centerline 45 Teeth - SPUR PITCH LINE TO APERTURE FACE: 1.0750" (27.3050MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

GEARED ADAPTERS

628XAHX-4AH	8-A-032	Furnished	626XAHX-4AH	Furnished
			630XAHX-4AH	Furnished
			645XAHX-4AH	Furnished

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: The 100 Series will not mount on this transmission due to output shaft interference.

NOTE: The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

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ASO125-9A	LASO115-9A	LASO150-9A	PSO140-9A
ASO135-9A	LASO125-9A	LPSO125-9A	PSO150-9A
ASO140-9A	LASO135-9A	LPSO140-9A	PSO9-VPD
ASO145-9A	LASO140-9A	LPSO150-9A	PSO95-9
ASO150-9A	LASO145-9A	PSO125-9A	

LEFT SIDE ONLY	RIGHT SIDE ONLY
TRANSMISSION GEAR DATA: L.H. 8-Bolt Opening Gear FORWARD of Centerline 45 Teeth - SPUR PITCH LINE TO APERTURE FACE: .7300" (18.5420MM)	TRANSMISSION GEAR DATA: R.H. 6-Bolt Opening Gear REAR of Centerline 45 Teeth - SPUR PITCH LINE TO APERTURE FACE: 1.0750" (27.3050MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

812XKAHX-*3	400	Eng	103				Furnished								
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ONE SPEED - TWO GEAR - MECHANICAL SHIFT

221XCAHX-*5	250	Opp	69		7-A-062(P) 7-A-032 (1)	328481X	Furnished	221XCAHX-*4	250	Opp	69		7-A-062 7-A-032 (1)		Furnished
221XEAHX-*5	250	Opp	80			328481X	Furnished	221XEAHX-*4	250	Opp	80				Furnished
221XLAHX-*5	200	Opp	107			328481X	Furnished	221XLAHX-*4	200	Opp	107				Furnished
221XPAHX-*5	200	Opp	129			328481X	Furnished	221XPAHX-*4	200	Opp	129				Furnished
442XAAHX-*5 (2)	250	Opp	61			328481X	Furnished	442XFAHX-*4 (4)	250	Opp	96				Furnished
442XCAHX-*5 (3)	250	Opp	78			328481X	Furnished	442XHAHX-*4 (5)	250	Opp	111				Furnished
442XFAHX-*5 (4)	250	Opp	96			328481X	Furnished	442XLAHX-*4 (6)	250	Opp	124				Furnished
442XHAHX-*5 (5)	250	Opp	111			328481X	Furnished	442XQAHX-*4 (6)	225	Opp	134				Furnished
442XLAHX-*5 (6)	250	Opp	124			328481X	Furnished	442XRAHX-*4 (6)	225	Opp	155				Furnished
442XQAHX-*5 (6)	225	Opp	134			328481X	Furnished	442XSAHX-*4 (6)	200	Opp	184				Furnished
442XRAHX-*5 (6)	225	Opp	155			328481X	Furnished	442XUAHX-*4 (6)	195	Opp	220				Furnished
442XSAHX-*5 (6)	200	Opp	184			328481X	Furnished	442XWAHX-*4 (6)	175	Opp	258				Furnished
442XUAHX-*5 (6)	195	Opp	220			328481X	Furnished	442XXAHX-*4 (6)	140	Opp	306				Furnished
442XWAHX-*5 (6)	175	Opp	258			328481X	Furnished	660XFAHX-*4 (7)	375	Opp	96				Furnished
442XXAHX-*5 (6)	140	Opp	306			328481X	Furnished	660XQAHX-*4 (8)	375	Opp	134				Furnished
489XAAHX-*5 (2)	250	Opp	61				Furnished	660XSAHX-*4 (9)	325	Opp	184				Furnished
489XCAHX-*5 (3)	250	Opp	78				Furnished								
489XFAHX-*5 (4)	250	Opp	96				Furnished								
489XHAHX-*5 (5)	250	Opp	111				Furnished								
489XLAHX-*5 (6)	250	Opp	124				Furnished								
489XQAHX-*5 (6)	225	Opp	134				Furnished								
489XRAHX-*5 (6)	225	Opp	155				Furnished								
489XSAHX-*5 (6)	200	Opp	184				Furnished								
489XUAHX-*5 (6)	195	Opp	220				Furnished								
489XWAHX-*5 (6)	175	Opp	258				Furnished								
489XXAHX-*5 (6)	140	Opp	306				Furnished								
680XFAHX-*5 (7)	375	Opp	96				Furnished								
680XQAHX-*5 (8)	375	Opp	134				Furnished								
680XSAHX-*5 (9)	325	Opp	184				Furnished								
823XBAHX-*5 (10)	500	Opp	65				Furnished								
823XJAHX-*5 (11)	500	Opp	99				Furnished								

Continued Next Page

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: The 100 Series will not mount on this transmission due to output shaft interference.

NOTE: The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

- | | |
|---|----------------------------------|
| (1) Filler block furnished with P.T.O. but not required | (7) Input Gear Part No. 5-P-1242 |
| (2) Input Gear Part No. 5-P-1280 | (8) Input Gear Part No. 5-P-1246 |
| (3) Input Gear Part No. 5-P-1287 | (9) Input Gear Part No. 5-P-1322 |
| (4) Input Gear Part No. 5-P-1077 | (10) Input Gear Part No. 5-P-285 |
| (5) Input Gear Part No. 5-P-1364 | (11) Input Gear Part No. 5-P-325 |
| (6) Input Gear Part No. 5-P-1004 | |

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ASO125-9A	LASO115-9A	LASO150-9A	PSO140-9A
ASO135-9A	LASO125-9A	LPSO125-9A	PSO150-9A
ASO140-9A	LASO135-9A	LPSO140-9A	PSO9-VPD
ASO145-9A	LASO140-9A	LPSO150-9A	PSO95-9
ASO150-9A	LASO145-9A	PSO125-9A	

LEFT SIDE ONLY	RIGHT SIDE ONLY
TRANSMISSION GEAR DATA: L.H. 8-Bolt Opening Gear FORWARD of Centerline 45 Teeth - SPUR PITCH LINE TO APERTURE FACE: .7300" (18.5420MM)	TRANSMISSION GEAR DATA: R.H. 6-Bolt Opening Gear REAR of Centerline 45 Teeth - SPUR PITCH LINE TO APERTURE FACE: 1.0750" (27.3050MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

823XMAHX-*5 (12)	500	Opp	116				Furnished								
823XRAHX-*5 (13)	400	Opp	160				Furnished								
823XTKTX-*5 (14)	350	Opp	194		8-A-165 (15)		Furnished								
880XBAHX-*5 (16)	500	Opp	65				Furnished								
880XDAHX-*5 (17)	500	Opp	77				Furnished								
880XGAHX-*5 (18)	500	Opp	84				Furnished								
880XJAHX-*5 (19)	500	Opp	99				Furnished								
880XMAHX-*5 (20)	500	Opp	116				Furnished								
880XQAHX-*5 (21)	450	Opp	136				Furnished								
880XRAHX-*5 (22)	400	Opp	160				Furnished								
880XTAHX-*5 (23)	350	Opp	206				Furnished								

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

230XAAJX-*5	250	Opp	50		7-A-093(P)	328481X	Furnished	230XAAJX-*4	250	Opp	50		7-A-093	Furnished
230XBAJX-*5	250	Opp	66		7-A-093(P)	328481X	Furnished	230XBAJX-*4	250	Opp	66		7-A-093	Furnished
230XDAJX-*5	250	Opp	76		7-A-093(P)	328481X	Furnished	230XDAJX-*4	250	Opp	76		7-A-093	Furnished
230XKAJX-*5	250	Opp	103		7-A-093(P)	328481X	Furnished	230XKAJX-*4	250	Opp	103		7-A-093	Furnished
230XQAJX-*5	250	Opp	137		7-A-093(P)	328481X	Furnished	230XQAJX-*4	250	Opp	137		7-A-093	Furnished
230XUAJX-*5	225	Opp	219		7-A-093(P)	328481X	Furnished	230XUAJX-*4	225	Opp	219		7-A-093	Furnished
236XDAHX-*5 (6)	250	Opp	100			328481X	Furnished	236XDAHX-*4 (6)	250	Opp	100			Furnished
236XKAHX-*5 (6)	250	Opp	129			328481X	Furnished	236XKAHX-*4 (6)	250	Opp	129			Furnished
236XQAHX-*5 (6)	250	Opp	173			328481X	Furnished	236XQAHX-*4 (6)	250	Opp	173			Furnished
236XUAHX-*5 (6)	225	Opp	199			328481X	Furnished	236XUAHX-*4 (6)	225	Opp	199			Furnished
885XBAHX-*5 (16)	500	Opp	65				Furnished							
885XGAHX-*5 (18)	500	Opp	84				Furnished							
885XJAHX-*5 (19)	500	Opp	99				Furnished							
885XMAHX-*5 (20)	500	Opp	116				Furnished							

ONE SPEED - FORWARD & REVERSE

340XFAHX-*5 (24)	200	Opp	84	88	7-A-140 (15)	328481X	Furnished	340XFAHX-*4 (24)	200	Opp	84	88	7-A-140 (15)	Furnished
352XSAHX-*5 (6)	140	Opp	187	242		328481X	Furnished	352XSAHX-*4 (6)	140	Opp	187	242		Furnished
863XBAHX-*5	500	Opp	65	81			Furnished							

ONE SPEED - DUAL SHAFT

452XSAHX-*3 (6)	140	Opp	187			328481X	Furnished	452XSAHX-*6 (6)	140	Opp	187			Furnished
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CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: The 100 Series will not mount on this transmission due to output shaft interference.

NOTE: The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(6) Input Gear Part No. 5-P-1004
(12) Input Gear Part No. 5-P-283
(13) Input Gear Part No. 5-P-721
(14) Input Gear Part No. 5-P-1395
(15) Filler block furnished with P.T.O.
(16) Input Gear Part No. 5-P-1100

(17) Input Gear Part No. 5-P-1101
(18) Input Gear Part No. 5-P-1135
(19) Input Gear Part No. 5-P-1102
(20) Input Gear Part No. 5-P-1103
(21) Input Gear Part No. 5-P-1385
(22) Input Gear Part No. 5-P-1104

(23) Input Gear Part No. 5-P-1105
(24) Input Gear Part No. 5-P-581

January 2008

ASO125-9A	LASO115-9A	LASO150-9A	PSO140-9A
ASO135-9A	LASO125-9A	LPSO125-9A	PSO150-9A
ASO140-9A	LASO135-9A	LPSO140-9A	PSO9-VPD
ASO145-9A	LASO140-9A	LPSO150-9A	PSO95-9
ASO150-9A	LASO145-9A	PSO125-9A	

LEFT SIDE ONLY	RIGHT SIDE ONLY
TRANSMISSION GEAR DATA: L.H. 8-Bolt Opening Gear FORWARD of Centerline 45 Teeth - SPUR PITCH LINE TO APERTURE FACE: .7300" (18.5420MM)	TRANSMISSION GEAR DATA: R.H. 6-Bolt Opening Gear REAR of Centerline 45 Teeth - SPUR PITCH LINE TO APERTURE FACE: 1.0750" (27.3050MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

GEARED ADAPTERS

628XAHX-4AH	8-A-032	Furnished	626XAHX-4AH 630XAHX-4AH 645XAHX-4AH	Furnished Furnished Furnished
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CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: The 100 Series will not mount on this transmission due to output shaft interference.

NOTE: The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

January 2008

ASO66-7B
ESO65-7A
ESO66-7B

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

34 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.4110" (35.8300MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

34 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.4110" (35.8300MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442LFFNX-*5 (1)	250	Opp	49				7170-96X	442LFFNX-*3 (1)	250	Opp	49				7170-96X
442LLFNX-*5 (2)	250	Opp	63				7170-96X	442LLFNX-*3 (2)	250	Opp	63				7170-96X
442LQFNX-*5 (2)	225	Opp	68				7170-96X	442LQFNX-*3 (2)	225	Opp	68				7170-96X
442LRFNX-*5 (2)	225	Opp	79				7170-96X	442LRFNX-*3 (2)	225	Opp	79				7170-96X
442LSFNX-*5 (2)	200	Opp	94				7170-96X	442LSFNX-*3 (2)	200	Opp	94				7170-96X
442LUFNX-*5 (2)	195	Opp	112				7170-96X	442LUFNX-*3 (2)	195	Opp	112				7170-96X
442LWFNX-*5 (2)	175	Opp	132				7170-96X	442LWFNX-*3 (2)	175	Opp	132				7170-96X
442LXFNX-*5 (2)	140	Opp	156				7170-96X	442LXFNX-*3 (2)	140	Opp	156				7170-96X

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

236LDFNX-*5 (2)	250	Opp	51				7170-96X	236LDFNX-*3 (2)	250	Opp	51				7170-96X
236LKFNX-*5 (2)	250	Opp	66				7170-96X	236LKFNX-*3 (2)	250	Opp	66				7170-96X
236LQFNX-*5 (2)	250	Opp	89				7170-96X	236LQFNX-*3 (2)	250	Opp	89				7170-96X
236LUFNX-*5 (2)	225	Opp	101				7170-96X	236LUFNX-*3 (2)	225	Opp	101				7170-96X

ONE SPEED - FORWARD & REVERSE

340ZFFNX-*5 (3)	200	Opp	45	40			7170-96X	340ZFFNX-*5 (3)	200	Opp	45	40			7170-96X
352ZSFNX-*5 (2)	140	Opp	95	123			7170-96X	352ZSFNX-*3 (2)	140	Opp	95	123			7170-96X

ONE SPEED - DUAL SHAFT

452ZSFNX-*3 (2)	140	Opp	95				7170-96X	452ZSFNX-*3 (2)	140	Opp	95				7170-96X
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GEARED ADAPTERS

626ZFNX-4HR (2)	Eng			7-A-300			7170-4X	626ZFNX-3HR (2)	Eng				7-A-300		7170-4X
630ZFNX-4HR (2)	Eng			7-A-300			7170-4X	630ZFNX-3HR (2)	Eng				7-A-300		7170-4X
645ZFNX-4HR (2)	Eng			7-A-300			7170-4X	645ZFNX-3HR (2)	Eng				7-A-300(P)		7170-4X

NOTE: 100 Series will not mount on this transmission because the mounting depth of 1.411 is too deep.

NOTE: P.T.O.s with shiftable input gears cannot be mounted on this transmission because there is no tooth round on the transmission P.T.O. drive gear.

NOTE: The 626Z/630Z/645Z Series adapters can be mounted to the transmission using the same stud kit as the 442 Series listed on this page. The 5-P-1070 input gear must be used in the adapter and the 5-P-1201 input gear must be used in the 442 Series. The 442 Series mounts to the adapter with a 7-A-300 spacer and the 7170-4X stud kit. The deep mount 442Z can be mounted to the adapters by adding a 7-A-200 to the 7-A-300 spacer.

(1) Input Gear Part No. 5-P-1097
(2) Input Gear Part No. 5-P-1070
(3) Input Gear Part No. 5-P-931

January 2008

ES52-7A
ES52-7B

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

34 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.4110" (35.8300MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

34 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.4110" (35.8300MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442ZFFNX-*5 (1)	250	Opp	36				Furnished	442ZFFNX-*3 (1)	250	Opp	36				Furnished
442ZLFNX-*5 (2)	250	Opp	47				Furnished	442ZLFNX-*3 (2)	250	Opp	47				Furnished
442ZQFNX-*5 (2)	225	Opp	51				Furnished	442ZQFNX-*3 (2)	225	Opp	51				Furnished
442ZRFNX-*5 (2)	225	Opp	58				Furnished	442ZRFNX-*3 (2)	225	Opp	58				Furnished
442ZSFNX-*5 (2)	200	Opp	70				Furnished	442ZSFNX-*3 (2)	200	Opp	70				Furnished
442ZUFNX-*5 (2)	195	Opp	83				Furnished	442ZUFNX-*3 (2)	195	Opp	83				Furnished
442ZWFNX-*5 (2)	175	Opp	98				Furnished	442ZWFNX-*3 (2)	175	Opp	98				Furnished
442ZXFNX-*5 (2)	140	Opp	115				Furnished	442ZXFNX-*3 (2)	140	Opp	115				Furnished

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

236ZDFNX-*5 (2)	250	Opp	38				Furnished	236ZDFNX-*3 (2)	250	Opp	38				Furnished
236ZKFNX-*5 (2)	250	Opp	48				Furnished	236ZKFNX-*3 (2)	250	Opp	48				Furnished
236ZQFNX-*5 (2)	250	Opp	66				Furnished	236ZQFNX-*3 (2)	250	Opp	66				Furnished
236ZUFNX-*5 (2)	225	Opp	75				Furnished	236ZUFNX-*3 (2)	225	Opp	75				Furnished

ONE SPEED - FORWARD & REVERSE

340ZFFNX-*5 (3)	200	Opp	33	30			Furnished	340ZFFNX-*5 (3)	200	Opp	33	30			Furnished
352ZSFNX-*5 (2)	140	Opp	71	91			Furnished	352ZSFNX-*3 (2)	140	Opp	71	91			Furnished

ONE SPEED - DUAL SHAFT

452ZSFNX-*3 (2)	140	Opp	71				Furnished	452ZSFNX-*3 (2)	140	Opp	71				Furnished
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GEARED ADAPTERS

626ZFNX-4HR (2)	Eng		7-A-300			7170-4X	626ZFNX-3HR (2)	Eng		7-A-300		7170-4X
630ZFNX-4HR (2)	Eng		7-A-300			7170-4X	630ZFNX-3HR (2)	Eng		7-A-300		7170-4X
645ZFNX-4HR (2)	Eng		7-A-300			7170-4X	645ZFNX-3HR (2)	Eng		7-A-300		7170-4X

NOTE: 100 Series will not mount on this transmission because the mounting depth of 1.411" is too deep.

NOTE: P.T.O.s with shiftable input gears cannot be mounted on this transmission because there is no tooth round on the transmission P.T.O. drive gear.

NOTE: The 626Z/630Z/645Z Series adapters can be mounted to the transmission using the same stud kit as the 442 Series listed on this page. The 5-P-1070 input gear must be used in the adapter and the 5-P-1201 input gear must be used in the 442 Series. The 442 Series mounts to the adapter with a 7-A-300 spacer and the 7170-4X stud kit. The deep mount 442Z can be mounted to the adapters by adding a 7-A-200 to the 7-A-300 spacer.

(1) Input Gear Part No. 5-P-1097
(2) Input Gear Part No. 5-P-1070
(3) Input Gear Part No. 5-P-931

ASO10-ESP	ASO150-10S	LASO150-10S	LLPSO125-10S	LPSO125-10S	PSO10-VPD	PSO140-10S	PSO165-10S
ASO10-VP10	ASO160-10S	LLASO125-10S	LLPSO140-10S	LPSO140-10S	PSO100-10S	PSO145-10V	PSX150-9S
ASO100-10S	ASO165-10S	LLASO140-10S	LLPSO150-10S	LPSO150-10S	PSO115-10V	PSO145-9R	
ASO125-10S	LASO125-10S	LLASO150-10S	LLPSO165-10S	LPSO165-10S	PSO125-10S	PSO150-10S	
ASO140-10S	LASO140-10S	LLPSO100-10S	LPSO100-10S	PSO10-ESP	PSO125-10V	PSO160-10S	

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 8-Bolt Opening Gear FORWARD of Centerline

45 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.7300" (18.5420MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear REAR of Centerline

45 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

1.0750" (27.3050MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

812XKAHX-*3	400	Eng	106				Furnished								
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ONE SPEED - TWO GEAR - MECHANICAL SHIFT

221XCAHX-*5	250	Opp	71		7-A-062 7-A-032 (1)	328481X	Furnished	221XCAHX-*4	250	Opp	71		7-A-062 7-A-032 (1)		Furnished
221XEAHX-*5	250	Opp	82			328481X	Furnished	221XEAHX-*4	250	Opp	82				Furnished
221XLAHX-*5	200	Opp	110			328481X	Furnished	221XLAHX-*4	200	Opp	110				Furnished
221XPAHX-*5	200	Opp	133			328481X	Furnished	221XPAHX-*4	200	Opp	133				Furnished
442XAAHX-*5 (2)	250	Opp	62			328481X	Furnished	442XFAHX-*4 (4)	250	Opp	98				Furnished
442XCAHX-*5 (3)	250	Opp	80			328481X	Furnished	442XHAHX-*4 (5)	250	Opp	114				Furnished
442XFAHX-*5 (4)	250	Opp	98			328481X	Furnished	442XLAHX-*4 (6)	250	Opp	127				Furnished
442XHAHX-*5 (5)	250	Opp	114			328481X	Furnished	442XQAHX-*4 (6)	225	Opp	137				Furnished
442XLAHX-*5 (6)	250	Opp	127			328481X	Furnished	442XRAHX-*4 (6)	225	Opp	159				Furnished
442XQAHX-*5 (6)	225	Opp	137			328481X	Furnished	442XSAHX-*4 (6)	200	Opp	189				Furnished
442XRAHX-*5 (6)	225	Opp	159			328481X	Furnished	442XWAHX-*4 (6)	195	Opp	225				Furnished
442XSAHX-*5 (6)	200	Opp	189			328481X	Furnished	442XXAHX-*4 (6)	175	Opp	265				Furnished
442XUAHX-*5 (6)	195	Opp	225			328481X	Furnished	442XXAHX-*4 (6)	140	Opp	313				Furnished
442XWAHX-*5 (6)	175	Opp	265			328481X	Furnished	660XFAHX-*4 (7)	375	Opp	98				Furnished
442XXAHX-*5 (6)	140	Opp	313			328481X	Furnished	660XQAHX-*4 (8)	375	Opp	137				Furnished
489XAAHX-*5 (2)	250	Opp	62				Furnished	660XSAHX-*4 (9)	325	Opp	189				Furnished
489XCAHX-*5 (3)	250	Opp	80				Furnished								
489XFAHX-*5 (4)	250	Opp	98				Furnished								
489XHAHX-*5 (5)	250	Opp	114				Furnished								
489XLAHX-*5 (6)	250	Opp	127				Furnished								
489XQAHX-*5 (6)	225	Opp	137				Furnished								
489XRAHX-*5 (6)	225	Opp	159				Furnished								
489XSAHX-*5 (6)	200	Opp	189				Furnished								
489XUAHX-*5 (6)	195	Opp	225				Furnished								
489XWAHX-*5 (6)	175	Opp	265				Furnished								
489XXAHX-*5 (6)	140	Opp	313				Furnished								
680XFAHX-*5 (7)	375	Opp	98				Furnished								
680XQAHX-*5 (8)	375	Opp	137				Furnished								
680XSAHX-*5 (9)	325	Opp	189				Furnished								
823XBAHX-*5 (10)	500	Opp	67				Furnished								
823XJAHX-*5 (11)	500	Opp	101				Furnished								

Continued Next Page

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.**CAUTION:** 660/680 Series: Applications above 1500 RPM out put shaft speed, contact Chelsea Technical Service for approval.**NOTE:** 100 Series will not mount on this transmission because the output shaft hits the transmission housing.**NOTE:** The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.**NOTE:** If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

- (1) Filler block furnished with P.T.O. but not required
 (2) Input Gear Part No. 5-P-1280
 (3) Input Gear Part No. 5-P-1287
 (4) Input Gear Part No. 5-P-1077
 (5) Input Gear Part No. 5-P-1364
 (6) Input Gear Part No. 5-P-1004
 (7) Input Gear Part No. 5-P-1242
 (8) Input Gear Part No. 5-P-1246
 (9) Input Gear Part No. 5-P-1322
 (10) Input Gear Part No. 5-P-285
 (11) Input Gear Part No. 5-P-325

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ASO10-ESP	ASO150-10S	LASO150-10S	LLPSO125-10S	LPSO125-10S	PSO10-VPD	PSO140-10S	PSO165-10S
ASO10-VP10	ASO160-10S	LLASO125-10S	LLPSO140-10S	LPSO140-10S	PSO100-10S	PSO145-10V	PSX150-9S
ASO100-10S	ASO165-10S	LLASO140-10S	LLPSO150-10S	LPSO150-10S	PSO115-10V	PSO145-9R	
ASO125-10S	LASO125-10S	LLASO150-10S	LLPSO165-10S	LPSO165-10S	PSO125-10S	PSO150-10S	
ASO140-10S	LASO140-10S	LLPSO100-10S	LPSO100-10S	PSO10-ESP	PSO125-10V	PSO160-10S	

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 8-Bolt Opening Gear FORWARD of Centerline

45 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.7300" (18.5420MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear REAR of Centerline

45 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

1.0750" (27.3050MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

823XMAHX-*5 (12)	500	Opp	119				Furnished								
823XRAHX-*5 (13)	400	Opp	164				Furnished								
823XTKTX-*5 (14)	350	Opp	199		8-A-165 (15)		Furnished								
880XBAHX-*5 (16)	500	Opp	67				Furnished								
880XDAHX-*5 (17)	500	Opp	79				Furnished								
880XGAHX-*5 (18)	500	Opp	86				Furnished								
880XJAHX-*5 (19)	500	Opp	101				Furnished								
880XMAHX-*5 (20)	500	Opp	119				Furnished								
880XQAHX-*5 (21)	450	Opp	139				Furnished								
880XRAHX-*5 (22)	400	Opp	164				Furnished								
880XTAHX-*5 (23)	350	Opp	212				Furnished								

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

230XAAJX-*5	250	Opp	52		7-A-093	328481X	Furnished	230XAAJX-*4	250	Opp	52		7-A-093		Furnished
230XBAJX-*5	250	Opp	67		7-A-093	328481X	Furnished	230XBAJX-*4	250	Opp	67		7-A-093		Furnished
230XDAJX-*5	250	Opp	78		7-A-093	328481X	Furnished	230XDAJX-*4	250	Opp	78		7-A-093		Furnished
230XKAJX-*5	250	Opp	105		7-A-093	328481X	Furnished	230XKAJX-*4	250	Opp	105		7-A-093		Furnished
230XQAJX-*5	250	Opp	140		7-A-093	328481X	Furnished	230XQAJX-*4	250	Opp	140		7-A-093		Furnished
230XUAJX-*5	225	Opp	224		7-A-093	328481X	Furnished	230XUAJX-*4	225	Opp	224		7-A-093		Furnished
236XDAHX-*5 (6)	250	Opp	103			328481X	Furnished	236XDAHX-*4 (6)	250	Opp	103				Furnished
236XKAHX-*5 (6)	250	Opp	132			328481X	Furnished	236XKAHX-*4 (6)	250	Opp	132				Furnished
236XQAHX-*5 (6)	250	Opp	178			328481X	Furnished	236XQAHX-*4 (6)	250	Opp	178				Furnished
236XUAHX-*5 (6)	225	Opp	204			328481X	Furnished	236XUAHX-*4 (6)	225	Opp	204				Furnished
885XBAHX-*5 (16)	500	Opp	67				Furnished								
885XGAHX-*5 (18)	500	Opp	86				Furnished								
885XJAHX-*5 (19)	500	Opp	101				Furnished								
885XMAHX-*5 (20)	500	Opp	119				Furnished								

ONE SPEED - FORWARD & REVERSE

340XFAHX-*5 (24)	200	Opp	86	90	7-A-140 (15)	328481X	Furnished	340XFAHX-*4 (24)	200	Opp	86	90	7-A-140 (15)		Furnished
352XSAHX-*5 (6)	140	Opp	191	248		328481X	Furnished	352XSAHX-*4 (6)	140	Opp	191	248			Furnished
863XBAHX-*5	500	Opp	67	83			Furnished								

ONE SPEED - DUAL SHAFT

452XSAHX-*5 (6)	140	Opp	191			328481X	Furnished	452XSAHX-*4 (6)	140	Opp	191				Furnished
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Continued Next Page**CAUTION:** Do not use geared adapters with 442 "A" and "C" ratios.**CAUTION:** 660/680 Series: Applications above 1500 RPM out put shaft speed, contact Chelsea Technical Service for approval.**NOTE:** 100 Series will not mount on this transmission because the output shaft hits the transmission housing.**NOTE:** The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.**NOTE:** If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(6) Input Gear Part No. 5-P-1004
 (12) Input Gear Part No. 5-P-283
 (13) Input Gear Part No. 5-P-721
 (14) Input Gear Part No. 5-P-1395
 (15) Filler block furnished with P.T.O.
 (16) Input Gear Part No. 5-P-1100

(17) Input Gear Part No. 5-P-1101
 (18) Input Gear Part No. 5-P-1135
 (19) Input Gear Part No. 5-P-1102
 (20) Input Gear Part No. 5-P-1103
 (21) Input Gear Part No. 5-P-1385
 (22) Input Gear Part No. 5-P-1104

(23) Input Gear Part No. 5-P-1105
 (24) Input Gear Part No. 5-P-581

January 2008

ASO10-ESP	ASO150-10S	LASO150-10S	LLPSO125-10S	LPSO125-10S	PSO10-VPD	PSO140-10S	PSO165-10S
ASO10-VP10	ASO160-10S	LLASO125-10S	LLPSO140-10S	LPSO140-10S	PSO100-10S	PSO145-10V	PSX150-9S
ASO100-10S	ASO165-10S	LLASO140-10S	LLPSO150-10S	LPSO150-10S	PSO115-10V	PSO145-9R	
ASO125-10S	LASO125-10S	LLASO150-10S	LLPSO165-10S	LPSO165-10S	PSO125-10S	PSO150-10S	
ASO140-10S	LASO140-10S	LLPSO100-10S	LPSO100-10S	PSO10-ESP	PSO125-10V	PSO160-10S	

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 8-Bolt Opening Gear FORWARD of Centerline

45 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.7300" (18.5420MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear REAR of Centerline

45 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

1.0750" (27.3050MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

GEARED ADAPTERS

628XAHX-4AH

8-A-032

Furnished

626XAHX-4AH

630XAHX-4AH

645XAHX-4AH

Furnished

Furnished

Furnished

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.**CAUTION:** 660/680 Series: Applications above 1500 RPM out put shaft speed, contact Chelsea Technical Service for approval.**NOTE:** 100 Series will not mount on this transmission because the output shaft hits the transmission housing.**NOTE:** The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.**NOTE:** If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

January 2008

PSO150-16A

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

54 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.5660" (14.3761MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

54 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.7210" (18.3134MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100XRAHX-*3 (1)	125	Eng	108			328564X	Furnished	100XRAHX-*3 (1)	125	Eng	108		7-A-300		328291-3X
812XKAHX-*5	400	Eng	72		8-A-165		Furnished								

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

221XCAHX-*5	250	Opp	48		7-A-032 (2)	328564X	Furnished	221XCAHX-*3	250	Opp	48		7-A-350		328170-35X
													7-A-032 (2)		
221XEAHX-*5	250	Opp	56		7-A-062	310778X	Furnished	221XEAHX-*3	250	Opp	56		7-A-300		328170-35X
221XLAHX-*5	200	Opp	75		7-A-062	310778X	Furnished	221XLAHX-*3	200	Opp	75		7-A-300		328170-35X
221XPAHX-*5	200	Opp	90		7-A-062	310778X	Furnished	221XPAHX-*3	200	Opp	90		7-A-300		328170-35X
442XAAHX-*5 (3)	250	Opp	42		7-A-062	310778X	Furnished	442KAAHX-*3 (3)	250	Opp	42		7-A-300		7170-5X
442XCAHX-*5 (4)	250	Opp	54		7-A-062	310778X	Furnished	442KCAHX-*3 (4)	250	Opp	54		7-A-300		7170-5X
442XFAHX-*5 (5)	250	Opp	67		7-A-062	310778X	Furnished	442KFAHX-*3 (5)	250	Opp	67		7-A-300		7170-5X
442XHAHX-*5 (6)	250	Opp	78		7-A-062	310778X	Furnished	442KHAHX-*3 (6)	250	Opp	78		7-A-300		7170-5X
442XLAHX-*5 (7)	250	Opp	87		7-A-062	310778X	Furnished	442KLAHX-*3 (7)	250	Opp	87		7-A-300		7170-5X
442XQAHX-*5 (7)	225	Opp	93		7-A-062	310778X	Furnished	442KQAHX-*3 (7)	225	Opp	93		7-A-300		7170-5X
442XRAHX-*5 (7)	225	Opp	108		7-A-062	310778X	Furnished	442KRAHX-*3 (7)	225	Opp	108		7-A-300		7170-5X
442XSAHX-*5 (7)	200	Opp	129		7-A-062	310778X	Furnished	442KSAHX-*3 (7)	200	Opp	129		7-A-300		7170-5X
442XUAHX-*5 (7)	195	Opp	153		7-A-062	310778X	Furnished	442KUAHX-*3 (7)	195	Opp	153		7-A-300		7170-5X
442XWAHX-*5 (7)	175	Opp	181		7-A-062	310778X	Furnished	442KWAHX-*3 (7)	175	Opp	181		7-A-300		7170-5X
442XXAHX-*5 (7)	140	Opp	214		7-A-062	310778X	Furnished	442KXAHX-*3 (7)	140	Opp	214		7-A-300		7170-5X
489KFAHX-*5 (5)	250	Opp	67		8-A-062		328170-8X	660KFAHX-*3 (8)	375	Opp	67		7-A-300		7170-5X
					8-A-093										
489KHAHX-*5 (6)	250	Opp	78		8-A-062		328170-8X	660KQAHX-*3 (9)	375	Opp	93		7-A-300		7170-5X
					8-A-093										
489KLAHX-*5 (7)	250	Opp	87		8-A-062		328170-8X	660KSAHX-*3 (10)	325	Opp	129		7-A-300		7170-5X
					8-A-093										
489KQAHX-*5 (7)	225	Opp	93		8-A-062		328170-8X								
					8-A-093										
489KRAHX-*5 (7)	225	Opp	108		8-A-062		328170-8X								
					8-A-093										
489KSAHX-*5 (7)	200	Opp	129		8-A-062		328170-8X								
					8-A-093										
489KUAHX-*5 (7)	195	Opp	153		8-A-062		328170-8X								
					8-A-093										
489KWAHX-*5 (7)	175	Opp	181		8-A-062		328170-8X								
					8-A-093										

Continued Next Page

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.**CAUTION:** 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.**NOTE:** P.T.O. speeds shown are with transmission in LOW or, hand valve in positions 1 & 3. For speeds in HIGH or positions 2 & 4 multiply speeds shown by 1.1875.**NOTE:** If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(1) Gear and Shaft Kit No. KXA-2-P-565

(2) Filler block furnished with P.T.O. but not required

(3) Input Gear Part No. 5-P-1280

(4) Input Gear Part No. 5-P-1287

(5) Input Gear Part No. 5-P-1077

(6) Input Gear Part No. 5-P-1364

(7) Input Gear Part No. 5-P-1004

(8) Input Gear Part No. 5-P-1242

(9) Input Gear Part No. 5-P-1246

(10) Input Gear Part No. 5-P-1322

January 2008

PSO150-16A

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

54 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.5660" (14.3761MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

54 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.7210" (18.3134MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

489KXAHX-*5 (7)	140	Opp	214		8-A-062		328170-8X								
					8-A-093										
680KFAHX-*5 (8)	375	Opp	67		8-A-062		328170-8X								
					8-A-093										
680KQAHX-*5 (9)	375	Opp	93		8-A-062		328170-8X								
					8-A-093										
680KSAHX-*5 (10)	325	Opp	129		8-A-062		328170-8X								
					8-A-093										
823XBAHX-*5 (11)	500	Opp	46		8-A-165		328170-14X								
823XJAHX-*5 (12)	500	Opp	69		8-A-165		328170-14X								
823XMAHX-*5 (13)	500	Opp	81		8-A-165		328170-14X								
823XRAHX-*5 (14)	400	Opp	112		8-A-165		328170-14X								
880XBAHX-*5 (15)	500	Opp	46		8-A-165		328170-14X								
880XDAHX-*5 (16)	500	Opp	54		8-A-165		328170-14X								
880XGAHX-*5 (17)	500	Opp	59		8-A-165		328170-14X								
880XJAHX-*5 (18)	500	Opp	69		8-A-165		328170-14X								
880XMAHX-*5 (19)	500	Opp	81		8-A-165		328170-14X								
880XQAHX-*5 (20)	450	Opp	95		8-A-165		328170-14X								
880XRAHX-*5 (21)	400	Opp	112		8-A-165		328170-14X								
880XTAHX-*5 (22)	350	Opp	144		8-A-165		328170-14X								

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

230XAAJX-*3	250	Opp	35			328564X	Furnished	230XAAJX-*3	250	Opp	35		7-A-300		328170-172X
230XBAJX-*3	250	Opp	46			328564X	Furnished	230XBAJX-*3	250	Opp	46		7-A-300		328170-172X
230XDAJX-*3	250	Opp	53			328564X	Furnished	230XDAJX-*3	250	Opp	53		7-A-300		328170-172X
230XKAJX-*3	250	Opp	72			328564X	Furnished	230XKAJX-*3	250	Opp	72		7-A-300		328170-172X
230XQAJX-*3	250	Opp	95			328564X	Furnished	230XQAJX-*3	250	Opp	95		7-A-300		328170-172X
230XUAJX-*3	225	Opp	153			328564X	Furnished	230XUAJX-*3	225	Opp	153		7-A-300		328170-172X
236XDAHX-*5 (7)	250	Opp	70		7-A-062	310778X	Furnished	236KDAHX-*3 (7)	250	Opp	70		7-A-300		7170-5X
236XKAHX-*5 (7)	250	Opp	90		7-A-062	310778X	Furnished	236KKAHX-*3 (7)	250	Opp	90		7-A-300		7170-5X
236XQAHX-*5 (7)	250	Opp	122		7-A-062	310778X	Furnished	236KQAHX-*3 (7)	250	Opp	122		7-A-300		7170-5X
236XUAHX-*5 (7)	225	Opp	139		7-A-062	310778X	Furnished	236KUAHX-*3 (7)	225	Opp	139		7-A-300		7170-5X
885XBAHX-*5 (15)	500	Opp	46		8-A-165		328170-14X								
885XGAHX-*5 (17)	500	Opp	59		8-A-165		328170-14X								
885XJAHX-*5 (18)	500	Opp	69		8-A-165		328170-14X								

Continued Next Page

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.**CAUTION:** 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.**NOTE:** P.T.O. speeds shown are with transmission in LOW or, hand valve in positions 1 & 3. For speeds in HIGH or positions 2 & 4 multiply speeds shown by 1.1875.**NOTE:** If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(7) Input Gear Part No. 5-P-1004
 (8) Input Gear Part No. 5-P-1242
 (9) Input Gear Part No. 5-P-1246
 (10) Input Gear Part No. 5-P-1322
 (11) Input Gear Part No. 5-P-285
 (12) Input Gear Part No. 5-P-325

(13) Input Gear Part No. 5-P-283
 (14) Input Gear Part No. 5-P-721
 (15) Input Gear Part No. 5-P-1100
 (16) Input Gear Part No. 5-P-1101
 (17) Input Gear Part No. 5-P-1135
 (18) Input Gear Part No. 5-P-1102

(19) Input Gear Part No. 5-P-1103
 (20) Input Gear Part No. 5-P-1385
 (21) Input Gear Part No. 5-P-1104
 (22) Input Gear Part No. 5-P-1105

January 2008

PSO150-16A

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

54 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.5660" (14.3761MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

54 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.7210" (18.3134MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

885XMAHX-*5 (19)	500	Opp	81		8-A-165		328170-14X								
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ONE SPEED - FORWARD & REVERSE

340SFAHX-*5 (23)	200	Opp	59	61	7-A-140 (24)	328564X	7170-1X	340SFAHX-*5 (23)	200	Opp	59	61	7-A-270 7-A-140 (24)		7170-5X
352XSAHX-*5 (7)	140	Opp	130	169	7-A-062	310778X	Furnished	352XSAHX-*3 (7)	140	Opp	130	169	7-A-300		7170-5X
863XBAHX-*5	500	Opp	46	57	8-A-165		328170-14X								

ONE SPEED - DUAL SHAFT

452XSAHX-*3 (7)	140	Opp	130		7-A-062	310778X	Furnished	452XSAHX-*3 (7)	140	Opp	130		7-A-300		7170-5X
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GEARED ADAPTERS

626KAHX-3AH	7-A-300	7170-5X
630KAHX-3AH	7-A-300	7170-5X
645KAHX-3AH	7-A-300	7170-5X

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.**CAUTION:** 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.**NOTE:** P.T.O. speeds shown are with transmission in LOW or, hand valve in positions 1 & 3. For speeds in HIGH or positions 2 & 4 multiply speeds shown by 1.1875.**NOTE:** If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(7) Input Gear Part No. 5-P-1004
 (19) Input Gear Part No. 5-P-1103
 (23) Input Gear Part No. 5-P-581
 (24) Filler block furnished with P.T.O.

January 2008

PSO150-16B
PSO175-16B
PSO175-16M

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

56 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.4010" (10.1854MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

56 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.5550" (14.0970MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100KRAHX-*3 (1)	125	Eng	100		7-A-140		8000-13X	100KRAHX-*3 (1)	125	Eng	100		7-A-450		7170-13X
812XKAHX-*3	400	Eng	67		8-A-295		328170-159X								

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

489KFAHX-*3 (4)	250	Opp	62		8-A-248		328170-129X	221KCAHX-*3	250	Opp	46		7-A-500		328170-33X
					8-A-093										
489KHAHX-*3 (5)	250	Opp	72		8-A-248		328170-129X	221KEAHX-*3	250	Opp	52		7-A-450		328170-33X
					8-A-093										
489KLAHX-*3 (6)	250	Opp	80		8-A-248		328170-129X	221KLAHX-*3	250	Opp	69		7-A-450		328170-33X
					8-A-093										
489KQAHX-*3 (6)	225	Opp	87		8-A-248		328170-129X	221KPAHX-*3	200	Opp	84		7-A-450		328170-33X
					8-A-093										
489KRAHX-*3 (6)	225	Opp	100		8-A-248		328170-129X	442KAAHX-*3 (2)	250	Opp	39		7-A-450		7170-5X
					8-A-093										
489KSAHX-*3 (6)	200	Opp	119		8-A-248		328170-129X	442KCAHX-*3 (3)	250	Opp	50		7-A-450		7170-5X
					8-A-093										
489KUAHX-*3 (6)	195	Opp	142		8-A-248		328170-129X	442KFAHX-*3 (4)	250	Opp	62		7-A-450		7170-5X
					8-A-093										
489KWAHX-*3 (6)	175	Opp	167		8-A-248		328170-129X	442KHAHX-*3 (5)	250	Opp	72		7-A-450		7170-5X
					8-A-093										
489KXAHX-*3 (6)	140	Opp	198		8-A-248		328170-129X	442KLAHX-*3 (6)	250	Opp	80		7-A-450		7170-5X
					8-A-093										
680KFAHX-*3 (7)	375	Opp	62		8-A-248		328170-129X	442KQAHX-*3 (6)	225	Opp	87		7-A-450		7170-5X
					8-A-093										
680KQAHX-*3 (8)	375	Opp	87		8-A-248		328170-129X	442KRAHX-*3 (6)	225	Opp	100		7-A-450		7170-5X
					8-A-093										
680KSAHX-*3 (9)	325	Opp	119		8-A-248		328170-129X	442KSAHX-*3 (6)	200	Opp	119		7-A-450		7170-5X
					8-A-093										
823XBAHX-*3 (10)	500	Opp	42		8-A-165		328170-14X	442KUAHX-*3 (6)	195	Opp	142		7-A-450		7170-5X
823XJAHX-*3 (11)	500	Opp	64		8-A-165		328170-14X	442KWAHX-*3 (6)	175	Opp	167		7-A-450		7170-5X
823XMAHX-*3 (12)	500	Opp	75		8-A-165		328170-14X	442KXAHX-*3 (6)	140	Opp	198		7-A-450		7170-5X
823XRAHX-*3 (13)	400	Opp	104		8-A-165		328170-14X	660KFAHX-*3 (7)	375	Opp	62		7-A-450		7170-5X
880KBAHX-*3 (14)	500	Opp	42		8-A-295(P)		328170-129X	660KQAHX-*3 (8)	375	Opp	87		7-A-450		7170-5X
					8-A-032(T)										
880KDAHX-*3 (15)	500	Opp	50		8-A-295(P)		328170-129X	660KSAHX-*3 (9)	325	Opp	119		7-A-450		7170-5X
					8-A-032(T)										

Continued Next Page

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: P.T.O. speeds shown are with transmission splitter in LOW or hand valve positions 1 & 3. For P.T.O. speeds with splitter in HIGH or valve positions 2 & 4 multiply speeds shown by 1.209.

NOTE: The 221, 230, and 340 series P.T.O.s may have involute and or root interference with the transmission gear, depending on the tolerance stack up of the gears at zero backlash.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

- (1) Gear and Shaft Kit No. KXA-2-P-565
- (2) Input Gear Part No. 5-P-1280
- (3) Input Gear Part No. 5-P-1287
- (4) Input Gear Part No. 5-P-1077
- (5) Input Gear Part No. 5-P-1364
- (6) Input Gear Part No. 5-P-1004

- (7) Input Gear Part No. 5-P-1242
- (8) Input Gear Part No. 5-P-1246
- (9) Input Gear Part No. 5-P-1322
- (10) Input Gear Part No. 5-P-285
- (11) Input Gear Part No. 5-P-325
- (12) Input Gear Part No. 5-P-283

- (13) Input Gear Part No. 5-P-721
- (14) Input Gear Part No. 5-P-1100
- (15) Input Gear Part No. 5-P-1101

January 2008

PSO150-16B
PSO175-16B
PSO175-16M

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

56 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.4010" (10.1854MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

56 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.5550" (14.0970MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

880KGAHX-*3 (16)	500	Opp	54		8-A-295(P) 8-A-032(T)		328170-129X								
880KJAHX-*3 (17)	500	Opp	64		8-A-295(P) 8-A-032(T)		328170-129X								
880KMAHX-*3 (18)	500	Opp	75		8-A-295(P) 8-A-032(T)		328170-129X								
880KQAHX-*3 (19)	450	Opp	88		8-A-295(P) 8-A-032(T)		328170-129X								
880KRAHX-*3 (20)	400	Opp	104		8-A-295(P) 8-A-032(T)		328170-129X								
880KTAHX-*3 (21)	350	Opp	134		8-A-295(P) 8-A-032(T)		328170-129X								

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

885KBAHX-*3 (14)	500	Opp	42		8-A-295(P) 8-A-032(T)		328170-129X	230KKAJX-*3	250	Opp	67		7-A-450		328170-174X
885KGAHX-*3 (16)	500	Opp	54		8-A-295(P) 8-A-032(T)		328170-129X	230KQAJX-*3	300	Opp	89		7-A-450		328170-174X
885KJAHX-*3 (17)	500	Opp	64		8-A-295(P) 8-A-032(T)		328170-129X	230KUJX-*3	250	Opp	142		7-A-450		328170-174X
885KMAHX-*3 (18)	500	Opp	75		8-A-295(P) 8-A-032(T)		328170-129X	236KDAHX-*3 (6)	250	Opp	65		7-A-450		7170-5X
								236KKAHX-*3 (6)	250	Opp	83		7-A-450		7170-5X
								236KQAHX-*3 (6)	250	Opp	112		7-A-450		7170-5X
								236KUJX-*3 (6)	225	Opp	129		7-A-450		7170-5X

ONE SPEED - FORWARD & REVERSE

863KBAHX-*5	500	Opp	42	52	8-A-295(P) 8-A-032(T)		328170-129X	340SFAHX-*5 (22)	200	Opp	54	57	7-A-450 7-A-140 (23)		7170-4X
								352KSAHX-*3 (6)	140	Opp	121	157	7-A-450		7170-5X
								352XSAHX-*3 (6)	140	Opp	121	157	7-A-450		7170-5X

ONE SPEED - DUAL SHAFT

								452KSAHX-*3 (6)	140	Opp	121		7-A-450		7170-5X
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GEARED ADAPTERS

								626KAHX-3AH					7-A-450		7170-5X
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Continued Next Page

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: P.T.O. speeds shown are with transmission splitter in LOW or hand valve positions 1 & 3. For P.T.O. speeds with splitter in HIGH or valve positions 2 & 4 multiply speeds shown by 1.209.

NOTE: The 221, 230, and 340 series P.T.O.s may have involute and or root interference with the transmission gear, depending on the tolerance stack up of the gears at zero backlash.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(6) Input Gear Part No. 5-P-1004
(14) Input Gear Part No. 5-P-1100
(16) Input Gear Part No. 5-P-1135
(17) Input Gear Part No. 5-P-1102
(18) Input Gear Part No. 5-P-1103
(19) Input Gear Part No. 5-P-1385

(20) Input Gear Part No. 5-P-1104
(21) Input Gear Part No. 5-P-1105
(22) Input Gear Part No. 5-P-581
(23) Filler block furnished with P.T.O.

January 2008

PSO150-16B
PSO175-16B
PSO175-16M

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

56 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.5550" (14.0970MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

GEARED ADAPTERS

630KAHX-3AH
645KAHX-3AH

7-A-450
7-A-450

7170-5X
7170-5X

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: P.T.O. speeds shown are with transmission splitter in LOW or hand valve positions 1 & 3. For P.T.O. speeds with splitter in HIGH or valve positions 2 & 4 multiply speeds shown by 1.209.

NOTE: The 221, 230, and 340 series P.T.O.s may have involute and or root interference with the transmission gear, depending on the tolerance stack up of the gears at zero backlash.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

January 2008

AS100-10D	LAS125-10D	LLAS135-10D	LLPS145-10D	PS100-10D
AS125-10D	LAS135-10D	LLAS145-10D	LPS100-10D	PS125-10D
AS135-10D	LAS145-10D	LLPS100-10D	LPS125-10D	PS135-10D
AS145-10D	LLAS100-10D	LLPS125-10D	LPS135-10D	PS145-10D
LAS100-10D	LLAS125-10D	LLPS135-10D	LPS145-10D	

LEFT SIDE ONLY	RIGHT SIDE ONLY
TRANSMISSION GEAR DATA: L.H. 6-Bolt Opening Gear FORWARD of Centerline 45 Teeth - SPUR PITCH LINE TO APERTURE FACE: .7300" (17.8550MM)	TRANSMISSION GEAR DATA: R.H. 6-Bolt Opening Gear REAR of Centerline 45 Teeth - SPUR PITCH LINE TO APERTURE FACE: 1.0750" (27.3050MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine % Hi Rev	Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine % Hi Rev	Filler Block	Adapter Assy.	Stud Kit
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ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

812XKAHX-*3	400	Eng	83			Furnished							
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ONE SPEED - TWO GEAR - MECHANICAL SHIFT

221XEAHX-*5	250	Opp	64		328481X	Furnished	221XCAHX-*4	250	Opp	56	7-A-062 7-A-032 (1)		Furnished
221XLAHX-*5	200	Opp	86		328481X	Furnished	221XEAHX-*4	250	Opp	64			Furnished
221XPAHX-*5	200	Opp	104		328481X	Furnished	221XLAHX-*4	200	Opp	86			Furnished
489XFAHX-*5 (2)	250	Opp	77			Furnished	221XPAHX-*4	200	Opp	104			Furnished
489XHAHX-*5 (3)	250	Opp	89			Furnished	442XFAHX-*4 (2)	250	Opp	77			Furnished
489XLAHX-*5 (4)	250	Opp	100			Furnished	442XHAHX-*4 (3)	250	Opp	89			Furnished
489XQAHX-*5 (4)	225	Opp	108			Furnished	442XLAHX-*4 (4)	250	Opp	100			Furnished
489XRAHX-*5 (4)	225	Opp	125			Furnished	442XQAHX-*4 (4)	225	Opp	108			Furnished
489XSAHX-*5 (4)	200	Opp	149			Furnished	442XRAHX-*4 (4)	225	Opp	125			Furnished
489XUAHX-*5 (4)	195	Opp	177			Furnished	442XSAHX-*4 (4)	200	Opp	149			Furnished
489XWAHX-*5 (4)	175	Opp	209			Furnished	442XUAHX-*4 (4)	195	Opp	177			Furnished
489XXAHX-*5 (4)	140	Opp	247			Furnished	442XWAHX-*4 (4)	175	Opp	209			Furnished
680XFAHX-*5 (5)	375	Opp	77			Furnished	442XXAHX-*4 (4)	140	Opp	247			Furnished
680XQAHX-*5 (6)	375	Opp	108			Furnished	660XFAHX-*4 (5)	375	Opp	77			Furnished
680XSAHX-*5 (7)	325	Opp	149			Furnished	660XQAHX-*4 (6)	375	Opp	108			Furnished
823XTKT-*3 (8)	350	Opp	157	8-A-165 (9)		Furnished	660XSAHX-*4 (7)	325	Opp	149			Furnished
880XBAHX-*3 (10)	500	Opp	53			Furnished							
880XDAHX-*5 (11)	500	Opp	63			Furnished							
880XGAHX-*3 (12)	500	Opp	68			Furnished							
880XJAHX-*3 (13)	500	Opp	80			Furnished							
880XMAHX-*3 (14)	500	Opp	94			Furnished							
880XQAHX-*3 (15)	450	Opp	110			Furnished							
880XRAHX-*3 (16)	400	Opp	130			Furnished							
880XTAHX-*3 (17)	350	Opp	167			Furnished							

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

885XBAHX-*3 (10)	500	Opp	53			Furnished	230XKAJX-*4	250	Opp	83			Furnished
885XGAHX-*3 (12)	500	Opp	68			Furnished	230XQAJX-*4	250	Opp	110			Furnished
885XJAHX-*3 (13)	500	Opp	80			Furnished	230XUAJX-*4	225	Opp	177			Furnished
885XMAHX-*3 (14)	500	Opp	94			Furnished	236XDAHX-*4 (4)	250	Opp	81			Furnished
							236XXKAHX-*4 (4)	250	Opp	104			Furnished

Continued Next Page

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(1) Filler block furnished with P.T.O. but not required
 (2) Input Gear Part No. 5-P-1077
 (3) Input Gear Part No. 5-P-1364
 (4) Input Gear Part No. 5-P-1004
 (5) Input Gear Part No. 5-P-1242
 (6) Input Gear Part No. 5-P-1246

(7) Input Gear Part No. 5-P-1322
 (8) Input Gear Part No. 5-P-1395
 (9) Filler block furnished with P.T.O.
 (10) Input Gear Part No. 5-P-1100
 (11) Input Gear Part No. 5-P-1101
 (12) Input Gear Part No. 5-P-1135

(13) Input Gear Part No. 5-P-1102
 (14) Input Gear Part No. 5-P-1103
 (15) Input Gear Part No. 5-P-1385
 (16) Input Gear Part No. 5-P-1104
 (17) Input Gear Part No. 5-P-1105

January 2008

AS100-10D	LAS125-10D	LLAS135-10D	LLPS145-10D	PS100-10D
AS125-10D	LAS135-10D	LLAS145-10D	LPS100-10D	PS125-10D
AS135-10D	LAS145-10D	LLPS100-10D	LPS125-10D	PS135-10D
AS145-10D	LLAS100-10D	LLPS125-10D	LPS135-10D	PS145-10D
LAS100-10D	LLAS125-10D	LLPS135-10D	LPS145-10D	

LEFT SIDE ONLY	RIGHT SIDE ONLY
TRANSMISSION GEAR DATA: L.H. 6-Bolt Opening Gear FORWARD of Centerline 45 Teeth - SPUR PITCH LINE TO APERTURE FACE: .7300" (17.8550MM)	TRANSMISSION GEAR DATA: R.H. 6-Bolt Opening Gear REAR of Centerline 45 Teeth - SPUR PITCH LINE TO APERTURE FACE: 1.0750" (27.3050MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			
ONE SPEED - TWO GEAR - POWERSHIFT (AIR)															
								236XQAHX-*4 (4)	250	Opp	140				Furnished
								236XUAHX-*4 (4)	225	Opp	161				Furnished
ONE SPEED - FORWARD & REVERSE															
863XBAHX-*5	500	Opp	53	65			Furnished	340XFAHX-*4 (18)	200	Opp	68	71	7-A-140 (9)		Furnished
								352XSAHX-*4 (4)	140	Opp	151	195			Furnished
ONE SPEED - DUAL SHAFT															
								452XSAHX-*4 (4)	140	Opp	151				Furnished

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(4) Input Gear Part No. 5-P-1004
 (9) Filler block furnished with P.T.O.
 (18) Input Gear Part No. 5-P-581

January 2008

PS86-10V

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 8-Bolt Opening Gear FORWARD of Centerline

45 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.7300" (17.8550MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear REAR of Centerline

45 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

1.0750" (27.3050MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

812XKAHX-*3	400	Eng	76				Furnished								
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ONE SPEED - TWO GEAR - MECHANICAL SHIFT

221XEAHX-*5	250	Opp	58		328481X	Furnished	221XCAHX-*4	250	Opp	51		7-A-062 7-A-032 (1)	Furnished
489XAAHX-*5 (5)	250	Opp	44			Furnished	221XEAHX-*4	250	Opp	58			Furnished
489XCAHX-*5 (6)	250	Opp	57			Furnished	221XLAHX-*4	200	Opp	78			Furnished
489XFAHX-*5 (2)	250	Opp	70			Furnished	221XPAHX-*4	200	Opp	95			Furnished
489XHAHX-*5 (3)	250	Opp	81			Furnished	442XFAHX-*4 (2)	250	Opp	70			Furnished
489XLAHX-*5 (4)	250	Opp	91			Furnished	442XHAHX-*4 (3)	250	Opp	81			Furnished
489XQAHX-*5 (4)	225	Opp	98			Furnished	442XLAHX-*4 (4)	250	Opp	91			Furnished
489XRAHX-*5 (4)	225	Opp	113			Furnished	442XQAHX-*4 (4)	225	Opp	98			Furnished
489XSAHX-*5 (4)	200	Opp	135			Furnished	442XRAHX-*4 (4)	225	Opp	113			Furnished
489XUAHX-*5 (4)	195	Opp	161			Furnished	442XSAHX-*4 (4)	200	Opp	135			Furnished
489XWAHX-*5 (4)	175	Opp	189			Furnished	442XUAHX-*4 (4)	195	Opp	161			Furnished
489XXAHX-*5 (4)	140	Opp	224			Furnished	442XWAHX-*4 (4)	175	Opp	189			Furnished
680XFAHX-*5 (7)	375	Opp	70			Furnished	442XXAHX-*4 (4)	140	Opp	224			Furnished
680XQAHX-*5 (8)	375	Opp	98			Furnished	660XFAHX-*4 (7)	375	Opp	70			Furnished
680XSAHX-*5 (9)	325	Opp	135		8-A-165 (11)	Furnished	660XQAHX-*4 (8)	375	Opp	98			Furnished
823XTKT-*3 (10)	350	Opp	142			Furnished	660XSAHX-*4 (9)	325	Opp	135			Furnished
880XBAHX-*3 (12)	500	Opp	48			Furnished							
880XDAHX-*3 (13)	500	Opp	57			Furnished							
880XGAHX-*3 (14)	500	Opp	62			Furnished							
880XJAHX-*3 (15)	500	Opp	72			Furnished							
880XMAHX-*3 (16)	500	Opp	85			Furnished							
880XQAHX-*3 (17)	450	Opp	99			Furnished							
880XRAHX-*3 (18)	400	Opp	117			Furnished							
880XTAHX-*3 (19)	350	Opp	151			Furnished							

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

230XKAJX-*4	250	Opp	75		328481X	Furnished	230XKAJX-*4	250	Opp	75		7-A-093	Furnished
230XQAJX-*4	250	Opp	100		328481X	Furnished	230XQAJX-*4	250	Opp	100		7-A-093	Furnished
230XUAJX-*4	225	Opp	160		328481X	Furnished	230XUAJX-*4	225	Opp	160		7-A-093	Furnished
885XBAHX-*3 (12)	500	Opp	48			Furnished	236XDAHX-*4 (4)	250	Opp	74			Furnished
885XGAHX-*3 (14)	500	Opp	62			Furnished	236XKAHX-*4 (4)	250	Opp	94			Furnished

Continued Next Page**CAUTION:** 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.**NOTE:** The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.**NOTE:** If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

- (1) Filler block furnished with P.T.O. but not required
 (2) Input Gear Part No. 5-P-1077
 (3) Input Gear Part No. 5-P-1364
 (4) Input Gear Part No. 5-P-1004
 (5) Input Gear Part No. 5-P-1280
 (6) Input Gear Part No. 5-P-1287

- (7) Input Gear Part No. 5-P-1242
 (8) Input Gear Part No. 5-P-1246
 (9) Input Gear Part No. 5-P-1322
 (10) Input Gear Part No. 5-P-1395
 (11) Filler block furnished with P.T.O.
 (12) Input Gear Part No. 5-P-1100

- (13) Input Gear Part No. 5-P-1101
 (14) Input Gear Part No. 5-P-1135
 (15) Input Gear Part No. 5-P-1102
 (16) Input Gear Part No. 5-P-1103
 (17) Input Gear Part No. 5-P-1385
 (18) Input Gear Part No. 5-P-1104

- (19) Input Gear Part No. 5-P-1105

January 2008

PS86-10V

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 8-Bolt Opening Gear FORWARD of Centerline

45 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.7300" (17.8550MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear REAR of Centerline

45 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

1.0750" (27.3050MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			
ONE SPEED - TWO GEAR - POWERSHIFT (AIR)															
885XJAHX-*3 (15)	500	Opp	72				Furnished	236XQAHX-*4 (4)	250	Opp	127				Furnished
885XMAHX-*3 (16)	500	Opp	85				Furnished	236XUAHX-*4 (4)	225	Opp	146				Furnished
ONE SPEED - FORWARD & REVERSE															
340XFAHX-*4 (20)	200	Opp	61	64	7-A-140 (1)		Furnished	340XFAHX-*4 (20)	200	Opp	61	64	7-A-140 (1)		Furnished
352XSAHX-*4 (4)	140	Opp	137	177			Furnished	352XSAHX-*4 (4)	140	Opp	137	177			Furnished
863XBAHX-*5	500	Opp	48	59			Furnished								
ONE SPEED - DUAL SHAFT															
452XSAHX-*4 (4)	140	Opp	137				Furnished	452XSAHX-*4 (4)	140	Opp	137				Furnished

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.**NOTE:** The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.**NOTE:** If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

- (1) Filler block furnished with P.T.O. but not required
 (4) Input Gear Part No. 5-P-1004
 (15) Input Gear Part No. 5-P-1102
 (16) Input Gear Part No. 5-P-1103
 (20) Input Gear Part No. 5-P-581

January 2008

EPSO175-16M PSO175-18M
 PSO165-16B
 PSO165-18A
 PSO175-16SM
 PSO175-18A

BOTTOM SIDE ONLY**RIGHT SIDE ONLY****TRANSMISSION GEAR DATA:**

BOT 8-Bolt Opening Gear FORWARD of Centerline

57 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.3160" (8.0264MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

57 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.4710" (11.9634MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100KRAHX-*3 (1)	125	Eng	100		7-A-140	328564X	8000-13X	100KRAHX-*3 (1)	125	Eng	100		7-A-450		7170-13X
812XKAHX-*5	400	Eng	67		8-A-295		328170-159X								

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

489KFAHX-*5 (4)	250	Opp	62		8-A-248		328170-129X	221KCAHX-*3	250	Opp	46		7-A-500		328170-33X
					8-A-093										
489KHAHX-*5 (5)	250	Opp	72		8-A-248		328170-129X	221KEAHX-*3	250	Opp	51		7-A-450		328170-33X
					8-A-093										
489KLAHX-*5 (6)	250	Opp	80		8-A-248		328170-129X	221KLAHX-*3	250	Opp	69		7-A-450		328170-33X
					8-A-093										
489KQAHX-*5 (6)	225	Opp	86		8-A-248		328170-129X	221KPAHX-*3	200	Opp	83		7-A-450		328170-33X
					8-A-093										
489KRAHX-*5 (6)	225	Opp	100		8-A-248		328170-129X	442KAAHX-*3 (2)	250	Opp	39		7-A-450		7170-5X
					8-A-093										
489KSAHX-*5 (6)	200	Opp	119		8-A-248		328170-129X	442KCAHX-*3 (3)	250	Opp	50		7-A-450		7170-5X
					8-A-093										
489KUAHX-*5 (6)	195	Opp	142		8-A-248		328170-129X	442KFAHX-*3 (4)	250	Opp	62		7-A-450		7170-5X
					8-A-093										
489KWAHX-*5 (6)	175	Opp	167		8-A-248		328170-129X	442KHAHX-*3 (5)	250	Opp	72		7-A-450		7170-5X
					8-A-093										
489KXAHX-*5 (6)	140	Opp	197		8-A-248		328170-129X	442KLAHX-*3 (6)	250	Opp	80		7-A-450		7170-5X
					8-A-093										
680KFAHX-*5 (7)	375	Opp	62		8-A-248		328170-129X	442KQAHX-*3 (8)	225	Opp	86		7-A-450		7170-5X
					8-A-093										
680KQAHX-*5 (8)	375	Opp	86		8-A-248		328170-129X	442KRAHX-*3 (6)	225	Opp	100		7-A-450		7170-5X
					8-A-093										
680KSAHX-*5 (9)	325	Opp	119		8-A-248		328170-129X	442KSAHX-*3 (6)	200	Opp	119		7-A-450		7170-5X
					8-A-093										
880KBAHX-*3 (10)	500	Opp	42		8-A-295(P)		328170-129X	442KUAHX-*3 (6)	195	Opp	142		7-A-450		7170-5X
					8-A-032(T)										
880KDAHX-*3 (11)	500	Opp	50		8-A-295(P)		328170-129X	442KWAHX-*3 (6)	175	Opp	167		7-A-450		7170-5X
					8-A-032(T)										
880KGAHX-*3 (12)	500	Opp	54		8-A-295(P)		328170-129X	442KXAHX-*3 (6)	140	Opp	197		7-A-450		7170-5X
					8-A-032(T)										
880KJAHX-*3 (13)	500	Opp	64		8-A-295(P)		328170-129X	660KFAHX-*3 (7)	375	Opp	62		7-A-450		7170-5X
					8-A-032(T)										

Continued Next Page**CAUTION:** Do not use geared adapters with 442 "A" and "C" ratios.**CAUTION:** 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.**NOTE:** The 221, 230, and 340 series P.T.O.s may have involute and or root interference with the transmission gear depending on the tolerance stack up of the gears at zero backlash.**NOTE:** All P.T.O. speeds shown on this application are with the transmission splitter in LOW or hand valve position 1 and 3. For P.T.O. output speeds with the transmission splitter in HIGH or hand valve position 2 and 4, multiply speeds shown by 1.187.**NOTE:** If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(1) Gear and Shaft Kit No. KXA-2-P-565

(2) Input Gear Part No. 5-P-1280

(3) Input Gear Part No. 5-P-1287

(4) Input Gear Part No. 5-P-1077

(5) Input Gear Part No. 5-P-1364

(6) Input Gear Part No. 5-P-1004

(7) Input Gear Part No. 5-P-1242

(8) Input Gear Part No. 5-P-1246

(9) Input Gear Part No. 5-P-1322

(10) Input Gear Part No. 5-P-1100

(11) Input Gear Part No. 5-P-1101

(12) Input Gear Part No. 5-P-1135

(13) Input Gear Part No. 5-P-1102

January 2008

EPSO175-16M PSO175-18M
 PSO165-16B
 PSO165-18A
 PSO175-16SM
 PSO175-18A

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

57 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.3160" (8.0264MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

57 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.4710" (11.9634MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

880KMAHX-*3 (14)	500	Opp	75		8-A-295(P) 8-A-032(T)		328170-129X	660KQAHX-*3 (8)	375	Opp	86		7-A-450		7170-5X
880KQAHX-*3 (15)	450	Opp	88		8-A-295(P) 8-A-032(T)		328170-129X	660KSAHX-*3 (9)	325	Opp	119		7-A-450		7170-5X
880KRAHX-*3 (16)	400	Opp	104		8-A-295(P) 8-A-032(T)		328170-129X								
880KTAHX-*3 (17)	350	Opp	133		8-A-295(P) 8-A-032(T)		328170-129X								

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

885KBAHX-*3 (10)	500	Opp	42		8-A-295(P) 8-A-032(T)		328170-129X	230KKAJX-*3	250	Opp	66		7-A-450		328170-174X
885KGAHX-*3 (12)	500	Opp	54		8-A-295(P) 8-A-032(T)		328170-129X	230KQAJX-*3	250	Opp	88		7-A-450		328170-174X
885KJAHX-*3 (13)	500	Opp	64		8-A-295(P) 8-A-032(T)		328170-129X	230KUAJX-*3	225	Opp	141		7-A-450		328170-174X
885KMAHX-*3 (14)	500	Opp	75		8-A-295(P) 8-A-032(T)		328170-129X	236KDAHX-*3 (6)	250	Opp	65		7-A-450		7170-5X
								236KKAHX-*3 (6)	250	Opp	83		7-A-450		7170-5X
								236KQAHX-*3 (6)	250	Opp	112		7-A-450		7170-5X
								236KUAHX-*3 (6)	225	Opp	128		7-A-450		7170-5X

ONE SPEED - FORWARD & REVERSE

863XBAHX-*5	500	Opp	42	52	8-A-295(P) 8-A-032(T)		328170-129X	340SFAHX-*5 (18)	200	Opp	54	57	7-A-450 7-A-140 (19)		7170-4X
								352KSAHX-*3 (6)	140	Opp	121	156	7-A-450		7170-5X

ONE SPEED - DUAL SHAFT

								452KSAHX-*3 (6)	140	Opp	121		7-A-450		7171-5X
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CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: The 221, 230, and 340 series P.T.O.s may have involute and or root interference with the transmission gear depending on the tolerance stack up of the gears at zero backlash.

NOTE: All P.T.O. speeds shown on this application are with the transmission splitter in LOW or hand valve position 1 and 3. For P.T.O. output speeds with the transmission splitter in HIGH or handvalve position 2 and 4, multiply speeds shown by 1.187.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(6) Input Gear Part No. 5-P-1004
 (8) Input Gear Part No. 5-P-1246
 (9) Input Gear Part No. 5-P-1322
 (10) Input Gear Part No. 5-P-1100
 (12) Input Gear Part No. 5-P-1135
 (13) Input Gear Part No. 5-P-1102

(14) Input Gear Part No. 5-P-1103
 (15) Input Gear Part No. 5-P-1385
 (16) Input Gear Part No. 5-P-1104
 (17) Input Gear Part No. 5-P-1105
 (18) Input Gear Part No. 5-P-581
 (19) Filler block furnished with P.T.O. but not required

January 2008

PSO125-10D
PSO135-10D
PSO145-10D
PSO155-10D
PSO165-10D

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 8-Bolt Opening Gear FORWARD of Centerline

45 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.7300" (17.8550MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear REAR of Centerline

45 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

1.0750" (27.3050MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

812XKAHX-*3	400	Eng	111				Furnished								
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ONE SPEED - TWO GEAR - MECHANICAL SHIFT

221XEAHX-*5	250	Opp	85		328481X	Furnished	221XCAHX-*4	250	Opp	74		7-A-062 7-A-032 (1)	Furnished
489XAAHX-*5 (5)	250	Opp	65			Furnished	221XEAHX-*4	250	Opp	85			Furnished
489XCAHX-*5 (6)	250	Opp	83			Furnished	221XLAHX-*4	200	Opp	115			Furnished
489XFAHX-*5 (2)	250	Opp	103			Furnished	221XPAHX-*4	200	Opp	139			Furnished
489XHAHX-*5 (3)	250	Opp	119			Furnished	442XFAHX-*4 (2)	250	Opp	103			Furnished
489XLAHX-*5 (4)	250	Opp	133			Furnished	442XHAHX-*4 (3)	250	Opp	119			Furnished
489XQAHX-*5 (4)	225	Opp	143			Furnished	442XLAHX-*4 (4)	250	Opp	133			Furnished
489XRAHX-*4 (4)	200	Opp	166			Furnished	442XQAHX-*4 (4)	225	Opp	143			Furnished
489XSAHX-*4 (4)	200	Opp	197			Furnished	442XRAHX-*4 (4)	225	Opp	166			Furnished
489XUAHX-*5 (4)	195	Opp	235			Furnished	442XSAHX-*4 (4)	200	Opp	197			Furnished
489XWAHX-*5 (4)	175	Opp	277			Furnished	442XUAHX-*4 (4)	195	Opp	235			Furnished
489XXAHX-*5 (4)	140	Opp	328			Furnished	442XWAHX-*4 (4)	175	Opp	277			Furnished
680XFAHX-*5 (7)	375	Opp	103			Furnished	442XXAHX-*4 (4)	140	Opp	328			Furnished
680XQAHX-*5 (8)	375	Opp	143			Furnished	660XFAHX-*4 (7)	375	Opp	103			Furnished
680XSAHX-*4 (9)	325	Opp	197		8-A-165 (11)	Furnished	660XQAHX-*4 (8)	375	Opp	143			Furnished
823XTKTX-*3 (10)	350	Opp	208			Furnished	660XSAHX-*4 (9)	325	Opp	197			Furnished
880XBAHX-*3 (12)	500	Opp	70			Furnished							
880XDAHX-*3 (13)	500	Opp	83			Furnished							
880XGAHX-*3 (14)	500	Opp	90			Furnished							
880XJAHX-*3 (15)	500	Opp	106			Furnished							
880XMAHX-*3 (16)	500	Opp	124			Furnished							
880XQAHX-*3 (17)	450	Opp	146			Furnished							
880XRAHX-*3 (18)	400	Opp	172			Furnished							
880XTAHX-*3 (19)	350	Opp	221			Furnished							

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

885XBAHX-*3 (12)	500	Opp	70		Furnished	230XKAJX-*4	250	Opp	110		7-A-093	Furnished
885XGAHX-*3 (14)	500	Opp	90		Furnished	230XQAJX-*4	250	Opp	146		7-A-093	Furnished
885XJAHX-*3 (15)	500	Opp	106		Furnished	230XUAJX-*4	225	Opp	234		7-A-093	Furnished
885XMAHX-*3 (16)	500	Opp	124		Furnished	236XDAHX-*4 (4)	250	Opp	108			Furnished
						236XKAHX-*4 (4)	250	Opp	138			Furnished

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CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(1) Filler block furnished with P.T.O. but not required
(2) Input Gear Part No. 5-P-1077
(3) Input Gear Part No. 5-P-1364
(4) Input Gear Part No. 5-P-1004
(5) Input Gear Part No. 5-P-1280
(6) Input Gear Part No. 5-P-1287

(7) Input Gear Part No. 5-P-1242
(8) Input Gear Part No. 5-P-1246
(9) Input Gear Part No. 5-P-1322
(10) Input Gear Part No. 5-P-1395
(11) Filler block furnished with P.T.O.
(12) Input Gear Part No. 5-P-1100

(13) Input Gear Part No. 5-P-1101
(14) Input Gear Part No. 5-P-1135
(15) Input Gear Part No. 5-P-1102
(16) Input Gear Part No. 5-P-1103
(17) Input Gear Part No. 5-P-1385
(18) Input Gear Part No. 5-P-1104

(19) Input Gear Part No. 5-P-1105

January 2008

PSO125-10D
 PSO135-10D
 PSO145-10D
 PSO155-10D
 PSO165-10D

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 8-Bolt Opening Gear FORWARD of Centerline

45 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.7300" (17.8550MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear REAR of Centerline

45 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

1.0750" (27.3050MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			
ONE SPEED - TWO GEAR - POWERSHIFT (AIR)															
								236XQAHX-*4 (4)	250	Opp	186				Furnished
								236XUAHX-*4 (4)	225	Opp	213				Furnished
ONE SPEED - FORWARD & REVERSE															
863XBAHX-*5	500	Opp	70	87			Furnished	340XFAHX-*4 (20)	200	Opp	90	94	7-A-140 (1)		Furnished
								352XSAHX-*4 (4)	140	Opp	200	259			Furnished
ONE SPEED - DUAL SHAFT															
								452XSAHX-*4 (4)	140	Opp	200				Furnished

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.

NOTE: If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(1) Filler block furnished with P.T.O. but not required
 (4) Input Gear Part No. 5-P-1004
 (20) Input Gear Part No. 5-P-581

TSPO155-16HP

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

56 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.3980" (10.1092MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

56 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.5530" (14.0462MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100KRAHX-*3 (1)	125	Eng	100		7-A-140	328564X	7170-10X	100KRAHX-*3 (1)	125	Eng	100		7-A-450		328291-4X
812XKAHX-*5	400	Eng	67		8-A-295		328170-59X								

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

489KFAHX-*5 (4)	250	Opp	62		8-A-248		328170-15X	221KCAHX-*3	250	Opp	46		7-A-500		328170-33X
					8-A-062								7-A-032		
489KHAHX-*5 (5)	250	Opp	72		8-A-248		328170-15X	221KEAHX-*3	250	Opp	51		7-A-450		328170-33X
					8-A-062										
489KLAHX-*5 (6)	250	Opp	80		8-A-248		328170-15X	221KLAHX-*3	250	Opp	69		7-A-450		328170-33X
					8-A-062										
489KQAHX-*5 (6)	225	Opp	86		8-A-248		328170-15X	221KPAHX-*3	200	Opp	83		7-A-450		328170-33X
					8-A-062										
489KRAHX-*5 (6)	225	Opp	100		8-A-248		328170-15X	442KAAHX-*3 (2)	250	Opp	39		7-A-450		7170-6X
					8-A-062										
489KSAHX-*5 (6)	200	Opp	119		8-A-248		328170-15X	442KCAHX-*3 (3)	250	Opp	50		7-A-450		7170-6X
					8-A-062										
489KUAHX-*5 (6)	195	Opp	142		8-A-248		328170-15X	442KFAHX-*3 (4)	250	Opp	62		7-A-450		7170-6X
					8-A-062										
489KWAHX-*5 (6)	175	Opp	167		8-A-248		328170-15X	442KHAHX-*3 (5)	250	Opp	72		7-A-450		7170-6X
					8-A-062										
489KXAHX-*5 (6)	140	Opp	197		8-A-248		328170-15X	442KLAHX-*3 (6)	250	Opp	80		7-A-450		7170-6X
					8-A-062										
680KFAHX-*5 (7)	375	Opp	62		8-A-248		328170-15X	442KQAHX-*3 (8)	225	Opp	86		7-A-450		7170-6X
					8-A-062										
680KQAHX-*5 (8)	375	Opp	86		8-A-248		328170-15X	442KRAHX-*3 (6)	225	Opp	100		7-A-450		7170-6X
					8-A-062										
680KSAHX-*5 (9)	325	Opp	119		8-A-248		328170-15X	442KSAHX-*3 (6)	200	Opp	119		7-A-450		7170-6X
					8-A-062										
880KBAHX-*3 (10)	500	Opp	42		8-A-295		328170-17X	442KUAHX-*3 (6)	195	Opp	142		7-A-450		7170-6X
880KDAHX-*3 (11)	500	Opp	50		8-A-295		328170-17X	442KWAHX-*3 (6)	175	Opp	167		7-A-450		7170-6X
880KGAHX-*3 (12)	500	Opp	54		8-A-295		328170-17X	442KXAHX-*3 (6)	140	Opp	197		7-A-450		7170-6X
880KJAHX-*3 (13)	500	Opp	64		8-A-295		328170-17X	660KFAHX-*3 (7)	375	Opp	62		7-A-450		7170-6X
880KMAHX-*3 (14)	500	Opp	75		8-A-295		328170-17X	660KQAHX-*3 (8)	375	Opp	86		7-A-450		7170-6X
880KQAHX-*3 (15)	450	Opp	87		8-A-295		328170-17X	660KSAHX-*3 (9)	325	Opp	119		7-A-450		7170-6X
880KRAHX-*3 (16)	400	Opp	103		8-A-295		328170-17X								
880KTAHX-*3 (17)	350	Opp	133		8-A-295		328170-17X								

Continued Next Page

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.**CAUTION:** 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.**NOTE:** All P.T.O. speeds are shown with the transmission splitter in low or hand valve in positions 1 and 3. Multiply speeds shown by 1.214 if transmission splitter is in high, or hand valve in positions 2 and 4.

(1) Gear and Shaft Kit No. KXA-2-P-565

(2) Input Gear Part No. 5-P-1280

(3) Input Gear Part No. 5-P-1287

(4) Input Gear Part No. 5-P-1077

(5) Input Gear Part No. 5-P-1364

(6) Input Gear Part No. 5-P-1004

(7) Input Gear Part No. 5-P-1242

(8) Input Gear Part No. 5-P-1246

(9) Input Gear Part No. 5-P-1322

(10) Input Gear Part No. 5-P-1100

(11) Input Gear Part No. 5-P-1101

(12) Input Gear Part No. 5-P-1135

(13) Input Gear Part No. 5-P-1102

(14) Input Gear Part No. 5-P-1103

(15) Input Gear Part No. 5-P-1385

(16) Input Gear Part No. 5-P-1104

(17) Input Gear Part No. 5-P-1105

January 2008

TSP0155-16HP

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

56 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.3980" (10.1092MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

56 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.5530" (14.0462MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			
ONE SPEED - TWO GEAR - POWERSHIFT (AIR)															
885KBAHX-*3 (10)	500	Opp	42		8-A-295		328170-17X	236KDAHX-*3 (6)	250	Opp	65		7-A-450		7170-6X
885KGAHX-*3 (12)	500	Opp	54		8-A-295		328170-17X	236KKAHX-*3 (6)	250	Opp	83		7-A-450		7170-6X
885KJAHX-*3 (13)	500	Opp	64		8-A-295		328170-17X	236KQAHX-*3 (6)	250	Opp	112		7-A-450		7170-6X
885KMAHX-*3 (14)	500	Opp	75		8-A-295		328170-17X	236KUAHX-*3 (6)	225	Opp	128		7-A-450		7170-6X
ONE SPEED - FORWARD & REVERSE															
863XBAHX-*5	500	Opp	42	52	8-A-295		328170-17X	340SFAHX-*5 (18)	200	Opp	54	57	7-A-450		7170-6X
								352XSAHX-*3 (6)	140	Opp	120	156	7-A-140 (19)		Furnished
ONE SPEED - DUAL SHAFT															
								452XSAHX-*3 (6)	140	Opp	120				7170-6X

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.**CAUTION:** 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.**NOTE:** All P.T.O. speeds are shown with the transmission splitter in low or hand valve in positions 1 and 3. Multiply speeds shown by 1.214 if transmission splitter is in high, or hand valve is in positions 2 and 4.

(6) Input Gear Part No. 5-P-1004
 (10) Input Gear Part No. 5-P-1100
 (12) Input Gear Part No. 5-P-1135
 (13) Input Gear Part No. 5-P-1102
 (14) Input Gear Part No. 5-P-1103
 (18) Input Gear Part No. 5-P-581

(19) Filler block furnished with P.T.O. but not required

January 2008

TSPO155-16HP

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

56 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.3980" (10.1092MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

56 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.5530" (14.0462MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

880KTAHX-*3 (17)	350	Opp	133		8-A-295		328170-17X
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ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

885KBAHX-*3 (10)	500	Opp	42		8-A-295		328170-17X	236KDAHX-*3 (6)	250	Opp	65		7-A-450		7170-6X
885KGAHX-*3 (12)	500	Opp	54		8-A-295		328170-17X	236KKAHX-*3 (6)	250	Opp	83		7-A-450		7170-6X
885KJAHX-*3 (13)	500	Opp	64		8-A-295		328170-17X	236KQAHX-*3 (6)	250	Opp	112		7-A-450		7170-6X
885KMAHX-*3 (14)	500	Opp	75		8-A-295		328170-17X	236KUAHX-*3 (6)	225	Opp	128		7-A-450		7170-6X

ONE SPEED - FORWARD & REVERSE

863XBAHX-*5	500	Opp	42	52	8-A-295		328170-17X	340SFAHX-*5 (18)	200	Opp	54	57	7-A-450		7170-6X
								352XSAHX-*3 (6)	140	Opp	120	156	7-A-140 (19)		Furnished

ONE SPEED - DUAL SHAFT

								452XSAHX-*3 (6)	140	Opp	120				7170-6X
--	--	--	--	--	--	--	--	-----------------	-----	-----	-----	--	--	--	---------

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.**CAUTION:** 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.**NOTE:** All P.T.O. speeds are shown with the transmission splitter in low or hand valve in positions 1 and 3. Multiply speeds shown by 1.214 if transmission splitter is in high, or hand valve is in positions 2 and 4.

(6) Input Gear Part No. 5-P-1004
 (10) Input Gear Part No. 5-P-1100
 (12) Input Gear Part No. 5-P-1135
 (13) Input Gear Part No. 5-P-1102
 (14) Input Gear Part No. 5-P-1103
 (17) Input Gear Part No. 5-P-1105

(18) Input Gear Part No. 5-P-581
 (19) Filler block furnished with P.T.O. but not required

January 2008

TSP120-12A

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

51 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.8160" (20.7264MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

51 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.9710" (24.6634MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100XRAHX-*3 (1)	125	Eng	90		7-A-062	328481X	7170-10X	100XRAHX-*3 (1)	125	Eng	90		7-A-200		7170-11X
812XXAHX-*3	400	Eng	60		8-A-062		Furnished								

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

221XCAHX-*3	250	Opp	40		7-A-032 (2)	310778X	Furnished	221XCAHX-*3	250	Opp	40		7-A-240		328170-102X
													7-A-032 (3)		
221XEAHX-*3	250	Opp	46		7-A-062	328481X	328170-93X	221XEAHX-*3	250	Opp	46		7-A-187		328170-93X
221XLAHX-*3	200	Opp	62		7-A-062	328481X	328170-93X	221XLAHX-*3	200	Opp	62		7-A-187		328170-93X
221XPAHX-*3	200	Opp	75		7-A-062	328481X	328170-93X	221XPAHX-*3	200	Opp	75		7-A-187		328170-93X
489XAAHX-*3 (4)	250	Opp	35		8-A-062		328170-190X	442XAAHX-*3 (4)	250	Opp	35		7-A-187		7170-3X
489XCAHX-*3 (6)	250	Opp	45		8-A-062		328170-190X	442XCAHX-*3 (6)	250	Opp	45		7-A-187		7170-3X
489XFAHX-*3 (7)	250	Opp	56		8-A-062		328170-190X	442XFAHX-*3 (7)	250	Opp	56		7-A-187		7170-3X
489XHAHX-*3 (8)	250	Opp	65		8-A-062		328170-190X	442XHAHX-*3 (8)	250	Opp	65		7-A-187		7170-3X
489XLAHX-*3 (9)	250	Opp	72		8-A-062		328170-190X	442XLAHX-*3 (9)	250	Opp	72		7-A-187		7170-3X
489XQAHX-*3 (9)	225	Opp	78		8-A-062		328170-190X	442XQAHX-*3 (9)	225	Opp	78		7-A-187		7170-3X
489XRAHX-*3 (9)	225	Opp	90		8-A-062		328170-190X	442XRAHX-*3 (9)	225	Opp	90		7-A-187		7170-3X
489XSAHX-*3 (9)	200	Opp	107		8-A-062		328170-190X	442XSAHX-*3 (9)	200	Opp	107		7-A-187		7170-3X
489XUAHX-*3 (9)	195	Opp	128		8-A-062		328170-190X	442XUAHX-*3 (9)	195	Opp	128		7-A-187		7170-3X
489XWAHX-*3 (9)	175	Opp	151		8-A-062		328170-190X	442XWAHX-*3 (9)	175	Opp	151		7-A-187		7170-3X
489XXAHX-*3 (9)	140	Opp	178		8-A-062		328170-190X	442XXAHX-*3 (9)	140	Opp	178		7-A-187		7170-3X
680XFAHX-*3 (10)	375	Opp	56		8-A-062		328170-190X	660XFAHX-*3 (10)	375	Opp	56		7-A-187		7170-3X
680XQAHX-*3 (11)	375	Opp	78		8-A-062		328170-190X	660XQAHX-*3 (11)	375	Opp	78		7-A-187		7170-3X
680XSAHX-*3 (12)	325	Opp	107		8-A-062		328170-190X	660XSAHX-*3 (12)	325	Opp	107		7-A-187		7170-3X
880XBAHX-*3 (13)	500	Opp	38		8-A-062		328170-15X								
880XDAHX-*3 (14)	500	Opp	45		8-A-062		328170-15X								
880XGAHX-*3 (15)	500	Opp	49		8-A-062		328170-15X								
880XJAHX-*3 (16)	500	Opp	58		8-A-062		328170-15X								
880XMAHX-*3 (17)	500	Opp	68		8-A-062		328170-15X								
880XQAHX-*3 (18)	450	Opp	80		8-A-062		328170-15X								
880XRAHX-*3 (19)	400	Opp	94		8-A-062		328170-15X								
880XTAHX-*3 (20)	350	Opp	120		8-A-062		328170-15X								

Continued Next Page

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.**CAUTION:** 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.**NOTE:** All P.T.O. speeds are shown with the transmission in low range. Multiply the speeds shown by 1.29 with the transmission in high range.**NOTE:** The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.**NOTE:** If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

- (1) Gear and Shaft Kit No. KXA-2-P-565
 (2) Filler block furnished with P.T.O. but not required
 (3) Filler block furnished with P.T.O.
 (4) Input Gear Part No. 5-P-1280
 (5) Input Gear Part No. 5-P-1418
 (6) Input Gear Part No. 5-P-1287

- (7) Input Gear Part No. 5-P-1077
 (8) Input Gear Part No. 5-P-1364
 (9) Input Gear Part No. 5-P-1004
 (10) Input Gear Part No. 5-P-1242
 (11) Input Gear Part No. 5-P-1246
 (12) Input Gear Part No. 5-P-1322

- (13) Input Gear Part No. 5-P-1100
 (14) Input Gear Part No. 5-P-1101
 (15) Input Gear Part No. 5-P-1135
 (16) Input Gear Part No. 5-P-1102
 (17) Input Gear Part No. 5-P-1103
 (18) Input Gear Part No. 5-P-1385

- (19) Input Gear Part No. 5-P-1104
 (20) Input Gear Part No. 5-P-1105

January 2008

TSP120-12A

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

51 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.8160" (20.7264MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

51 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.9710" (24.6634MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			
ONE SPEED - TWO GEAR - POWERSHIFT (AIR)															
230XKAJX-*3	250	Opp	60		7-A-093	328481X	328170-173X	230XKAJX-*3	250	Opp	60		7-A-187		328170-175X
230XQAJX-*3	250	Opp	80		7-A-093	328481X	328170-173X	230XQAJX-*3	250	Opp	80		7-A-187		328170-175X
230XUAJX-*3	225	Opp	127		7-A-093	328481X	328170-173X	230XUAJX-*3	225	Opp	127		7-A-187		328170-175X
885XBAHX-*3 (13)	500	Opp	38		8-A-062		328170-15X	236XDAHX-*3 (9)	250	Opp	58		7-A-187		7170-3X
885XGAHX-*3 (15)	500	Opp	49		8-A-062		328170-15X	236XKAHX-*3 (9)	250	Opp	75		7-A-187		7170-3X
885XJAHX-*3 (16)	500	Opp	58		8-A-062		328170-15X	236XQAHX-*3 (9)	250	Opp	101		7-A-187		7170-3X
885XMAHX-*3 (17)	500	Opp	68		8-A-062		328170-15X	236XUAHX-*3 (9)	225	Opp	116		7-A-187		7170-3X
ONE SPEED - FORWARD & REVERSE															
352XSAHX-*3 (9)	140	Opp	109	141	7-A-062	328481X	7170-2X	352XSAHX-*3 (9)	140	Opp	109	141	7-A-187		7170-3X
ONE SPEED - DUAL SHAFT															
452XSAHX-*3 (9)	140	Opp	109		7-A-062	328481X	7170-2X	452XSAHX-*3 (9)	140	Opp	109		7-A-187		7170-3X

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.**CAUTION:** 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.**NOTE:** All P.T.O. speeds are shown with the transmission in low range. Multiply the speeds shown by 1.29 with the transmission in high range.**NOTE:** The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.**NOTE:** If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(9) Input Gear Part No. 5-P-1004
 (13) Input Gear Part No. 5-P-1100
 (15) Input Gear Part No. 5-P-1135
 (16) Input Gear Part No. 5-P-1102
 (17) Input Gear Part No. 5-P-1103

January 2008

TSPO155-16A

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 6-Bolt Opening Gear FORWARD of Centerline

54 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.5660" (14.3764MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

54 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.7210" (18.3134MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100XRAHX-*3 (1)	125	Eng	128			328564X	Furnished	100XRAHX-*3 (1)	125	Eng	128		7-A-300		328291-3X
812XKAHX-*5	400	Eng	86		8-A-165		Furnished								

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

221XCAHX-*5	250	Opp	57		7-A-032 (2)	328564X	Furnished	221XCAHX-*3	250	Opp	57		7-A-350 7-A-032 (3)		328170-35X
221XEAHX-*5	250	Opp	66		7-A-062	310778X	Furnished	221XEAHX-*3	250	Opp	66		7-A-300		328170-35X
221XLAHX-*5	200	Opp	89		7-A-062	310778X	Furnished	221XLAHX-*3	200	Opp	89		7-A-300		328170-35X
221XPAHX-*5	200	Opp	107		7-A-062	310778X	Furnished	221XPAHX-*3	200	Opp	107		7-A-300		328170-35X
489XAAHX-*3 (4)	250	Opp	50		8-A-062		328170-8X	442XAAHX-*3 (4)	250	Opp	50		7-A-300		7170-5X
					8-A-093										
489XCAHX-*3 (6)	250	Opp	64		8-A-062		328170-8X	442XCAHX-*3 (6)	250	Opp	64		7-A-300		7170-5X
					8-A-093										
489XFAHX-*3 (7)	250	Opp	80		8-A-062		328170-8X	442XFAHX-*3 (7)	250	Opp	80		7-A-300		7170-5X
					8-A-093										
489XHAHX-*3 (8)	250	Opp	93		8-A-062		328170-8X	442XHAHX-*3 (8)	250	Opp	93		7-A-300		7170-5X
					8-A-093										
489XLAHX-*5 (9)	250	Opp	103		8-A-062		328170-8X	442XLAHX-*3 (9)	250	Opp	103		7-A-300		7170-5X
					8-A-093										
489XQAHX-*5 (9)	225	Opp	111		8-A-062		328170-8X	442XQAHX-*3 (9)	225	Opp	111		7-A-300		7170-5X
					8-A-093										
489XRAHX-*5 (9)	225	Opp	128		8-A-062		328170-8X	442XRAHX-*3 (9)	225	Opp	128		7-A-300		7170-5X
					8-A-093										
489XSAHX-*5 (9)	200	Opp	153		8-A-062		328170-8X	442XSAHX-*3 (9)	200	Opp	153		7-A-300		7170-5X
					8-A-093										
489XUAHX-*5 (9)	195	Opp	182		8-A-062		328170-8X	442XUAHX-*3 (9)	195	Opp	182		7-A-300		7170-5X
					8-A-093										
489XWAHX-*5 (9)	175	Opp	214		8-A-062		328170-8X	442XWAHX-*3 (9)	175	Opp	214		7-A-300		7170-5X
					8-A-093										
489XXAHX-*5 (9)	140	Opp	254		8-A-062		328170-8X	442XXAHX-*3 (9)	140	Opp	254		7-A-300		7170-5X
					8-A-093										
680XFAHX-*3 (10)	375	Opp	80		8-A-062		328170-8X	660XFAHX-*3 (10)	375	Opp	80		7-A-300		7170-5X
					8-A-093										
680XQAHX-*5 (11)	375	Opp	111		8-A-062		328170-8X								
					8-A-093										

Continued Next Page

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.**CAUTION:** 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.**NOTE:** All P.T.O. speeds are shown with the transmission in high. Multiply speeds shown by .845 if the transmission is in low range.**NOTE:** The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.**NOTE:** If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(1) Gear and Shaft Kit No. KXA-2-P-565

(2) Filler block furnished with P.T.O.

(3) Filler block furnished with P.T.O. but not required

(4) Input Gear Part No. 5-P-1280

(5) Input Gear Part No. 5-P-1418

(6) Input Gear Part No. 5-P-1287

(7) Input Gear Part No. 5-P-1077

(8) Input Gear Part No. 5-P-1364

(9) Input Gear Part No. 5-P-1004

(10) Input Gear Part No. 5-P-1242

(11) Input Gear Part No. 5-P-1246

January 2008

TSPO155-16A

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 6-Bolt Opening Gear FORWARD of Centerline

54 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.5660" (14.3764MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

54 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.7210" (18.3134MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

680XSAHX-*5 (12)	325	Opp	153		8-A-062		328170-8X	660XQAHX-*3 (11)	375	Opp	111		7-A-300		7170-5X
					8-A-093										
880XBAHX-*3 (13)	500	Opp	54		8-A-165		328170-14X	660XSAHX-*3 (12)	325	Opp	153		7-A-300		7170-5X
880XDAHX-*3 (14)	500	Opp	64		8-A-165		328170-14X								
880XGAHX-*3 (15)	500	Opp	70		8-A-165		328170-14X								
880XJAHX-*3 (16)	500	Opp	82		8-A-165		328170-14X								
880XMAHX-*3 (17)	500	Opp	96		8-A-165		328170-14X								
880XQAHX-*3 (18)	450	Opp	113		8-A-165		328170-14X								
880XRAHX-*3 (19)	400	Opp	133		8-A-165		328170-14X								
880XTAHX-*3 (20)	350	Opp	171		8-A-165		328170-14X								

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

230XKAJX-*3	250	Opp	85			328564X	Furnished	230XKAJX-*3	250	Opp	85		7-A-300		328170-172X
230XQAJX-*3	250	Opp	113			328564X	Furnished	230XQAJX-*3	250	Opp	113		7-A-300		328170-172X
230XUAJX-*3	225	Opp	181			328564X	Furnished	230XUAJX-*3	225	Opp	181		7-A-300		328170-172X
885XBAHX-*3 (13)	500	Opp	54		8-A-165		328170-14X	236XDAHX-*3 (9)	250	Opp	83		7-A-300		7170-5X
885XGAHX-*3 (15)	500	Opp	70		8-A-165		328170-14X	236XKAHX-*3 (9)	250	Opp	106		7-A-300		7170-5X
885XJAHX-*3 (16)	500	Opp	82		8-A-165		328170-14X	236XQAHX-*3 (9)	250	Opp	144		7-A-300		7170-5X
885XMAHX-*3 (17)	500	Opp	96		8-A-165		328170-14X	236XUAHX-*3 (9)	225	Opp	165		7-A-300		7170-5X

ONE SPEED - FORWARD & REVERSE

340XFAHX-*5 (21)	200	Opp	70	73	7-A-140 (3)		7170-1X	340XFAHX-*5 (21)	200	Opp	70	73	7-A-270		7170-5X
													7-A-140 (3)		
352XSAHX-*5 (9)	140	Opp	155	200	7-A-062		Furnished	352XSAHX-*5 (9)	140	Opp	155	200	7-A-300		7170-5X
863XBAHX-*5	500	Opp	54	67	8-A-165		328170-14X								

ONE SPEED - DUAL SHAFT

452XSAHX-*3 (9)	140	Opp	155		7-A-062		Furnished	452XSAHX-*3 (9)	140	Opp	155		7-A-300		7170-5X
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CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.**CAUTION:** 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.**NOTE:** All P.T.O. speeds are shown with the transmission in high. Multiply speeds shown by .845 if the transmission is in low gear.**NOTE:** The AK & XK output flanges can not be used with the "A" & "C" ratios on the 489 Series P.T.O.s due to mounting stud interference. Use a RA or RB rotatable flange for the XK and the RA for the AK flange.**NOTE:** If Ordering the 230/231 Series with the Shaft Brake Option, order the "BA" Output for Automatic Transmissions and the "BD" Output for Manual Transmissions.

(3) Filler block furnished with P.T.O. but not required

(9) Input Gear Part No. 5-P-1004

(11) Input Gear Part No. 5-P-1246

(12) Input Gear Part No. 5-P-1322

(13) Input Gear Part No. 5-P-1100

(14) Input Gear Part No. 5-P-1101

(15) Input Gear Part No. 5-P-1135

(16) Input Gear Part No. 5-P-1102

(17) Input Gear Part No. 5-P-1103

(18) Input Gear Part No. 5-P-1385

(19) Input Gear Part No. 5-P-1104

(20) Input Gear Part No. 5-P-1105

(21) Input Gear Part No. 5-P-581

January 2008

CM50-HD

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

43 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.5600" (14.2240MM)

TRANSMISSION GEAR DATA:

R.H. 8-Bolt Opening Gear FORWARD of Centerline

43 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.2840" (7.2136MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100XRBGX-*3 (1) 125 Eng 96 7-A-300 328564X 7170-13X

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442XFBGX-*5 (2)	250	Opp	57		7-A-562		7170-7X	489XFBGX-*3 (2)	250	Opp	57		8-A-375		328170-192X
													8-A-093		
442XLBGX-*5 (3)	250	Opp	73		7-A-562		7170-7X	489XLBGX-*3 (3)	250	Opp	73		8-A-375		328170-192X
													8-A-093		
442XQBGX-*5 (3)	225	Opp	79		7-A-562		7170-7X	489XQBGX-*3 (3)	225	Opp	79		8-A-375		328170-192X
													8-A-093		
442XRBGX-*5 (3)	225	Opp	92		7-A-562		7170-7X	489XRBGX-*3 (3)	225	Opp	92		8-A-375		328170-192X
													8-A-093		
442XSBGX-*5 (3)	200	Opp	109		7-A-562		7170-7X	489XSBGX-*3 (3)	200	Opp	109		8-A-375		328170-192X
													8-A-093		
442XUBGX-*5 (3)	195	Opp	130		7-A-562		7170-7X	489XUBGX-*3 (3)	195	Opp	130		8-A-375		328170-192X
													8-A-093		
442XWBGX-*5 (3)	175	Opp	153		7-A-562		7170-7X	489XWBGX-*3 (3)	175	Opp	153		8-A-375		328170-192X
													8-A-093		
442XXBGX-*5 (3)	140	Opp	181		7-A-562		7170-7X	489XXBGX-*3 (3)	140	Opp	181		8-A-375		328170-192X
													8-A-093		
660XFBGX-*5 (4)	375	Opp	57		7-A-562		7170-7X	680XFBGX-*3 (4)	375	Opp	57		8-A-375		328170-192X
													8-A-093		
660XQBGX-*5 (5)	375	Opp	79		7-A-562		7170-7X	680XQBGX-*3 (5)	375	Opp	79		8-A-375		328170-192X
													8-A-093		
660XSBGX-*5 (6)	325	Opp	109		7-A-562		7170-7X	680XSBGX-*3 (6)	325	Opp	109		8-A-375		328170-192X
													8-A-093		
								880XBBGX-*3 (7)	500	Opp	39		8-A-032		Furnished
								880XMBGX-*3 (8)	500	Opp	70		8-A-032		Furnished
								880XRBGX-*3 (9)	400	Opp	96		8-A-032		Furnished
								880XTBGX-*3 (10)	350	Opp	124		8-A-032		Furnished

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

236XDBGX-*5 (3)	250	Opp	59		7-A-562		7170-7X
236XKBGX-*5 (3)	250	Opp	76		7-A-562		7170-7X
236XQBGX-*5 (3)	250	Opp	103		7-A-562		7170-7X
236XUBGX-*5 (3)	225	Opp	118		7-A-562		7170-7X

Continued Next Page

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval

(1) Gear and Shaft Kit No. KXA-2-P-571
 (2) Input Gear Part No. 5-P-1082
 (3) Input Gear Part No. 5-P-1015
 (4) Input Gear Part No. 5-P-1325
 (5) Input Gear Part No. 5-P-1326
 (6) Input Gear Part No. 5-P-1327

(7) Input Gear Part No. 5-P-1116
 (8) Input Gear Part No. 5-P-1175
 (9) Input Gear Part No. 5-P-1117
 (10) Input Gear Part No. 5-P-1177

January 2008

CM50-HD

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

43 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.5600" (14.2240MM)

TRANSMISSION GEAR DATA:

R.H. 8-Bolt Opening Gear FORWARD of Centerline

43 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.2840" (7.2136MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - FORWARD & REVERSE

340XFBGX-*5 (11)	200	Opp	52	54	7-A-500		7170-6X	340XFBGX-*5 (11)	200	Opp	52	54	7-A-300	328564X	7170-5X
					7-A-140 (12)								7-A-140 (12)		
352XSBGX-*5 (3)	140	Opp	106	137	7-A-562		7170-7X	352XSBGX-*3 (3)	140	Opp	106	137	7-A-300	328564X	7170-5X
								863XBBGX-*3 (13)	500	Opp	39	48	8-A-032		Furnished

ONE SPEED - DUAL SHAFT

452XSBGX-*3 (3)	140	Opp	106		7-A-562		7170-7X	452XSBGX-*3 (3)	140	Opp	106		7-A-300	328564X	7170-5X
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CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval

(3) Input Gear Part No. 5-P-1015

(11) Input Gear Part No. 5-P-580

(12) Filler block furnished with P.T.O. but not required

(13) Input Gear Part No. 5-P-422

January 2008

TSPO180-16SM

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 8-Bolt Opening Gear FORWARD of Centerline

84 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.3990" (10.1346MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

84 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.5540" (14.0716MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			
ONE SPEED - TWO GEAR - MECHANICAL SHIFT															
489XLHWX-*5 (1)	250	Opp	92		8-A-375 8-A-032		328170-15X	442KLHWX-*3 (1)	250	Opp	92		7-A-550		7170-6X
489XQHWX-*5 (1)	225	Opp	99		8-A-375 8-A-032		328170-15X	442KQHWX-*3 (1)	225	Opp	99		7-A-550		7170-6X
489XRHWX-*5 (1)	225	Opp	114		8-A-375 8-A-032		328170-15X	442KRHWX-*3 (1)	225	Opp	114		7-A-550		7170-6X
489XSHWX-*5 (1)	200	Opp	136		8-A-375 8-A-032		328170-15X	442KSHWX-*3 (1)	195	Opp	136		7-A-550		7170-6X
489XUHWX-*5 (1)	195	Opp	162		8-A-375 8-A-032		328170-15X	442KUHWX-*3 (1)	195	Opp	162		7-A-550		7170-6X
489XWHWX-*5 (1)	175	Opp	190		8-A-375 8-A-032		328170-15X	442KWHWX-*3 (1)	175	Opp	190		7-A-550		7170-6X
489XXHWX-*5 (1)	140	Opp	225		8-A-375 8-A-032		328170-15X	442KXHWX-*3 (1)	140	Opp	225		7-A-550		7170-6X
ONE SPEED - FORWARD & REVERSE															
									352KSHWX-*3 (1)	195	Opp	138	178	7-A-550	7170-6X
ONE SPEED - DUAL SHAFT															
									452KSHWX-*3 (1)	195	Opp	138		7-A-550	7170-6X

(1) Input Gear Part No. 5-P-1235

January 2008

TSPO180-18SM

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 8-Bolt Opening Gear FORWARD of Centerline

76 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.3740" (9.4996MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

76 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.5290" (13.4366MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	
			Hi	Rev							Hi	Rev				
ONE SPEED - TWO GEAR - MECHANICAL SHIFT																
489XLHXX-*5 (1)	250	Opp	87		8-A-375		328170-15X	442KLHXX-*3 (1)	250	Opp	87		7-A-550		7170-6X	
489XQHXX-*5 (1)	225	Opp	94		8-A-375		328170-15X	442KQHXX-*3 (1)	225	Opp	94		7-A-550		7170-6X	
489XRHXX-*5 (1)	225	Opp	109		8-A-375		328170-15X	442KRHXX-*3 (1)	225	Opp	109		7-A-550		7170-6X	
489XSHXX-*5 (1)	200	Opp	130		8-A-375		328170-15X	442KSHXX-*3 (1)	200	Opp	130		7-A-550		7170-6X	
489XUHXX-*5 (1)	195	Opp	154		8-A-375		328170-15X	442KUHXX-*3 (1)	195	Opp	154		7-A-550		7170-6X	
489XWHXX-*5 (1)	175	Opp	182		8-A-375		328170-15X	442KWHXX-*3 (1)	175	Opp	182		7-A-550		7170-6X	
489XXHXX-*5 (1)	140	Opp	215		8-A-375		328170-15X	442KXHXX-*3 (1)	140	Opp	215		7-A-550		7170-6X	
ONE SPEED - FORWARD & REVERSE																
									352KSHXX-*3 (1)	140	Opp	131	170	7-A-550		7170-6X
ONE SPEED - DUAL SHAFT																
									452KSHXX-*3 (1)	140	Opp	131		7-A-550		7170-6X

(1) Input Gear Part No. 5-P-1236

January 2008

TSPO150-12A

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

49 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.8770" (22.2758MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

49 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

1.0330" (26.2382MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

812ZKDDX-*3 (2)	400	Eng	80		8-A-295		328170-117X	100XRDDX-*3 (1)	125	Eng	127				Furnished
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ONE SPEED - TWO GEAR - MECHANICAL SHIFT

221ZCDDX-*3	250	Opp	61				Furnished	221ZCDDX-*3	250	Opp	61		7-A-093		328170-1X
221ZEDDX-*3	250	Opp	68				Furnished	221ZEDDX-*3	250	Opp	68		7-A-093		328170-1X
221ZLDDX-*3	200	Opp	92				Furnished	221ZLDDX-*3	200	Opp	92		7-A-093		328170-1X
221ZPDDX-*3	200	Opp	111				Furnished	221ZPDDX-*3	200	Opp	111		7-A-093		328170-1X
880XDDDX-*3 (4)	500	Opp	85		8-A-093		Furnished	442ZLDDX-*3 (3)	250	Opp	103		7-A-093		Furnished
880XMDDX-*3 (5)	500	Opp	85		8-A-093		Furnished	442ZQDDX-*3 (3)	225	Opp	111		7-A-093		Furnished
880XTDDX-*3 (6)	350	Opp	157		8-A-093		Furnished	442ZRDDX-*3 (3)	225	Opp	128		7-A-093		Furnished
								442ZSDDX-*3 (3)	200	Opp	153		7-A-093		Furnished
								442ZUDDX-*3 (3)	195	Opp	182		7-A-093		Furnished
								442ZWDDX-*3 (3)	175	Opp	214		7-A-093		Furnished
								442ZXDDX-*3 (3)	140	Opp	253		7-A-093		Furnished

ONE SPEED - FORWARD & REVERSE

352ZSDDX-*3 (3)	140	Opp	155	200		328481X	Furnished	352ZSDDX-*3 (3)	140	Opp	155	200	7-A-093		Furnished
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ONE SPEED - DUAL SHAFT

452ZSDDX-*3 (3)	140	Opp	155			328481X	Furnished	452ZSDDX-*3 (3)	140	Opp	155		7-A-093		Furnished
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NOTE: All P.T.O. speeds shown are with the transmission in low range. Multiply the speeds shown by 1.27 if the transmission is in high range.

- (1) Gear and Shaft Kit No. KXA-2-P-604
 (2) Input Gear Part No. 2-P-605
 (3) Input Gear Part No. 5-P-1040
 (4) Input Gear Part No. 5-P-1126
 (5) Input Gear Part No. 5-P-1133
 (6) Input Gear Part No. 5-P-1127

January 2008

TSPO145-14A
TSPO155-14HP

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

56 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.3980" (10.1092MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

56 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.5530" (14.0462MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100KRAHX-*3 (1)	125	Eng	108		7-A-140	328564X	7170-10X	100XRAHX-*3 (1)	125	Eng	108		7-A-450		328291-4X
812XKAHX-*5	400	Eng	72		8-A-295		328170-59X								

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

489KFAHX-*5 (5)	250	Opp	67		8-A-350		328170-15X	221KPAHX-*3	200	Opp	90		7-A-450		328170-33X
489KHAHX-*5 (6)	250	Opp	78		8-A-350		328170-15X	221XCAHX-*3	250	Opp	48		7-A-500		328170-33X
													7-A-032 (2)		
489KLAHX-*5 (7)	250	Opp	87		8-A-248		328170-15X	221XEAHX-*3	250	Opp	56		7-A-450		328170-33X
					8-A-062										
489KQAHX-*5 (7)	225	Opp	94		8-A-248		328170-15X	221XLAHX-*3	200	Opp	75		7-A-450		328170-33X
					8-A-062										
489KRAHX-*5 (7)	225	Opp	108		8-A-248		328170-15X	221XPAHX-*3	200	Opp	90		7-A-450		328170-33X
					8-A-062										
489KSAHX-*5 (7)	200	Opp	129		8-A-248		328170-15X	442KAAHX-*3 (3)	250	Opp	42		7-A-450		7170-6X
					8-A-062										
489KUAHX-*5 (7)	195	Opp	154		8-A-248		328170-15X	442KCAHX-*3 (4)	250	Opp	54		7-A-450		7170-6X
					8-A-062										
489KWAHX-*5 (7)	175	Opp	181		8-A-248		328170-15X	442KFAHX-*3 (5)	250	Opp	67		7-A-450		7170-6X
					8-A-062										
489KXAHX-*5 (7)	140	Opp	214		8-A-248		328170-15X	442KHAHX-*3 (6)	250	Opp	78		7-A-450		7170-6X
					8-A-062										
680KFAHX-*5 (8)	375	Opp	67		8-A-350		328170-15X	442KLAHX-*3 (7)	250	Opp	87		7-A-450		7170-6X
680KQAHX-*5 (9)	375	Opp	94		8-A-248		328170-15X	442KQAHX-*3 (7)	225	Opp	94		7-A-450		7170-6X
					8-A-062										
680KSAHX-*5 (10)	325	Opp	129		8-A-248		328170-15X	442KRAHX-*3 (7)	225	Opp	108		7-A-450		7170-6X
					8-A-062										
880KBAHX-*3 (11)	500	Opp	46		8-A-295		328170-17X	442KSAHX-*3 (7)	200	Opp	129		7-A-450		7170-6X
880KDAHX-*3 (12)	500	Opp	54		8-A-295		328170-17X	442KUAHX-*3 (7)	195	Opp	154		7-A-450		7170-6X
880KGAHX-*3 (13)	500	Opp	59		8-A-295		328170-17X	442KWAHX-*3 (7)	175	Opp	181		7-A-450		7170-6X
880KJAHX-*3 (14)	500	Opp	69		8-A-295		328170-17X	442KXAHX-*3 (7)	140	Opp	214		7-A-450		7170-6X
880KMAHX-*3 (15)	500	Opp	81		8-A-295		328170-17X	660KFAHX-*3 (8)	375	Opp	67		7-A-450		7170-6X
880KQAHX-*3 (16)	450	Opp	95		8-A-295		328170-17X	660KQAHX-*3 (9)	375	Opp	94		7-A-450		7170-6X
880KRAHX-*3 (17)	400	Opp	112		8-A-295		328170-17X	660KSAHX-*3 (10)	325	Opp	129		7-A-450		7170-6X
880KTAHX-*3 (18)	350	Opp	144		8-A-295		328170-17X								

Continued Next Page

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: Speeds shown are with the transmission splitter in low or hand valve in position 1 and 3. multiply the speeds shown by 1.26 if the transmission splitter is in high, or the hand valve is in position 2 and 4.

- (1) Gear and Shaft Kit No. KXA-2-P-565
(2) Filler block furnished with P.T.O. but not required
(3) Input Gear Part No. 5-P-1280
(4) Input Gear Part No. 5-P-1287
(5) Input Gear Part No. 5-P-1077
(6) Input Gear Part No. 5-P-1364

- (7) Input Gear Part No. 5-P-1004
(8) Input Gear Part No. 5-P-1242
(9) Input Gear Part No. 5-P-1246
(10) Input Gear Part No. 5-P-1322
(11) Input Gear Part No. 5-P-1100
(12) Input Gear Part No. 5-P-1101

- (13) Input Gear Part No. 5-P-1135
(14) Input Gear Part No. 5-P-1102
(15) Input Gear Part No. 5-P-1103
(16) Input Gear Part No. 5-P-1385
(17) Input Gear Part No. 5-P-1104
(18) Input Gear Part No. 5-P-1105

January 2008

TSP0145-14A
TSP0155-14HP

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

56 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.3980" (10.1092MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

56 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.5530" (14.0462MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			
ONE SPEED - TWO GEAR - POWERSHIFT (AIR)															
885KBAHX-*3 (11)	500	Opp	46		8-A-295		328170-17X	236KDAHX-*3 (7)	250	Opp	70		7-A-450		7170-6X
885KGAHX-*3 (13)	500	Opp	59		8-A-295		328170-17X	236KKAHX-*3 (7)	250	Opp	90		7-A-450		7170-6X
885KJAHX-*3 (14)	500	Opp	69		8-A-295		328170-17X	236KQAHX-*3 (7)	250	Opp	122		7-A-450		7170-6X
885KMAHX-*3 (15)	500	Opp	81		8-A-295		328170-17X	236KUAHX-*3 (7)	225	Opp	139		7-A-450		7170-6X
ONE SPEED - FORWARD & REVERSE															
863XBAHX-*5	500	Opp	46	57	8-A-295		328170-17X	340SFAHX-*5 (19)	200	Opp	59	62	7-A-450		7170-6X
								352XSAHX-*3 (7)	140	Opp	131	169	7-A-450 (20)		7170-6X
ONE SPEED - DUAL SHAFT															
								452XSAHX-*3 (7)	140	Opp	131		7-A-450		7170-6X

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: Speeds shown are with the transmission splitter in low or hand valve in position 1 and 3. Multiply the speeds shown by 1.26 if the transmission splitter is in high, or the hand valve is in position 2 and 4.

(7) Input Gear Part No. 5-P-1004
(11) Input Gear Part No. 5-P-1100
(13) Input Gear Part No. 5-P-1135
(14) Input Gear Part No. 5-P-1102
(15) Input Gear Part No. 5-P-1103
(19) Input Gear Part No. 5-P-581

(20) Filler block furnished with P.T.O.

January 2008

TSPO165-18A
TSPO165-18HP
TSPO175-18M

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

57 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.3160" (8.0264MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

57 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.4710" (11.9634MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100KRAHX-*3 (1)	125	Eng	100		7-A-140	328564X	8000-13X	100XRAHX-*3 (1)	125	Eng	100		7-A-450		7170-13X
812XKAHX-*5	400	Eng	67		8-A-295		328170-159X								

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

489KFAHX-*5 (5)	250	Opp	62		8-A-248		328170-129X	221XCAHX-*3	250	Opp	45		7-A-500		328170-33X
					8-A-093								7-A-032 (2)		
489KHAHX-*5 (6)	250	Opp	72		8-A-248		328170-129X	221XEAHX-*3	250	Opp	51		7-A-450		328170-33X
					8-A-093										
489KLAHX-*5 (7)	250	Opp	80		8-A-248		328170-129X	221XLAHX-*3	200	Opp	69		7-A-450		328170-33X
					8-A-093										
489KQAHX-*5 (7)	225	Opp	86		8-A-248		328170-129X	221XPAHX-*3	200	Opp	83		7-A-450		328170-33X
					8-A-093										
489KRAHX-*5 (7)	225	Opp	100		8-A-248		328170-129X	442KAAHX-*3 (3)	250	Opp	39		7-A-450		7170-5X
					8-A-093										
489KSAHX-*5 (7)	200	Opp	119		8-A-248		328170-129X	442KCAHX-*3 (4)	250	Opp	50		7-A-450		7170-5X
					8-A-093										
489KUAHX-*5 (7)	195	Opp	142		8-A-248		328170-129X	442KFAHX-*3 (5)	250	Opp	62		7-A-450		7170-5X
					8-A-093										
489KWAHX-*5 (7)	175	Opp	167		8-A-248		328170-129X	442KHAHX-*3 (6)	250	Opp	72		7-A-450		7170-5X
					8-A-093										
489KXAHX-*5 (7)	140	Opp	197		8-A-248		328170-129X	442KLAHX-*3 (7)	250	Opp	80		7-A-450		7170-5X
					8-A-093										
680KFAHX-*5 (8)	375	Opp	62		8-A-248		328170-129X	442KQAHX-*3 (7)	225	Opp	86		7-A-450		7170-5X
					8-A-093										
680KQAHX-*5 (9)	375	Opp	86		8-A-248		328170-129X	442KRAHX-*3 (7)	225	Opp	100		7-A-450		7170-5X
					8-A-093										
680KSAHX-*5 (10)	325	Opp	119		8-A-248		328170-129X	442KSAHX-*3 (7)	200	Opp	119		7-A-450		7170-5X
					8-A-093										
880KBAHX-*3 (11)	500	Opp	42		8-A-295		328170-129X	442KUAHX-*3 (7)	195	Opp	142		7-A-450		7170-5X
					8-A-032										
880KDAHX-*3 (12)	500	Opp	50		8-A-295		328170-129X	442KWAHX-*3 (7)	175	Opp	167		7-A-450		7170-5X
					8-A-032										
880KGAHX-*3 (13)	500	Opp	54		8-A-295		328170-129X	442KXAHX-*3 (7)	140	Opp	197		7-A-450		7170-5X
					8-A-032										

Continued Next Page

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: Speeds shown are with the transmission splitter in low or hand valve in position 1 and 3. Multiply speeds shown by 1.187 if the transmission splitter is in high or hand valve is in position 2 and 4.

(1) Gear and Shaft Kit No. KXA-2-P-565

(2) Filler block furnished with P.T.O. but not required

(3) Input Gear Part No. 5-P-1280

(4) Input Gear Part No. 5-P-1287

(5) Input Gear Part No. 5-P-1077

(6) Input Gear Part No. 5-P-1364

(7) Input Gear Part No. 5-P-1004

(8) Input Gear Part No. 5-P-1242

(9) Input Gear Part No. 5-P-1246

(10) Input Gear Part No. 5-P-1322

(11) Input Gear Part No. 5-P-1100

(12) Input Gear Part No. 5-P-1101

(13) Input Gear Part No. 5-P-1135

January 2008

TSP0165-18A
TSP0165-18HP
TSP0175-18M

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

57 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.3160" (8.0264MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

57 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

.4710" (11.9634MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			
ONE SPEED - TWO GEAR - MECHANICAL SHIFT															
880KJAHX-*3 (14)	500	Opp	64		8-A-295 8-A-032		328170-129X	660KFAHX-*3 (8)	375	Opp	62		7-A-450		7170-5X
880KMAHX-*3 (15)	500	Opp	75		8-A-295 8-A-032		328170-129X	660KQAHX-*3 (9)	375	Opp	86		7-A-450		7170-5X
880KQAHX-*3 (16)	450	Opp	88		8-A-295 8-A-032		328170-129X	660KSAHX-*3 (10)	325	Opp	119		7-A-450		7170-5X
880KRAHX-*3 (17)	400	Opp	104		8-A-295 8-A-032		328170-129X								
880KTAHX-*3 (18)	350	Opp	133		8-A-295 8-A-032		328170-129X								
ONE SPEED - TWO GEAR - POWERSHIFT (AIR)															
885KBAHX-*3 (11)	500	Opp	42		8-A-295 8-A-032		328170-129X	236KDAHx-*3 (7)	250	Opp	65		7-A-450		7170-5X
885KGAHX-*3 (13)	500	Opp	54		8-A-295 8-A-032		328170-129X	236KKAHX-*3 (7)	250	Opp	83		7-A-450		7170-5X
885KJAHX-*3 (14)	500	Opp	64		8-A-295 8-A-032		328170-129X	236KQAHX-*3 (7)	250	Opp	112		7-A-450		7170-5X
885KMAHX-*3 (15)	500	Opp	75		8-A-295 8-A-032		328170-129X	236KUAHX-*3 (7)	225	Opp	128		7-A-450		7170-5X
ONE SPEED - FORWARD & REVERSE															
863XBAHX-*5	500	Opp	42	52	8-A-295 8-A-032		328170-129X	340SFAHX-*5 (19)	200	Opp	54	57	7-A-450 7-A-140 (2)		7170-4X
								352XSAHX-*3 (7)	140	Opp	121	156	7-A-450		7170-5X
ONE SPEED - DUAL SHAFT															
								452KSAHX-*3 (7)	140	Opp	121		7-A-450		7170-5X

CAUTION: Do not use geared adapters with 442 "A" and "C" ratios.

CAUTION: 660/680 Series: Applications above 1500 RPM output shaft speed, contact Chelsea Technical Service for approval.

NOTE: Speeds shown are with the transmission splitter in low or hand valve in position 1 and 3. Multiply speeds shown by 1.187 if the transmission splitter is in high or hand valve in position 2 and 4.

(2) Filler block furnished with P.T.O. but not required
(7) Input Gear Part No. 5-P-1004
(8) Input Gear Part No. 5-P-1242
(9) Input Gear Part No. 5-P-1246
(10) Input Gear Part No. 5-P-1322
(11) Input Gear Part No. 5-P-1100

(13) Input Gear Part No. 5-P-1135
(14) Input Gear Part No. 5-P-1102
(15) Input Gear Part No. 5-P-1103
(16) Input Gear Part No. 5-P-1385
(17) Input Gear Part No. 5-P-1104
(18) Input Gear Part No. 5-P-1105

(19) Input Gear Part No. 5-P-581

January 2008

AS56-7B

ES56-7B

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

34 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.3960" (35.4700MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

34 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.3960" (35.4700MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442ZFJUX-*5 (1)	250	Opp	37				Furnished	442ZFJUX-*3 (1)	250	Opp	37				Furnished
442ZLJUX-*5 (2)	250	Opp	49				Furnished	442ZLJUX-*3 (2)	250	Opp	49				Furnished
442ZQJUX-*5 (2)	225	Opp	53				Furnished	442ZQJUX-*3 (2)	225	Opp	53				Furnished
442ZRJUX-*5 (2)	225	Opp	61				Furnished	442ZRJUX-*3 (2)	225	Opp	61				Furnished
442ZSJUX-*5 (2)	200	Opp	73				Furnished	442ZSJUX-*3 (2)	200	Opp	73				Furnished
442ZUJUX-*5 (2)	195	Opp	86				Furnished	442ZUJUX-*3 (2)	195	Opp	86				Furnished
442ZWJUX-*5 (2)	175	Opp	102				Furnished	442ZWJUX-*3 (2)	175	Opp	102				Furnished
442ZXJUX-*5 (2)	140	Opp	120				Furnished	442ZXJUX-*3 (2)	140	Opp	120				Furnished

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

236ZDJUX-*5 (2)	250	Opp	40				Furnished	236ZDJUX-*3 (2)	250	Opp	40				Furnished
236ZKJUX-*5 (2)	250	Opp	51				Furnished	236ZKJUX-*3 (2)	250	Opp	51				Furnished
236ZQJUX-*5 (2)	250	Opp	68				Furnished	236ZQJUX-*3 (2)	250	Opp	68				Furnished
236ZUJUX-*5 (2)	225	Opp	78				Furnished	236ZUJUX-*3 (2)	225	Opp	78				Furnished

ONE SPEED - FORWARD & REVERSE

340ZFJUX-*5 (3)	200	Opp	34	36			Furnished	340ZFJUX-*5 (3)	200	Opp	34	36			Furnished
352ZSJUX-*5 (2)	140	Opp	73	95			Furnished	352ZSJUX-*3 (2)	140	Opp	73	95			Furnished

ONE SPEED - DUAL SHAFT

452ZSJUX-*5 (2)	140	Opp	73				Furnished	452ZSJUX-*3 (2)	140	Opp	73				Furnished
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GEARED ADAPTERS

626ZJUX-4KA							Furnished	626ZJUX-3KA							Furnished
630ZJUX-4KA							Furnished	630ZJUX-3KA							Furnished
645ZJUX-4KA							Furnished	645ZJUX-3KA							Furnished

NOTE: The 626 and 645 Series adapters can not be used with the 442 Series "F" ratio.**NOTE:** When using a 626 or 645 deep mount adapter on this transmission, you must use a standard mount 442 Series P.T.O. (example: 442XLJUX-*5). Replace the 5-P-1316 gear in the 442X Series with 5-P-1318 and put 5-P-1316 gear in the deep mount adapter. Mount the P.T.O. to the adapter with a 7-A-200 spacer and a 7170-4X stud kit.

(1) Input Gear Part No. 5-P-1317
 (2) Input Gear Part No. 5-P-1316
 (3) Input Gear Part No. 5-P-1377

TDET0880
TDET1361
TDET1664
TR-4050

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

32 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.1400" (28.9342MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442XLKNX-*3 (1)	250	Opp	49	Furnished
442XQKNX-*3 (1)	225	Opp	53	Furnished
442XRKNX-*3 (1)	225	Opp	61	Furnished
442XSKNX-*3 (1)	200	Opp	73	Furnished
442XUKNX-*3 (1)	195	Opp	87	Furnished
442XWKNX-*3 (1)	175	Opp	102	Furnished
442XXKNX-*3 (1)	140	Opp	121	Furnished

GEARED ADAPTERS

626XKNX-3KP	7170-4X
630XKNX-3KP	7170-4X
645XKNX-3KP	7170-4X

(1) Input Gear Part No. 5-P-1383

January 2008

PSDO165-18A
PSDO185-18A
PSDO205-18A

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline

52 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

0.9280" (23.5700MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear REAR of Centerline

52 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

1.2280" (31.1900MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

221ZCAHX-*3 (1)	250	Opp	68		8-A-032	310778X	Furnished	221ZCAHX-*4 (1)	250	Opp	68		7-A-093(T)		328170-96X
221ZEAHX-*3 (2)	250	Opp	75			310778X	Furnished	221ZEAHX-*4 (2)	250	Opp	75		7-A-062(T)		328170-96X
221ZLAHX-*3 (2)	200	Opp	101			310778X	Furnished	221ZLAHX-*4 (2)	200	Opp	101		7-A-062(T)		328170-96X
221ZPAHX-*3 (2)	200	Opp	122			310778X	Furnished	221ZPAHX-*4 (2)	200	Opp	122		7-A-062(T)		328170-96X
489ZAAHX-*3 (3)	250	Opp	59		8-A-032(P)		Furnished	442LAAHX-*4 (3)	250	Opp	59		7-A-062(P)		7170-1X
489ZCAHX-*3 (4)	250	Opp	76		8-A-032(P)		Furnished	442LCAHX-*4 (4)	250	Opp	76		7-A-062(P)		7170-1X
489ZFAHX-*3 (5)	250	Opp	94		8-A-032(P)		Furnished	442LFAHX-*4 (5)	250	Opp	94		7-A-062(P)		7170-1X
489ZHAHX-*3 (6)	250	Opp	108		8-A-032(P)		Furnished	442LHAHX-*4 (6)	250	Opp	108		7-A-062(P)		7170-1X
489ZLAHX-*3 (7)	250	Opp	122		8-A-032(P)		Furnished	442LLAHX-*4 (7)	250	Opp	121		7-A-062(P)		7170-1X
489ZQAHX-*3 (7)	225	Opp	131		8-A-032(P)		Furnished	442LQAHX-*4 (7)	225	Opp	131		7-A-062(P)		7170-1X
489ZRAHX-*3 (7)	225	Opp	152		8-A-032(P)		Furnished	442LRAHX-*4 (7)	225	Opp	152		7-A-062(P)		7170-1X
489ZSAHX-*3 (7)	200	Opp	181		8-A-032(P)		Furnished	442LSAHX-*4 (7)	200	Opp	181		7-A-062(P)		7170-1X
489ZUAHX-*3 (7)	195	Opp	215		8-A-032(P)		Furnished	442LUAHX-*4 (7)	195	Opp	216		7-A-062(P)		7170-1X
489ZWAHX-*3 (7)	175	Opp	254		8-A-032(P)		Furnished	442LWAHX-*4 (7)	175	Opp	254		7-A-062(P)		7170-1X
489ZXAHX-*3 (7)	140	Opp	300		8-A-032(P)		Furnished	442LXAHX-*4 (7)	140	Opp	301		7-A-062(P)		7170-1X
880ZBAHX-*3 (13)	500	Opp	64		8-A-248(P)		328170-179X	660LFAHX-*4 (8)	375	Opp	79		7-A-062(P)		7170-1X
					8-A-500										
880ZDAHX-*3 (14)	500	Opp	76		8-A-245(P)		328170-179X	660LQAHX-*4 (9)	375	Opp	111		7-A-062(P)		7170-1X
					8-A-500										
880ZGAHX-*3 (15)	500	Opp	85		8-A-248(P)		328170-179X	660LSAHX-*4 (10)	325	Opp	153		7-A-062(P)		7170-1X
					8-A-500										
880ZJAHX-*3 (16)	500	Opp	97		8-A-248(P)		328170-179X	660LUAHX-*4 (11)	195	Opp	183		7-A-062(P)		7170-1X
					8-A-500										
880ZMAHX-*3 (17)	500	Opp	113		8-A-248(P)		328170-179X	660LWAHX-*4 (12)	175	Opp	215		7-A-062(P)		7170-1X
					8-A-500										
880ZQAHX-*3 (18)	450	Opp	134		8-A-248(P)		328170-179X								
					8-A-500										
880ZRAHX-*3 (19)	400	Opp	158		8-A-248(P)		328170-179X								
					8-A-500										
880ZTAHX-*3 (20)	350	Opp	203		8-A-248(P)		328170-179X								
					8-A-500										

Continued Next Page

NOTE: The P.T.O. output speeds shown are with the transmission in High Range, for P.T.O. output speeds with the transmission in low range, multiply speeds shown by .82

(1) Input Gear Part No. 5-P-319
(2) Input Gear Part No. 5-P-202
(3) Input Gear Part No. 5-P-1280
(4) Input Gear Part No. 5-P-1287
(5) Input Gear Part No. 5-P-1077
(6) Input Gear Part No. 5-P-1364

(7) Input Gear Part No. 5-P-1004
(8) Input Gear Part No. 5-P-1242
(9) Input Gear Part No. 5-P-1246
(10) Input Gear Part No. 5-P-1322
(11) Input Gear Part No. 5-P-1323
(12) Input Gear Part No. 5-P-1324

(13) Input Gear Part No. 5-P-1100
(14) Input Gear Part No. 5-P-1101
(15) Input Gear Part No. 5-P-1135
(16) Input Gear Part No. 5-P-1102
(17) Input Gear Part No. 5-P-1103
(18) Input Gear Part No. 5-P-1385

(19) Input Gear Part No. 5-P-1104
(20) Input Gear Part No. 5-P-1105

January 2008

PSDO165-18A
PSDO185-18A
PSDO205-18A

BOTTOM SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

BOT 8-Bolt Opening Gear FORWARD of Centerline
52 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

0.9280" (23.5700MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear REAR of Centerline
52 Teeth - SPUR

PITCH LINE TO APERTURE FACE:

1.2280" (31.1900MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			
ONE SPEED - TWO GEAR - POWERSHIFT (AIR)															
236ZDAH*-3 (7)	250	Opp	98		7-A-093(P)	328481X	7170-1X	236LDAH*-4 (7)	250	Opp	98		7-A-062(T)		7170-1X
236ZKAH*-3 (7)	250	Opp	127		7-A-093(P)	328481X	7170-1X	236LKAH*-4 (7)	250	Opp	127		7-A-062(T)		7170-1X
236ZQAH*-3 (7)	250	Opp	170		7-A-093(P)	328481X	7170-1X	236LQAH*-4 (7)	250	Opp	170		7-A-062(T)		7170-1X
236ZUAH*-3 (7)	225	Opp	195		7-A-093(P)	328481X	7170-1X	236LUAH*-4 (7)	225	Opp	196		7-A-062(T)		7170-1X
ONE SPEED - FORWARD & REVERSE															
340SFAH*-5 (21)	200	Opp	82	86	7-A-032(P)	328481X	Furnished	340ZFAH*-4 (21)	200	Opp	82	86	7-A-062(P)		Furnished
352ZSAH*-3 (7)	140	Opp	181	237	7-A-093(P)	328481X	7170-1X	352ZSAH*-4 (7)	140	Opp	181	237	7-A-062(P)		7170-1X
ONE SPEED - DUAL SHAFT															
452ZSAH*-3 (7)	140	Opp	217		7-A-093(P)	328481X	7170-1X	452ZSAH*-4 (7)	140	Opp	181		7-A-062(P)		7170-1X
GEARED ADAPTERS															
628ZAHX-3XX (7)		Eng			8-A-032(T)		Furnished	626KAHX-4XX (7)		Eng			7-A-062(T)		7170-1X
								630KAHX-4XX (7)		Eng			7-A-062(T)		7170-1X
								645KAHX-4XX (7)		Eng			7-A-062(T)		7170-1X

NOTE: The P.T.O. output speeds shown are with the transmission in High Range, for P.T.O. output speeds with the transmission in low range, multiply speeds shown by .82

(7) Input Gear Part No. 5-P-1004
(21) Input Gear Part No. 5-P-581



WARNER



WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

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WARNER TRANSMISSION INDEX

Transmission Make and Model	P.T.O. Appl. Number	Number Forward Speeds	Teeth in P.T.O. Driver
T-18	WRN-6	4	L36
T-18	WRN-5	4	L36-R36
T-19	WRN-5	4	L36-R36
T-98-1P (Right Hand Helix in P.T.O. Driver)	WRN-5	4	L36-R36
T-98-1R (Right Hand Helix in P.T.O. Driver)	WRN-5	4	L36-R36
T-98-1V (Right Hand Helix in P.T.O. Driver)	WRN-5	4	L36-R36
T-98-1Z	WRN-6	4	L36
T-98A (Right Hand Helix in P.T.O. Driver)	WRN-5	4	L36-R36
T98A-1	WRN-6	4	L36
T98A-1B	WRN-6	4	L36
T98A-1C	WRN-6	4	L36



IMPORTANT: See Safety Information
in Section 1 of the Chelsea Applications
catalog HY25-3000/US.

Transmission P.T.O. Driver & Aperatures (Viewed from Rear of Transmission)

L-Left Side R-Right Side B-Bottom Side T-Top Side

For transmission not listed, contact your authorized Chelsea Distributor.

January 2008

190F	T-98-1V
T-18	T-98A
T-19	
T-98-1P	
T-98-1R	

LEFT SIDE ONLY	RIGHT SIDE ONLY
TRANSMISSION GEAR DATA: L.H. 6-Bolt Opening Gear REAR of Centerline 36 Teeth - R.H. HELIX PITCH LINE TO APERTURE FACE: 1.0850" (27.5600MM)	TRANSMISSION GEAR DATA: R.H. 6-Bolt Opening Gear REAR of Centerline 36 Teeth - R.H. HELIX PITCH LINE TO APERTURE FACE: 1.0850" (27.5600MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

								100XRBZX-*4 (1)	125	Eng	51				Furnished
--	--	--	--	--	--	--	--	-----------------	-----	-----	----	--	--	--	-----------

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442XLBZX-*6 (2)	250	Opp	40				Furnished	442XLBZX-*4 (2)	250	Opp	40				Furnished
442XQBZX-*6 (2)	225	Opp	43				Furnished	442XQBZX-*4 (2)	225	Opp	43				Furnished
442XRBZX-*6 (2)	225	Opp	50				Furnished	442XRBZX-*4 (2)	225	Opp	50				Furnished
442XSBZX-*6 (2)	200	Opp	60				Furnished	442XSBZX-*4 (2)	200	Opp	60				Furnished
442XUBZX-*6 (2)	195	Opp	71				Furnished	442XUBZX-*4 (2)	195	Opp	71				Furnished
442XWBZX-*6 (2)	175	Opp	84				Furnished	442XWBZX-*4 (2)	175	Opp	84				Furnished
442XXBZX-*6 (2)	140	Opp	99				Furnished	442XXBZX-*4 (2)	140	Opp	99				Furnished

ONE SPEED - FORWARD & REVERSE

352XSBZX-*6 (2)	140	Opp	60	78			Furnished	352XSBZX-*4 (2)	140	Opp	60	78			Furnished
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ONE SPEED - DUAL SHAFT

452XSBZX-*6 (2)	140	Opp	60				Furnished	452XSBZX-*4 (2)	140	Opp	60				Furnished
-----------------	-----	-----	----	--	--	--	-----------	-----------------	-----	-----	----	--	--	--	-----------

NOTE: T-18 available with opening on right or left side.

NOTE: Navistar Model #T-427 for T-19 has both right and left hand openings.

NOTE: No adapters available for this application.

(1) Gear and Shaft Kit No. KXA-2-P-583
 (2) Input Gear Part No. 5-P-1028

T-18
T-98-1Z
T98A-1
T98A-1B
T98A-1C

LEFT SIDE ONLY**TRANSMISSION GEAR DATA:**

L.H. 6-Bolt Opening Gear REAR of Centerline

36 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.0850" (27.5600MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442XLBZX-*6 (1)	250	Opp	40				Furnished								
442XQBZX-*6 (1)	225	Opp	43				Furnished								
442XRBZX-*6 (1)	225	Opp	50				Furnished								
442XSBZX-*6 (1)	200	Opp	60				Furnished								
442XUBZX-*6 (1)	195	Opp	71				Furnished								
442XWBZX-*6 (1)	175	Opp	84				Furnished								
442XXBZX-*6 (1)	140	Opp	99				Furnished								

ONE SPEED - FORWARD & REVERSE

352XSBZX-*6 (1)	140	Opp	60	78			Furnished								
-----------------	-----	-----	----	----	--	--	-----------	--	--	--	--	--	--	--	--

ONE SPEED - DUAL SHAFT

452XSBZX-*6 (1)	140	Opp	60				Furnished								
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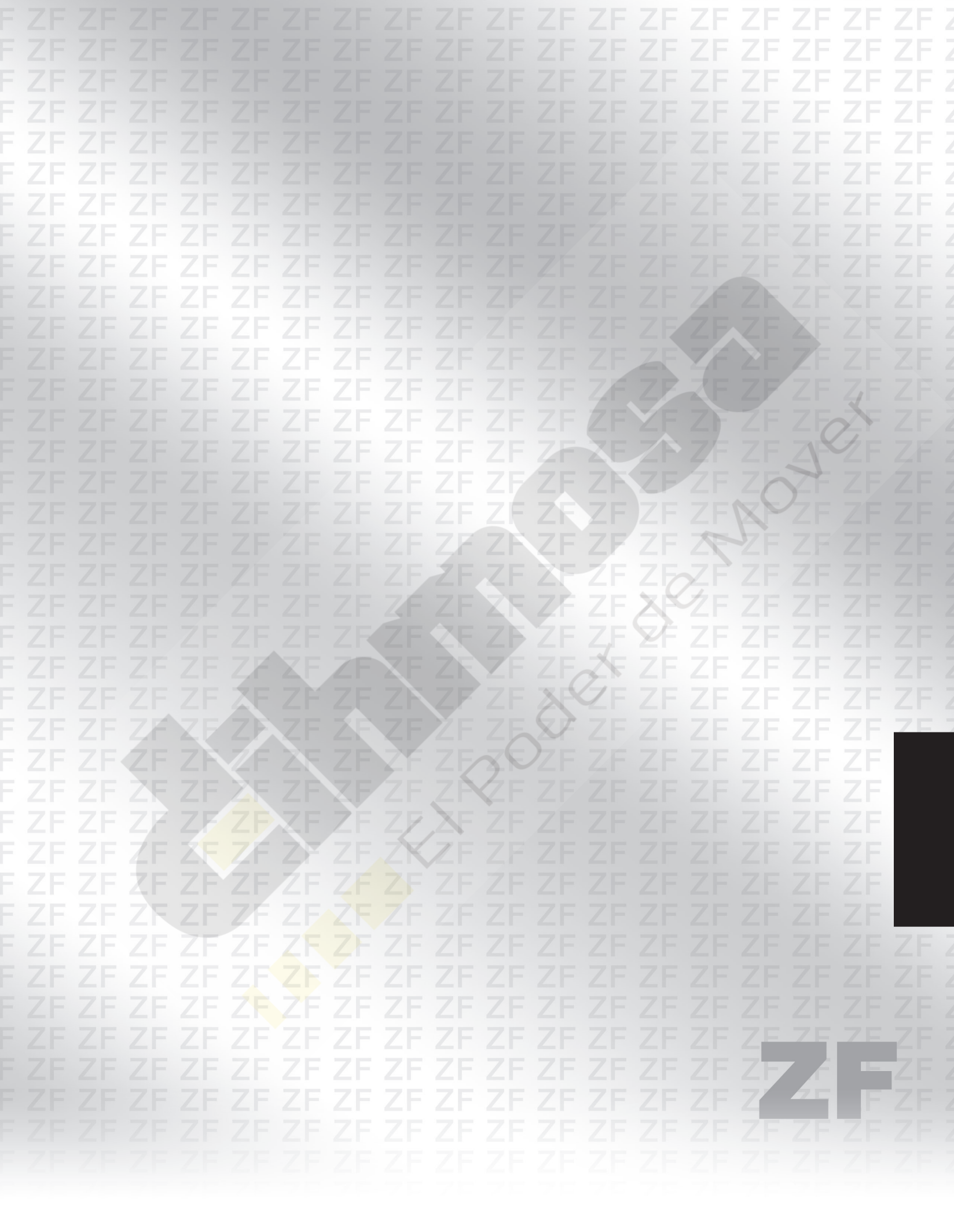
NOTE: T-18 available with opening on right or left side. See Application no. WRN-5 for R.H. Applications.

NOTE: No adapters available for this application.

(1) Input Gear Part No. 5-P-1028

January 2008

Notes



LEI Podet de Mover

ZF



WARNING

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ZF TRANSMISSION INDEX

Transmission Make and Model	P.T.O. Appl. Number	Number Forward Speeds	Teeth in P.T.O. Driver
M-13Z12A-A13 (Rear Mount)	ZFM-5	12	R14
MO-14Z12A-A14 (Rear Mount)	ZFM-6	12	R14
MO-15Z16A-A15 (Rear Mount)	ZFM-7	12	R14
S5-42 (4.65/0.77 Ratio) England	ZF-16	5	L43-R43
S5-42 (5.72/0.76 Ratio) North America	ZF-4	5	L45-R45
S5-42 (6.56 Ratio)	ZF-5	5	L44-R44
S5-42 (7.5 Gas Wide Ratio)	ZF-4	5	L45-R45
S5-47 (Diesel Close Ratio 5.08/0.77)	ZF-14	5	L43-R43
S5-47 (Gas Wide Ratio 5.72/0.76)	ZF-4	5	L45-R45
S6-650 (GM 3600 Cab/Chassis)	ZF-47	6	L39-R39
S6-66 (9.06/0.83 Ratio) England	ZF-17	6	L38-R38
S6-66 (9.01 Ratio)	ZF-11	6	L40-R40
16S-109 (13.20/1.00 Ratio) England	ZF-9	16	B22
16S-109 (13.42/1.00 Ratio) England	ZF-9	16	B22
6S-650 (Ford Only After January 2007)	ZF-50	6	L39
6S-650 (Ford Only Prior to January 2007)	ZF-45	6	L39
6S-750 (Ford Only Prior to January 2007)	ZF-45	6	L39
6S-750 (Ford Only After January 2007)	ZF-50	6	L39
6S-850 (ZF-ECOLITE, SYNCHROMESH, 6.72/0.78 Ratio)	ZF-46	6	R31
9S-109 (10.25/0.79 Ratio)	ZF-8	9	B22



IMPORTANT: See Safety Information in Section I of the Chelsea Applications catalog HY25-3000/US.

Transmission P.T.O. Driver & Aperatures (Viewed from Rear of Transmission)

L-Left Side R-Right Side B-Bottom Side T-Top Side

For transmission not listed, contact your authorized Chelsea Distributor.

January 2008

S5-42 (5.72/0.76 Ratio)
 S5-42 (7.5 Gas Wide Ratio)
 S5-47 (Gas Wide Ratio 5.72/0.76)

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

45 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.1953" (30.3606MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

45 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.1953" (30.3606MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100XREDX-*3 (1)	125	Eng	79		7-A-187		7170-11X	100XREDX-*3 (1)	125	Eng	79		7-A-187		7170-11X
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ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442KFEDX-*5 (2)	250	Opp	45		7-A-270(P)		7170-4X	442KFEDX-*3 (2)	250	Opp	45		7-A-270		7170-4X
442KLEDX-*5 (3)	250	Opp	58		7-A-270		7170-4X	442KLEDX-*3 (3)	250	Opp	58		7-A-270		7170-4X
442KQEDX-*5 (3)	250	Opp	63		7-A-270		7170-4X	442KQEDX-*3 (3)	250	Opp	63		7-A-270		7170-4X
442KSEDX-*5 (3)	200	Opp	87		7-A-270		7170-4X	442KSEDX-*3 (3)	200	Opp	87		7-A-270		7170-4X
442KUEDX-*5 (3)	195	Opp	103		7-A-270		7170-4X	442KUEDX-*3 (3)	195	Opp	103		7-A-270		7170-4X
442KWEDX-*5 (3)	175	Opp	121		7-A-270		7170-4X	442KWEDX-*3 (3)	175	Opp	121		7-A-270		7170-4X
442KXEDX-*5 (3)	140	Opp	144		7-A-270		7170-4X	442KXEDX-*3 (3)	140	Opp	144		7-A-270		7170-4X
442XFGSX-*5 (4)	250	Opp	53				Furnished	442XFGSX-*3 (4)	250	Opp	53				Furnished
442XLGSX-*5 (5)	250	Opp	68				Furnished	442XLGSX-*3 (5)	250	Opp	68				Furnished
442XQGSX-*5 (5)	225	Opp	74				Furnished	442XQGSX-*3 (5)	225	Opp	74				Furnished
442XRG SX-*5 (5)	225	Opp	85				Furnished	442XRG SX-*3 (5)	225	Opp	85				Furnished
442XSGSX-*5 (5)	200	Opp	102				Furnished	442XSGSX-*3 (5)	200	Opp	102				Furnished
442XUGSX-*5 (5)	195	Opp	121				Furnished	442XUGSX-*3 (5)	195	Opp	121				Furnished
442XWGSX-*5 (5)	175	Opp	142				Furnished	442XWGSX-*3 (5)	175	Opp	142				Furnished
442XXGSX-*5 (5)	140	Opp	168				Furnished	442XXGSX-*3 (5)	140	Opp	168				Furnished

ONE SPEED - FORWARD & REVERSE

340XFEDX-*5 (6)	200	Opp	41	43	7-A-140		7170-4X	340XFEDX-*5 (6)	200	Opp	41	43	7-A-140		7170-4X
					7-A-270								7-A-270		
352XSEDX-*5 (3)	140	Opp	88	114	7-A-270		7170-4X	352XSEDX-*3 (3)	140	Opp	88	114	7-A-270		7170-4X

ONE SPEED - DUAL SHAFT

452XSEDX-*3 (3)	140	Opp	88		7-A-270		7170-4X	452XSEDX-*3 (3)	140	Opp	88		7-A-270		7170-4X
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NOTE: No adapters available for this application.

NOTE: The 100 Series will not mount on the left side due to interference with the reverse idler bulge.

NOTE: Gas tank may prohibit the remote mounting of a hydraulic pump on the Left Hand side.

NOTE: If there is interference with the exhaust system at the right hand aperture, use assembly arrangement "5".

NOTE: Chelsea pump model P16-45 thru-85 can be direct mounted to P.T.O.s. Larger pumps can not be direct mounted due to interference with the transmission.

(1) Gear and Shaft Kit No. KXA-2-P-649
 (2) Input Gear Part No. 5-P-1090
 (3) Input Gear Part No. 5-P-1056
 (4) Input Gear Part No. 5-P-1151
 (5) Input Gear Part No. 5-P-1152
 (6) Input Gear Part No. 5-P-897

S5-42 (6.56 Ratio)

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

44 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.0940" (27.7876MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

44 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.0940" (27.7876MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442GLEQX-*5 (1)	250	Opp	56				Furnished	442GLEQX-*3 (1)	250	Opp	56				Furnished
442GQEQX-*5 (1)	225	Opp	61				Furnished	442GQEQX-*3 (1)	225	Opp	61				Furnished
442GREQX-*5 (1)	225	Opp	70				Furnished	442GREQX-*3 (1)	225	Opp	70				Furnished
442GSEQX-*5 (1)	200	Opp	84				Furnished	442GSEQX-*3 (1)	200	Opp	84				Furnished
447GSEQX-*5 (2)	200	Opp	84				Furnished	447GSEQX-*3 (2)	200	Opp	84				Furnished

ONE SPEED - FORWARD & REVERSE

352GSEQX-*5 (1)	140	Opp	85	110			Furnished	352GSEQX-*3 (1)	140	Opp	85	110			Furnished
-----------------	-----	-----	----	-----	--	--	-----------	-----------------	-----	-----	----	-----	--	--	-----------

ONE SPEED - DUAL SHAFT

452GSEQX-*3 (1)	140	Opp	85				Furnished	452GSEQX-*3 (1)	140	Opp	85				Furnished
-----------------	-----	-----	----	--	--	--	-----------	-----------------	-----	-----	----	--	--	--	-----------

NOTE: "G" mounting includes standard housing and metric stud kit 7170-72X.

(1) Input Gear Part No. 5-P-1058

(2) Input Gear Part No. 5-P-892

January 2008

9S-109 (10.25/0.79 Ratio)

BOTTOM SIDE ONLY**TRANSMISSION GEAR DATA:**

BOT 6-Bolt Opening Gear CENTER of Centerline

22 Teeth - L.H. HELIX

PITCH LINE TO APERTURE FACE:

1.1390" (28.9306MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

447GWFHX-*3 (1) 175 Eng

Furnished

(1) Input Gear Part No. 5-P-900

January 2008

16S-109 (13.20/1.00 Ratio)

16S-109 (13.42/1.00 Ratio)

BOTTOM SIDE ONLY**TRANSMISSION GEAR DATA:**

BOT 6-Bolt Opening Gear CENTER of Centerline

22 Teeth - L.H. HELIX

PITCH LINE TO APERTURE FACE:

1.0290" (26.1366MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

BOTTOM Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

447GWFGX-*3 (1) 175 Eng

Furnished

(1) Input Gear Part No. 5-P-901

S6-66 (9.01 Ratio)

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

40 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.0550" (26.7970MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

40 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.0550" (26.7970MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			
ONE SPEED - TWO GEAR - MECHANICAL SHIFT															
442GLFKX-*5 (1)	250	Opp	59				Furnished	442GLFKX-*3 (1)	250	Opp	59				Furnished
442GQFKX-*5 (1)	225	Opp	64				Furnished	442GQFKX-*3 (1)	225	Opp	64				Furnished
442GRFKX-*5 (1)	225	Opp	74				Furnished	442GRFKX-*3 (1)	225	Opp	74				Furnished
442GSFKX-*5 (1)	200	Opp	88				Furnished	442GSFKX-*3 (1)	200	Opp	88				Furnished
442GUFKX-*5 (1)	195	Opp	105				Furnished	442GUFKX-*3 (1)	195	Opp	105				Furnished
442GWFKX-*5 (1)	175	Opp	123				Furnished	442GWFKX-*3 (1)	175	Opp	123				Furnished
442GXFKX-*5 (1)	140	Opp	146				Furnished	442GXFKX-*3 (1)	140	Opp	146				Furnished
ONE SPEED - FORWARD & REVERSE															
352GSFKX-*5 (1)	140	Opp	89	115			Furnished	352GSFKX-*3 (1)	140	Opp	89	115			Furnished
ONE SPEED - DUAL SHAFT															
452GSFKX-*3 (1)	140	Opp	89				Furnished	452GSFKX-*3 (1)	140	Opp	89				Furnished

(1) Input Gear Part No. 5-P-1067

January 2008

S5-47 (Diesel Close Ratio 5.08/0.77)

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

43 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.9800" (24.8920MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

43 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

.9800" (24.8920MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - SINGLE GEAR - MECHANICAL SHIFT

100KREDX-*3 (1) 125 Eng 85 7-A-062 8000-13X

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442KFEDX-*5 (2)	250	Opp	48		7-A-165		7170-3X	442KFEDX-*3 (2)	250	Opp	48		7-A-165		7170-3X
442KLEDX-*5 (3)	250	Opp	63		7-A-165		7170-3X	442KLEDX-*3 (3)	250	Opp	63		7-A-165		7170-3X
442KQEDX-*5 (3)	225	Opp	67		7-A-165		7170-3X	442KQEDX-*3 (3)	225	Opp	67		7-A-165		7170-3X
442KREDX-*5 (3)	225	Opp	78		7-A-165		7170-3X	442KREDX-*3 (3)	225	Opp	78		7-A-165		7170-3X
442KSEDX-*5 (3)	200	Opp	93		7-A-165		7170-3X	442KSEDX-*3 (3)	200	Opp	93		7-A-165		7170-3X
442KUEDX-*5 (3)	195	Opp	111		7-A-165		7170-3X	442KUEDX-*3 (3)	195	Opp	111		7-A-165		7170-3X
442KWEDX-*5 (3)	175	Opp	130		7-A-165		7170-3X	442KWEDX-*3 (3)	175	Opp	130		7-A-165		7170-3X
442KXEDX-*5 (3)	140	Opp	154		7-A-165		7170-3X	442KXEDX-*3 (3)	140	Opp	154		7-A-165		7170-3X
442LFGSX-*5 (4)	250	Opp	57		7-A-093		328170-95X	442LFGSX-*3 (4)	250	Opp	57		7-A-093		328170-95X
442LLGSX-*5 (5)	250	Opp	73		7-A-093		328170-95X	442LLGSX-*3 (5)	250	Opp	73		7-A-093		328170-95X
442LQGSX-*5 (5)	225	Opp	79		7-A-093		328170-95X	442LQGSX-*3 (5)	225	Opp	79		7-A-093		328170-95X
442LRGSX-*5 (5)	225	Opp	92		7-A-093		328170-95X	442LRGSX-*3 (5)	225	Opp	92		7-A-093		328170-95X
442LSGSX-*5 (5)	200	Opp	109		7-A-093		328170-95X	442LSGSX-*3 (5)	200	Opp	109		7-A-093		328170-95X
442LUGSX-*5 (5)	195	Opp	130		7-A-093		328170-95X	442LUGSX-*3 (5)	195	Opp	130		7-A-093		328170-95X
442LWGSX-*5 (5)	175	Opp	153		7-A-093		328170-95X	442LWGSX-*3 (5)	175	Opp	153		7-A-093		328170-95X
442LXGSX-*5 (5)	140	Opp	181		7-A-093		328170-95X	442LXGSX-*3 (5)	140	Opp	181		7-A-093		328170-95X

ONE SPEED - FORWARD & REVERSE

340KFEDX-*5 (6)	200	Opp	44	46	7-A-165 (7)		7170-3X	340KFEDX-*5 (6)	200	Opp	44	46	7-A-165		7170-3X
352KSEDX-*5 (3)	140	Opp	94	122	7-A-165		7170-3X	352KSEDX-*3 (3)	140	Opp	94	122	7-A-165		7170-3X
352LSGSX-*5 (5)	140	Opp	110	143	7-A-093		328170-95X	352LSGSX-*3 (5)	140	Opp	110	143	7-A-093		328170-95X

ONE SPEED - DUAL SHAFT

452KSEDX-*3 (3)	140	Opp	93		7-A-165		7170-3X	452KSEDX-*3 (3)	140	Opp	94		7-A-165		7170-3X
452LSGSX-*3 (5)	140	Opp	110		7-A-093		328170-95X	452LSGSX-*3 (5)	140	Opp	110		7-A-093		328170-95X

GEARED ADAPTERS

626KEDX-4HK					7-A-165		7170-3X	626KEDX-3HK					7-A-165		7170-3X
630KEDX-4HK					7-A-165		7170-3X	630KEDX-3HK					7-A-165		7170-3X
645KEDX-4HK					7-A-165		7170-3X	645KEDX-3HK					7-A-165		7170-3X

NOTE: Chelsea Pump Models P16-45, -65, -85, will Direct Mount to the P.T.O. and not Interfere with the Transmission.**NOTE:** On Right Side, if there is Interference with the Exhaust, use 3 Assembly.

(1) Gear and Shaft Kit No. KXA-2-P-649

(2) Input Gear Part No. 5-P-1090

(3) Input Gear Part No. 5-P-1056

(4) Input Gear Part No. 5-P-1151

(5) Input Gear Part No. 5-P-1152

(6) Input Gear Part No. 5-P-897

(7) Filler block furnished with P.T.O. but not required

January 2008

S5-42 (4.65/0.77 Ratio)

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

43 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.3110" (33.2994MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

43 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.3110" (33.2994MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442LFEDX-*3 (1)	250	Opp	48		7-A-032		7170-78X	442LFEDX-*3 (1)	250	Opp	48		7-A-032		7170-78X
442LLEDX-*3 (2)	250	Opp	63		7-A-032		7170-78X	442LLEDX-*3 (2)	250	Opp	63		7-A-032		7170-78X
442LQEDX-*3 (2)	225	Opp	67		7-A-032		7170-78X	442LQEDX-*3 (2)	225	Opp	67		7-A-032		7170-78X
442LREDX-*3 (2)	225	Opp	78		7-A-032		7170-78X	442LREDX-*3 (2)	225	Opp	78		7-A-032		7170-78X
442LSEDX-*3 (2)	200	Opp	93		7-A-032		7170-78X	442LSEDX-*3 (2)	200	Opp	93		7-A-032		7170-78X
442LUEDX-*3 (2)	195	Opp	111		7-A-032		7170-78X	442LUEDX-*3 (2)	195	Opp	111		7-A-032		7170-78X
442LWEDX-*3 (2)	175	Opp	130		7-A-032		7170-78X	442LWEDX-*3 (2)	175	Opp	130		7-A-032		7170-78X
442LXEDX-*3 (2)	140	Opp	154		7-A-032		7170-78X	442LXEDX-*3 (2)	140	Opp	154		7-A-032		7170-78X

(1) Input Gear Part No. 5-P-1090

(2) Input Gear Part No. 5-P-1056

S6-66 (9.06/0.83 Ratio)

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

38 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.0550" (26.7970MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

38 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.0550" (26.7970MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442GLFKX-*3 (1)	250	Opp	68				Furnished	442GLFKX-*3 (1)	250	Opp	68				Furnished
442GQFKX-*3 (1)	225	Opp	73				Furnished	442GQFKX-*3 (1)	225	Opp	73				Furnished
442GRFKX-*3 (1)	225	Opp	85				Furnished	442GRFKX-*3 (1)	225	Opp	85				Furnished
442GSFKX-*3 (1)	200	Opp	101				Furnished	442GSFKX-*3 (1)	200	Opp	101				Furnished
442GUFKX-*3 (1)	195	Opp	120				Furnished	442GUFKX-*3 (1)	195	Opp	120				Furnished
442GWFKX-*3 (1)	175	Opp	141				Furnished	442GWFKX-*3 (1)	175	Opp	141				Furnished
442GXFKX-*3 (1)	140	Opp	167				Furnished	442GXFKX-*3 (1)	140	Opp	167				Furnished

(1) Input Gear Part No. 5-P-1067

S6-650 (Ford only Prior to January 2007)
 6S-650 (Ford only Prior to January 2007)
 6S-750 (Ford only Prior to January 2007)

LEFT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

39 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

0.9330" (23.6982MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442XLHYX-*5 (1)	250	Opp	65				Furnished
442XQHYX-*5 (1)	225	Opp	70				Furnished
442XRHYX-*5 (1)	225	Opp	81				Furnished
442XSHYX-*5 (1)	200	Opp	96				Furnished
442XUHYX-*5 (1)	195	Opp	115				Furnished
442XWHYX-*5 (1)	175	Opp	135				Furnished
442XXHYX-*5 (1)	140	Opp	160				Furnished

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

236XDHYX-*5 (1)	250	Opp	53				Furnished
236XKHYX-*5 (1)	250	Opp	67				Furnished
236XQHYX-*5 (1)	250	Opp	91				Furnished
236XUHYX-*5 (1)	225	Opp	104				Furnished

ONE SPEED - FORWARD & REVERSE

340XFHYX-*5 (2)	200	Opp	46	48			Furnished
352XSHYX-*5 (1)	140	Opp	98	126			Furnished

ONE SPEED - DUAL SHAFT

452XSHYX-*5 (1)	140	Opp	98				Furnished
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GEARED ADAPTERS

626XHYX-*4JB							Furnished
630XHYX-*4JB	Eng						Furnished
645XHYX-*4JB							Furnished

NOTE: A "5" assembly is shown here, but other assembly arrangements may work better depending on the chassis setup, whether or not a direct mount pump is to be used, and whether or not a geared adapter is to be used. Chelsea P16-45 and -65 pumps can be direct mounted rearward if the P.T.O. is a "3" assembly (bulge up), uses the XK pump flange, and is the L,R,S or U ratio. All other combinations will have interference problems. Chelsea P16-45 and -65 pumps can be direct mounted forward if a "4" assembly is used (bulge down), an XK pump flange is used, and is the L,R,S, or U ratio. All other combinations will have interference problems. Other ratios, assemblies, pump flanges and pumps may work if a geared adapter is used, but the P.T.O. may be the lowest component on the truck. It would be vulnerable to damage.

NOTE: The 236 series cannot be used on this transmission unless the truck is equipped with an auxiliary air supply.

NOTE: If a 626, 630 or 645 series geared adapter is used, the P.T.O. input gear is the 5-P-1244 JB gear, and the HY gear is used in the adapter. If a 626XHY, 630XHY or 645XHY series geared adapter is going to be used, the P.T.O. must be a deep mount (ex: 442Z*JB). Use a 7-A-125 filler block, gaskets to establish .006" -.012" backlash, and a 328170-76X stud kit to mount the P.T.O. to the adapter. Be aware that using a geared adapter will change the direction of P.T.O. rotation, but will not affect the speeds shown above.

NOTE: Ford Super Duty MY 2005 applications with the 6.8L gas engine may have P.T.O. to engine exhaust pipe interference problems. It is recommended that you use an assembly arrangement "3". This still leaves the P.T.O. close to the engine exhaust pipe. Route cable and wiring away from the exhaust pipe. Heat may be an issue for P.T.O. operation due to the proximity of the engine exhaust pipe.

NOTE: Refer to Ford Body Builders Book (Power Take-Off Applications SEIC/PTO) for information on removal of a tab on the M60D transmission case. This will help in direct mount pump installations.

(1) Input Gear Part No. 5-P-1237
 (2) Input Gear Part No. 5-P-1245

6S-850 (6.72/0.78 Ratio)

REAR SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

REAR 4-Bolt Opening Gear REAR of Centerline

0 Teeth -

PITCH LINE TO APERTURE FACE:**TRANSMISSION GEAR DATA:**

R.H. 6-Bolt Opening Gear FORWARD of Centerline

31 Teeth - HELIX

PITCH LINE TO APERTURE FACE:

2.0290" (51.5366MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

REAR Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

290XQJJX-*3 (1) 180 Opp 104 7-A-125 7170-79X

REAR MOUNT & THRUSHAFT

522RTAAX-*	258	Eng	71
522RVAAX-*	258	Eng	90

(1) Input Gear Part No. 5-P-1258

S6-650 (GM 3600 Cab/Chassis)

LEFT SIDE ONLY

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

L.H. 6-Bolt Opening Gear FORWARD of Centerline

39 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

0.9330" (23.6982MM)

TRANSMISSION GEAR DATA:

R.H. 6-Bolt Opening Gear FORWARD of Centerline

39 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

0.9330" (23.6982MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	RIGHT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442XLHYX-*5 (1)	250	Opp	65				Furnished	442XLHYX-*5 (1)	250	Opp	65				Furnished
442XQHYX-*5 (1)	225	Opp	70				Furnished	442XQHYX-*5 (1)	225	Opp	70				Furnished
442XRHYX-*5 (1)	225	Opp	81				Furnished	442XRHYX-*5 (1)	225	Opp	81				Furnished
442XSHYX-*5 (1)	200	Opp	96				Furnished	442XSHYX-*5 (1)	200	Opp	96				Furnished
442XUHYX-*5 (1)	195	Opp	115				Furnished	442XUHYX-*5 (1)	195	Opp	115				Furnished
442XWHYX-*5 (1)	175	Opp	135				Furnished	442XWHYX-*5 (1)	175	Opp	135				Furnished
442XXHYX-*5 (1)	140	Opp	160				Furnished	442XXHYX-*5 (1)	140	Opp	160				Furnished

ONE SPEED - FORWARD & REVERSE

340XFHYX-*5 (2)	200	Opp	46	48			Furnished								
352XSHYX-*5 (1)	140	Opp	98	126			Furnished								

ONE SPEED - DUAL SHAFT

452XSHYX-*5 (1)	140	Opp	98				Furnished								
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GEARED ADAPTERS

626XHYX-*4JB (1)	Eng						Furnished								
630XHYX-*4J (1)	Eng						Furnished								
645XHYX-*4JB (1)	Eng						Furnished								

CAUTION: It is required by GM Truck that the 442 Series when mounted on the right side of the transmission must have the direct mount pump, with hard tubing coming out of the rear of the pump, up and over the transmission output shaft, and a heat shield must be installed to cover the P.T.O. and the pump. Order Kit number 329333X for complete pump and heat shield installation parts.

NOTE: Only 442 Series with the CABLE SHIFT option "W" and a SAE "A" 2 bolt output flange "RC" must be used on right side applications. The 442 Series must be "Shaft High" #5 assembly arrangement due to exhaust pipe interference. "RC" field conversion kit number 328591-112X ("XD" to "RC")

NOTE: There is a left and right PTO opening for GM/ ZF S6-650, the LEFT side aperture can be used in 4 x 2 vehicles. There is a interference on the 4 x 4 vehicles due to the front wheel driveshaft on the LEFT side.

NOTE: The 626 and 645 Series adapters will mount to this transmission (LEFT Side Only) with the 5-P-1237 gear in the adapter and the 5-P-1244 gear in the 442 Series. The 442 Series must use a deep mount housing, stud kit 328170-76X and 7-A-125 spacer to mount to the adapter.

NOTE: Parker P16-45/65 pumps can be mounted rearward and direct to the 442 series on the LEFT side if the P.T.O. is a 3 assembly, (bulge up), has the XK or RC flange, and is the F, L, R, S, or U ratio.

NOTE: Wiring harness assembly number 329333-4X can be used on all applications to control engine speed. See owner's manual HY25-1135-M1/US for complete instructions.

(1) Input Gear Part No. 5-P-1237

(2) Input Gear Part No. 5-P-1245

6S-650 (Ford only After January 2007)
6S-750 (Ford only After January 2007)

LEFT SIDE ONLY**TRANSMISSION GEAR DATA:**

L.H. 6-Bolt Opening Gear FORWARD of Centerline

39 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

0.9330" (23.6982MM)

Caution: Application Approval Required for P.T.O. Output Shaft Speeds Above 2500 R.P.M.

LEFT Side P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit	P.T.O. Model	Inter. Torq.	Dir. Rot.	Engine %		Filler Block	Adapter Assy.	Stud Kit
			Hi	Rev							Hi	Rev			

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442XLKXX-*5 (1)	250	Opp	65					Furnished							
442XQKXX-*5 (1)	225	Opp	70					Furnished							
442XRKXX-*5 (1)	225	Opp	81					Furnished							
442XSKXX-*5 (1)	200	Opp	96					Furnished							
442XUKXX-*5 (1)	195	Opp	115					Furnished							
442XWKXX-*5 (1)	175	Opp	135					Furnished							
442XXKXX-*5 (1)	140	Opp	160					Furnished							

ONE SPEED - TWO GEAR - POWERSHIFT (AIR)

236XDKXX-*5 (1)	250	Opp	53					Furnished							
236XKKXX-*5 (1)	250	Opp	67					Furnished							
236XQKXX-*5 (1)	250	Opp	91					Furnished							
236XUKXX-*5 (1)	225	Opp	104					Furnished							

ONE SPEED - FORWARD & REVERSE

352XSKXX-*5 (1)	140	Opp	98	126				Furnished							
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ONE SPEED - DUAL SHAFT

452XSKXX-*5 (1)	140	Opp	98					Furnished							
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GEARED ADAPTERS

626KXX-*4KY (1)		Eng						Furnished							
630KXX-*4KY (1)		Eng						Furnished							
645KXX-*4KY (1)		Eng						Furnished							

CAUTION: This ZF transmission model is the same as the model in Ford MY05 & MY06 trucks except for the change in the Pressure Angle (PA) of the 39 tooth P.T.O. transmission drive gear. The PA was changed from 20 degrees to 22 degrees. P.T.O. models from ZF-45 ("HY" Input Gear) application page "CAN NOT" be used on this transmission.

NOTE: Refer to Ford Body Builders Book (Power Take-Off Installations) for information on removal of a tab on the M60D transmission case. This will help in direct mount pump installations.

NOTE: A "5" assembly is shown here, but other assembly arrangements may work better depending on the chassis setup, whether or not a direct mount pump is to be used, and whether or not a geared adapter is to be used. Chelsea P16-45 and -65 pumps can be direct mounted rearward if the P.T.O. is a "3" assembly (bulge up), uses the XK pump flange, and is the L,R,S or U ratio. All other combinations will have interference problems. Chelsea P16-45 and -65 pumps can be direct mounted forward if a "4" assembly is used (bulge down), an XK pump flange is used, and is the L,R,S, or U ratio. All other combinations will have interference problems. Other ratios, assemblies, pump flanges and pumps may work if a geared adapter is used, but the P.T.O. may be the lowest component on the truck. It would be vulnerable to damage.

NOTE: The 236 Series cannot be used on this transmission unless the truck is equipped with an auxiliary air supply.

NOTE: If a 626, 630 or 645 Series geared adapter is used, the P.T.O. input gear is the 5-P-1412, KY gear, and the 5-P-1411, KX gear is used in the adapter. If a 626KXX, 630KXX or 645KXX Series geared adapter is going to be used, the P.T.O. must be a deep mount (ex: 442Z*KY). Use a 7-A-125 filler block with gaskets to establish .006" -.012" backlash, and a 328170-76X stud kit to mount the P.T.O. to the adapter. Be aware that using a geared adapter will change the direction of P.T.O. rotation, but will not affect the speeds shown above.

NOTE: Refer to Ford Body Builders Book (Power Take-Off Applications SEIC/PTO) for information on removal of a tab on the M60D transmission case. This will help in direct mount pump installations.

(1) Input Gear Part No. 5-P-1411

January 2008

El Poder de Mover

 Chelsea	4.22.14	Parker Hannifin Corporation Chelsea Products Division Olive Branch, MS 38654 USA
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Notes

Lined area for notes.

Offer of Sale

The items described in this document and other documents or descriptions provided by Parker Hannifin Corporation, its subsidiaries and its authorized distributors are hereby offered for sale at prices to be established by Parker Hannifin Corporation, its subsidiaries and its authorized distributors. This offer and its acceptance by any customer ("Buyer") shall be governed by all of the following Terms and Conditions. Buyer's order for any such items, when communicated to Parker Hannifin Corporation, its subsidiary or an authorized distributor ("Seller") verbally or in writing, shall constitute acceptance of this offer.

1. Terms and Conditions of Sale: All descriptions, quotations, proposals, offers, acknowledgments, acceptances and sales of Seller's products are subject to and shall be governed exclusively by the terms and conditions stated herein. Buyer's acceptance of any offer to sell is limited to these terms and conditions. Any terms or conditions in addition to, or inconsistent with those stated herein, proposed by Buyer in any acceptance of an offer by Seller, are hereby objected to. No such additional, different or inconsistent terms and conditions shall become part of the contract between Buyer and Seller unless expressly accepted in writing by Seller. Seller's acceptance of any offer to purchase by Buyer is expressly conditional upon Buyer's assent to all the terms and conditions stated herein, including any terms in addition to, or inconsistent with those contained in Buyer's offer. Acceptance of Seller's products shall in all events constitute such assent.

2. Payment: Payment shall be made by Buyer net 30 days from the date of delivery of the items purchased hereunder. Amounts not timely paid shall bear interest at the maximum rate permitted by law for each month or portion thereof that the Buyer is late in making payment. Any claims by Buyer for omissions or shortages in a shipment shall be waived unless Seller receives notice thereof within 30 days after Buyer's receipt of the shipment.

3. Delivery: Unless otherwise provided on the face hereof, delivery shall be made F.O.B. Seller's plant. Regardless of the method of delivery, however, risk of loss shall pass to Buyer upon Seller's delivery to a carrier. Any delivery dates shown are approximate only and Seller shall have no liability for any delays in delivery.

4. Warranty: Seller warrants that the items sold hereunder shall be free from defects in material or workmanship for a period of:

(A) All Power Take-Off units one (1) year from date of installation.

(B) Except 267, 277, 278, 242, 244, 246, 250, 251 and 859 series two (2) years from date of installation. **THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO ITEMS PROVIDED HEREUNDER. SELLER MAKES NO OTHER WARRANTY, GUARANTEE, OR REPRESENTATION OF ANY KIND WHATSOEVER. ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO, MERCHANTABILITY AND FITNESS FOR PURPOSE, WHETHER EXPRESS, IMPLIED, OR ARISING BY OPERATION OF LAW, TRADE USAGE, OR COURSE OF DEALING ARE HEREBY DISCLAIMED. NOTWITHSTANDING THE FOREGOING, THERE ARE NO WARRANTIES WHATSOEVER ON ITEMS BUILT OR ACQUIRED WHOLLY OR PARTIALLY, TO BUYER'S DESIGNS OR SPECIFICATIONS.**

5. Limitation Of Remedy: SELLER'S LIABILITY ARISING FROM OR IN ANY WAY CONNECTED WITH THE ITEMS SOLD OR THIS CONTRACT SHALL BE LIMITED EXCLUSIVELY TO REPAIR OR REPLACEMENT OF THE ITEMS SOLD OR REFUND OF THE PURCHASE PRICE PAID BY BUYER, AT SELLER'S SOLE OPTION. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY KIND OR NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS ARISING FROM OR IN ANY WAY CONNECTED WITH THIS AGREEMENT OR ITEMS SOLD HEREUNDER, WHETHER ALLEGED TO ARISE FROM BREACH OF CONTRACT, EXPRESS OR IMPLIED WARRANTY, OR IN TORT, INCLUDING WITHOUT LIMITATION, NEGLIGENCE, FAILURE TO WARN OR STRICT LIABILITY.

6. Changes, Reschedules and Cancellations: Buyer may request to modify the designs or specifications for the items sold hereunder as well as the quantities and delivery dates thereof, or may request to cancel all or part of this order, however, no such requested modification or cancellation shall become part of the contract between Buyer and Seller unless accepted by Seller in a written amendment to this Agreement. Acceptance of any such requested modification or cancellation shall be at Seller's discretion, and shall be upon such terms and conditions as Seller may require.

7. Special Tooling: A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture items sold pursuant to this contract. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the items sold hereunder, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid

by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

8. Buyer's Property: Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, may be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer placing an order for the items which are manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

9. Taxes: Unless otherwise indicated on the face hereof, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of the items sold hereunder. If any such taxes must be paid by Seller or if Seller is liable for the collection of such tax, the amount thereof shall be in addition to the amounts for the items sold. Buyer agrees to pay all such taxes or to reimburse Seller therefore upon receipt of its invoice. If Buyer claims exemption from any sales, use or other tax imposed by any taxing authority, Buyer shall save Seller harmless from and against any such tax, together with any interest or penalties thereon which may be assessed if the items are held to be taxable.

10. Indemnity For Infringement of Intellectual Property Rights: Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Part 10. Seller will defend and indemnify Buyer against allegations of infringement of U.S. Patents, U.S. Trademarks, copyrights, trade dress and trade secrets (hereinafter 'Intellectual Property Rights'). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that an item sold pursuant to this contract infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If an item sold hereunder is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using said item, replace or modify said item so as to make it noninfringing, or offer to accept return of said item and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to items delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any item sold hereunder. The foregoing provisions of this Part 10 shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

If a claim is based on information provided by Buyer or if the design for an item delivered hereunder is specified in whole or in part by Buyer, Buyer shall defend and indemnify Seller for all costs, expenses or judgments resulting from any claim that such item infringes any patent, trademark, copyright, trade dress, trade secret or any similar right.

11. Force Majeure: Seller does not assume the risk of and shall not be liable for delay or failure to perform any of Seller's obligations by reason of circumstances beyond the reasonable control of Seller (hereinafter 'Events of Force Majeure'). Events of Force Majeure shall include without limitation, accidents, acts of God, strikes or labor disputes, acts, laws, rules or regulations of any government or government agency, fires, floods, delays or failures in delivery of carriers or suppliers, shortages of materials and any other cause beyond Seller's control.

12. Entire Agreement/Governing Law: The terms and conditions set forth herein, together with any amendments, modifications and any different terms or conditions expressly accepted by Seller in writing, shall constitute the entire Agreement concerning the items sold, and there are no oral or other representations or agreements which pertain thereto. This Agreement shall be governed in all respects by the law of the State of Ohio. No actions arising out of the sale of the items sold hereunder or this Agreement may be brought by either party more than two (2) years after the cause of action accrues.

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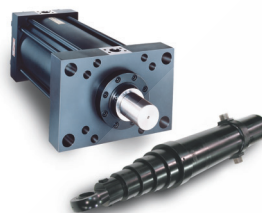
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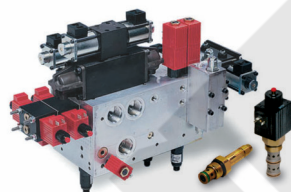
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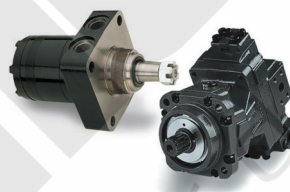
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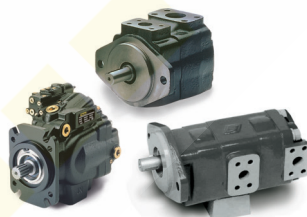
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