

# **SERVICE TOOLS and EQUIPMENT**

*for*

*Authorized Ford Tractor  
Equipment Dealers*



Ford Tractor Operators  
Ford Motor Company

# CONTENTS

	Page
TOOL CLASSIFICATION . . . . .	3
TOOL USAGE CODE . . . . .	4
TRACTOR SERVICE TOOLS . . . . .	5
ENGINE – Essential . . . . .	5
ENGINE – Desirable . . . . .	6
FUEL (Diesel) – Essential. . . . .	8
FUEL (Diesel) – Desirable . . . . .	8
ELECTRICAL – Essential . . . . .	10
CLUTCH – Essential . . . . .	10
CLUTCH – Desirable. . . . .	11
TRANSMISSION – Essential. . . . .	12
REAR AXLE – Essential . . . . .	13
REAR AXLE – Desirable . . . . .	15
HYDRAULIC LIFT – Essential . . . . .	15
HYDRAULIC LIFT – Desirable. . . . .	19
STEERING and FRONT AXLE – Essential . . . . .	20
STEERING and FRONT AXLE – Desirable. . . . .	20
EQUIPMENT SERVICE TOOLS . . . . .	21
EQUIPMENT – Essential . . . . .	21
GENERAL PURPOSE SERVICE TOOLS . . . . .	22
GENERAL PURPOSE – Essential . . . . .	22
GENERAL PURPOSE – Desirable . . . . .	26
PRESSURE CHECK EQUIPMENT . . . . .	31
UNIVERSAL PRESSURE CHECK KITS . . . . .	39
COMBINE SPECIAL TOOLS . . . . .	40

# NUMERICAL INDEX

Tool No.	Page No.	Tool No.	Page No.	Tool No.	Page No.	Tool No.	Page No.
0001	4	1222	28	1345	32	1510	25
0003	45,48	1225	27	1361	47	1511	25
0013	45,48	1226	27	1362	47	1512	25
0019	47	1234	27	1363	47	1513	25
0020	47	1235	27	1364	47	1514	25
0022	47	1237	3	1365	47	1515	25
0026	45,47	1238	14	1366	47	1527	14
0027	45,48	1239	15	1367	47	1542	19
0030	47	1240	47	1368	47	1543	19
0031	45,48	1241	46	1369	47	1544	19
0033	47	1242	47	1370	47	1546	19
0035	40,45,48	1246	26	1371	47	1547	19
0037	45,48	1249	26	1372	47	1548	14
0039	45,48	1251	9	1373	47	1549	14
0050	4	1255	3	1392	45	1550	14
0074	14	1261	27	1409	15	1551	14
0092	47	1262	11	1411	29	1552	14
0093	43	1263	11	1412	29	1557	22
0113	46	1264	22	1418	22	1566	29
0119	45	1267	11,12	1419	9	1579	21
0166	14	1268	11	1420	9	1580	21
0172	34	1269	11	1421	19	1581	12
0173	34	1270	11	1423	19	1582	12
0174	34	1271	11	1424	19	1583	21
0175	34	1272	11	1425	19	1584	3
0176	34	1273	11	1426	19	1585	3
0177	34	1274	11	1427	19	1586	5
0178	34	1275	11	1428	19	1587	5
0179	34	1276	11	1429	19	1588	8
0265	47	1277	11	1430	19	1589	5
0273	8	1279	11	1431	19	1591	20
0398	6	1280	11,12	1432	19	1592	20
0417	34	1281	11,12	1435	19	1594	12
0700	48	1282	11	1436	8	1595	12
0705	45,48	1283	11	1437	9	1596	12
0707	45,48	1284	11	1440	3	1718	8
0715	45,48	1285	11	1442	3	1719	8
0717	45,48	1287	11	1443	3	1720	8
0719	45,48	1288	11	1444	3	1721	8
0721	45,48	1289	11	1446	28	1727	8
0722	45,48	1290	13	1447	3	1730	8
0723	45,48	1291	13	1451	10	1731	8
0724	45,48	1292	13	1452	10	1742	8
0725	45,48	1293	13	1453	10	1743	8
0739	45,48	1296	26	1454	10	1765	31
0741	45,48	1298	13	1455	10	2020	6
0742	45,48	1299	22	1456	10	2021	8
0743	45,48	1300	10	1457	10	2026	46,48
0745	45,48	1301	3	1458	10	2027	46,48
0746	45,48	1302	17	1459	10	2028	46,48
0747	40,45,48	1303	15	1461	10	2100	45,48
0750	45,48	1304	29	1462	10	2101	48
0751	45,48	1305	25	1463	10	2102	48
0752	45,48	1306	25	1464	10	2103	45,48
0753	45,48	1310	14	1465	10	2105	45,48
0755	49	1312	14	1466	10	2106	45,48
0763	47	1319	32	1467	10	2119	19
0766	47	1320	32	1468	10	2122	19
0768	47	1321	25	1469	10	2123	19
0770	47	1322	27	1470	10	2127	6
0785	47	1323	27	1471	10	2128	27
0786	47	1324	27	1472	10	2132	17
0835	46	1326	25	1476	29	2134	3
0838	45,48	1327	25	1477	29	2136	6
0840	45,48	1330	28	1478	33	2137	26
0855	34	1331	28	1491	6	2139	26
1102	47	1332	28	1492	6	2141	19
1103	47	1333	28	1493	6	2142	11
1104	47	1334	28	1499	26,27	2143	11
1186	12	1335	28	1503	19	2145	13
1193	11	1337	45	1504	19	2146	6
1213	47	1338	25	1505	19	2148	14
1214	47	1339	25	1506	19	2150	25
1221	14	1343	25	1509	25	2151	28

## NUMERICAL INDEX (Cont.)

Tool No.	Page No.	Tool No.	Page No.	Tool No.	Page No.	Tool No.	Page No.
2152	25	6016	18	7560	26,45	9543	4
2153	28	6017	17	7653	39	9544	4
2154	6	6025	40	7655	37	9545	4
2156	6	6030	37,40	7656	14	9546	4
2159	6	6046	18	7657	14	9547	4
2162	6	6047	18	7778	5,22	9548	4
2170	49	6048	18	7779	39	9553	4
2183	19	6049	18	7780	39	9554	36
2184	19	6090	40	7983	20	9563	4
2185	10	6209	26	7984	20	9564	35
2186	10	6211	26,46	8124	9	9565	35
2187	10	6325	40	8126	9	9567	35,36
2191	25	6359	45,48	8167	24	9569	4
2196	26	6386	34	8168	24	9573	4
2197	26	6387	34	8169	24	9575	4
2210	47	6388	34	8170	24	9578	4
2287	40	6389	34	8171	24	9579	4
2288	40	6390	34	8174	24	9580	4
2336	44	6504	47	8175	24	9581	4
2342	34	6578	30	8176	24	9582	4
2343	34	6579	30,46	8180	23	9583	4
2362	45,48	6580	30,46	8181	23	9600	39
2366	48	6581	30,46	8184	23	9602	39
2399	30	6586	30,46	8186	23	9603	39
2406	31	6603	23	8189	24	9604	39
2412	30	6604	23	8195	23	9608	39
2413	30,46	6626	37	8196	23	9609	39
2414	30,46	6637	37	8197	23	9613	39
2415	30	6729	46	8198	23	9614	39
2420	31	6836	34	8199	23	9630	39
2422	33	6837	34	8200	23	9640	39
2430	37	6838	34	8205	23	9650	39
2475	37	6839	34	8217	23	9660	39
2480	37	6840	34	8218	23	9661	30
2481	37	6841	34	9155	4	9662	30
2482	37	6842	34	9158	4	9663	41
2504	46	6843	34	9159	4	9669	7
2512	33	6844	34	9161	4	10055	38
2524	16	6845	34	9162	35,36	10810	38
2525	15	6846	34	9163	35,36	11902	38
2526	16	6847	34	9165	4	12090	38
2527	17	6848	34	9168	4	15977-BK2	38
2528	17	6944	45	9170	4	15988	38
2529	16	6962	31	9189	35,36	15997	38
2639	35,36	6981	34	9190	35,36	15998	38
2677	24	7099	45	9196	35,36	36069	38
2680	11	7167	20	9198	35,36	36070	38
2700	14	7170	16	9207	35,36	36078	38
2706	12	7171	16	9208	35,36	42136	38
2708	41	7172	16	9210	35,36	42139-BL2	38
2752	24	7173	15	9211	35,36	42140	38
2757	4	7180	17	9212	35,36	42142	38
2758	4	7182	15	9223	4	42144	38
2771	3	7185	16	9224	4	42146	38
2825	37	7187	12	9472	35,36	42148-BL2	38
2829	12	7189	16	9473	35,36	42149	38
2865	40	7194	16	9500	33	42150	38
2910	31	7209	29	9506	35,36	50810-BL2	38
3619	39	7246	20	9507	35,36	50817	38
FT4000	7	7247	20	9510	35,36	50819	38
4036	12	7263	45,48	9514	32	60293	38
4082	14	7315	6	9515	32	60296	38
4178	3	7351	49	9516	35,36	BTC-100-117	41
4179	3	7352	49	9518	13	BTC-100-118	41
4487	45	7353	49	9521	35,36	BTC-100-203	41
4523	44	7354	49	9523	35,36	201265	38
4524	44	7402	15	9526	35,36	201266	38
4548	40	7429	12	9527	35,36	201292-BL2	38
4549	40	7445	18	9530	35,36	201332	38
6007	43	7446	18	9531	35,36	201354	38
6010	22	7497	30	9534	35,36	201357	38
6011	6	7529	24	9537	35,36	201387	38
6012	9	7536	5	9539	7	201501	38
6013	6	7537	5	9540	3		

# FOREWORD

This catalog lists the recommended service tools available for servicing all Ford Tractors and Equipment since 1948, and supersedes all preceding editions.

The tools listed are arranged in sections that correspond with major areas of the equipment, providing quick identification of their intended application.

Tractor and Implement Operations (U.S.) cooperates with the various specialized tool companies in coordinating the design and development of the tools. Thus, we are able to provide you, the dealer, with high quality tools at the lowest possible cost.

Using these tools will enhance the quality of service and increase the rate at which service can be performed, resulting in greater customer satisfaction and a strengthened customer-dealer relationship.

Use the Common Tool Order Form, FTO 8091, to order tools listed in this catalog and forward to your District office. Do not send orders direct to the tool Manufacturer. This procedure will expedite tool shipment, while allowing you to charge them to your open parts account. In most cases, the deferred payment plan is available when requested.

ESSENTIAL SERVICE TOOLS

**ENGINE**


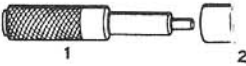
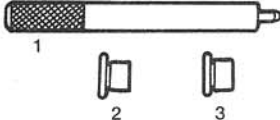

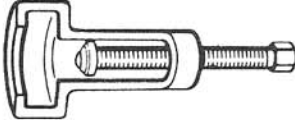
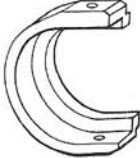

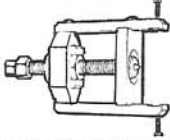

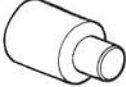
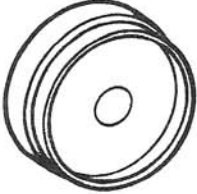

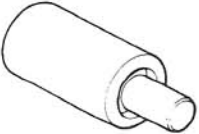
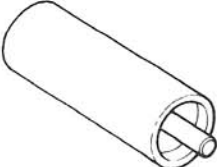
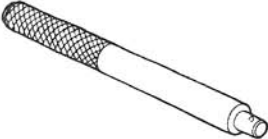

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	9540	REMOVER — VALVE GUIDE LOCK	8N	
	1447 4178 4179	REMOVER AND INSTALLER — VALVE GUIDE 1. DRIVER — 2. VALVE GUIDE STOP —	NAA, 600, 601, 2000, 500, 700, 701, 900, 901 & 4000	
	2771  1442 1443 1255	DRIVER SET — CAMSHAFT BEARING REMOVAL INSTALLATION 1. HANDLE 2. DRIVER 3. DRIVER	2000 THRU 9000	
	1440	REAMER — CONNECTING ROD	NAA, THRU 4140	134 & 172 CU. IN. ENGINE
	1444	REMOVER — CRANKSHAFT GEAR	NAA THRU 6000	
	1237	INSERT — CRANKSHAFT GEAR (USED WITH 2134 REMOVER AND INSTALLER)	2000, 3000, 4000, 5000 7000	
	1301	INSTALLER — CRANKSHAFT REAR MAIN SEAL	2000, 3000, 4000, 5000, 7000, 8000 & 9000	4.2 & 4.4 CU. IN. ENGINE
	2134	UNIVERSAL REMOVER & INSTALLER	2000, 3000 4000, 5000, 7000	FOR GEAR REMOVAL USE 1237 INSERT
	1584	SEAL PROTECTOR — FRONT CRANK SHAFT TIMING GEAR COVER	ALL SERIES 1000	
	1585	DRIVER — PISTON PIN	ALL SERIES 1000	USE WITH 7778 HANDLE

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	<p><b>2757</b></p> <p>9547 9575 9569 9161 9155 9159 9158</p> <p>9578 9579 9545 9546 9548 9165 9583 9580</p> <p>9544</p> <p>9543</p> <p>0001</p> <p>0050</p> <p>9581</p> <p>9573</p> <p>—</p> <p>9582</p> <p>9553</p> <p>—</p>	<p><b>PULLING INSTALLING SET —</b> CYLINDER SLEEVES CONSISTS OF:</p> <ol style="list-style-type: none"> <li>3 WAY HEAD</li> <li>FORCING NUT</li> <li>THRUST BEARING</li> <li>PULLING SCREW</li> <li>RISER, 13 IN. (3 REQ.)</li> <li>FLAT WASHER (3 REQ.)</li> <li>HEX HD. CAP SCREW (3 REQ.)</li> <li>THRUST WASHER</li> <li>HEX NUT</li> <li>SWIVEL ASSEMBLY</li> <li>YOKE ASSEMBLY</li> <li>INSTALLING BAR</li> <li>SCREW EXTENTION</li> <li>PULLER PLATE 3.171 I.D.</li> <li>PULLER PLATE 3.421 I.D.</li> <li>PULLER PLATE 3.484 I.D.</li> <li>PULLER PLATE 3.885 I.D.</li> <li>PULLER PLATE 4.200 I.D.</li> <li>PULLER PLATE 4.395 I.D.</li> <li>INSTALLING PLATE 3.171 &amp; 3.500 I.D.</li> <li>INSTALLING PLATE 3.875 &amp; 4.310 I.D.</li> <li>INSTALLING PLATE</li> <li>INSTALLING PLATE 3.430 &amp; 3.750 I.D.</li> <li>INSTALLING PLATE 4.109 &amp; 4.359 I.D.</li> <li>INSTRUCTIONS</li> </ol>	<p>ALL MODELS</p> <p>ALL MODELS ALL MODELS ALL MODELS ALL MODELS ALL MODELS ALL MODELS</p> <p>ALL MODELS ALL MODELS ALL MODELS ALL MODELS ALL MODELS</p> <p>134 IN. ENGINES DEXTA &amp; SUPER DEXTA 172 IN. ENGINES 4.2 IN. BORE ENGINES 4.4 IN. BORE ENGINES 8N</p> <p>134 IN. ENGINE DEXTA &amp; SUPER DEXTA 172 IN. ENGINES 4.2 &amp; 4.4 BORE ENGS.</p>	<p>THIS KIT SUPERCEDES PREVIOUS KITS 2640 (OLD 970 FTC) AND 9501 (OLD 970 FT)</p> <p>AND INCORPORATES 9544 (OLD 970-5D)</p>
	<p><b>2758</b></p> <p>9223 9224 9563 9170 9168</p>	<p><b>HYDRAULIC ADAPTER KIT —</b> 17½ TON</p> <p>CYLINDER SLEEVE PULLING INSTALLING CONSISTS OF:</p> <ol style="list-style-type: none"> <li>HYDRAULIC RAM</li> <li>HYDRAULIC PUMP</li> <li>SPEED NUT</li> <li>INSERT - 3 WAY HEAD</li> <li>SAFETY NUT</li> </ol> <p><b>NOTE:</b> INSTRUCTIONS OF 2757 KIT ALSO COVER 2758 KIT</p>	<p>ALL MODELS</p>	<p>NOT ESSENTIAL RECOMMENDED FOR USE WITH 2757 KIT</p>

ESSENTIAL SERVICE TOOLS

**ENGINE**

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	7536	<b>INSTALLER — ENGINE FRONT OIL SEAL</b>	ALL MODELS EXCEPT SERIES 1000	USE WITH 1442 HANDLE OR 7990 HANDLE FROM OLD T-818 KIT
	7537	<b>SPANNER SOCKET — OIL PUMP IDLER SLOTTED NUT</b>	ALL 6 CYLINDER DIESEL ENGINES	
	1586	<b>DRIVER — PRECHAMBER</b>	1100 & 1300	USE WITH 7778 HANDLE
	1587	<b>INSTALLER — VALVE GUIDE SEAL</b>	ALL SERIES 1000	USE WITH 7778 HANDLE
	7778	<b>HANDLE — DRIVER</b>	ALL SERIES 1000	PART OF DRIVER SET NO. 9515
	1589	<b>SPANNER WRENCH — COMBUSTION CHAMBER RETAINER</b>	SERIES 1100 & 1300	



# ENGINE

## DESIRABLE SERVICE TOOLS

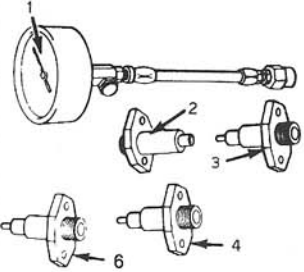
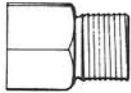

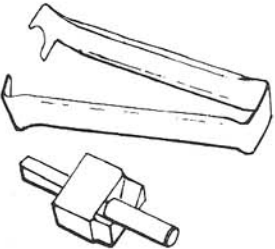

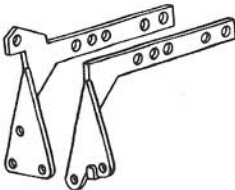
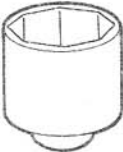

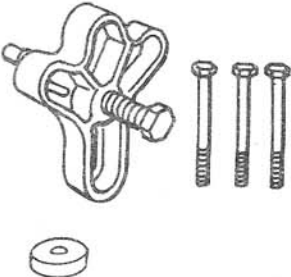

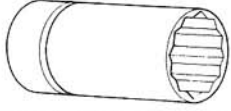
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	<p><b>2020</b></p> <p>2154 2156</p> <p>2159 2146 0398</p>	<p><b>KIT — DIESEL COMPRESSION TEST</b></p> <p>1. GAUGE 2. FORD AND F.M.D. ADAPTER 3. DEXTA ADAPTER 4. ADAPTER 5. FITTED METAL CARRYING CASE (NOT SHOWN)</p>	<p>ALL DIESEL EXCEPT SERIES 1000</p>	
	<p><b>2162</b></p>	<p><b>FILTER — REPLACEMENT PART</b></p>	<p>ALL</p>	<p>USE WITH 2154 GAUGE</p>
	<p><b>2136</b></p> <p>1491 1492 1493</p>	<p><b>KIT — VALVE STEM GUIDE REAMER</b></p> <p>0.003" OVERSIZE 0.015" OVERSIZE 0.030" OVERSIZE</p>	<p>2000 3000 4000 5000 7000 8000 9000</p>	
	<p><b>2127</b></p>	<p><b>KIT — FOR MACHINING VALVE GUIDES AND INSTALLING PERFECT CIRCLE VALVE SEALS</b></p>	<p>ALL EXCEPT SERIES 1000</p>	
	<p><b>6013</b></p>	<p><b>ENGINE SLIDES (2) — FOR GUIDING ENGINE AND TRANSMISSION ASS'Y. IN AND OUT OF CHASSIS AND PROVIDING ALIGNMENT.</b></p>	<p>A62, 64 &amp; 66</p>	
	<p><b>6011</b></p>	<p><b>ENGINE LIFT SLING — FOR REMOVING ENGINE AND TRANSMISSION ASS'Y FROM CHASSIS ON WHEEL LOADERS</b></p>	<p>A62, 64 &amp; 66</p>	<p>ALSO USED ON ALL OTHER 3, 4 &amp; 6 CYL. FORD ENGINES</p>

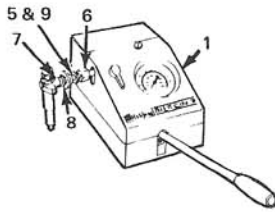
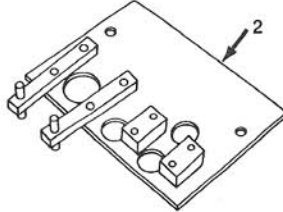
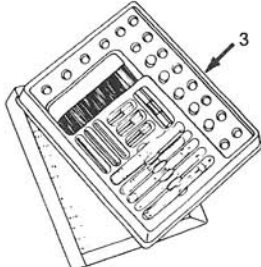
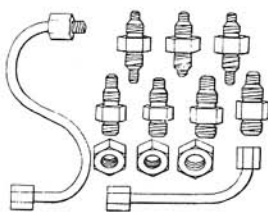
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	9669	<b>SOCKET — 2-1/2" x 3/4" DRIVE</b> FOR REMOVING AND INSTALLING NUT THAT SECURES FLYWHEEL TO ENGINE CRANKSHAFT	ALL SERIES 1000	DO NOT USE WITH IMPACT WRENCH
	FT 4000	<b>DIESEL TACH — TIME</b> DIGITAL READOUT OF ENGINE TIMING AND RPM. TWO TRANSDUCERS FOR IN-LINE OR ROTARY PUMPS	ALL FORD DIESEL ENGINES	
	9539	<b>PULLER SET</b> 4 WAY, FLANGE TYPE WATER PUMP AND CRANKSHAFT PULLEYS	4.2 & 4.4 ENGINES	OTHER UNIVERSAL USE

# FUEL (DIESEL)

## ESSENTIAL SERVICE TOOLS




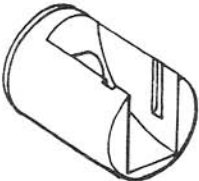
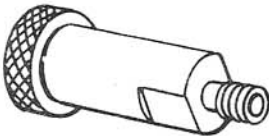

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	1436	WRENCH DELIVERY VALVE HOLDER	SUPER DEXTA FSM 5000 6000,7000 8000,9000	
	1588	SOCKET — INJECTOR 27MM SPECIAL	ALL SERIES 1000	

## DESIRABLE SERVICE TOOLS

	2021 1721 1719 1720 0273 1742 1730 1731 1743 1718	POPTESTER — INJECTOR TESTING KIT CONSISTS OF: 1. 1 — TESTER 2. 1 — HOLDING FIXTURE 3. 1 — CLEANING KIT 4. 1 — METAL CASE (NOT SHOWN) 5. 1 — CONNECTOR 6. 2 — NUT 7. 1 — NUT 8. 1 — RING 9. 1 — O-RING	ALL DIESEL INJECTORS	
	1719	FIXTURE — INJECTOR HOLDING		
	1720	KIT — INJECTOR CLEANING		
	1727	CONNECTOR SET — INJECTOR	ALLIS CHALMERS JOHN DEERE CASE FIAT-ALLIS I H DROTT WHITE WAUKESHA	USED FOR SER- VICING COMPE- TITIVE INJECTORS


DESIRABLE SERVICE TOOLS

**FUEL (DIESEL)**

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	1437	SOCKET — DELIVERY VALVE HOLDER	5000 6000 7000 8000 9000 SUPER DEXTA FSM	
	1419	WRENCH — INJECTOR LINE NUT 3/4"	FMD FPM	
	6012	FUEL TANK LIFT FIXTURE — USED WITH 6010 SPREADER BAR TO REMOVE TANK	A62, 64 & 66	
	8126	SOCKET — NOZZLE NUT TORQUE (SAME AS J-8537-14)	ALL DIESEL INJECTORS	
	8124	ADAPTER — REVERSE FLUSH NOZZLE (SAME AS J-8537-6)	ALL DIESEL INJECTORS	
	1420	WRENCH — DELIVERY VALVE HOLDER 13/16"	FMD FPM DEXTA	

ESSENTIAL SERVICE TOOLS

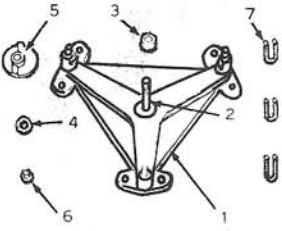
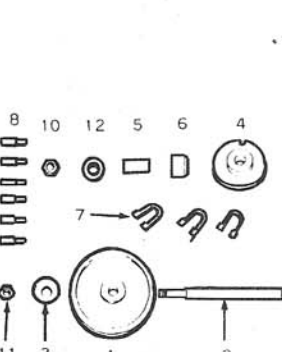
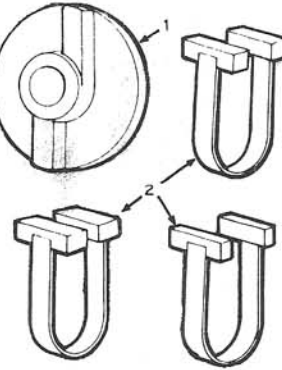
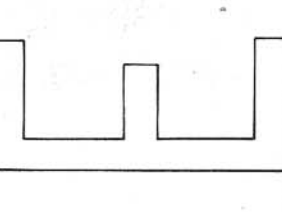
**ELECTRICAL**

	1251	REMOVER — DISTRIBUTOR BASE BUSHING	2000, 3000 4000, 5000	GASOLINE ONLY
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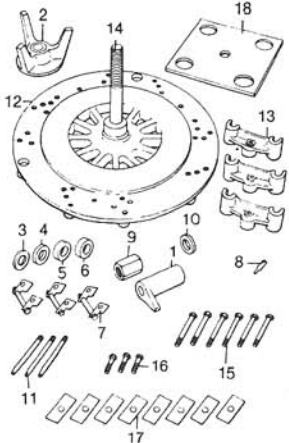

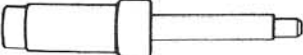


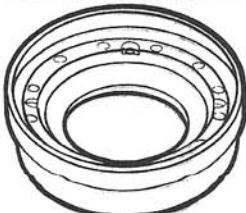

NOTE: FOR ELECTRICAL TEST AND DIAGNOSTIC EQUIPMENT REFER TO YOUR ROTUNDA CATALOG.

# CLUTCH

## ESSENTIAL SERVICE TOOLS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	<p><b>2185</b></p> <p>1451 1452 1453 1454 1456 1457 1458</p>	<p><b>FIXTURE —</b> DOUBLE CLUTCH ADJUSTING</p> <ol style="list-style-type: none"> <li>1. BASE PLATE</li> <li>2. SPINDLE</li> <li>3. CENTERING PILOT</li> <li>4. WASHER</li> <li>5. GAUGING BLOCK</li> <li>6. COMPRESSING NUT</li> <li>7. PRESSURE PLATE SPACERS (.330-.335)</li> </ol>	<p>600 THRU 4140 DEXTA*</p>	<p>*FOR DEXTA WHEN USED W/KIT NO. 2186</p>
	<p><b>2187</b></p> <p>1461 1462 1463 1464 1465 1466 1467 1468 1469 1470 1471 1472</p>	<p><b>FIXTURE —</b> DOUBLE CLUTCH ADJUSTING CONSIST OF:</p> <ol style="list-style-type: none"> <li>1. BASE PLATE</li> <li>2. SPINDLE</li> <li>3. SPINDLE CENTERING PILOT</li> <li>4. GAUGING BLOCK</li> <li>5. MAIN CLUTCH CENTERING PILOT</li> <li>6. P.T.O. CLUTCH CENTERING PILOT</li> <li>7. PRESSURE PLATE SPACERS (3 PCS.) (.390-.395)</li> <li>8. RISER BLOCKS (6 PCS.)</li> <li>9. BASE RETAINING CAP SCREWS (2 PCS.) (NOT ILLUSTRATED)</li> <li>10. COMPRESSING NUT</li> <li>11. SPINDLE-TO-BASE NUT</li> <li>12. WASHER</li> </ol>	<p>FMD FPM FSM</p>	
	<p><b>2186</b></p> <p>1455 1459</p>	<p><b>KIT —</b> CONSISTS OF:</p> <ol style="list-style-type: none"> <li>1. GAUGE</li> <li>2. SPACER (3)</li> </ol> <p>TO ADAPT 2185 FOR USE WITH DEXTA DOUBLE CLUTCH</p>	<p>DEXTA</p>	<p>USE WITH 2185</p>
	<p><b>1300</b></p>	<p><b>GAUGE —</b> CLUTCH FINGER HEIGHT ADJUSTING</p>	<p>1000 1500 1600 1700 1900*</p>	<p>*SINGLE CLUTCH ONLY</p>

**CLUTCH**

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	<p>2142</p> <p>1267</p> <p>1268</p> <p>1269</p> <p>1270</p> <p>1271</p> <p>1272</p> <p>1273</p> <p>1274</p> <p>1275</p> <p>2143</p> <p>1279</p> <p>1280</p> <p>1281</p> <p>1282</p> <p>1283</p> <p>1284</p> <p>1285</p> <p>1286</p> <p>1287</p> <p>1288</p> <p>1289</p>	<p><b>UNIVERSAL CLUTCH FIXTURE - CONSISTING OF:</b></p> <p>1. RELEASE LEVER GAUGE</p> <p>2. SPRING COMPRESSOR BRIDGE</p> <p>3. GAUGE SPACER 0.200"</p> <p>4. GAUGE SPACER 0.255"</p> <p>5. GAUGE SPACER 0.492"</p> <p>6. GAUGE SPACER 0.575"</p> <p>7. GAUGE SPACER 0.792"</p> <p>8. GAUGE SPACER 0.982"</p> <p>9. GAUGE SPACER 0.550" ASSEMBLY</p> <p>10. GAUGE PIN</p> <p>11. SPINDLE NUT</p> <p>12. THRUST WASHER</p> <p>13. GUIDE PIN</p> <p>14. FIXTURE BASE</p> <p>15. RISER BLOCK</p> <p>16. FIXTURE SPINDLE</p> <p>17. LONG CAP SCREW</p> <p>18. SHORT CAP SCREW</p> <p>19. SHIM SPACER</p> <p>20. ADAPTER PLATE</p>	<p>2000</p> <p>3000</p> <p>4000</p> <p>5000</p> <p>7000</p>	
	<p>1276</p>	<p><b>SPACER — 0.706"</b></p>	<p>8000</p> <p>9000</p>	<p>USE WITH 2142</p>
	<p>1262</p>	<p><b>ALIGNING ARBOR</b></p>	<p>2000,3000,</p> <p>4000,5000,</p> <p>8000 &amp; 9000</p>	<p>SEE SERVICE BULLETIN NO. 8-70</p>
	<p>1263</p>	<p><b>ALIGNING ARBOR</b></p>	<p>2000,3000 &amp; 4000</p>	<p>CERRA-METALLIC CLUTCHES</p>
	<p>1277</p>	<p><b>GAUGE SPACER — 0.300"</b></p>	<p>2000,3000</p> <p>4000,5000</p>	<p>USE WITH 2142 &amp; 2145</p>
	<p>2680</p>	<p><b>ADAPTER — CLUTCH ADJUSTING</b></p>	<p>TW 20 AND 30</p>	<p>USE WITH BASE AND RELEASE LEVER GAUGE OF THE 2142 UNIVERSAL CLUTCH FIXTURE</p>
	<p>1193</p>	<p><b>SPACER — CLUTCH ADJUSTING</b></p>	<p>TW 20 AND 30</p>	<p>USE WITH 2680</p>

# CLUTCH

## ESSENTIAL SERVICE TOOLS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	<b>2706</b>  1594 1595 1596  1267 1280 1281	<b>DUAL CLUTCH FIXTURE KIT CONSISTS OF:</b> 1. COMPRESSION BRIDGE 2. FIXTURE BASE 3. SPACER — RELEASE LEVER GAGE USED WITH THE FOLLOWING PREVIOUSLY RELEASED TOOLS 4.* RELEASE LEVER GAGE 5.* SPINDLE NUT 6.* THRUST WASHER *NOT INCLUDED IN 2706 KIT — PART OF 2142 (SW-510) KIT	1900 WITH DUAL CLUTCH	IF TOOL NO'S. 1267, 1280 & 1281 ARE NOT AVAILABLE, ORDER 2829 KIT INSTEAD OF KIT NO. 2706
	<b>2829</b>	<b>TOOL KIT — 1900 TRACTOR DUAL CLUTCH — SAME AS 2706 BUT INCLUDES 1267, 1280 AND 1281</b>		
	<b>1186</b>	<b>ALIGNING ARBOR</b> 14½" CLUTCH WITH 1¾" INPUT SHAFT	4 WD 20,30 & 40	
	<b>7187</b>	<b>ALIGNING ARBOR</b> 15½" CLUTCH WITH 2" INPUT SHAFT	4 WD 60	
	<b>7429</b>	<b>ALIGNING ARBOR</b>	TW 10,20 & 30	
	<b>1581</b>	<b>ARBOR, CLUTCH ALIGNING</b>	ALL SERIES 1000*	*EXCEPT 1100
	<b>4036</b>	<b>ARBOR, CLUTCH ALIGNING</b>	SERIES 1100	
	<b>1582</b>	<b>ARBOR, CLUTCH ALIGNING</b>	1900 W/DUAL CLUTCH	

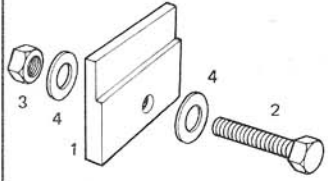
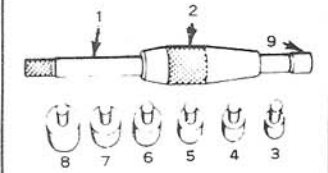
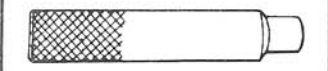
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	<p>2145</p> <p>1290</p> <p>1291</p> <p>1292</p> <p>1293</p>	<p><b>CLUTCH ADAPTER KIT —</b>  <b>CONSISTING OF:</b></p> <p>1. 3 — CLAMP</p> <p>2. 3 —</p> <p>3. 3 —</p> <p>4. 6 —</p>	<p>2000</p> <p>3000</p> <p>4000</p> <p>5000</p>	<p>AFTER  NOV. 1969  CERRA-  METALLIC  CLUTCHES</p>
	<p>9518</p>	<p><b>ARBOR —</b>  <b>CLUTCH ALIGNING</b>  <b>(SINGLE DISC)</b></p> <p>1. GUIDE BAR (.624" DIA.)</p> <p>2. GUIDE SLEEVE</p> <p>3. PILOT 0.5885" DIA.</p> <p>4. PILOT 0.612" DIA.</p> <p>5. PILOT 0.668" DIA.</p> <p>6. PILOT 0.749" DIA.</p> <p>7. PILOT 0.786" DIA.</p> <p>8. PILOT 0.808" DIA.</p> <p>9. PILOT 0.984" DIA.</p>	<p>8N THRU  4141  DEXTA  THRU  FSM</p>	
	<p>1298</p>	<p><b>PILOT —</b>  <b>SELECT-O-SPEED</b>  <b>TORQUE LIMITER</b></p>	<p>5000</p>	<p>SELECT-O-  SPEED  ONLY</p>



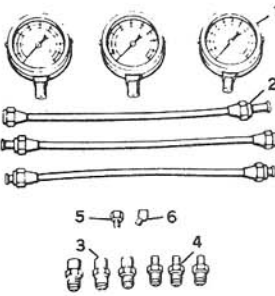

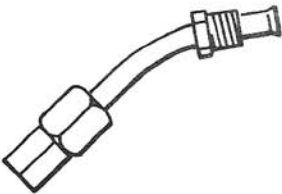
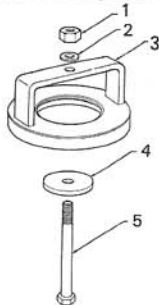





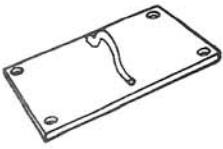
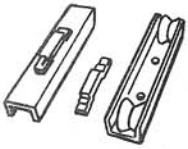
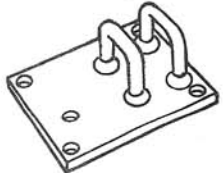
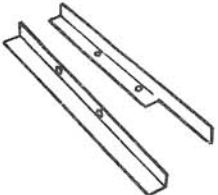
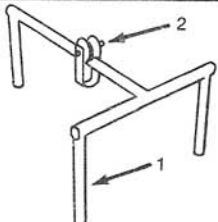
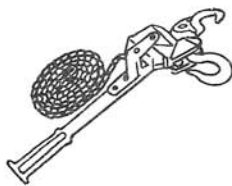

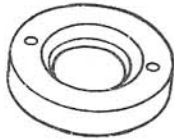

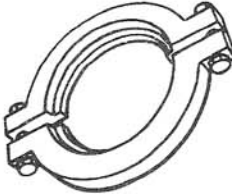
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	<b>2148</b>  0074 1552  1548 1549  1550 1551	<b>KIT-SELECT-O-SPEED PRESSURE GAUGE CONSISTS OF:</b> 1. (3) 400 #GAUGES 2. (3) TUBES 10" LONG WITH FITTINGS 3. (3) FITTINGS 1/4" NPT X 5/8-18 MALE 45° FLARE 4. (3) FITTINGS 1/8" MALE NPT X 5/8-18 MALE 45° FLARE 5. (1) FITTING 1/8" MALE X 1/8" FEMALE NPT 6. (1) FITTING 45° ELBOW 1/8" MALE X 1/8" FEMALE NPT	SEE REMARKS	ALL WITH SELECT-O-SPEED TRANSMISSIONS 5500 TRANS., P.T.O. CLUTCH 4 x 4 POWER REVERSING, 8000 DIFF. LOCK, P.T.O.
	1310	90° ELBOW 1/8-27 MALE NPT X 5/8-18 MALE SAE 45°		
	1312	<b>COMPRESSOR</b>	SEE REMARKS	SELECT-O-SPEED, 4 x 4 POWER REVERSING
	1221	<b>ADAPTER —</b> P.T.O. CLUTCH CONTROL VALVE PRESSURE TESTING (USED WITH GAUGE, LINE, AND FITTING FROM 2148 KIT)	4000 5000	USED WITH INDEPENDENT P.T.O.
	<b>2700</b>  0166 4082 7656 7657 1527	<b>COMPRESSOR —</b> DIRECT DRIVE CLUTCH SPRING (SELECT-O-SPEED) 1. Nut 2. Washer 3. Compressor 4. Washer 5. Bolt		ALL SELECT-O-SPEED TRANSMISSIONS
	1238	<b>INSERT —</b> P.T.O. COUNTERSHAFT FRONT BEARING REMOVER (USED WITH 2134)	2000 3000 4000	WITH 8-SPEED TRANSMISSION, 4-SPEED MAN-REVERSE TRANSMISSION

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	1239	<b>INSERT —</b> MAIN COUNTERSHAFT FRONT BEARING REMOVER (USED WITH SW-501	5000	WITH 8-SPEED TRANS- MISSION
	1303	<b>BEARING GAUGE, END PLAY                      CHECKING —</b> DUAL POWER	9000	
	1409	<b>TEE FITTING —</b> PRESSURE TEST DUAL POWER	9000	
	7402	<b>LOCATOR —</b> LOW PRESSURE HYDRAULIC PUMP INLET TUBE	TW 10, 20 & 30	
	7173	<b>LIFT BRACKET —</b> TRANSFER CASE	FW 20, 30,40 & 60	USE WITH 7185, 2524 & 7189
	2525	<b>SADDLE TROLLEY —</b> TRANSMISSION R & R	FW 20 30,40 & 60	USE WITH 7170,7171, 2524,7185 & 7182
	7182	<b>LIFT PLATE —</b> TRANSMISSION R & R	FW 20, 30,40 & 60	USE WITH 2525,7170, 7171,7172, 7185,2524 & 7189

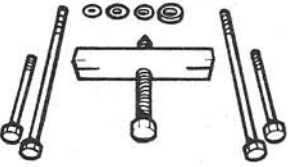



# TRANSMISSION

## ESSENTIAL SERVICE TOOLS

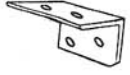
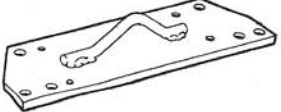
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	7170 & 7171	<b>RAILS —</b> TRANSMISSION R & R	FW 20, 30,40 & 60	USE WITH 2525,7185, 2524,7172, 7182 & 7189
	7185 2524	<b>STAND ROLLER &amp; YOKE —</b> TRANSMISSION AND TRANSFER CASE R & R  1. STAND 2. ROLLER & YOKE	FW 20, 30,40 & 60	USE WITH 7189 COFFEN HOIST (1½ TON)
	7189	<b>COFFEN HOIST (1½ TON)</b> TRANSMISSION AND TRANSFER CASE R & R	FW 20, 30, 40 & 60	USE WITH 7185 & 2524
	7172	<b>HOOK —</b> TRANSMISSION R & R	FW 20, 30,40 & 60	USE WITH 2525,7185, 2524,7182 & 7189
	7194	<b>ALIGNMENT TOOL —</b> TRANS. MAINSHAFT BEARING ALIGNMENT AND INSTALLER	FW 20 30,40 & 60	USE WITH 2526
	2526	<b>DRIVER AND INSTALLER</b> REAR MAINSHAFT AND COUNTERSHAFT BEARING DRIVER AND IDLER SHAFT	FW 20, 30,40 & 60	
	2529	<b>BEARING REMOVER —</b> FRONT AND REAR MAINSHAFT	FW 20, 30,40 & 60	USE WITH 7180

ESSENTIAL SERVICE TOOLS

**TRANSMISSION**

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	7180	REMOVER — COUNTERSHAFT, END YOKE AND FLANGE	FW 20 30,40 & 60	USE WITH 2529 TO REMOVE MAIN- SHAFT FRONT AND REAR BEARINGS
	2528	ALIGNMENT AND INSTALLER — REAR COUNTERSHAFT	FW 20, 30,40 & 60	
	2527	ALIGNMENT AND INSTALLER — FRONT COUNTERSHAFT ALIGNMENT AND BEARING INSTALLER	FW 20, 30,40 & 60	
	6017	CONVERTER FLYWHEEL CAM BOLT HOLDING FIXTURE	A 62, 64 & 66	

DESIRABLE SERVICE TOOLS

	2132	BRACKET — TRANSMISSION, LIFT	6500	
	1302	LIFTING FIXTURE —	8000 9000	

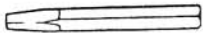
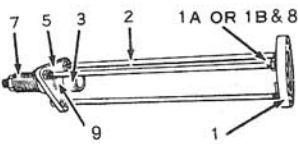
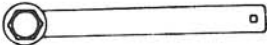

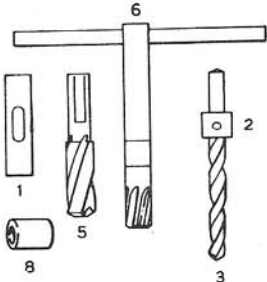
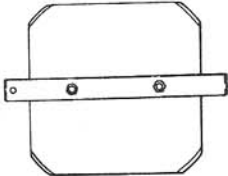
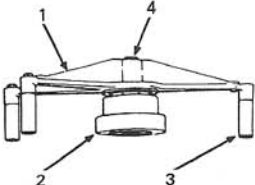
# TRANSMISSION

## DESIRABLE SERVICE TOOLS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	<p>6016 6049 6048 6047 6046</p>	<p><b>PULLER, CONVERTER PUMP —</b> 1. BOLT, CENTER PLATE 2. PLATE 3. GUIDE 4. BOLT</p>	<p>A62, 64 &amp; 66</p>	




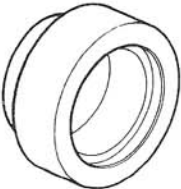
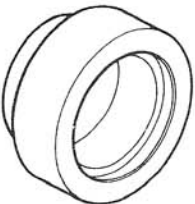
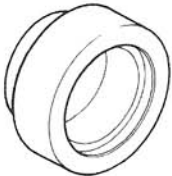
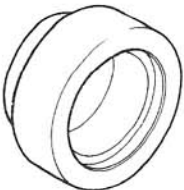
# BRAKES

	<p>7445</p>	<p><b>SPANNER SOCKET —</b> POWER BRAKE VALVE RETAINER</p>	<p>TW30</p>	
	<p>7446</p>	<p><b>GAUGE — POWER</b> BRAKE PEDAL SETTING</p>	<p>TW-30</p>	

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	1423	<b>CHISEL —</b> REAR AXLE COLLAR	600 THRU 4148, DEXTA & 2000	
	2184 1424 1425 1426 1428 1429 1430 1431 1427 1432	<b>REMOVER —</b> REAR AXLE COLLAR 1. BASE PLATE ONLY 1A. 1/2" DRILL BUSHING 1B. 9/32" DRILL BUSHING 2. ROD 3. CUP — INSERT DRIVER 5. HEAD PLATE 7. PRESSURE SCREW 8. LOCKING SCREW 9. PILOT	600 THRU 4140 DEXTA 2000	
	1421	<b>WRENCH —</b> AXLE SHAFT BEARING RETAINER NUT	SUPER DEXTA 3000	
	1435	<b>WRENCH — (SET OF 2)</b> DIFFERENTIAL PINION LOCK NUT	DEXTA 8N THRU SUPER DEXTA4000, 2000, 3000, 4000, 5000, 1800	
	2183 1542 1543 1544 1545 1546 1547	<b>KIT — DRILL AND REAMER —</b> REAR AXLE RING GEAR 1. DRILL GUIDE 2. STOP COLLAR 3. PILOT DRILL 5. SPECIAL DRILL 6. REAMER WITH HANDLE 8. GAUGE — DEPTH	6000	
	2122	<b>REMOVER AND INSTALLER —</b> PLANETARY RING GEAR	4000	*COM- MANDER ONLY
	2123		5000	
	2119		6000* 7000	
	2141 1503 1504 1505 1506	<b>GUAGE —</b> DIFFERENTIAL BEARING PRELOAD CONSISTING OF: 1. BRIDGE 2. GUAGE BLOCK 3. SPACER 4. SPINDLE	4000 5000 7000 A62 A64*	*REAR ONLY ON A64

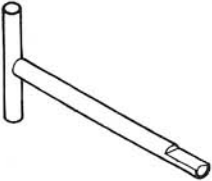

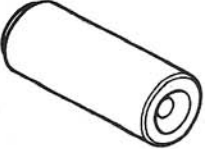
# AXLE (REAR)

## ESSENTIAL SERVICE TOOLS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	7246	SOCKET, SPECIAL — R & R DRIVE PINION NUT	TW 20 30, 40 & 60	USE WITH 6030 MULTI- PLIER. DO NOT USE WITH POWER IMPACT WRENCH
	7247	ADAPTLR —	TW 20, 30, 40 & 60	USE WITH 7246 SOCKET AND 6030 TORQUE MULTI- PLIER
	7167	REMOVER — INSTALLER — AXLE SPINDLE NUT	TW 20, 30, 40 & 60	
	1591	INSTALLER — AXLE SEALS	SERIES 1300 & 1500 REAR AXLE 1900 TRANS. FRONT SEAL. 1500, 1700 & 1900 FRONT AXLE SEAL	USE 2½" x 14.5" LONG PIPE FOR DRIVER
	1592	INSTALLER — REAR AXLE SEAL	SERIES 1600 1700 1900	USE 3" x 24.25" LONG PIPE FOR DRIVER
	7983	INSTALLER — FRONT AXLE SEAL	SERIES 1100	USE 1½" PIPE FOR DRIVER
	7984	INSTALLER — REAR AXLE SEAL	SERIES 1100	USE 2" PIPE FOR DRIVER

ESSENTIAL SERVICE TOOLS

**AXLE (REAR)**

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	1579	<b>HOLDER —</b> DETENT BALL SHIFTER FORKS, CREEPER GEAR	1100* THRU 1900	*MAIN GEAR SELECTOR LEVER ONLY
	1580	<b>DEPRESSOR — DETENT BALL</b>	1300	CREEPER GEAR FORK
	1583	<b>INSTALLER — DIFFERENTIAL</b>		



# AXLE (REAR)

## DESIRABLE SERVICE TOOLS


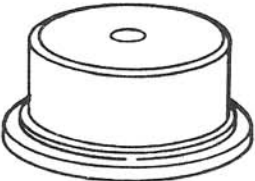


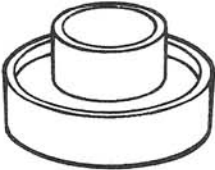
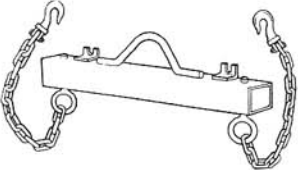



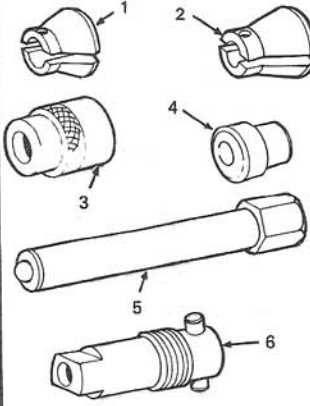
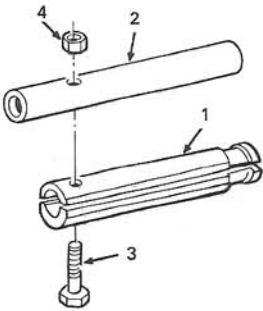
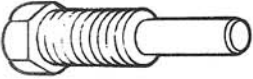
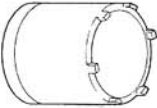
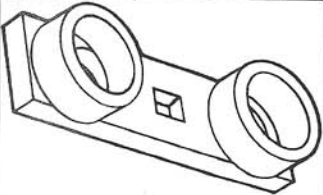
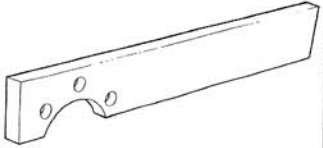
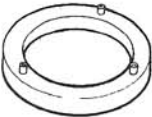
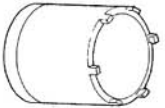
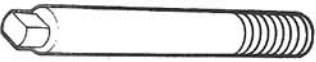
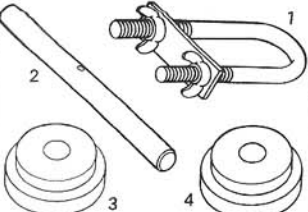
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	7778	HANDLE — DRIVER	SERIES 1000	USE WITH 1585, 1586 & 1587 ALSO USED WITH 9515
	1418	INSTALLER — DIFFERENTIAL CASE BUSHING	2000 3000 4000 5000 FMD FPM FSM	USE WITH 1442 HANDLE OR 7990 HANDLE FROM T-818 KIT
	1557	INSTALLER — DIFFERENTIAL BEARING	2000 3000* 4000 5000 7000	*3000 R.H. ONLY W/DIFF. LOCK
	1299	INSTALLER — DIFFERENTIAL BEARING	2000 3000*	*3000 L.H. W/DIFF. LOCK AND BOTH SIDES W/O DIFF. LOCK
	1264	INSTALLER — P.T.O. SHAFT OIL SEAL	NAA 600 THRU 4000	USE WITH 7778 HANDLE
	6010	AXLE SPREADER BAR — FOR REMOVING FRONT AND REAR AXLES	A62, 64 & 66	

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	8180	DOWEL SCREWS — TRANSFER BOX	5600 6600 6700 7600 7700	
	8184	REMOVER, INSTALLER — BRAKE BEARING	5600 6600 6700 7600 7700	
	8186	SPANNER SOCKET — SLOTTED NUT REMOVER	5600 6600 6700	
	8181  8196  8197  8198 8200 8205 8199	REMOVER — DIFFERENTIAL BEARING CONSISTING OF: 1. ADAPTER  2. ADAPTER  3. CAP 4. PRESSURE PAD 5. SCREW 6. BODY	5600 THRU 7700  *  **	*5600, 6600 6700 ONLY **7600, 7700 ONLY
	8195  8217 8218 6603  6604	BEARING REMOVER — BRAKE NEEDLE CONSISTING OF: 1. SPLIT TUBE 2. SPACER 3. BOLT — HEX HEAD 3/8-16 UNC 4. NUT P HEX 3/8-16 UNC	5600 6600 6700 7600 7700	USE WITH 7567 SLIDE HAMMER FROM 2639 (OLD FT 66-A) PULLER SET

# AXLE (FRONT)

## ESSENTIAL SERVICE TOOLS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	8167	JACK SCREW	5600 THRU TW 30	
	8168	SPANNER SOCKET — SLOTTED NUT REMOVER	7600 7700 TW 10, TW 20	
	8169	ADAPTER — STEERING KNUCKLE TORQUE	7600 THRU TW 30	
	8170	WRENCH — FLANGE HOLDING	5600 THRU TW 30	
	8171	SPACER — ADJUSTABLE	TW 10 TW 20	
	8174	SPANNER SOCKET — SLOTTED NUT REMOVER	TW 30	
	8189	GUIDE PIN — DIFFERENTIAL CASE	5600 THRU TW 30	
	2752 2677 7529 8175 8176	PINION SETTING GAUGE — CONSISTING OF: 1. CLAMP 2. ARBOR 3. PLATE — ADAPTER 4. PLATE — ADAPTER INSTRUCTION SHEET	5600 THRU TW 30	

# ESSENTIAL SERVICE TOOLS

# HYDRAULICS



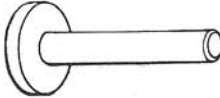
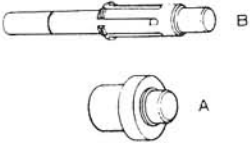


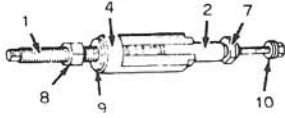
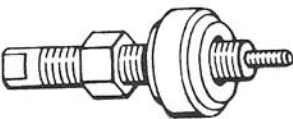

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	1306	REMOVER — HYDRAULIC PUMP INLET SEAT	600 THRU 4000	EXCEPT FMD,FPM, FSM, DEXTA & SUPER DEXTA
	1305	INSTALLER — HYDRAULIC PUMP INLET SEAT	ALL MODELS w/HYD. PISTON PUMP	
	1321	INSTALLER — SHAFT SEAL HYDRAULIC PISTON PUMP	600 THRU 4140	
	2150 1326 1327	KIT — CONSISTING OF: A. NEEDLE BEARING INSTALLER B. NEEDLE BEARING REMOVER	600 THRU 4140 2000 3000 4000	WITH HYDRAU- LIC PISTON PUMP
	1338	REMOVER — HYDRAULIC TRANSFER TUBES	600 THRU 4140	
	1339	INSTALLER — HYDRAULIC TRANSFER TUBES	600 THRU 4140	
	2191 1509 1510 1511 1512 1513 1514 1515	REMOVER AND INSTALLER — HYDRAULIC CYLINDER CONTROL VALVE BUSHING 1. BOLT 2. SLEEVE 4. GUIDE 7. PILOT 8. PULLER NUT 9. FLAT WASHER 10. NUT	NAA THRU 5000 EXCEPT FMD, FPM & FSM	
	2152	REMOVER AND INSTALLER — HYDRAULIC CHECK VALVE SEAT	600 THRU 4000 EXCEPT FMD FPM & FSM	
	1343	PILOT — HYDRAULIC CHECK VALVE REMOVER	2000 3000 4000	USE WITH 2152

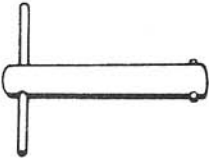
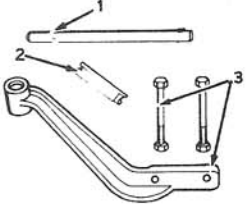
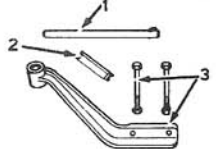



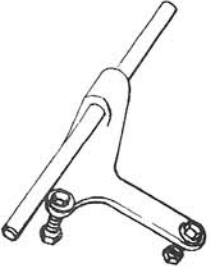
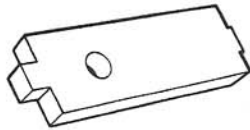
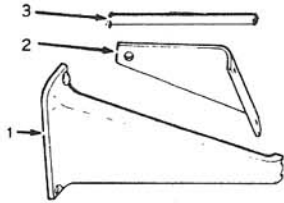
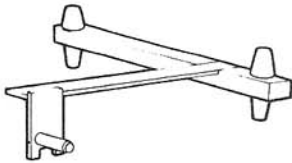


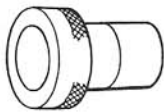
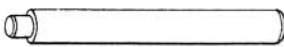
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	1296	<b>REMOVER AND INSTALLER — BACK PRESSURE VALVE</b>	NAA	
	2197 1499 1249 2196	<b>GAUGE KIT — LIFT ARM POSITIONING</b> 1. PIN 2. GAUGE 3. ARM AND BOLTS	600 THRU 4140	
	2138 1499 1246 2137	<b>GAUGE KIT — LIFT ARM POSITIONING</b> 1. PIN 2. GAUGE 3. ARM AND BOLTS	NAA	
	6209	<b>BUSHING LOCATOR — HYDRAULIC LIFT CROSS SHAFT</b>	4100 4600	4100 & 4600
	6211	<b>ADAPTOR — PRESSURE CHECK</b>	2000 3000 4000	
	7560	<b>PRESSURE TEST FITTING — HYDRAULIC</b>	ALL SERIES 1000	USE WITH 2106 TEST HOSE AND 2028 GAUGE
	2139	<b>POSITIONING TOOL — HYDRAULIC LIFT ARM</b>	FSM	USE WITH 1246 IN KIT NO. 2138

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	1261	<b>SETTING GAUGE —</b> HYDRAULIC LIFT CONTROL VALVE	2000 3000 4000 5000	
	2128  1234 1235 1499	<b>GAUGE KIT —</b> LIFT ARM POSITIONING 1. LOWER BRACKET 2. UPPER BRACKET 3. PIN	8N	
	1323	<b>GAUGE —</b> LOAD MONITOR LINKAGE ADJUSTMENT	5000 7000	
	1324	<b>GAUGE</b> LOAD MONITOR	5000 7000	
	1225	<b>INSTALLER — UNLOAD</b> VALVE SEAL	2000 3000 4000 5000	
	1226	<b>INSTALLER —</b> UNLOAD VALVE AND SEAL — LIFT CYL.	2000 3000 4000 5000 6600	
	1322	<b>REMOVER AND INSTALLER —</b> HYDRAULIC LIFT TUBE	6000	

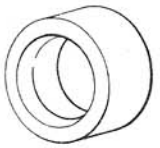
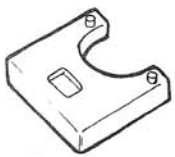
# HYDRAULICS

## DESIRABLE SERVICE TOOLS

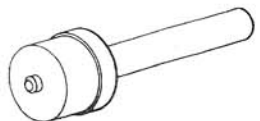
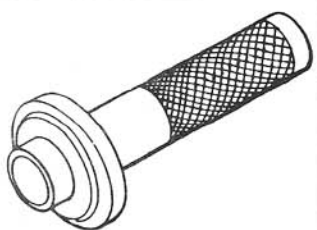
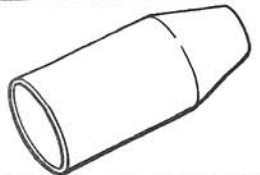

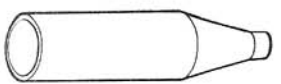
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	<p><b>2151</b></p> <p>1330 1335 1331 1332 1333 2153 1334</p>	<p><b>NITROGEN PRE-CHARGER KIT - ACCUMULATOR</b></p> <p>1. GAS COCK 7. TEE FITTING 2. GAUGE 4L NUT 4R NUT 12. HOSE 5. STEM</p>	<p>6000</p>	
	<p><b>1446</b></p>	<p><b>PULLER - HYDRAULIC PUMP DRIVE GEAR</b></p>	<p>FMD FPM FSM</p>	
	<p><b>1222</b></p>	<p><b>FIXTURE - HYDRAULIC PRESSURE RELIEF VALVE</b></p>	<p>2000 3000 4000* 5000</p>	<p>*HYDRAULIC GEAR PUMP ONLY</p>

ESSENTIAL SERVICE TOOLS

**STEERING**

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	1304	RING COMPRESSOR — POWER STEERING CYLINDER	1800 4040 4140	
	7209	SPANNER WRENCH R & I STEERING CYLINDER GLAND NUTS	FW 20, 30 40 & 60	

DESIRABLE SERVICE TOOLS

	1412	REMOVER AND INSTALLER — SECTOR SHAFT BUSHING PEDESTAL	500 THRU 4000 RAW CROP	
	1476	INSTALLER — POWER STEERING PUMP ROTOR SHAFT SEAL	600 THRU 4140	ALL ROLLER VANE PUMPS
	1477	PROTECTOR — POWER STEERING PUMP	600 THRU 4140	ALL ROLLER VANE PUMPS
	1411	REAMER — FRONT WHEEL SPINDLE PIN BUSHING	3500 4400 4500	
	1566	PROTECTOR — INTEGRAL STEERING OIL SEAL	4000 5000	



# STEERING

DESIRABLE SERVICE TOOLS

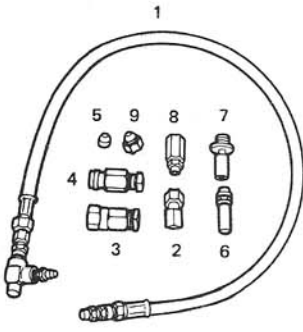


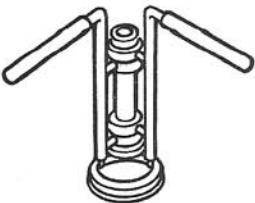


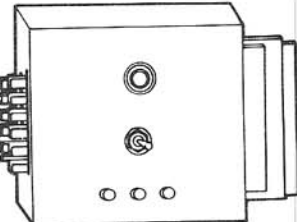
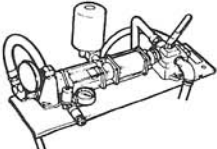

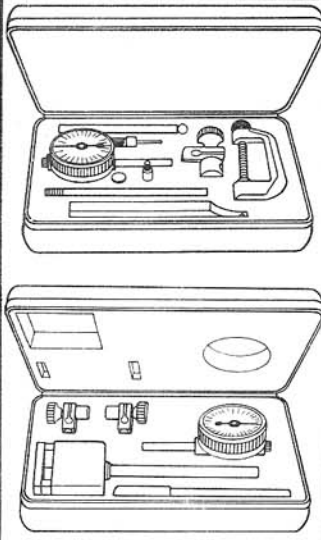

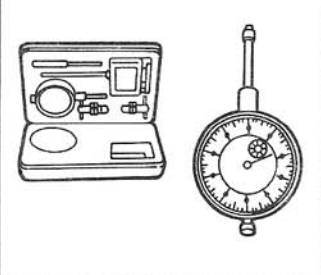
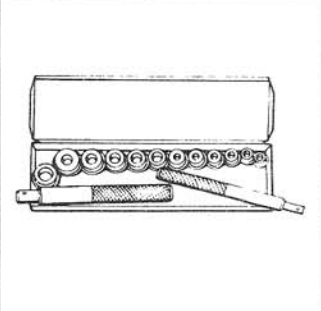
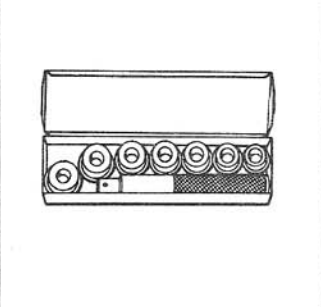
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	<p>2399</p> <p>2412</p> <p>2413</p> <p>2414</p> <p>2415</p> <p>6578</p> <p>6579</p> <p>6580</p> <p>6581</p> <p>6586</p>	<p><b>POWER STEERING FITTING KIT —</b>            FOR CHECKING POWER            STEERING PRESSURE ON            ALL FORD TRACTORS</p> <p>CONSISTS OF:</p> <p>1. HOSE ASSEMBLY—100R1            — 4 x 36"</p> <p>2. CONNECTOR ASSEMBLY</p> <p>3. CONNECTOR ASSEMBLY</p> <p>4. CONNECTOR ASSEMBLY</p> <p>5. CONNECTOR 9/16" JICM x            1/4" NPTF</p> <p>6. CONNECTOR 1/4" NPTF x            9/16" M FLARELESS</p> <p>7. CONNECTOR 1/4" NPTF x            3/4" M FLARELESS</p> <p>8. CONNECTOR 9/16"—45°            FLARE M x 9/16"—45°            FLARE M</p> <p>9. ADAPTER 1/4" NPTF x            9/16" JICM</p>	<p>ALL            POWER            STEERING            UNITS</p>	<p>USE WITH            GAUGE            NUMBER            0073</p>
	<p>9661</p>	<p><b>PIVOT PIN REMOVER —</b></p>	<p>67/7700            67/9700            FLAT            DECK</p>	<p>USE THE            HANDLE            OF            ORIGINAL            PIVOT PIN            REMOVER            9662 WITH            THIS TOOL</p>
	<p>9662</p>	<p><b>PIVOT PIN REMOVER HANDLE —</b>            FOR USE WITH            T67P—3D739—B</p>	<p>67/7700            87/9700            FLAT            DECK</p>	<p>USED AS            SPACING            AND            PRESSURE            BLOCK            WHEN            USED WITH            THE            ABOVE PIN            REMOVER</p>
	<p>7497</p>	<p><b>INSTALLER — STEERING            CYLINDER ROD SEALS</b></p>	<p>FW 20            30, 40 &amp; 60</p>	

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	6962	FORD CAB DOOR HANDLE REMOVAL TOOL —	2600 THRU 9700	
	2420	FORD CAB LIFTING FIXTURE	2600 THRU 9700	
	2406	SEED MONITOR TEST UNIT —	ALL 352, 354 PLANTER	
	2910	<b>AIR OPERATED OIL TRANSFER UNIT —</b> FOR WITHDRAWING, HOLDING AND REPLACING HYDRAULIC OIL FROM TRACTOR, BACKHOE OR LOADER RESERVOIRS. FILTERS OIL BOTH DURING WITHDRAWAL AND RETURN. DELIVERS 4.5 GPM FLOW AT 60-PSIG AIR PRESSURE USING SAE 30 OIL AT 70° F.	ALL	
	1765	<b>DRUM DOLLY</b> FITS 30 OR 55 GALLON DRUMS. USE WITH 2910 OIL TRANSFER UNIT.		

# GENERAL PURPOSE SERVICE TOOLS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	1319	<b>UNIVERSAL DIAL INDICATOR —</b> CONSISTING OF: — HOLE ATTACHMENT 1-3/4" DEEP — SLIDING SWIVEL WITH 1/4" AND 5/16" HOLES — TOOL POST HOLDER 3/8" x 3/4" x 6" — C-CLAMP — DIAL INDICATOR 0-50-0 .001 GRADUATIONS, 1-5/8" FACE RANGE .200 — CONTACT POINTS 1/4" BUT- TON, 3/8" BUTTON AND 1/4" ROUND POINTED — INDICATOR HOLDING ROD 1/4" x 3-7/16" — UPRIGHT ROD 5/16" x 5"	ALL	
	1320	<b>INCLUDES A MAGNETIC BASE</b> <b>IN PLACE OF CLAMP</b>		
	1345	<b>DIAL INDICATOR SET</b> UNIVERSAL, MAGNETIC BASE 2-1/4 IN. DIA. DIAL, SIDE SPINDLE 1 INCH STROKE, .001 GRADUATIONS.	ALL	
	9514	<b>DRIVER SET —</b>	ALL	
	9515	<b>DRIVER SET —</b>	ALL	

# GENERAL PURPOSE SERVICE TOOLS



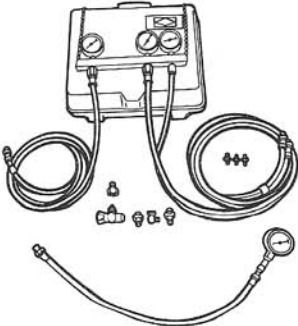
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	1478	<b>INSTALLER — VALVE SPOOL SEAL</b>	LOADERS EQUIPPED WITH GRESSEN VALVE	
	9500	<b>SPANNER WRENCH — TWO INTERCHANGABLE JAWS — ONE 3/8" THICK AND ONE 3/4" THICK. ADJUSTS FROM 4-3/4" TO 12-3/4" O.D. 24" HANDLE</b>	LOADER AND BACKHOE CYLINDERS	
	2422	<b>TEST KIT — HYDRAULIC DRIVE FOR EATON HEAVY DUTY HYDROSTATIC TRANSMISSION</b>	4-WD WITH OPTIONAL P.T.O. & COMBINES	
	2512	<b>SAME AS 2422 EXCEPT 10,000, 600 AND 400 PSI GAUGES ARE GLYCERINE FILLED</b>		

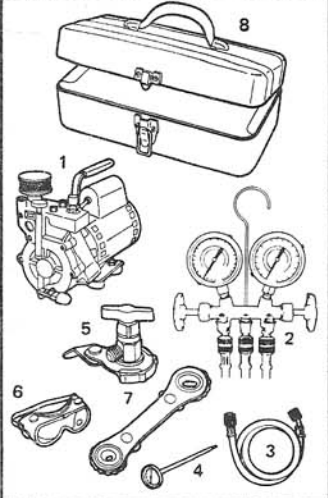
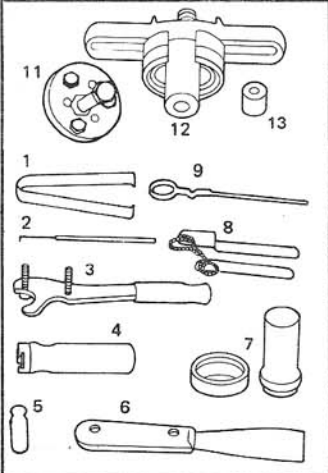
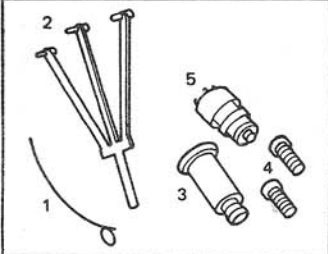
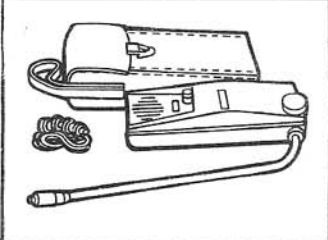
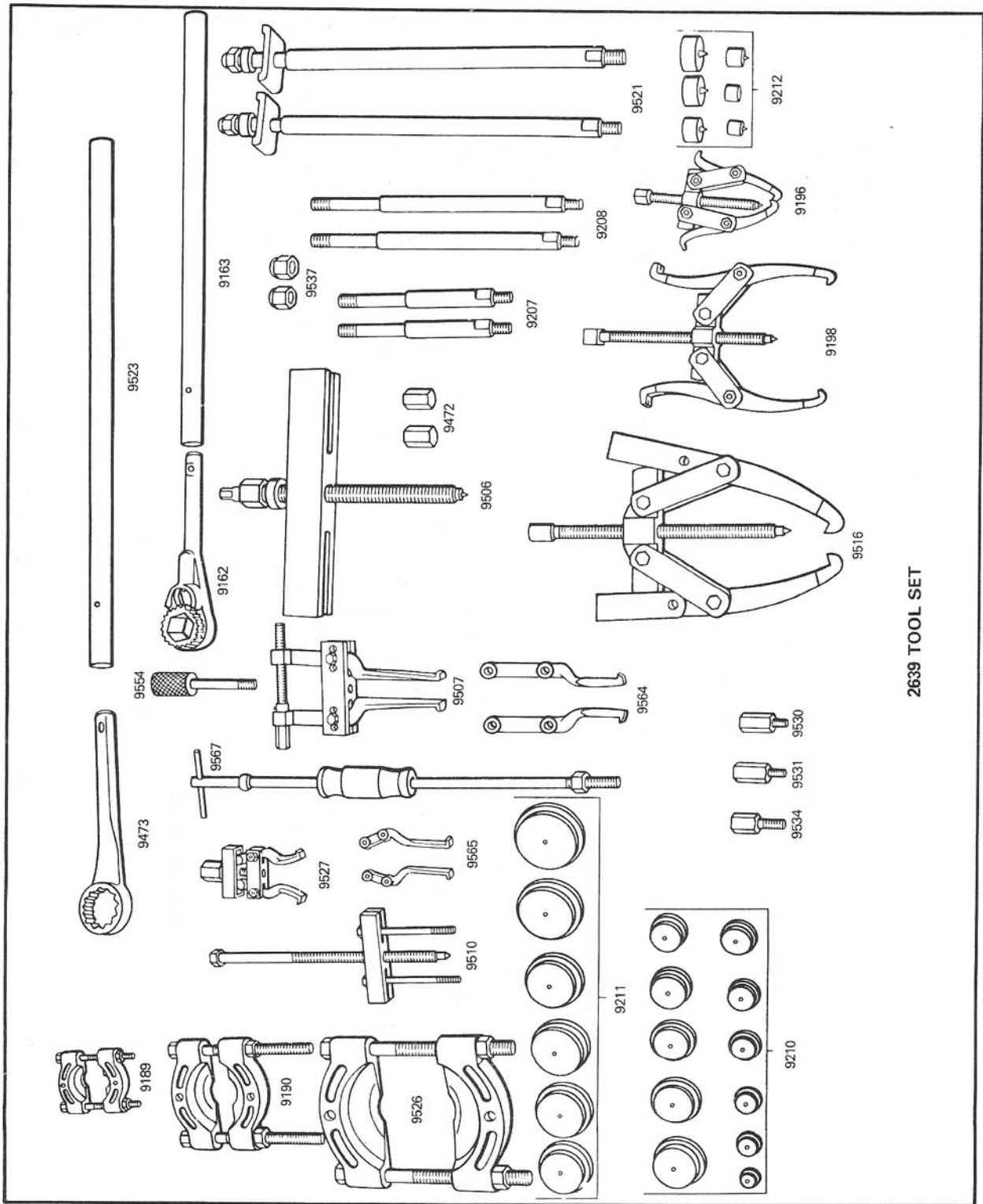
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	<p><b>2342</b></p> <p>0179 0172 0173 0174 0175  0176  0178 0417 0177</p>	<p><b>AIR CONDITIONING TEST KIT</b> CONSISTS OF:</p> <ol style="list-style-type: none"> <li>VACUUM PUMP</li> <li>GAUGE AND MANIFOLD SET</li> <li>CHARGING HOSE-84" LONG</li> <li>THERMOMETER</li> <li>CAN VALVE—REFRIGERANT DISPENSING</li> <li>GOGGLES—PLASTIC PROTECTOR</li> <li>GASKET PACK (NOT SHOWN)</li> <li>METAL STORAGE BOX W/TRAY</li> </ol>	<p>ALL</p>	
	<p><b>2343</b></p> <p>6836 6837  6838  6839  6840 6841 6842  6843 6844 6845 6846  6847 6848</p>	<p><b>SANKYO COMPRESSOR TOOLS —</b></p> <ol style="list-style-type: none"> <li>SEAL SEAT REMOVER</li> <li>O-RING REMOVER AND INSTALLER</li> <li>FRONT PLATE SPANNER (CLUTCH)</li> <li>SEAL REMOVER AND INSTALLER</li> <li>SEAL SLEEVE PROTECTOR</li> <li>GASKET REMOVER</li> <li>CLUTCH ROTOR INSTALLER (2-PIECE)</li> <li>AIR GAP GAUGES (SET-2)</li> <li>DIPSTICK (OIL CHECKING)</li> <li>TOOL BOX (NOT SHOWN)</li> <li>FRONT PLATE PULLER (CLUTCH)</li> <li>CLUTCH ROTOR REMOVER W/ADAPTER</li> <li>CLUTCH FACE INSTALLER</li> </ol>	<p>3 CYL. TRACTOR EQUIPPED WITH FORD CAB</p>	
	<p><b>6981</b></p> <p>6387 6386 6388  6389 6390</p>	<p><b>YORK &amp; TECUMSEH COMPRESSOR TOOLS —</b></p> <ol style="list-style-type: none"> <li>OIL DIPSTICK</li> <li>CLUTCH SPANNER WRENCH</li> <li>SEAL INSTALLER AND SEAL PLATE ALIGNER</li> <li>CLUTCH REMOVING BOLTS</li> <li>COMPRESSOR SEAL PULLER</li> </ol>	<p>ALL EXCEPT 3 CYL. TRACTORS WITH FORD CAB</p>	
	<p><b>0855</b></p>	<p><b>REFRIGERANT GAS LEAK DETECTOR —</b> CORDLESS AUDIBLE SIGNAL</p>	<p>ALL</p>	

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
SEE PAGE 36 FOR ILLUSTRATIONS OF THESE TOOLS	2639	TOOL SET — PUSHER AND PULLER, CONSISTS OF:	ALL	
	9530	ADAPTER — MALE 3/8" — 16 FEMALE 5/8" — 18 (PR.)		
	9531	ADAPTER — MALE 1/2" — 20 FEMALE 5/8" — 18 (PR.)		
	9534	ADAPTER — MALE 5/8" — 11 FEMALE 5/8" — 18 (PR.)		
	9163	HANDLE — TUBULAR FOR P-61 WRENCH		
	9523	HANDLE — TUBULAR FOR 2" BOX WRENCH		
	9162	WRENCH — RATCHET		
	9473	WRENCH — 2" BOX		
	9510	PULLER — GEAR AND PULLEY		
	9212	PROTECTORS — SHAFT (SET OF NO. 1-6)		
	9210	PLATE — STEP (SET OF NO. 1-11)		
	9211	PLATE — STEP (SET OF NO. 12-17)		
	9521	LEGS — 16-1/2" PUSH PULLER (PR.)		
	9207	LEGS — 4-1/2" PUSH PULLER (PR.)		
	9537	CONNECTOR — LEG 5/8" — 18 FEMALE x 3/4" — 16 FEMALE		
	9507	ATTACHMENT — BEARING CUP PULLING		
	9506	PUSH PULLER — INCLUDES LEGA AND PADS:		
	9208	LEGS, (-1/2" PUSH PULLER (PR.)		
	9472	PADS, PUSH PULLER LEG (PR.)		
	9564	JAWS — SPECIAL BEARING CUP PULLING (PR.)		
	9567	HAMMER — SLIDE		
	9189	ATTACHMENT — BEARING PULLING		
	9190	ATTACHMENT — BEARING PULLING		
	9526	ATTACHMENT — BEARING PULLING		
	9527	PULLER-PILOT BEARING		
9565	JAWS — SPECIAL (PR.)			
9196	PULLER — GRIP-O-MATIC			
9198	PULLER — GRIP-O-MATIC			
9516	PULLER — GRIP-O-MATIC			

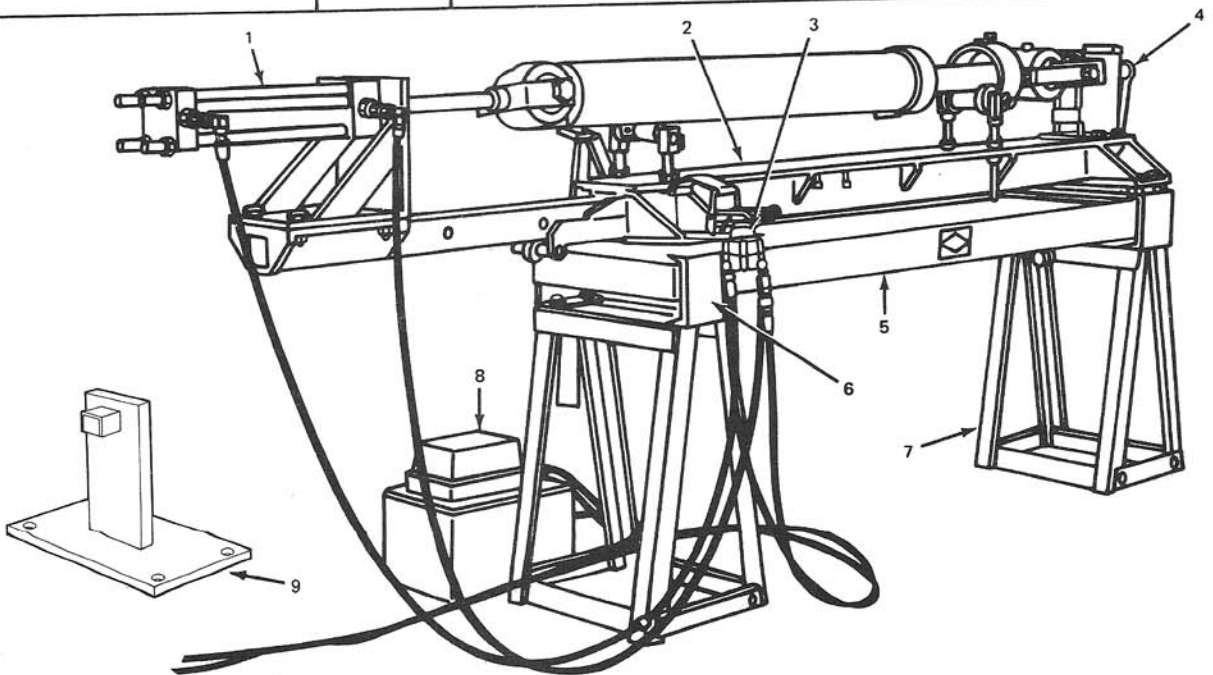
# GENERAL PURPOSE SERVICE TOOLS



2639 TOOL SET

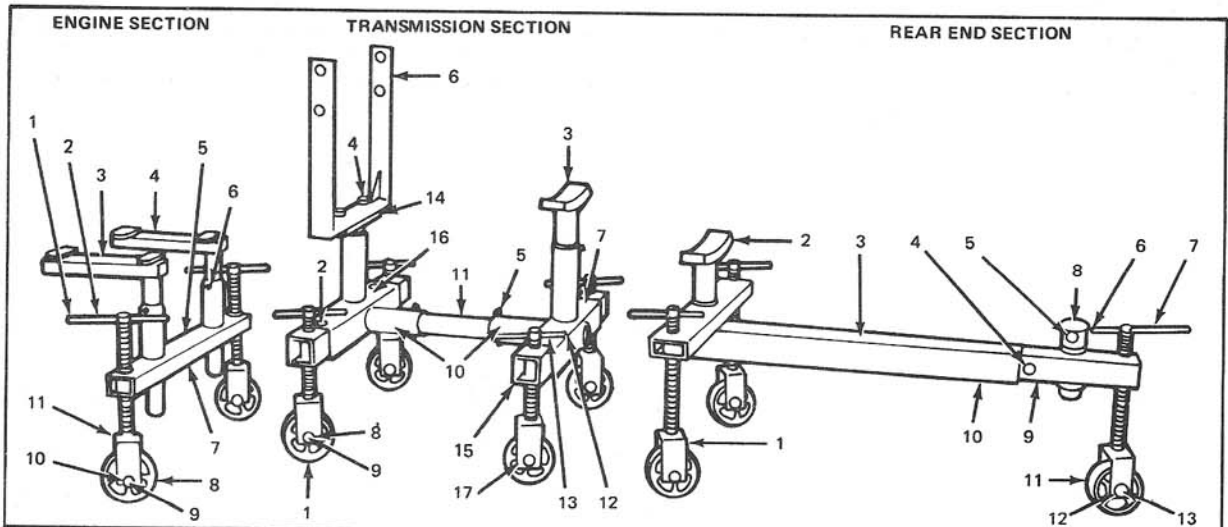
# TRACTOR — EQUIPMENT, GENERAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
SEE ILLUSTRATION BELOW	<p><b>2825</b></p> <p>2480 2475 2481 6030* 6626 6637 2430 2482 7655</p>	<p><b>CYLINDER REPAIR STAND — CONSISTS OF:</b></p> <ol style="list-style-type: none"> <li>1. POWER CYLINDER</li> <li>2. CYLINDER REPAIR STAND</li> <li>3. CONTROL VALVE</li> <li>4. TORQUE MULTIPLIER</li> <li>5. OIL PAN</li> <li>6. RISER—4 REQ'D.</li> <li>7. LEGS—2 REQ'D.</li> <li>8. POWER UNIT</li> <li>9. BRACKET ASSY.—1" SOCKET DRIVE</li> </ol>	ALL	<p>*NOT INCLUDED W/2825 (ORDER SEPARATELY)</p>





# TRACTOR — EQUIPMENT, GENERAL



**SPLITTING STAND — NO. 201387**

**ENGINE SECTION — ASSY. NO. 50817**

ITEM NO.	PART NO.	NO. REQ'D.	DESCRIPTION
1	12090	4	Drive Screw
2	201266	2	Turning Bar
3	42144	1	Left Side Stand Adapter
4	42146	1	Right Side Stand Adapter
5	201332	1	Decal - Caution
6	15997	2	Pin - 1/2 x 3 in.
7	42142	1	Stand Base Weldment

ITEM NO.	PART NO.	NO. REQ'D.	DESCRIPTION
8	15977-BK2	2	Wheel
9	201265	2	Pin
10	11902	4	Retaining Ring
11	42140	2	Wheel Bracket
12	10055	4	Cap Screw 3/8-16 x 1-1/2 in. (Not Shown)

**TRANSMISSION SECTION — ASSY. NO. 60296**

ITEM NO.	PART NO.	NO. REQ'D.	DESCRIPTION
1	15977-BK2	4	Wheel 5 in.
2	15988	4	Pin 1/2 x 4 in.
3	42149	1	Transmission Adapter Rear
4	10810	6	Cap Screw 3/4-10 x 1 in.
5	15997	4	Pin 1/2 x 3 in.
6	42150	1	Transmission Adapter (8000 and 9000 Tractors)
7	201357	4	Decal - Low Position
8	11902	8	Retaining Ring

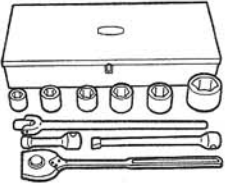

ITEM NO.	PART NO.	NO. REQ'D.	DESCRIPTION
9	201265	4	Pin
10	50819	2	Stand Base
11	36070	1	Connecting Tubing
12	12090	8	Drive Screw
13	201266	4	Turning Bar
14	42148-BL2	1	Transmission Adapter Front
15	36069	4	Wheel Bracket
16	201354	4	Decal - High Position
17	36078	4	Wheel Bracket

**REAR SECTION — ASSY. NO. 60293**

ITEM NO.	PART NO.	NO. REQ'D.	DESCRIPTION
1	42140	3	Wheel Bracket
2	42136-BL2	1	Rear End Adapter
3	201501	1	Decal - Caution
4	15998	1	Cotterless Hitch Pin 1/2 x 4 in.
5	15997	2	Cotterless Hitch Pin 1/2 x 3 in.
6	12090	6	Drive Screw
7	201266	3	Turning Bar

ITEM NO.	PART NO.	NO. REQ'D.	DESCRIPTION
8	201292-BL2	1	Hitch Adapter
9	42139-BL2	1	Inside Tubing Extension
10	50810-BL2	1	Stand Frame
11	15977-BK2	3	Wheel 5 in.
12	11902	6	Retaining Ring
13	201265	3	Pin
14	42148-BL2	1	Transmission Adapter (Not Shown)

# TRACTOR — EQUIPMENT, GENERAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	9600	<b>ELEVEN PIECE METRIC SOCKET &amp; WRENCH SET CONSISTS OF:</b> RATCHET, 1" SQUARE DRIVE, REVERSIBLE 26" LONG HANDLE HINGE HANDLE, 1" x 26" LONG 17" EXTENSION 8" EXTENSION 36 MM 6 PT. SOCKET 46 MM 6 PT. SOCKET 50 MM 6 PT. SOCKET 55 MM 6 PT. SOCKET 60 MM SPECIAL 6 PT. SOCKET 80 MM (3-1/4") 6 PT. SOCKET TOOL BOX — 12-5/8" x 30-5/8" x 5-5/8" DEEP	745 LOADER 765 BACKHOE 755 TLB A62, 64 & 66 WHEEL LOADERS	
	9614			
	9619			
	9609			
	9608			
	9640	<b>NINE PIECE METRIC SOCKET &amp; WRENCH SET</b> WEIGHT: 60 LB. (27.2 KG)	745 LOADER 765 BACKHOE 755 TLB	SAME AS 9600 LESS 55 & 80 MM SOCKETS
	9650	<b>SEVEN PIECE METRIC SOCKET SET CONSISTS OF:</b> 36, 46, 50, 55, 60 & 80 MM, SOCKETS TOOL BOX, 7-1/8 x 16 x 7-3/8 DEEP WEIGHT 30 LB. (13.6 KG)		SAME AS 9600 LESS RATCHET, HINGE HANDLE AND EXTENSIONS
	9660	<b>FIVE PIECE METRIC SOCKET SET CONSISTS OF:</b> 36, 46, 50 & 60 MM, SOCKETS TOOL BOX, 7-1/8 x 7-3/8 DEEP WEIGHT 17 LB. (7.7 KG)	745 LOADER 765 BACKHOE 755 TLB A62 LOADER	
	9630	<b>TORQUE MULTIPLIER</b> 2000 FT. LB., 10:1 RATIO 3/4 IN. SQ. DRIVE IN 1" SQ. DRIVE OUT, 32-1/2 IN. LONG HANDLE WEIGHT 18 LB. (8.2 KG)		PROVIDES TORQUE MULTIPLICATIONS CAPABILITY IN CLOSE CLEARANCE APPLICATIONS NOT FEASIBLE WITH THE NUDAY 6030 TORQUE MULTIPLIER.

# TRACTOR — EQUIPMENT, GENERAL

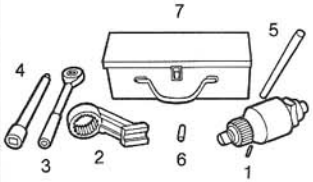
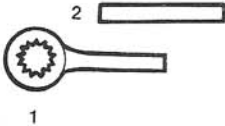
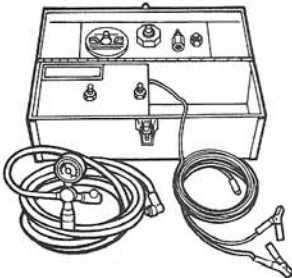
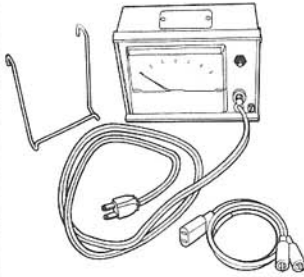
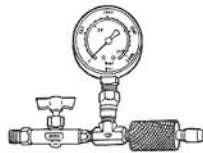



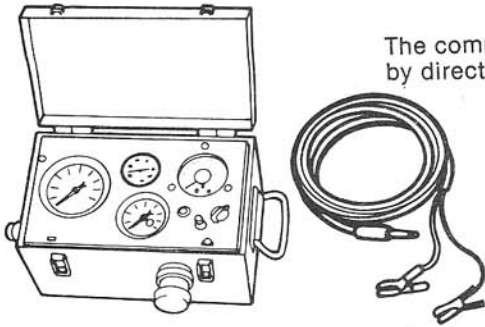
ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	6030	<b>TORQUE MULTIPLIER KIT</b> 12:1 GEAR RATIO, 1800 FT. LBS. OUTPUT CAPACITY. CONSISTS OF: 1. TORQUE MULTIPLIER 2. SUPPORT ARM (OFFSET) 3. RATCHET 4. RATCHET EXTENSION 5. RATCHET EXTENSION 6. SHEAR PIN (ORDER PART NO. 7543) 7. METAL STORAGE BOX	ALL HIGH TORQUE REQUIREMENTS	
	6090	<b>ACCESSORY KIT FOR 6030</b> CONSISTS OF: 1. STRAIGHT SUPPORT ARM 2. STRAIGHT SUPPORT ARM EXTENSION PIPE	USE IN PLACE OF OFFSET SUPPORT ARM WHEN CLEARANCE IS A PROBLEM	
	2865	<b>VACUUM PUMP KIT</b>  6025 VACUUM PUMP 2287 12' WIRE W/CLAMPS 2288 BOX WITH PANEL SWITCHES & DIVIDERS 4548 RESERVOIR CAP AND FITTING 4549 RESERVOIR CAP AND FITTING 0747 RESERVOIR PLUG 0035 RESERVOIR FITTING (1/4-18 M NPT - 7/16-20 M JIC) 6325 COMBINATION GAUGE — VACUUM & PRESSURE	MOST HYDRAULIC SYSTEMS  A62, A64 & A-66 445,550,555 & 545 340 340, 7500, 750 & 755	CREATE VACUUM IN HYD. SYSTEM TO AVOID DRAINING OIL WHILE SERVICING HYD. COMPONENTS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	9663	<b>FREQUENCY METER —</b> VOLTAGE: 75 TO 250 VAC FREQUENCY: 45-75 HERTZ SOLID STATE. 3% ACCURACY OVER ENTIRE RANGE. 120-240V	ALL FORD ELECTRIC GENERATOR SETS	
	BTC-100-118	<b>TESTER, NOZZLE AND                      RELIEF VALVE</b>	ALL FORD PRESSURE WASHERS	
	BTC-100-117	<b>WATER REGULATOR AND                      GAUGE</b>	ALL FORD PRESSURE WASHERS	ORDER DIRECT FROM BRITT TECH. CORP. BRITT, IOWA 50423
	BTC-100-203	<b>FOUR SCALE FLOW METER</b>	ALL FORD PRESSURE WASHERS	
	2708	<b>AIR GAUGE &amp; HOSE ASSY;                      0-10 PSI</b>	ALL FORD PORTABLE HEATERS	

# HYDRAULIC TEST EQUIPMENT

## HYDRO-ANALYZER

The complete Hydraulic System Tester featuring — oil flow measurement by direct flow measuring principle — not affected by back pressure.



- 50, 75 or 100 GPM Models.

- Durable printed circuitry.

- Dual range pressure check - 0-400 PSI and 0-6000 PSI, automatic switch-over from low to high range.
- 20°-240° temperature gauge.
- 12-36V DC power pack with 20' leads - connect to any 12 volt battery.
- Flow control (load valve) can be adjusted to desired pressure or flow and will stay in position permitting operator to make adjustments on tractor or equipment to regulate flow or pressure.
- Ruggedly built for shop or field service.
- Compact — 12"x7"x7 1/4". Weight — 24 lbs.

## Models Available

Model No.	Fluid Connections	Pressure		GPM	
		Low	High	Low	High
2755*	3/4" JIC	0-400	0-6000	0-15	0-50
2760*	3/4" JIC	0-400	0-6000	0-15	0-75
2857*	1" JIC	0-400	0-6000	0-25	0-100

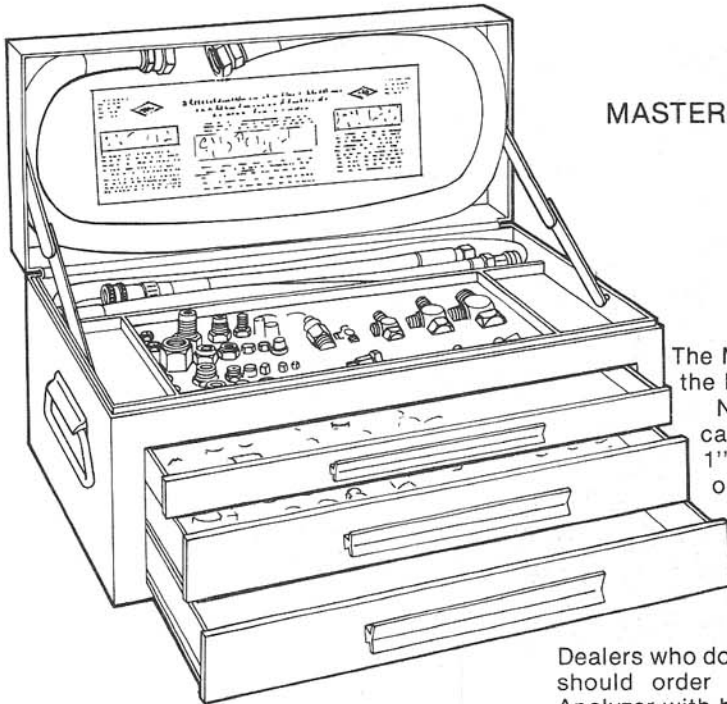
\* Does not include hoses and fittings. Order hoses below. See page 44 thru 47 for required fittings.

## Hoses

For use with above analyzer

Part No.	Description	Model Usage
0093 (1) 2 req'd. (use with 2755 or 2760)	3/4" I.D. 96-1/2" long. 1-1/16"-12 F JIC Swivel x 1-1/16"-12 M JIC. 9000 lb. minimum burst, 2250 lb. working pressure.	2755 (50 GPM) and 2760 (75 GPM)
6007 (1) 2 req'd. (use with 2857) <b>Note:</b> (2) 0785 also required from 2850 kit.	1" ID 120" long 1-5/16"-12 F JIC swivel both ends. 9000 lb. minimum burst, 2250 lb. working pressure.	2857 (100 GPM)

# HYDRAULIC TEST EQUIPMENT



## MASTER HYDRAULIC FITTING KIT

The Master Hydraulic Fitting Kit, when used with the Hydro-Analyzer and/or Hydraulic Hand Pump No. 2850, contains fittings, gauges, adapters, caps and hoses (except Hydra-Analyzer 3/4" or 1" hoses) required to check hydraulic systems on most Ford tractors, backhoes and loaders.

Dealers who do not presently have hydraulic test equipment should order the Master Hydraulic Fitting Kit, Hydra-Analyzer with hoses and hydraulic hand pump. For dealers who have most of this equipment, the following are available separately.

Part No.	Description
2336	Three drawer lockable steel chest (26-1/8" x 12-1/16" x 14-3/4") with die-cut liners and decal.
4523	Set of die-cut liners.
4524	Identification Decal.

Description of fitting kit contents are listed on pages 45-47.

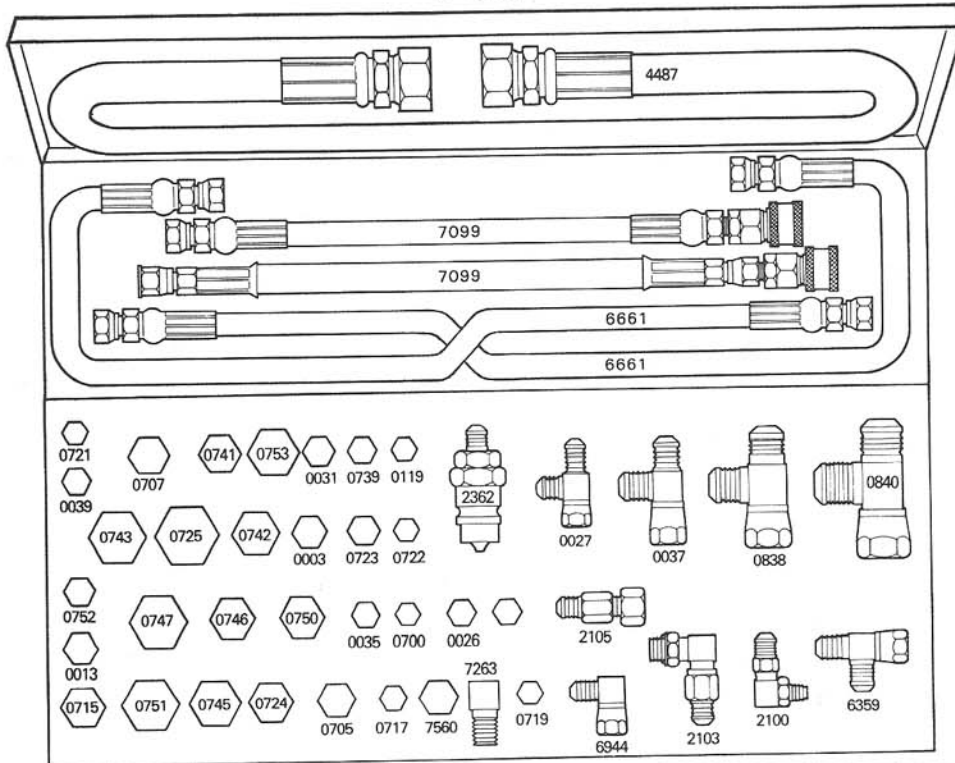
Explanation of fitting abbreviations are as follows:

BSPT — British Standard Pipe Thread.  
 F — Female.  
 M — Male.  
 JIC — Joint Industrial Conference.  
 NPT — National Pipe Thread.  
 SAE — Society Automotive Engineers.  
 SW — Swivel.

# HYDRAULIC TEST EQUIPMENT

## MASTER FITTING KIT NO. 2850

### TOP

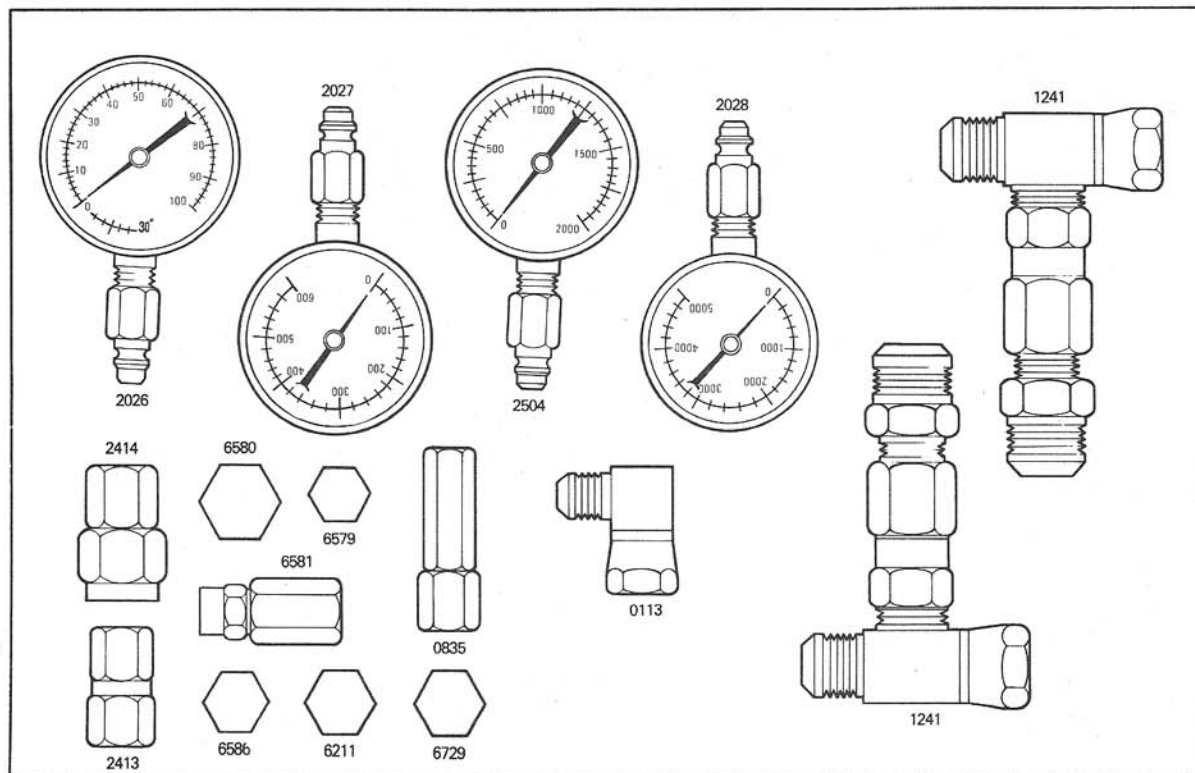


NEW NO.	OLD NO.	DESCRIPTION	NEW NO.	OLD NO.	DESCRIPTION
0003	D-31	7/16-20 M JIC 37° x 9/16-18 F JIC 37°	0746	D-33	1/2-20 M NPT x 1/4-18 F NPT
0013	D-7	7/16-20 M JIC 37° x 9/16-18 M SAE O-Ring	0747	D-34	1/4-18 F NPT x 3/4-14 M NPT
0026	N-1100-M	7/16-20 F JIC 37° Cap (2)	0750	D-37	7/16-20 M JIC 37° x 3/8-18 F NPT
0027	ND-135-4.1	Tee: 7/16-20 M JIC 37° x 7/16-20 F JICSW 37° x 7/16-20 M JIC 37°	0751	D-38	7/16-20 M JIC 37° x 1/2-20 F NPT
0031	D-27	7/16-20 M JIC 37° x 9/16-18 M JIC 37°	0752	D-39	7/16-20 M JIC 37° x 1/2-20 M SAE O-Ring
0035	D-11	7/16-20 M JIC 37° x 1/4-18 M NPT	0753	D-40	7/16-20 M JIC 37° x 7/8-14 M SAE O-Ring
0037	ND-135-6.1	Tee: 9/16-18 M JIC 37° x 9/16-18 F JICSW 37° x 9/16-18 M JIC 37°	0838	ND-135-8.1	Tee: 3/4-16 M JIC 37° x 3/4-16 F JICSW 37° x 3/4-16 M JIC 37°
0039	D-25	7/16-20 M JIC 37° x 7/16-20 M SAE O-Ring	0840	ND-135-10.1	Tee: 7/8-14 M JIC 37° x 7/8-14 F JICSW 37° x 7/8-14 M JIC 37°
0119	N-1100-K	7/16-20 M JIC 37° x 7/16-20 M JIC 37°	2100	D-2	90° Elbow: 7/16-20 M JIC 37° x 1/8-27 M NPTSW
0705	D-36	7/16-20 M JIC 37° x 1/4-18 F NPT	2103	D-6	90° Elbow: 7/16-20 M JIC 37° x 1/2-20 M SAE O-Ring
0707	D-4	7/16-20 M JIC 37° x 3/8-18 M NPT	2105	D-9	7/16-20 M JIC 37° x 5/8-18 Inverted Flare Female
0715	D-8.2	7/16-20 M JIC 37° x 3/4-16 M SAE O-Ring	2362	D-8-F	Male Tip x 7/16-20 M JIC 37°
0717	D-35	7/16-20 M JIC 37° x 1/8-27 F NPT	4487	—	Hose: 1/2 I.D. x 59" W/11/16-12 F JIC SW x 11/16-12 F JIC SW
0719	D-10	3/8-24 M JIC 37° x 7/16-20 M JIC 37°	6359	ND-135-5.1	Tee: 1/2-20 M JIC 37° x 1/2-20 F JICSW 37° x 1/2-20 M JIC 37°
0721	D-12	3/8-24 M SAE O-Ring x 7/16-20 M JIC 37°	6661	NA-925-12	HOSE: 1/4 I.D. x 36" W/7/16-20 F JIC SW x 7/16-20 F JIC SW
0722	D-15	3/8-24 F JIC 37° x 7/16-20 M JIC 37°	6944	—	90° Elbow: 7/16-20 M JIC 37° x 7/16-20 F JICSW 37°
0723	D-16	7/16-20 M JIC 37° x 1/2-20 F JIC 37°	7099	—	HOSE: 1/4 I.D. x 16-1/4 W/7/16-20 F JIC SW x Disconnect
0724	D-17	7/16-20 M JIC 37° x 3/4-16 F JIC 37°	7263	—	90° Elbow: 7/16-20 M JIC 37° x 1/4-18 M NPT
0725	D-18	7/16-20 M JIC 37° x 1 1/16-12 F JIC 37°	7560	—	7/16-20 M JIC 37° x 3/8-19 M BSPT
0739	D-26	7/16-20 M JIC 37° x 1/2-20 M JIC 37°			
0741	D-28	7/16-20 M JIC 37° x 3/4-16 M JIC 37°			
0742	D-29	7/16-20 M JIC 37° x 7/8-14 M JIC 37°			
0743	D-30	7/16-20 M JIC 37° x 1-1/16-12 M JIC 37°			
0745	D-32	7/16-20 M JIC 37° x 7/8-14 F JIC 37°			

# HYDRAULIC TEST EQUIPMENT

MASTER FITTING KIT NO. 2850

## DRAWER NO. 1

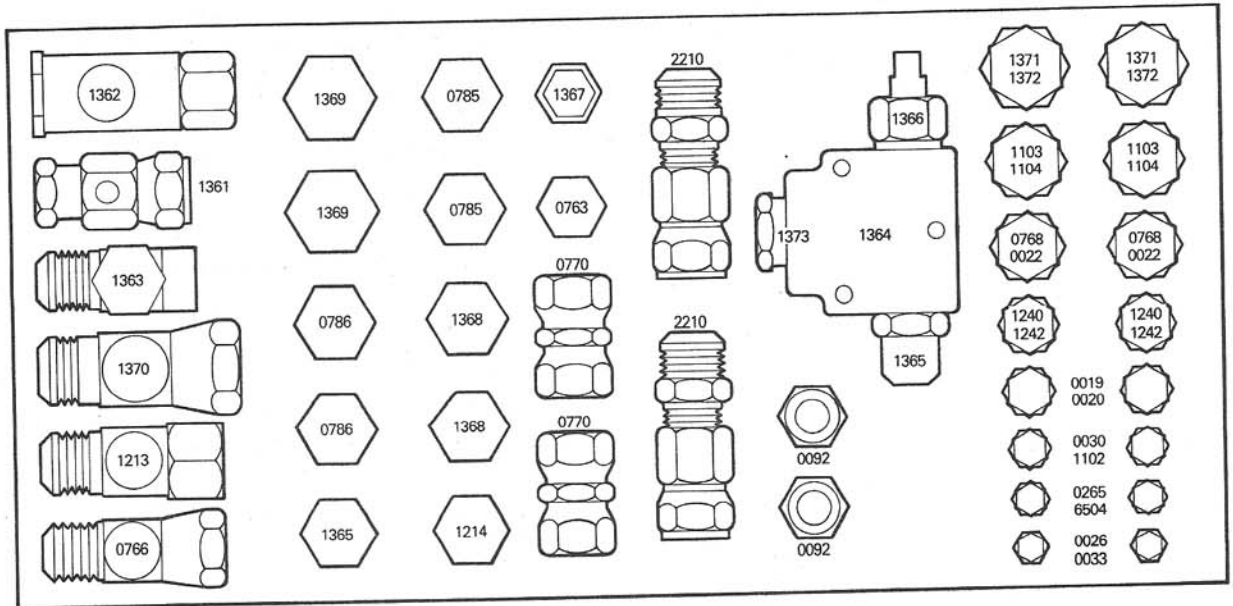


NEW NO.	OLD NO.	QTY.	DESCRIPTION
0113	—	(2)	90° Elbow: 3/4-16 M JIC 37° x 3/4-16 F JICSW 37°
0835	N-1100-H		7/16-20 F JICSW 37° x 1/4-18 F NPT
1241	HY-108		Tee: 7/8-14 M JIC 37° x 7/8-14 F JICSW 37° x 1-1/16-12 M JIC 37°
2026	D-20		Gauge w/Nipple: 2.5" Dia. 0-30" VAC x 0-100PSI
2027	D-21		Gauge w/Nipple: 2.5" Dia. 0-600PSI
2028	D-22		Gauge w/Nipple: 2.5" Dia. 0-5000PSI
2413	—		1/4-18 F NPT x 11/16-20 Inverted Flare Female
2414	—		1/4-18 F NPT x 7/8-18 Inverted Flare Female
2504	N-1100-BP-1		Gauge w/Nipple: 2.5" Dia. 0-2000PSI
6211	—		7/16-20 F JIC 37° x 5/8-18 M SAE O-Ring
6579	—		1/4-18 F NPT x 11/16-20 Inverted Flare Male
6580	—		1/4-18 F NPT x 7/8-18 Inverted Flare Male
6581	—		1/4-18 F NPT x 5/8-18 F 45°
6586	—		9/16-18 M JIC 37° x 1/4-18 F NPT
6729	—		3/4-16 M JIC 37° x 3/4-16 M JIC 37°



# HYDRAULIC TEST EQUIPMENT

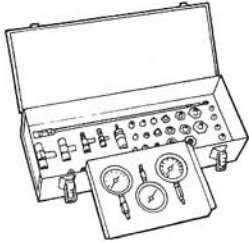
## MASTER FITTING KIT NO. 2850 DRAWER NO. 2



NEW NO.	OLD NO.	QTY.	DESCRIPTION
0019	—	(2)	Plug: 3/4-16 M JIC 37°
0020	—	(2)	Cap: 3/4-16 F JIC 37°
0022	HY-12.1	(2)	Cap: 1-1/16-12 F JIC 37°
0026	N-1100-M	(2)	Cap: 7/16-20 F JIC 37°
0030	—	(2)	Cap: 9/16-18 F JIC 37°
0033	—	(2)	Plug: 7/16-20 M JIC 37°
0092	N-1100-CR-1	(2)	1-1/16-12 M JIC 37° x 1-1/16-12 M JIC 37°
0265	—	(2)	Plug: 1/2-20 M JIC 37°
0763	N-105	—	1-1/16-12 M JIC 37° x 1/2-14 F NPT
0766	N-86-A	—	Tee: 1-1/16-12 M JIC 37° x 1-1/16-12 F JICSW 37° x 1-1/16-12 M JIC 37°
0768	N-1100-CR-9	(2)	Plug: 1-1/16-12 M JIC 37°
0770	N-109	(2)	1-1/16-12 F JICSW 37° x 1-1/16-12 F JICSW 37°
0785	—	(2)	1-1/16-12 M JIC 37° x 1-5/16-12 M JIC 37°
0786	N-1100-CR-5	(2)	1-1/16-12 M JIC 37° x 1-3/16-12 F JIC 37°
1102	—	(2)	Plug: 9/16-18 M JIC 37°
1103	—	(2)	Cap: 1-3/16-12 F JIC 37°
1104	—	(2)	Plug: 1-3/16-12 M JIC 37°
1213	N-95-A	—	Tee: 1-3/16-12 M JIC 37° x 1-3/16-12 F JICSW 37° x 1-3/16-12 M JIC 37°
1214	N-107	—	1-3/16-12 M JIC 37° x 3/4-14 F NPT
1240	HY-107	(2)	Cap: 7/8-14 F JIC 37°
1242	HY-109	(2)	Plug: 7/8-14 M JIC 37°
1361	N-1100-CR-2	—	Tee: 1-1/16-12 F JICSW 37° x 1/2-14 F NPT x 7/16-20 M JIC 37°
1362	N-1100-CR-3	—	Check Valve Elbow: 1-1/16-12 F JICSW 37° x 1-1/16-12 M JIC 37°
1363	N-1100-CR-4	—	Tee: 1/2-14 F NPT x 1-1/16-12 M JIC 37° x 1-1/16-12 F JICSW 37°
1364	N-1100-CR-7	—	Test Block
1365	N-1100-CR-7A	(2)	1-1/16-12 M JIC 37° x 1-1/16-12 M SAE O-Ring
1366	N-1100-CR-8	—	Shut Off Valve
1367	N-1100-CR-11	—	3/4-16 F JICSW 37° x 1/2-14 F NPT
1368	N-1100-CR-12	(2)	1-1/16-12 M SAE O-Ring x 1-5/16-12 M JIC 37°
1369	N-1100-CR-13	(2)	1-1/16-12 M JIC 37° x 1-5/16-12 F JIC 37°
1370	N-1100-CR-14	—	Tee: 1-5/16-12 M JIC 37° x 1-5/16-12 F JICSW 37° x 1-5/16-12 M JIC 37°
1371	N-1100-CR-15	(2)	Cap: 1-5/16-12 F JIC 37°
1372	N-1100-CR-16	(2)	Plug: 1-5/16-12 M JIC 37°
1373	N-1100-CR-10	—	Shut Off Plug
2210	N-1100-CR-6	(2)	1-1/16-12 F JICSW 37° x 1-3/16-12 M JIC 37°
6504	—	(2)	Cap: 1/2-20 F JIC 37°

# HYDRAULIC TEST EQUIPMENT

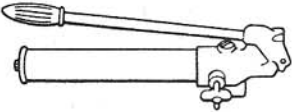
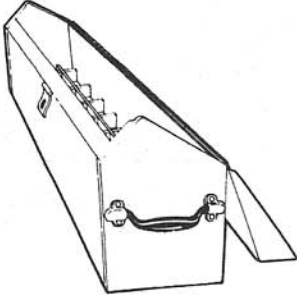
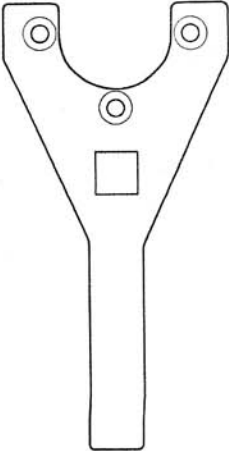
## 2003 UNIVERSAL PRESSURE TEST KIT (Old No. ND-112-F)



Contents of the Universal Pressure Test Kit No. 2003 listed on this page are also included in the Master Fitting Kit No. 2850. However pressure test kit No. 2003 will continue to be available as a separate kit for dealers who may want a 2nd or 3rd pressure test kit for field use. Contents of kit 2003 are listed below and on pages 45 and 46.

NEW NO.	OLD NO.	DESCRIPTION
0003	D-31	7/16-20 M JIC 37° x 9/16-18 F JIC 37°
0013	D-7	7/16-20 M JIC 37° x 9/16-18 M SAE O-Ring
0027	ND-135-4.1	Tee: 7/16-20 M JIC 37° x 7/16-20 F JIC SW 37° x 7/16-20 M JIC 37°
0031	D-27	7/16-20 M JIC 37° x 9/16-18 M JIC 37°
0035	D-11	7/16-20 M JIC 37° x 1/4-18 M NPT
0037	ND-135-6.1	Tee: 9/16-18 M JIC 37° x 9/16-18 F JIC SW 37° x 9/16-18 M JIC 37°
0039	D-25	7/16-20 M JIC 37° x 7/16-20 M SAE O-Ring
0700	D-1	7/16-20 M JIC 37° x 1/8-27 M NPT
0705	D-36	7/16-20 M JIC 37° x 1/4-18 F NPT
0707	D-4	7/16-20 M JIC 37° x 3/8-18 M NPT
0715	D-8.2	7/16-20 M JIC 37° x 3/4-16 M SAE O-Ring
0717	D-35	7/16-20 M JIC 37° x 1/8-27 F NPT
0719	D-10	7/16-20 M JIC 37° x 3/8-24 M JIC 37°
0721	D-12	7/16-20 M JIC 37° x 3/8-24 M SAE O-Ring
0722	D-15	7/16-20 M JIC 37° x 3/8-24 F JIC 37°
0723	D-16	7/16-20 M JIC 37° x 1/2-20 F JIC 37°
0724	D-17	7/16-20 M JIC 37° x 3/4-16 F JIC 37°
0725	D-18	7/16-20 M JIC 37° x 1-1/16-12 F JIC 37°
0739	D-26	7/16-20 M JIC 37° x 1/2-20 M JIC 37°
0741	D-28	7/16-20 M JIC 37° x 3/4-16 M JIC 37°
0742	D-29	7/16-20 M JIC 37° x 7/8-14 M JIC 37°
0743	D-30	7/16-20 M JIC 37° x 1-1/16-12 M JIC 37°
0745	D-32	7/16-20 M JIC 37° x 7/8-14 F JIC 37°
0746	D-33	1/4-18 F NPT x 1/2-20 M NPT
0747	D-34	1/4-18 F NPT x 3/4-14 M NPT
0750	D-37	7/16-20 M JIC 37° x 3/8-18 F NPT
0751	D-38	7/16-20 M JIC 37° x 1/2-20 F NPT
0752	D-39	7/16-20 M JIC 37° x 1/2-20 M SAE O-Ring
0753	D-40	7/16-20 M JIC 37° x 7/8-14 M SAE O-Ring
0838	ND-135-8.1	Tee: 3/4-16 M JIC 37° x 3/4-16 F JIC SW 37° x 3/4-16 M JIC 37°
0840	ND-135-10.1	Tee: 7/8-14 M JIC 37° x 7/8-14 F JIC SW 37° x 7/8-14 M JIC 37°
2026	D-20	Gauge: 0-30" Vac. x 0-100 PSI, 2.5" Dial w/Male Disconnect (0731)
2027	D-21	Gauge: 0-600 PSI, 2.5" Dial w/Male Disconnect (0731)
2028	D-22	Gauge: 0-5000 PSI, 2.5" Dial w/Male Disconnect (0731)
2100	D-2	90° Elbow: 7/16-20 M JIC 37° x 1/8-27 M NPT SW, Assy.
2101	D-3	7/16-20 M JIC 37° x 1/4-18 M NPT, Assy.
2102	D-5	7/16-20 M JIC 37° x 1/2-20 M SAE O-Ring, Assy.
2103	D-6	90° Elbow: 7/16-20 M JIC 37° x 1/2-20 M SAE O-Ring, Assy.
2105	D-9	7/16-20 M JIC 37° x 5/8-18 Inverted Flare Female
2106	D-19-HP	Hose: 3/16" I.D. x 16-1/4" Long x 7/16-20 F JIC SW 37° x Female Disc.
2362	D-8-F	Coupling, Male Disconnect x 7/16-20 M JIC 37°
2366	D-24-N	Tool Box w/Die Cut Pads and Decal (0735 Die Cut for Fittings Only) (0754 Decal)
6359	ND-135-5.1	Tee: 1/2-20 M JIC 37° x 1/2-20 F JIC SW 37° x 1/2-20 M JIC 37°
7263	—	90° Elbow: 7/16-20 M JIC 37° x 1/4-18 M NPT








# HYDRAULIC TEST EQUIPMENT

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	MODEL APPLICATION	REMARKS
	2170	<b>HYDRAULIC HAND PUMP —</b> W/1/4" JIC TEE & JIC CAPS. 9000 PSI. 0.10 CU. IN PER STROKE	BACKHOE LOADER	USE WITH PRESSURE TEST KIT NO. 2003
	0755	<b>STORAGE BOX —</b> 23-1/4" x 8-1/4" x 10-1/4"		FOR HYDRO- ANALYZER HOSES AND FITTINGS
	7351    7352    7353    7354	<b>SPANNER WRENCH — METRIC CYLINDER GLAND</b>  THROAT; 2-5/8" (67MM) PIN CIRCLE; 3.937" (100MM) PIN DIAMETER; .465" (12MM)  THROAT; 2-5/8" (67MM) PIN CIRCLE; 3.543" (90MM) PIN DIAMETER; .312" (8MM)  THROAT; 2-1/8" (54MM) PIN CIRCLE; 3.543" (90MM) PIN DIAMETER; .465" (12MM)  THROAT; 2-1/8" (54MM)49 PIN CIRCLE; 3.150" (80MM) PIN DIAMETER; .312" (8MM)	BACKHOE & LOADERS WITH METRIC CYLINDER GLANDS	





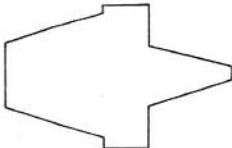

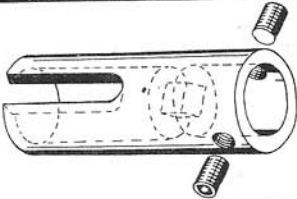
# **COMBINE SPECIAL SERVICE TOOLS**

**Order Through Tractor & Implement  
Operations Parts Department**

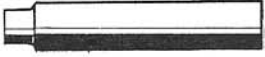




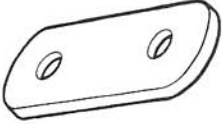

# COMBINE SPECIAL TOOLS

ILLUSTRATION	TOOL NUMBER CLA-181	DESCRIPTION	MODEL APPLICATION	REMARKS
	800.0	PULLER BRIDGE	620 622 630 640 642	
	801.0	SPINDLE	620 622 630 640 642	
	802.0	MOUNTING PLATES	630 640 642	
	803.0	PULLER PLATE	620 622 630 640 642	
	807.1	GUIDE BUSHING	630 640 642	
	809.0	SOCKET SPANNER	620 622 630 640 642	
	810.0	EXTENSION PIN	620 627 630 640 642	









# COMBINE SPECIAL TOOLS

ILLUSTRATION	(PART NO.) OLD PART NO.	DESCRIPTION	USAGE CODE	REMARKS
	CLA-181 844.0	KEY DRIFT – 11.8 MM WIDE	620 622 630 640 642	
	CLA-181 847.0	PULLER SLEEVE – M 45 x .15	630 640	
	CLA-181 849.0	ADAPTER WITH BALL	620 622 630 640 642	
	CLA-181 858.0	RETAINER SLEEVE	620	
	CLA-181 860.0	GAUGE – VARIABLE DRUM DRIVE	620	
	CLA-181 868.0	GUIDE PLATE	630 640	
	CLA-181 869.0	ADAPTOR COUPLING	620 622 630 640 642	

# COMBINE SPECIAL TOOLS


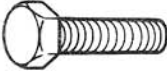
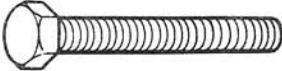



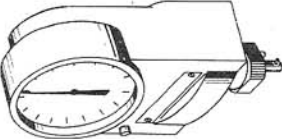
ILLUSTRATION	(PART NO.) OLD PART NO.	DESCRIPTION	USAGE CODE	REMARKS
	CLA-181 875.0	LOCATOR TOOL	620	1 REQ.
	CLA-181 877.0	SPINDLE	620 622 630 640 642	1 REQ.
	CLA-181 879.0	LOCATOR DISC	620 622 630 640 642	2 REQ.
	CLA-181 880.0	HANDLE NUT	620 622 630 640 642	1 REQ.
	CLA-181 889.0	THREADED PIN	630 640 642	2 REQ.
	CLA-181 894.0	FLAT BAR	630 640 642	1 REQ.
	CLA-181 895.0	HAMMER BOLT	630 640 642	3 REQ.

# COMBINE SPECIAL TOOLS

ILLUSTRATION	(PART NO.) OLD PART NO.	DESCRIPTION	USAGE CODE	REMARKS
	CLA-181 896.0	LOCATOR TOOL	630 640 642	1 REQ.
	CLA-181 897.0	GAUGE - VARIABLE DRUM DRIVE	630 640	1 REQ.
	CLA-181 907.0	SPACER	642	3 REQ.
	CLA-181 908.0	PULLER ARM	642	3 REQ.
	CLA-181 909.0	LOCATOR TOOL	642	1 REQ.
	CLA-181 872.0	HIGH PRESSURE HOSE	620 622 630 640 642	1 REQ.
	CLA-177 899.0	AXIAL - GROOVED BALL BEARING 51103	620 622 630 640 642	1 REQ.
	CLA-235 073.0	COUNTERSUNK BOLT - M 10 x 30	630 640 642	4



# COMBINE SPECIAL TOOLS

ILLUSTRATION	(PART NO.) OLD PART NO.	DESCRIPTION	USAGE CODE	REMARKS
	CLA-235 983.0	AXIAL – GROOVED BALL BEARING 51305	620 622 630 640 642	1 REQ.
	CLA-236 936.0	HEX BOLT – BM 16 x 120 8.8	630 640 642	3 REQ.
	CLA-237 375.0	HEX BOLT – M 16 x 300 8.8	630 640 642	1 REQ.
	CLA-237 379.0	HEX BOLT – M 16 x 75 8.8	630 640	1 REQ.
	CLA-237 573.0	HEX BOLT – M 12 x 50 8.8	642	1 REQ.
	CLA-244 059.0	HEXAGON COUNTERSUNK NUT – M 16 10	630 640 642	1 REQ.
	CLA-181 838.0	SPEED INDICATOR	620 622 630 640 642	1 REQ.



Ford Tractor Operations  
Ford Motor Company

2500 East Maple Road  
Troy, Michigan 48084

GENERAL SALES LETTER NO. GP-449

May 12, 1981

All U. S. Dealers

Subject: New Engine Water Pump Seal Installation Tool No. 4672

Effective with Engine Date Code 1C23, a new design water pump assembly was incorporated in all Models 2600 through TW-30 and industrial derivatives.

A new Service Tool No. 4672 is available and should be used to ensure proper installation of the new cassette-type seal assembly. Improper installation of the seal may result in water pump leakage. Service information on the new water pump assembly will be covered in a forthcoming Service Bulletin.

Dealer cost of the new Tool No. 4672 is \$12.50. To order, use Common Tool Order Form No. FTO 8091, and send to your Regional Office.

A handwritten signature in cursive script that reads "John J. L. Johnson".

John J. L. Johnson  
General Sales Manager

ND/vs



Ford Tractor Operations  
Ford Motor Company

2500 East Maple Road  
Troy, Michigan 48084

June 2, 1981

GENERAL SALES LETTER NO. GP-455

ALL U. S. DEALERS

Subject: Availability of new Master Hydraulic Fitting Kit

For years, many different types and sizes of hydraulic fittings, tees, elbows and hoses have been released for pressure and flow testing on various model tractors, backhoes and loaders. Because of the large number of these items in your service shop, it is often difficult to locate the correct fitting for the job being performed. To overcome this, a Master Hydraulic Fitting Kit has been developed which contains fittings, hoses, caps, tees, etc., required for servicing most Ford equipment. The trays and drawers in the Kit have die-cut plastic liners to match the configuration of each fitting; a decal affixed to the inside of the lid shows the location, description and part number of each fitting contained in the Kit. All fittings are stored in the top and first two drawers. A third drawer is provided for future expansion.

Many dealers may already have several of the fittings included in the new Master Kit. For these dealers, it is suggested that they purchase the new complete kit and use the extra fittings to equip field service trucks. If the extra fittings are not required, you may purchase the tool chest which includes the die-cut liners and identification decal, insert your existing fittings, and then order the missing fittings necessary to make a complete kit.

While the Master Kit contains fittings and gauges required for pressure and flow testing, the Universal Pressure Test Kit No. 2003 (old No. ND-112-F) will continue to be available for dealers who may want a second or third pressure kit for field use.

Contents, description and prices of the Master Fitting Kit are as follows:

<u>Part No.</u>	<u>Description</u>	<u>Price</u>	
2850	Master Hydraulic Fitting Kit includes:	\$620*	\$729**
	1 - Rugged deluxe steel 3-drawer lockable tool chest		
	1 - Set of die-cut inserts and identification decal		
114	- Fittings, caps, plugs, tees, elbows		
	4 - Gauges: 0-30 vac/0-100 psi; 0-600 psi; 0-5000 psi; and 0-2000 psi		

\* Special introductory price for six months from date of this letter.

\*\* Regular ongoing price after six months from date of this letter.

The following are available separately:

<u>Part No.</u>	<u>Description</u>	<u>Price</u>	
2336	1 - Steel chest with die-cut liners and decal (Less fittings, gauges and hoses)	\$150*	\$175**
4523	1 - Set of die-cut liners	-	\$37.50
4524	1 - Identification decal	-	\$8.00

\* Special introductory price for six months from date of this letter.

\*\* Regular ongoing price after six months from date of this letter.

A brochure is attached that identifies and describes the contents of the Master Kit.

When you consider the time that can be saved by your shop personnel not having to "hunt" for fittings when they are needed, I am sure you will agree that the investment in the fitting kit will quickly be recovered.

In addition to the savings offered if the kit is purchased within six months from the date of this letter, an additional 10% will be discounted if you combine your fittings order with other Nuday tools so that your total order amounts to \$1,000 or more. See General Sales Letter No. GP-411 dated January 20, 1981, for details on the additional 10% discount.

To order, use Common Tool Order Form No. FTO-8091 and send to your Regional Office.



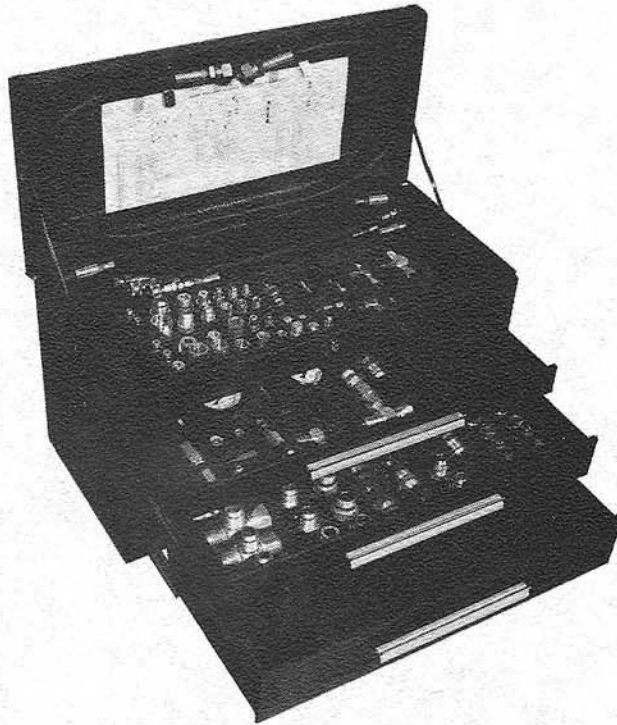
John J. L. Johnson  
General Sales Manager

ND/vs  
Attachment

# 2850 MASTER HYDRAULIC TEST AND FITTINGS KIT

FOR

FORD TRACTOR & EQUIPMENT DEALERS



- Combines the various current Ford Hydraulic Kits into one.
- Provides an Index and secure, organized storage for Test Fittings, Gages and Hoses.
- Provides extra space for made-up fittings and other items a dealer may also use in Hydraulic Testing.
- Provides all major fittings Ford Tractor requires to go with a Hydra-Analyzer and the main hoses for Flow Testing.
- Available also as an empty box with die cut Liners and Index.

Tractors  
Equipment



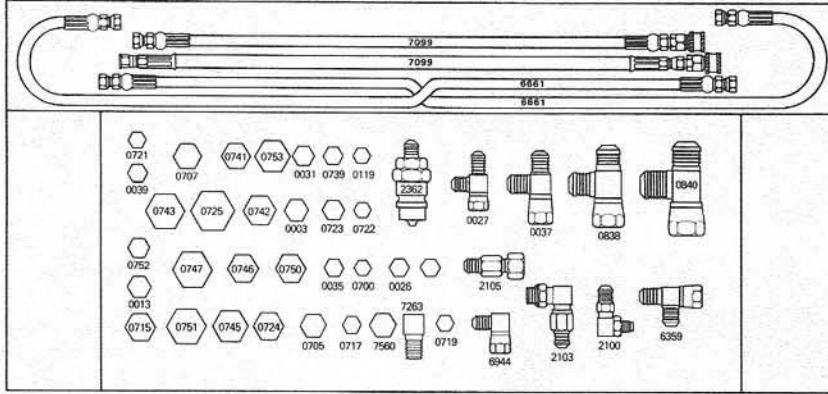
THE NUDAY COMPANY  
2291 ELLIOTT AVE.  
TROY, MICHIGAN 48084  
PHONE: (313) 585-2450  
TELEX NO. 231226 TRMI



# 2850 Master Hydraulic for Ford Tractors a

## Index of Co

### Top of Box \*



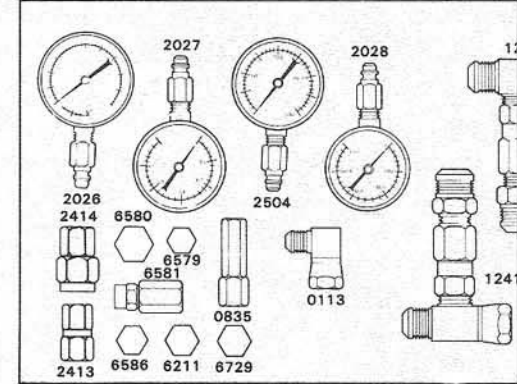
PART NOS.		QTY.	DESCRIPTION
NEW NO.	OLD NO.		
0003	D-31	1	7/16-20 M JIC 37° X 9/16-18 F JIC 37°
0013	D-7	1	7/16-20 M JIC 37° X 9/16-18 M SAE O-Ring
0026	N-1100-M	2	7/16-20 F JIC 37° CAP
0027	ND-135-4.1	1	Tee: 7/16-20 M JIC 37° X 7/16-20 F JICSW 37° X 7/16-20 M JIC 37°
0031	D-27	1	7/16-20 M JIC 37° X 9/16-18 M JIC 37°
0035	D-11	1	7/16-20 M JIC 37° X 1/4-18 M NPT
0037	ND-135-6.1	1	Tee: 9/16-18 M JIC 37° X 9/16-18 F JICSW 37° X 9/16-18 M JIC 37°
0039	D-25	1	7/16-20 M JIC 37° X 7/16-20 M SAE O-Ring
0119	N-1100-K	1	7/16-20 M JIC 37° X 7/16-20 M JIC 37°
0700	D-1	1	7/16-20 M JIC 37° X 1/8-27 M NPT
0705	D-36	1	7/16-20 M JIC 37° X 1/4-18 F NPT
0707	D-4	1	7/16-20 M JIC 37° X 3/8-18 M NPT
0715	D-8.2	1	7/16-20 M JIC 37° X 3/4-16 M SAE O-Ring
0717	D-35	1	7/16-20 M JIC 37° X 1/8-27 F NPT
0719	D-10	1	3/8-24 M JIC 37° X 7/16-20 M JIC 37°
0721	D-12	1	3/8-24 M SAE O-Ring X 7/16-20 M JIC 37°
0722	D-15	1	3/8-24 F JIC 37° X 7/16-20 M JIC 37°
0723	D-16	1	7/16-20 M JIC 37° X 1/2-20 F JIC 37°
0724	D-17	1	7/16-20 M JIC 37° X 3/4-16 F JIC 37°
0725	D-18	1	7/16-20 M JIC 37° X 1 1/16-12 F JIC 37°
0739	D-26	1	7/16-20 M JIC 37° X 1/2-20 M JIC 37°
0741	D-28	1	7/16-20 M JIC 37° X 3/4-16 M JIC 37°
0742	D-29	1	7/16-20 M JIC 37° X 7/8-14 M JIC 37°
0743	D-30	1	7/16-20 M JIC 37° X 1 1/16-12 M JIC 37°
0745	D-32	1	7/16-20 M JIC 37° X 7/8-14 F JIC 37°
0746	D-33	1	1/2-20 M NPT X 1/4-18 F NPT
0747	D-34	1	1/4-18 F NPT X 3/4-14 M NPT
0750	D-37	1	7/16-20 M JIC 37° X 3/8-18 F NPT
0751	D-38	1	7/16-20 M JIC 37° X 1/2-20 F NPT
0752	D-39	1	7/16-20 M JIC 37° X 1/2-20 M SAE O-Ring
0753	D-40	1	7/16-20 M JIC 37° X 7/8-14 M SAE O-Ring
0838	ND-135-8.1	1	Tee: 3/4-16 M JIC 37° X 3/4-16 F JICSW 37° X 3/4-16 M JIC 37°
0840	ND-135-10.1	1	Tee: 7/8-14 M JIC 37° X 7/8-14 F JICSW 37° X 7/8-14 M JIC 37°
2100	D-2	1	90° Elbow: 7/16-20 M JIC 37° X 1/8-27 M NPTSW
2103	D-6	1	90° Elbow: 7/16-20 M JIC 37° X 1/2-20 M SAE O-Ring
2105	D-9	1	7/16-20 M JIC 37° X 5/8-18 Inverted Flare Female
2362	D-8-F	1	7/16-20 M JIC 37° X Male Disconnect
*4487			Hose, 1/2 ID X 69" Long w/1-1/6-12 F JIC Swivel, each end
6661	NA-925-12	2	HOSE: 1/4 I.D. X 36 IN. LG. W/7/16-20 F JIC SW. 37° each end JIC SW. 37°
6359	ND-135-5.1	1	Tee: 1/2-20 M JIC 37° X 1/2 20 F JICSW 37° X 1/2-20 M JIC 37°

### Top of Box Continued

6944	----	1	90° Elbow: 7/16-20 M JIC 37°
7099	----	2	HOSE: 1/4 I.D. X 16-1/4 IN. L Disconnect
7263	----	1	90° Elbow: 7/16-20 M JIC 37°
7560	----	1	7/16-20 M JIC 37° X 3/8-19

\*Hose in Lid of Box

### First Drawer



PART NOS.		QTY.	DESCRIPTION
NEW NO.	OLD NO.		
0113	----	1	90° Elbow 3/4-16 M JIC 37°
0835	N-1100-H	1	7/16-20 F JICSW 37° X 1/4-18 M JIC 37°
1241	HY-108	2	Tee: 7/8-14 M JIC 37° X 7/16-20 M JIC 37°
1394	N-1100-N	1	Hand Valve 1/4 FNPT X 1/4-18 M JIC 37°
2026	D-20	1	Gauge w/Male Disconnect: 1 1/2-20 M JIC 37°
2027	D-21	1	Gauge w/Male Disconnect: 1 1/2-20 M JIC 37°
2028	D-22	1	Gauge w/Male Disconnect: 1 1/2-20 M JIC 37°
2413	----	1	1/4-18 F NPT X 1 1/16-20 M JIC 37°
2414	----	1	1/4-18 F NPT X 7/8-18 Inv M JIC 37°
2504	N-1100-BP-1	1	Gauge w/Male Disconnect: 1 1/2-20 M JIC 37°
6211	----	1	7/16-20 F JIC 37° X 5/8-18 F NPT
6579	----	1	1/4-18 F NPT X 1 1/16-20 M JIC 37°
6580	----	1	1/4-18 F NPT X 7/8-18 Inv M JIC 37°
6581	----	1	1/4-18 F NPT X 5/8-18 F NPT
6586	----	1	9/16-18 M JIC 37° X 1/4-18 F NPT
6729	----	1	*3/4-16 M JIC 37° X 3/4-16 M JIC 37°

NOTE: Kit Also Includes:

2336 Tool Box with Die Cut Foam Pads and Index

Replacement Parts:

4523 Die Cut Foam Pads; set  
4524 Index of Contents Decal

## SERVICE TESTED & APPROVED

The contents of this kit are shown in the above facsimile of the Index of Contents Decal. It provides all the major fittings gages and hoses required to perform the hydraulic service operations in Ford Tractor Repair Manuals. This is for all current models and most past models. For flow testing only the Hydra-Analyzer and hoses need to be added. (see back page) This kit provides the equivalent of the following kits.

New No.	Old No.	Description
2003	ND-112-F	Universal Pressure Test Kit
2016	NFX-500	Flow Test Kit
2179	N-1100	Pressure Check Kit
2399	—	Power Steering Fittings Kit

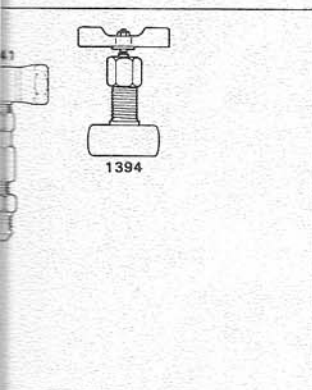
# Test & Fittings Kit and Equipment



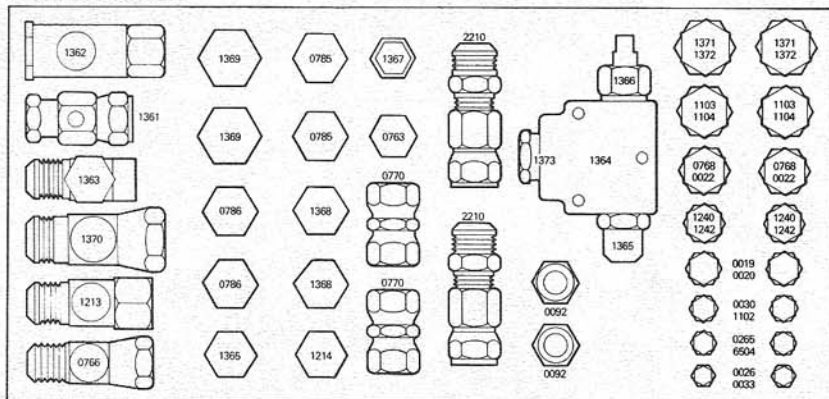
THE NUDAY EQUIPMENT COMPANY  
OF CANADA (1968) LTD.  
P.O. BOX 789  
WINDSOR, ONT. N9A6N8  
PHONE: (313) 585-2450  
TELEX NO. 231226 TRMI

## Contents

1 X 7/16-20 F JICSW 37°  
1 W/7/16-20 F JIC SW 37° X Female  
1 X 1/4-18 M NPT  
1 M BSPT



### Second Drawer



NEW NO.	OLD NO.	QTY.	DESCRIPTION
0019	----	2	Plug: 3/4-16 M JIC 37°
0020	----	2	Cap: 3/4-16 F JIC 37°
0022	HY-12.1	2	Cap: 1 1/16-12 F JIC 37°
0026	N-1100-M	2	Cap: 7/16-20 F JIC 37°
0030	----	2	Cap: 9/16-18 F JIC 37°
0033	----	2	Plug: 7/16-20 M JIC 37°
0092	N-1100-CR-1	2	1 1/16-12 M JIC 37° X 1 1/16-12 M JIC 37°
0265	----	2	Plug: 1/2-20 M JIC 37°
0763	N-105	1	1 1/16-12 M JIC 37° X 1/2-14 F NPT
0766	N-86-A	1	Tee: 1 1/16-12 M JIC 37° X 1 1/16-12 F JICSW X 1 1/16-12 M JIC 37°
0768	N-1100-CR-9	2	Plug: 1 1/16-12 M JIC 37°
0770	N-109	2	1 1/16-12 F JICSW 37° X 1 1/16-12 F JICSW 37°
0785	----	2	1 1/16-12 M JIC 37° X 1 5/16-12 M JIC 37°
0786	N-1100-CR-5	2	1 1/16-12 M JIC 37° X 1 3/16-12 F JIC 37°
1102	----	2	Plug: 9/16-18 M JIC 37°
1103	----	2	Cap: 1 3/16-12 F JIC 37°
1104	----	2	Plug: 1 3/16-12 M JIC 37°
1213	N-95-A	1	Tee: 1 3/16-12 M JIC 37° X 1 3/16-12 F JICSW 37° X 1 3/16-12 M JIC 37°
1214	N-107	1	1 3/16-12 M JIC 37° X 3/4-14 F NPT
1240	HY-107	2	Cap: 7/8-14 F JIC 37°
1242	HY-109	2	Plug: 7/8-14 M JIC 37°
1361	N-1100-CR-2	1	Tee: 1 1/16-12 F JICSW 37° X 1/2-14 F NPT X 7/16-20 M JIC 37°
1362	N-1100-CR-3	1	Check Valve Elbow: 1 1/16-12 F JICSW 37° X 1 1/16-12 M JIC 37°
1363	N-1100-CR-4	1	Tee: 1/2-14 F NPT X 1 1/16-12 M JIC 37° X 1 1/16-12 F JICSW 37°
1364	N-1100-CR-7	1	Test Block
1365	N-1100-CR-7A	2	1 1/16-12 M JIC 37° X 1 1/16-12 M SAE O-Ring
1366	N-1100-CR-8	1	Shut Off Valve
1367	N-1100-CR-11	1	3/4-16 F JICSW 37° X 1/2-14 F NPT
1368	N-1100-CR-12	2	1 1/16-12 M SAE O-Ring X 1 5/16-12 M JIC 37°
1369	N-1100-CR-13	2	1 1/16-12 M JIC 37° X 1 5/16-12 F JIC 37°
1370	N-1100-CR-14	1	Tee: 1 5/16-12 M JIC 37° X 1 5/16-12 F JICSW 37° X 1 5/16-12 M JIC 37°
1371	N-1100-CR-15	2	Cap: 1 5/16-12 F JIC 37°
1372	N-1100-CR-16	2	Plug: 1 5/16-12 M JIC 37°
1373	N-1100-CR-10	1	Shut Off Plug
2210	N-1100-CR-6	2	1 1/16-12 F JICSW 37° X 1 3/16-12 M JIC 37°
6504	----	2	Cap: 1/2-20 F JIC 37°

81 April (Part No. 4524)  
Form 81040801 CIR

## FOR FORD TRACTOR DEALERS

This new kit eliminates the duplications of fittings in the previous kits; it has, in addition the JIC caps and plugs for the sizes not previously covered. It now covers the full range of JIC sizes used by Ford Tractor. It also includes many loose fittings previously announced but not included in any kit; and provides extra space for future releases, and for extra fittings or made-up fittings that a dealer may also be using.

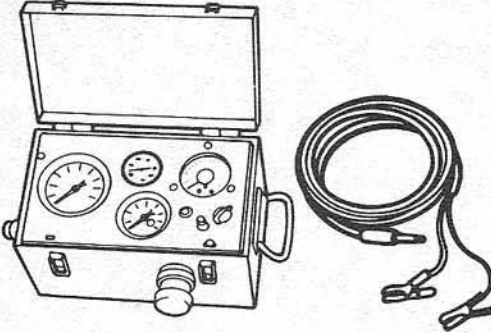
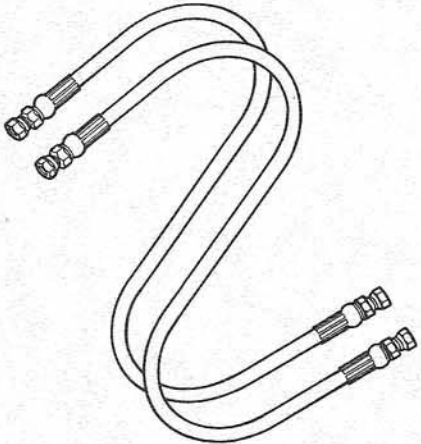
## Also Available:

2336 Master Hydraulic Test & Fittings Storage Box

This is the box, die cut liners and Index of Contents from the 2850 Kit, without any fittings, gages or hoses. It is for the dealer who has a large supply of fittings, gages and hoses and wants to organize them, make them accessible to his service personnel and to identify which of those are missing and need to be replaced.

# FLOW TESTING EQUIPMENT

## For use with the 2850 Master Kit

Illustration	Part Number	Description
	2755	Hydra-Analyzer, Dual Range 0-15 and 0-50 GPM 1-1/16-12 JIC M 37° Hose Connections
	2760	Hydra-Analyzer Dual Range 0-15 and 0-75 GPM 1-1/16-12 JIC M 37° Hose Connections
	2857	Hydra-Analyzer Dual Range 0-25 and 0-100 GPM 1-5/16-12 JIC M 37° Hose Connections
	0093 (2) Req.	Hose - 3/4 ID x 96" long 9000 psi rated 1-1/16-12 JIC F 37° Swivel Fittings, both ends
	6007 (2) Req.	Hose - 1" I.D. x 120" long 9000 psi rated 1-5/16-12 JIC F 37° Swivel Fittings, both ends

All Hydra-Analyzers read hydraulic flow, pressure and temperature. They have a hand valve to throttle flow and raise pressure for checking pump performance and relief valve settings. Flow is read electronically in gallons per minute from a turbine wheel by a dual-range meter. Pressure is read by a pair of pressure gages. The low pressure gage reads 0-400 psi. The high pressure gage reads 0-6000 psi. The low pressure gage is protected by an automatic switch-over valve. The rest of the instrument is protected by a blow-out disk. Temperature is read by a dial ther-

mometer to 116 °C (240° F). Power is provided by a 20 ft. battery cable with battery clamps. It can be connected to any 12 to 36 volt DC battery or electrical system.

Select the Flow Test Equipment to go with your 2850 Kit as follows:

Flow Range	Hydra Analyzer	Hoses
0-50 GPM	2755	(2) 0093
0-75 GPM	2760	(2) 0093
0-100 GPM	2857	(2) 6007

**Tractors  
Equipment**



All tools should be ordered on **COMMON TOOL ORDER FORM FTO 8091**  
and forwarded to your district office.

SUPPLIED BY:

THE NUDAY COMPANY  
2291 ELLIOTT AVE.  
TROY, MICHIGAN 48084  
PHONE: (313) 585-2450  
TELEX NO. 231226 TRMI

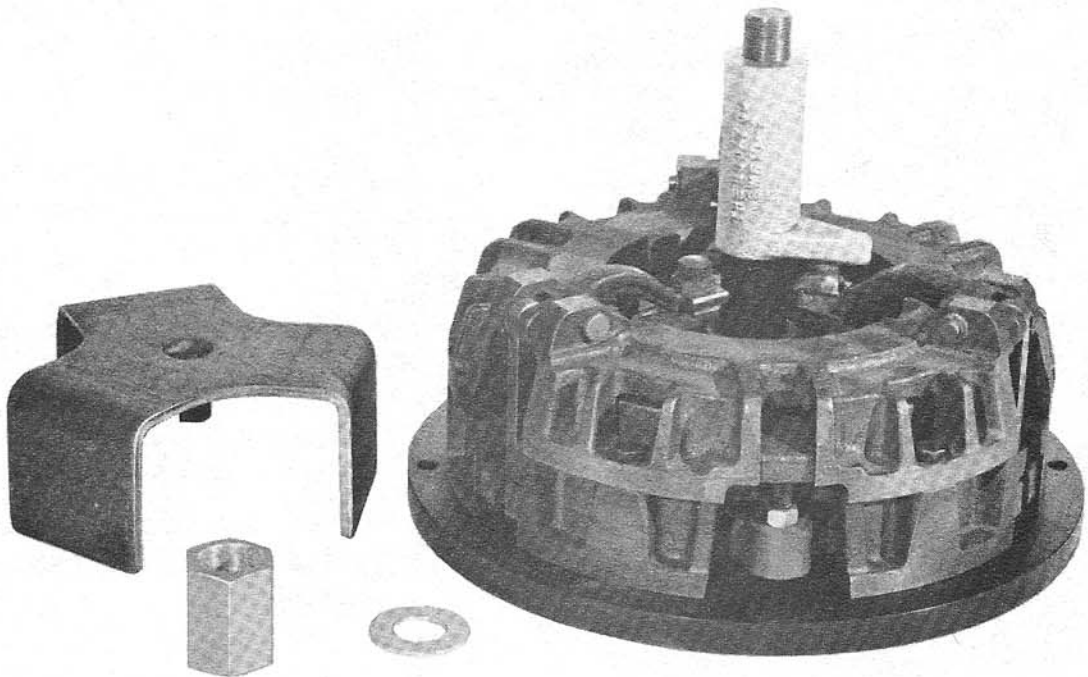


THE NUDAY EQUIPMENT COMPANY  
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P.O. BOX 789  
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PHONE: (313) 585-2450  
TELEX NO. 231226 TRMI



**OPERATING INSTRUCTIONS**  
for

**2706 & 2829 TOOL SETS**  
for the  
**FORD 1900 TRACTOR**  
**DUAL CLUTCH**



**NOTE:** When using, secure the fixture base to a bench at the two outer screw holes or with some suitable clamps.

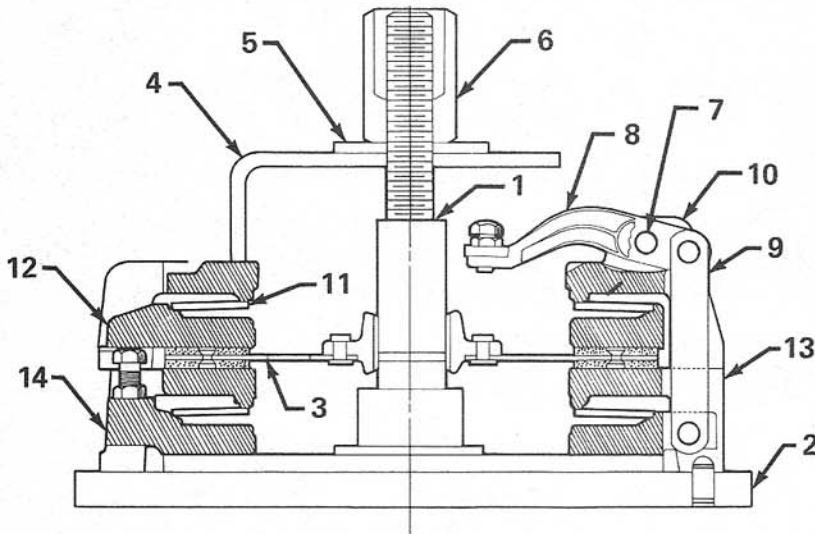
THE NUDAY COMPANY  
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TELEX NO. 231226

# FORD 1900 Dual Clutch

## Disassembly and Reassembly



Place the 1596 Spacer on the spindle of the 1595 Fixture Base. Place the dual clutch assembly on the fixture. Position it so that the dowels in the base enter the dowel holes in the clutch. See Figure 1.

**NOTE:** If the clutch cannot be aligned with the dowels, the PTO Clutch Disk may be off center. It must be positioned on center to fit on the fixture.

Put the 1594 Compression Bridge, the 1281 Thrust Washer and the 1280 Spindle Nut on the fixture. Tighten the nut until the release levers are loose on their pivot pins.

Remove the pivot pins and swing the release levers and links out of the way. See Figure 2.

Remove the outer clutch cover, the diaphragm spring, the PTO Pressure Plate, the inner clutch cover and the diaphragm spring.

Inspect and service the clutch parts according to Ford Tractor Service Procedures.

Reassemble in reverse order.

**NOTE:** Make certain that the PTO Clutch Disk is installed with the hub facing up.

Once the release lever pivot pins are installed, do not remove the compression bridge. Adjust the clutch per the clutch adjustment procedures.

Item No.	Tool No.	Description
1	1596	Spacer, Gage Lever
2	1595	Base, Fixture
3	—	Disk, PTO Clutch
4	1594	Bridge, Compression
5	1281	Washer, Thrust
6	1280	Nut, Spindle
7	—	Pin, Release Lever
8	—	Lever, Release
9	—	Link, Release Lever
10	—	Cover, Clutch Outer
11	—	Spring, Diaphragm
12	—	Plate, PTO Pressure
13	—	Cover, Clutch Inner
14	—	Spring, Diaphragm
15	—	Plate, Drive Pressure

Figure 1 — Fixture Setup for Disassembly and Reassembly

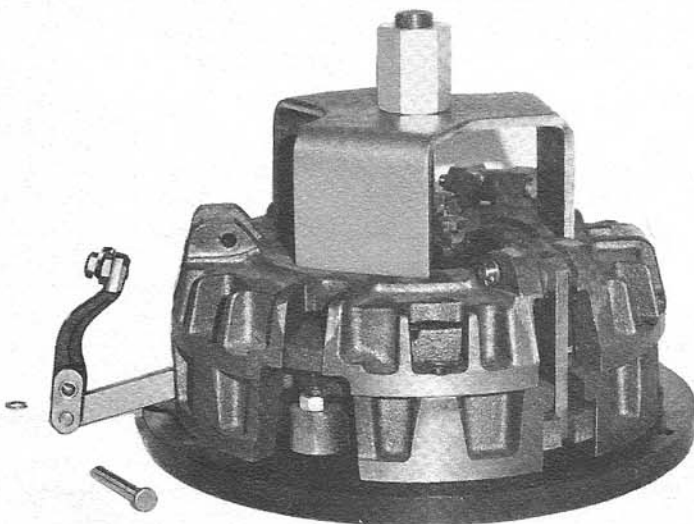
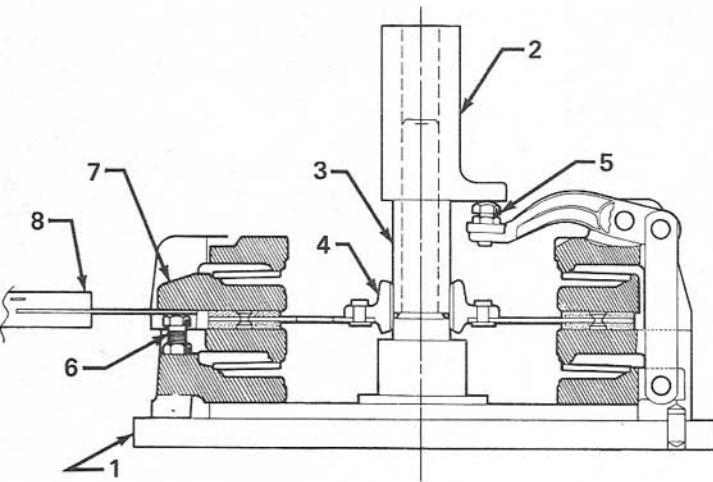


Figure 2 — Clutch Disassembly; Removal of Release Lever Pivot Pin.

# FORD 1900 DUAL CLUTCH ADJUSTMENT



Item No.	Tool No.	Description
1	1595	Base, Fixtures
2	1267	Gage, Release Lever
3	1596	Spacer, Lever Gage
4	—	PTO Clutch Disk
5	—	Bolt, Release Lever Height Adjustment
6	—	Bolt, PTO Clutch Release Adjustment
7	—	Plate, PTO Pressure
8	—	Feeler Gage 1.7 mm (.067 in.)

Figure 3 — Fixture Setup For Adjustment

Mount the dual clutch on the fixture and compress it until the release levers are loose, according to the Disassembly Instructions. Fasten the clutch to the 1595 Fixture Base with (4) of the (6) bolts which hold the clutch on the flywheel. Torque them to 13-18 NM (9.5-13.0 ft. lbs.).

**CAUTION:** Do not use bolts to pull the clutch down to the fixture base. With (4) bolts this can cause the clutch to cock and strip the threads in the base plate.

Remove the 1594 Compression Bridge.

Place the 1267 Release Lever Gage on the Fixtures as shown in Figure 3.

**CAUTION:** Make certain that the 1596 Spacer moves freely in the hub of the PTO Clutch disk so that its gaging function is not interfered with.

Swing the 1267 Lever Gage over each release lever height adjustment bolt. If the gap between the bolt head and 1267 Gauge or between the 1596 Spacer and 1267 Gauge is greater than 0.7 mm (0.028 in.), readjust the bolt so that the gap is less than that limit.

Re-check the setting after the locknut has been tightened.

Check the clearance between the PTO Clutch Release Adjustment Bolts and the PTO Pressure Plate with a feeler gage. See Figure 3.

If the gap is  $1.7 \text{ mm} \pm 0.1 \text{ mm}$  ( $0.067 \text{ in.} \pm .004$ ) it is acceptable. If not, readjust the bolt so the gap is within the limits given.

Recheck the setting after the locknut has been tightened.

Re-install the 1594 Compression Bridge, the 1281 Thrust Washer and the 1280 Spindle Nut. See Figure 1. Remove the (4) mounting bolts. Remove the 1594 Compression Bridge.

**CAUTION:** Removing the (4) bolts without the use of the compression bridge can cause the threads of the bolt or fixture base to strip.

# FORD 1900 DUAL CLUTCH INSTALLATION

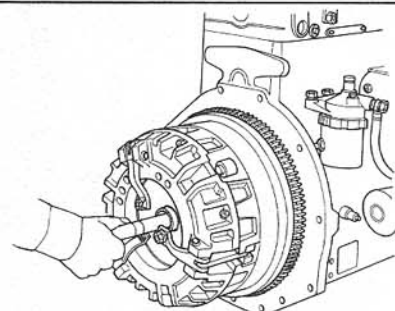


Figure 4 — Installation of 1900 Dual Clutch

Insert the 1582 Arbor in the clutch assembly from the release lever side. See Figure 4. Put the drive pressure plate on the 1582 Arbor. Lift this up to the flywheel. Position it so that the 1582 Arbor can be inserted into the crankshaft pilot hole. Insert and start the (6) mounting bolts.

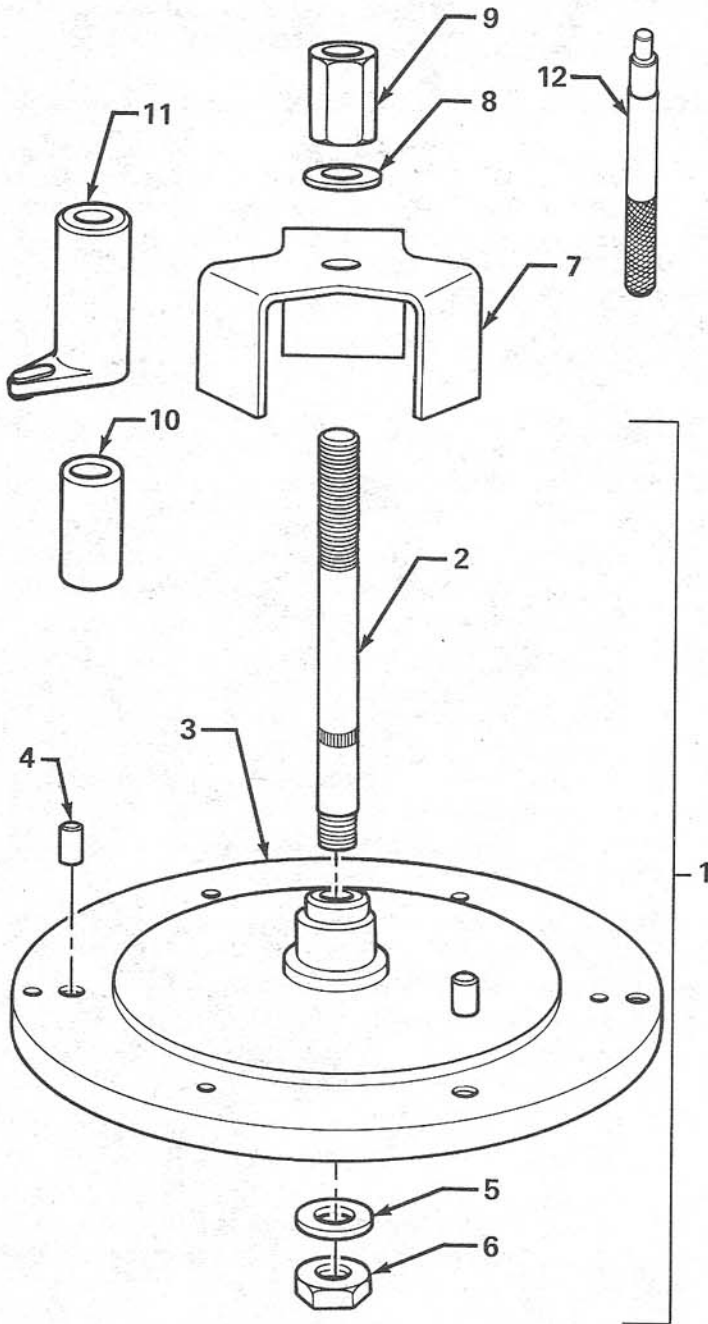
**NOTE:** The clutch assembly must be aligned with the two dowels in the flywheel for the screws to start.

Tighten the (6) bolts progressively until the clutch is flush to the flywheel. Torque the (6) bolts to Ford Specifications.

Remove the 1582 Arbor.

# REPLACEMENT PARTS

## 2706 & 2829 TOOL KITS for FORD 1900 DUAL CLUTCH



Item No.	Part No.	Quantity	Description
1	1595	1	Base Assembly Fixture

### Consists of:

2	1285	1	Spindle
3	1204	1	Plate — Base
4	7862	2	Dowel Pin
5	0353	1	Washer
6	1294	1	Nut

### Loose Parts:

7	1594	1	Bridge — Compression
*8	1281	1	Washer — Thrust
*9	1280	1	Nut — Spindle
10	1596	1	Spacer — Gage Lever
*11	1267	1	Gage — Release Lever
12	1582	1	Arbor, Clutch Aligning

\*Supplied with 2829 Kit only, Part of old SW-510 Universal Clutch Fixture.

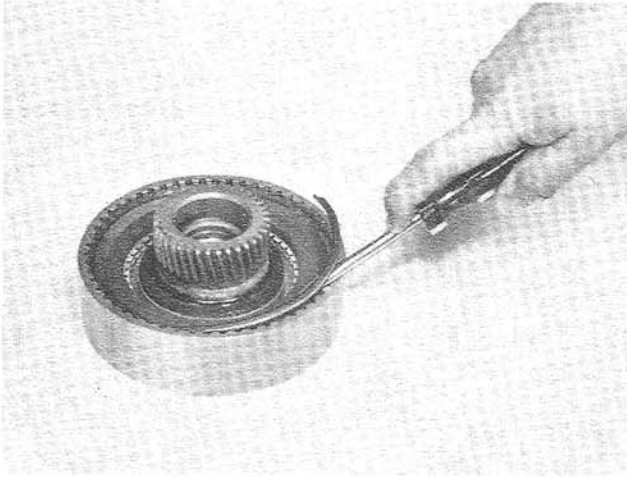
### WARRANTY

These tools are warranted to be free from defects and workmanship under normal use and service for a period of six months after the sale of the product by The Nuday Company. Nuday's sole obligation under this Warranty shall be to repair or replace any defective product or parts thereof, which are returned to Nuday's factory, transportation charges pre-paid within the six month period, and which upon examination are proved to Nuday's satisfaction to be defective. The Warranty shall not apply to any product or part which has been subject to misuse, negligence or accident. The Nuday

Company shall not be responsible for any special or consequential damages and the Warranty as set forth is in lieu of all other warranties either expressed or implied.

However, Nuday makes no warranty of merchantability in respect of any of the goods offered in this catalog for any particular purpose other than that stated in this catalog and any applicable manufacturer's shop or service manuals referred to therein, including any subsequent service bulletins.

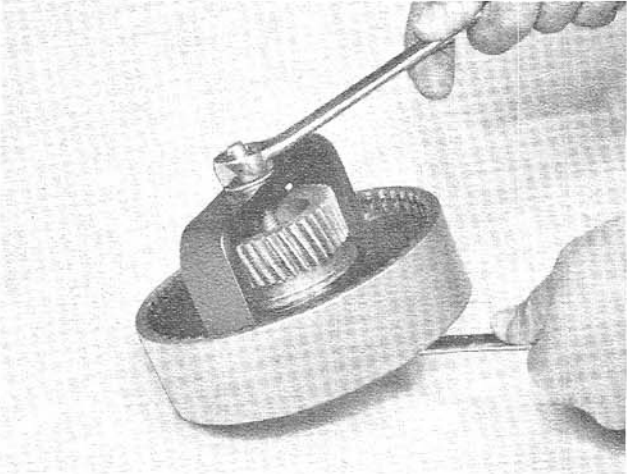
OPERATING INSTRUCTIONS  
**TOOL NO. 2700 - Compressor,  
Select-O-Speed Direct Drive Clutch**



**[Replaces old Tool N-488 (2129)]**

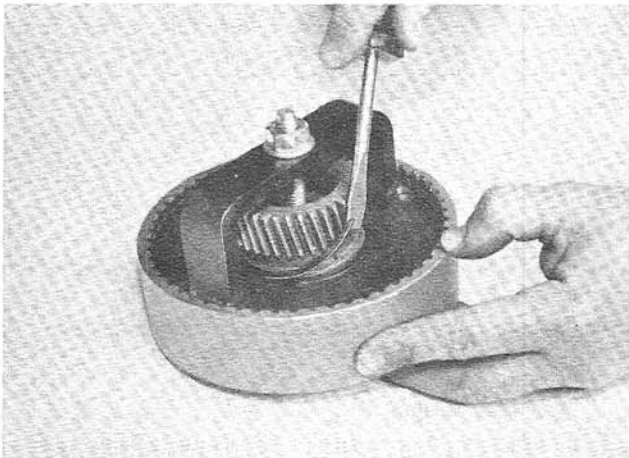
Remove clutch plate snap ring and clutch plates.

Put compressor plate on top of bellville springs.



Insert bolt with washer and tighten until spirallock ring is loose in its groove.

Unwind spirallock ring using a small screwdriver or similar tool.



Remove tool. Remove clutch piston.

Service clutch per Ford service procedures.

Reassemble in reverse order. Use a new spirallock ring.

THE NUDAY COMPANY  
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TROY, MICHIGAN 48084  
PHONE: (313) 585-2450  
TELEX NO. 231226

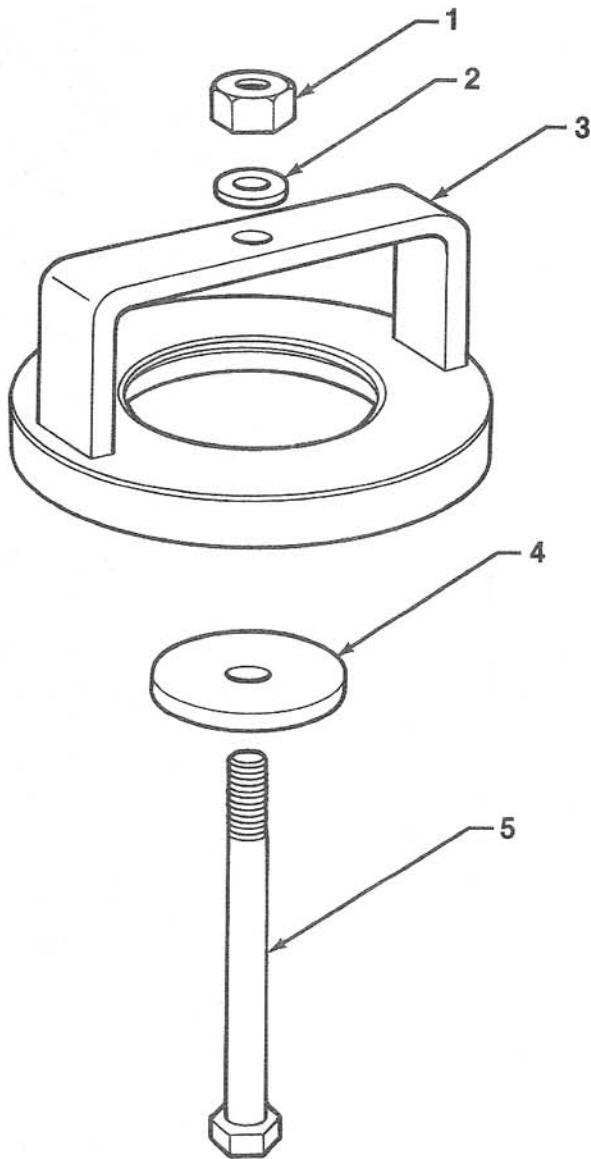


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THE NUDAY EQUIPMENT COMPANY  
OF CANADA (1968) LTD.  
P.O. BOX 789  
WINDSOR, ONT. N9A6N8  
PHONE: (313) 585-2450  
TELEX NO. 231226

# REPLACEMENT PARTS

## 2700 - Compressor Direct Clutch



<u>Item No.</u>	<u>Part No.</u>	<u>Description</u>
1	0166	Nut
2	4082	Washer
3	7656	Compressor
4	7657	Washer
5	1527	Bolt

### WARRANTY

These tools are warranted to be free from defects and workmanship under normal use and service for a period of six months after the sale of the product by The Nuday Company. Nuday's sole obligation under this Warranty shall be to repair or replace any defective product or parts thereof, which are returned to Nuday's factory, transportation charges pre-paid within the six month period, and which upon examination are proved to Nuday's satisfaction to be defective. The Warranty shall not apply to any product or part which has been subject to misuse, negligence or accident. The Nuday

Company shall not be responsible for any special or consequential damages and the Warranty as set forth is in lieu of all other warranties either expressed or implied.

However, Nuday makes no warranty of merchantability in respect of any of the goods offered in this catalog for any particular purpose other than that stated in this catalog and any applicable manufacturer's shop or service manuals referred to therein, including any subsequent service bulletins.



Ford Tractor Operations  
Ford Motor Company

2500 East Maple Road  
Troy, Michigan 48084

GENERAL SALES LETTER NO. GP-301

March 28, 1979

All U.S. Dealers

Subject: Essential Service Tools - New Ford TW Series Tractor

The new tools listed on the attached brochure are required to properly service the new TW series Ford tractors. The brochure describes each tool and its usage.

Dealers attending the Las Vegas introductory show received a preprinted tool order form. If you have one of these forms (FTO 8091), you need only list your dealership name and address, sign the order, and send it to your District office. If you do not have one of the preprinted forms, then use the standard form FTO 8091, add Kit No. 2642 and any other tools you may wish to order, and send it to your District office. The cost of the complete Kit is only \$295. Deferred billing is available, if requested.

A handwritten signature in black ink that reads "John J. L. Johnson". The signature is written in a cursive style with a large initial "J".

John J. L. Johnson  
General Sales Manager

ND/ve  
Attachment



# 2642 TOOL KIT

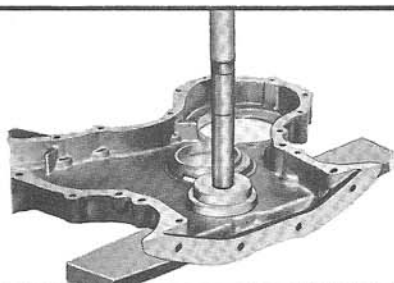
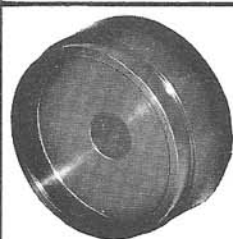


## for FORD TW TRACTORS

**FACTORY TESTED & APPROVED**

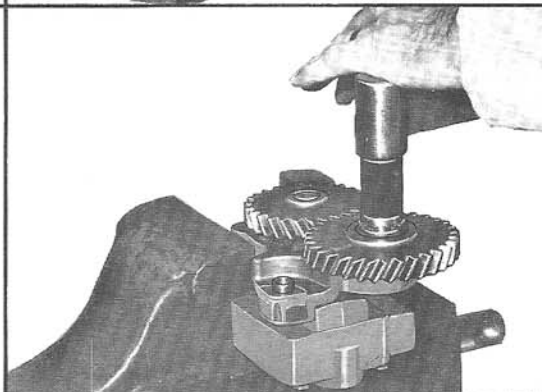
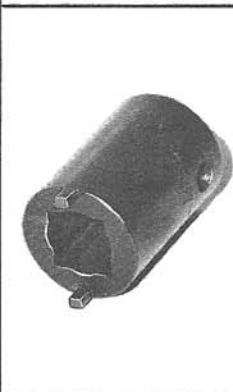
The 2642 Tool Kit provides the new Special Tools required in addition to the current service tools for the new TW10, TW20, and TW30 tractors. These tools are required to service the engine front oil seal, the engine oil pump, the TW series clutch, the TW power brake, and the TW low pressure hydraulic system.

### ENGINE TOOLS



#### 7536 Installer-Oil Seal

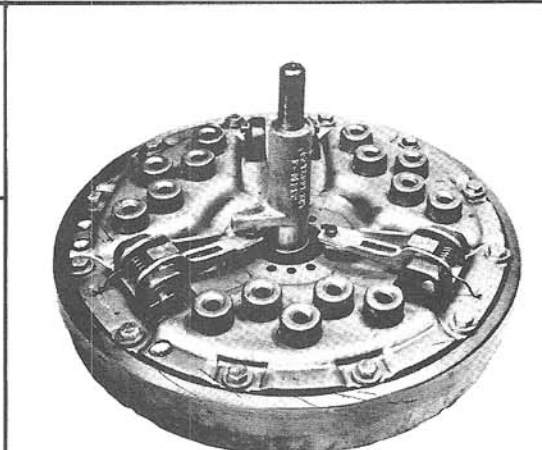
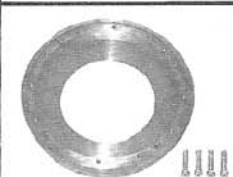
The 7536 Installer is used to properly install the engine front oil seal used on all Ford Tractor Engines. It is used with the 1442 Handle which is a current service tool.



#### 7537 Spanner Socket-Oil Pump Idler Slotted Nut

The 7537 Spanner Socket is used to remove, install and properly torque the idler gear bearing slotted nut. This is on the oil pump of all 6 cylinder diesel engines.

### CLUTCH TOOLS



#### 1193 Spacer-Gage 2680 Adapter Set-Clutch Fixture

The 2680 Adapter Set and 1193 Spacer are used with the base and release lever gage of the 2142 Universal Clutch Fixture. The adapter is mounted on the fixture base with the cap screws provided. When the TW series clutch is put in the adapter, the clutch springs are compressed to the correct pre-set height required to set the release lever height. The spacer and release lever gage are then used to set the release lever height.

**THE NUDAY COMPANY**



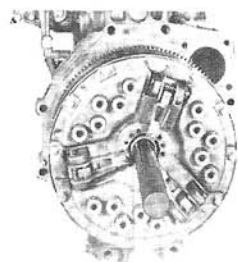
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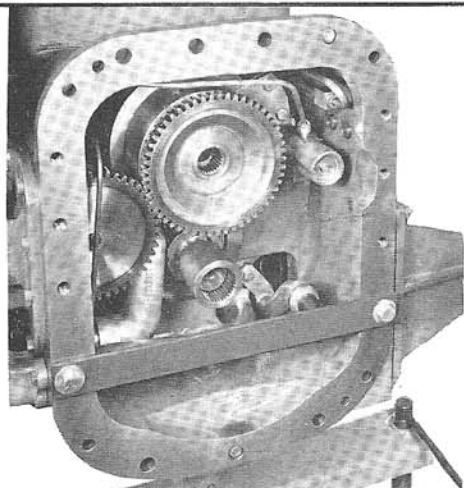
## CLUTCH TOOLS (Cont.)



### 7429 Arbor-Clutch Alignment

The 7429 Arbor is used to position the friction disc of the TW series clutch and keep it aligned when installing the clutch assembly.

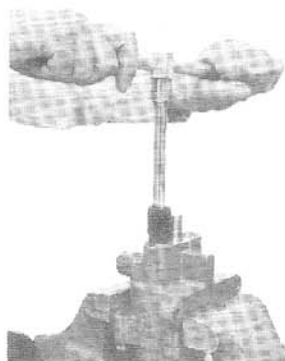
## TRANSMISSION TOOLS



### 7402 Locator-Low Pressure Hydraulic Pump Inlet Tube

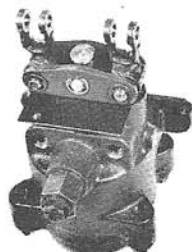
The 7402 Locator is used to position the inlet tube of the low pressure hydraulic pump in the axle housing so that it aligns with the inlet port in the transmission when assembling the axle housing to the transmission case.

## POWER BRAKE TOOLS



### 7445-Spanner Socket-Power Brake Valve Retainer

The 7445 Spanner Socket is used to remove and install the two slotted retainers on the power brake directional valve plungers on the TW 30 tractor.



### 7446 Gage-Power Brake Pedal Setting

The 7446 Gage is used to set the brake pedal lash of the power brake directional valve on the TW 30 tractor.

All tools should be ordered on COMMON TOOL ORDER FORM FTO 8091 and forwarded to your district office.

# THE NUDAY COMPANY

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Inter Office

Ford Tractor Operations  
Tractor and Implement Operations  
North America

GENERAL SALES LETTER NO. GP-338

December 13, 1979

All U.S. Dealers

Subject: Service Tools for Series 1000 Tractors

There are two new tool kits required to service the new Series 1000 Tractors, Models 1100 through 1900. Dealers handling all models, including the 1900 with dual clutch (Live PTO), will need both Kits No. 2684 and 2706. Dealers not handling the Model 1900 with dual clutch (Live PTO) will need Kit No. 2684 only.

Kit numbers and dealer cost are as follows:

Kit No.	Model Usage	Dealer Cost	
		Catalog Price	Program Price*
2684	1100 through 1900 except 1900 with dual clutch (Live PTO)	\$267.00	\$215.00
2706	1900 w/dual clutch (Live PTO)	287.50	230.00

\* Program price effective until 90 days from date of this letter.

NOTE: The SW-510-2 Release Lever Gauge and SW-510-9 Spindle Nut, which are part of SW-510 Universal Clutch Adjusting Kit, are required with 2706 Kit. Most dealers have the SW-510 Kit and to avoid duplication and additional cost, the SW-510-2 Release Lever Gauge and SW-510-9 Spindle Nut are not included with the new 2706 Kit. If these two parts have been lost or misplaced, they may be ordered separately.

Model usage and description of the tools are listed on the attached brochure. Tool numbers and prices of the individual tools are listed on the reverse side of this letter. To order, use Common Tool Order Form FTO-8091 and forward to your District office. Deferred billing is available if requested.

John J. L. Johnson  
General Sales Manager

ND/kp  
Attachment

Individual Part Numbers and Prices on Tools  
Contained in Kit Numbers 2684 and 2706

	<u>Catalog Kit Price</u>	<u>Program Kit Price</u>
Kit No. 2684	\$267.00	\$215.00
Consists of:		

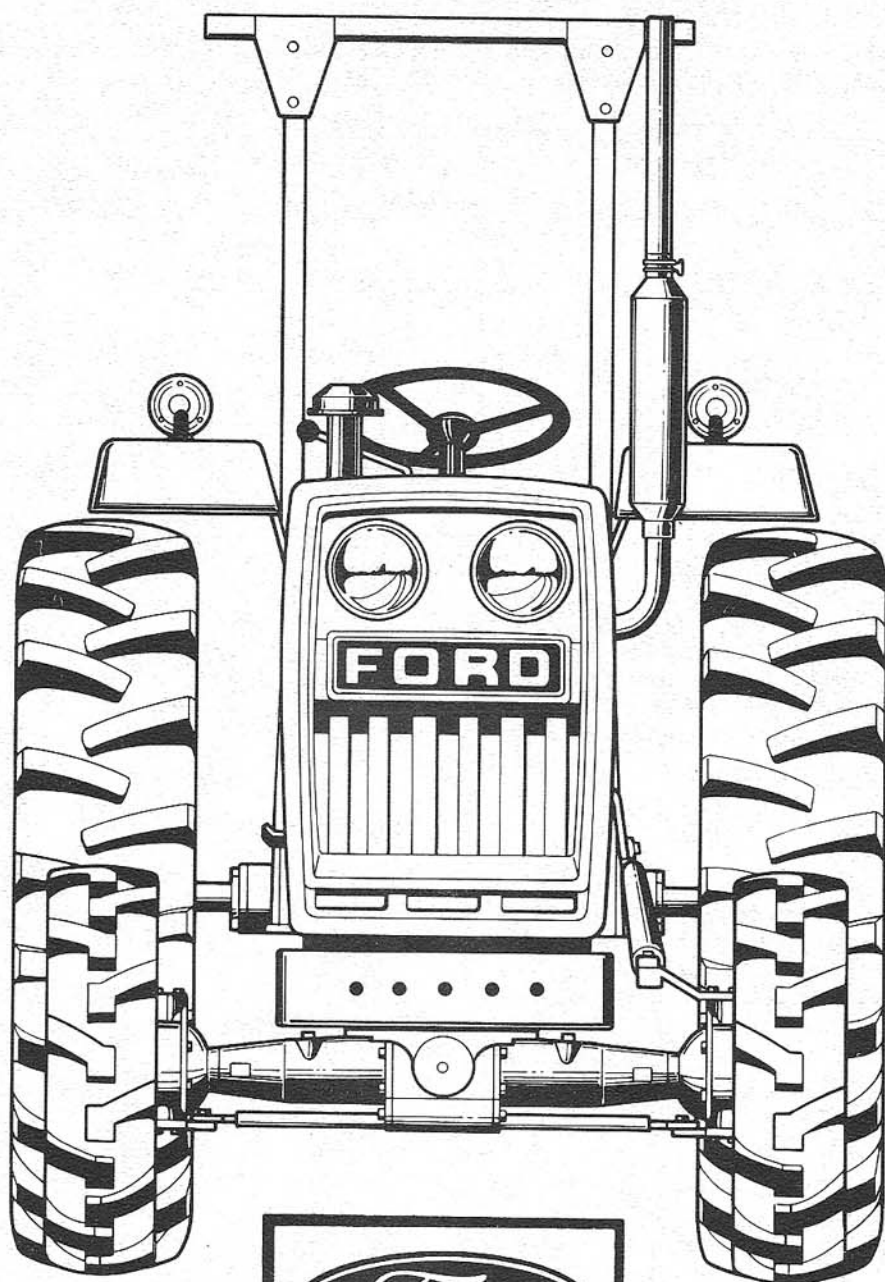
<u>Tool Number</u>	<u>Description</u>	
1579	Holder, Ball	10.50
1580	Holder, Ball	6.50
1581	Arbor, Clutch Aligning	8.00
1583	Guide, Pinion Shaft Pin	11.80
1584	Guide, Front Oil Seal	18.10
1585	Driver, Piston Pin	8.20
1586	Driver, Pre-chamber	12.70
1587	Driver, Valve Guide Seal	14.10
1588	Socket, Injection 27 mm Special	15.30
1589	Wrench, Combustion Chamber	24.20
1591	Installer, Oil Seal	22.40
1592	Installer, Oil Seal	27.50
4036	Arbor, Clutch Aligning	8.50
4037	Guide, Differential Shaft Cross Pin	11.60
7560	Fitting, Hyd. Pressure Test	5.10
7778	Handle, 5/8 Driver	17.80
7983	Installer, Oil Seal	19.40
7984	Installer, Oil Seal	20.10
7985	Installer, Oil Seal	19.70

Kit No. 2706	\$287.50	\$230.00
Consists of:		

1582	Arbor, Clutch Aligning	16.20
1594	Bridge, Compression	57.00
1595	Base Plate and Spindle Assembly	220.00
1596	Spacer, Release Lever Gauge	9.50

NOTE: In addition to the tools contained in Kit No. 2706, the SW-510-2 Release Lever Gauge and SW-510-9 Spindle Nut contained in previously released SW-510 Universal Clutch Adjusting Kit, are required.

# SPECIAL SERVICE TOOLS FOR FORD 1000 SERIES TRACTORS



- The special tools featured in this brochure are new tools for the new 1000 Series Ford Tractors.
- The tools that are shown used with these new tools are the previously released tools, shown in the Ford Service Tools and Equipment Catalog SE 3565
- Ordering Information — Tools are to be ordered from the Ford Tractor District using the Common Tool Order Form FTO 8091 and forward to the District Office.
- All Tools are priced and shipped F.O.B. Factory. Shipping charges will be added to the invoice.

SUPPLIED BY:

THE NUDAY COMPANY  
2291 ELLIOTT AVE.  
TROY, MICHIGAN 48084  
PHONE: (313) 585-2450  
TELEX NO. 231226



THE NUDAY EQUIPMENT COMPANY  
OF CANADA (1968) LTD.  
P.O. BOX 789  
WINDSOR, ONT. N9A6N8  
PHONE: (313) 585-2450  
TELEX NO. 231226

# SPECIAL SERVICE TOOLS FOR FORD 1000 SERIES TRACTORS

The Ford 1000 Series Tractors are a new line of tractors which offer all the standard and optional features of the Ford line of tractors, but have engine, clutch, axle, transmission and other components unique to this series.

Service of these tractors is accomplished with a combination of the special tools already used for present Ford Tractors and some new special tools.

The new tools are grouped into kits and optional items which provide convenient options for selecting tools which most closely fit the service needs of different customer groups.


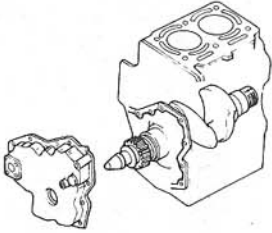

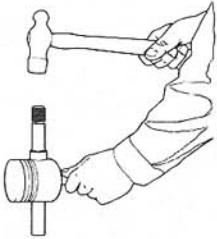
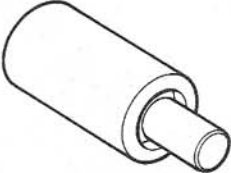
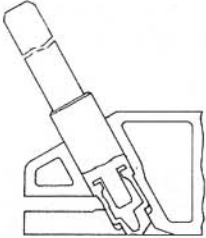
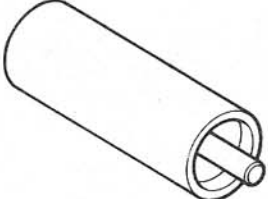
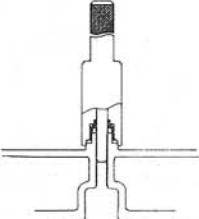
There is an essential tool kit which has the special tools that apply to most models and without which the service operations they perform are difficult or impossible. There is a tool kit for the dual clutch of the 1900 Tractor. This kit provides a fixture for the disassembly and assembly of the clutch and for setting the release lever height and an arbor for installing the clutch. The clutch is difficult to assemble without the fixture and the setting of the release lever heights cannot be done without it. There is also an engine compression test adaptor and metric taps and thread gages.

These tools provide for the service of the 1000 Series Tractor quickly, economically and correctly. Each is fully described in this brochure.

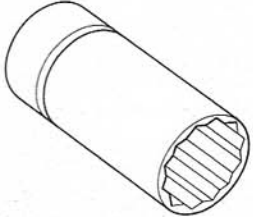
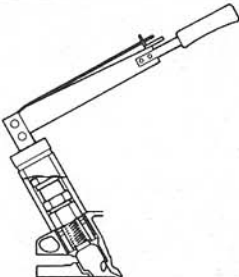
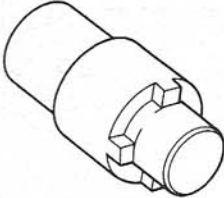
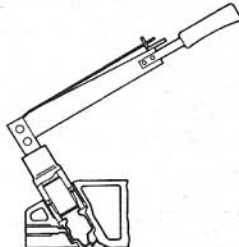
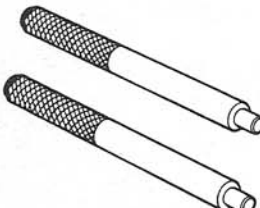
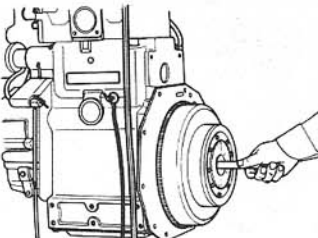
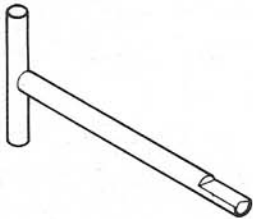
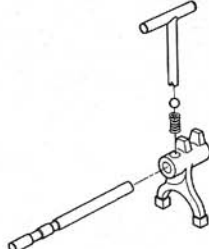

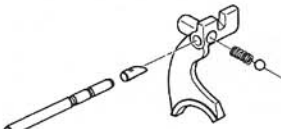

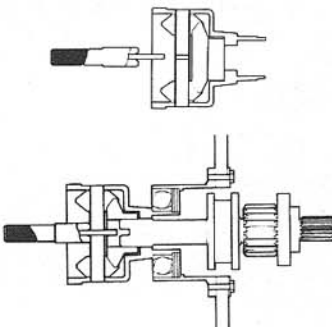
## 2684 ESSENTIAL TOOL KIT

These are the essential tools for the proper service of the engines, clutches, transmissions, rear axles, front axles and front drives and the hydraulic systems of the 1000 Series Tractors.

ENGINE TOOLS

<p><b>1584</b></p> 		<p><b>1584 Seal Protector</b> Used on the front of the crankshaft when installing the timing gear cover to prevent the seal lips from being nicked in the operation. It is used on all 1000 Series Engines, including older models.</p>
<p><b>1585</b></p> 		<p><b>1585 Driver — Piston Pin</b> Used to drive the pins out and in on the pistons. Used on all of the 1000 Series Engines, including older models. Used with 7778 Handle.</p>
<p><b>1586</b></p> 		<p><b>1586 Driver — Prechamber</b> Used to drive the pre-chamber into the cylinder head of the engines of the 1100 and 1300 Tractors. Used with the 7778 Handle.</p>
<p><b>1587</b></p> 		<p><b>1587 Installer — Valve Guide Seal</b> Used to install valve stem oil seals on all 1000 Series Engines. Used with the 7778 Handle.</p>

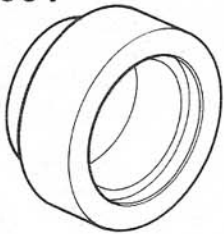
# 2684 ESSENTIAL TOOL KIT (CONT.)

ENGINE TOOLS (CONT.)	<p>1588</p> 		<p><b>1588 Socket — Injector, 27 mm Special.</b> Used to remove, install and torque the fuel injectors on all 1000 Series Engines. Used with ½ in. sq. drive ratchet and torque wrenches. Also fits competitive engines which use KIKI Injectors with 27 mm hex bodies. Also used to install and remove the 7315 Compression Test Adaptor.</p> <p>Torque spec. 47 ± 3 ft. lbs. [64 ± 4 NM]</p>
	<p>1589</p> 		<p><b>1589 Spanner Wrench — Combustion Chamber Retainer</b> Used to remove and install the combustion chamber retainers in the cylinder heads of the 1100 and 1300 Engine.</p> <p>Torque spec. 76 ± 3 ft. lbs. [103 ± 5 NM]</p>
TRANS & CLUTCH TOOLS	<p>1581 4036</p> 		<p><b>Arbors, Clutch Aligning</b> Used to align the friction plates of the single clutches when bolting the clutch assembly on the flywheels.</p> <p><b>1581 Arbor, Clutch Aligning</b> Used on all 1000 Series Single Clutches except the 1100 Tractor.</p> <p><b>4036 Arbor, Clutch Aligning</b> Used on the 1100 Tractor.</p>
	<p>1579</p> 		<p><b>1579 Holder — Detent Ball</b> Used to insert and hold detent balls in blind holes in the shifter forks of the creeper gear and front drives of the 1300, 1500, 1700 and 1900 Tractor. Also used on the detent of the main gear selection lever of the 1100 Tractor and on previous models.</p>
AXLE & DIFF. TOOLS	<p>1580</p> 		<p><b>1580 Depressor, Detent Ball</b> Used as a pilot to the 13 mm dia. shifter bars when inserting them into shifter forks with side loaded detent balls. Used on the 1300 and 1600 Creeper Gear Fork.</p>
	<p>1583 4037</p> 		<p><b>Installers — Guide Differential Pinion Shaft Pins</b> Used to install the roll pin in the pinion shaft when assembling the differential. Also used to guide the roll pin when the differential is installed in the axle housing and the axle shaft is being installed.</p> <p><b>1583 Installer — Guide</b> Used on the 1500, 1700, 1900 and older 1600 Front Axles.</p> <p><b>4037 Installer — Guide</b> Used on the 1100 and 1300 Front Axles and 1100 Rear Axle.</p>

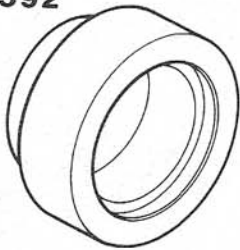
# 2684 ESSENTIAL TOOL KIT (CONT.)

AXLE & DIFF. (CONT.)

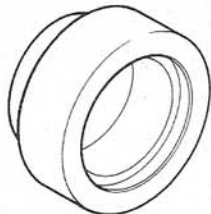
1591



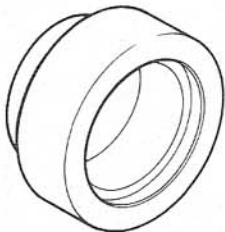
1592



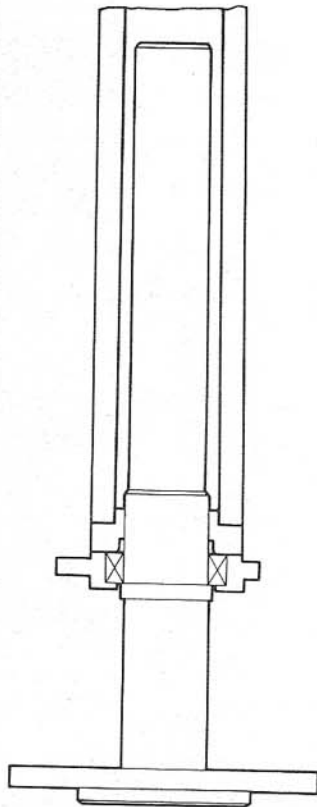
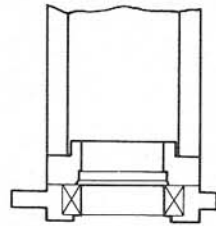
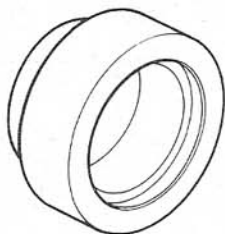
7983



7984



7985



## Seal Installers — Special Axle Seals

Used to install the special seals on the front and rear axles of the 1000 Series Tractors. These are ring type installers, used with a specified pipe size to press the seal first into the wheel shaft case cover then to press the seal-case cover assembly onto the axle. The exception to this is the 1100 Tractor where the seal is pressed directly into the wheel shaft case and the axle is installed through the seal.

### 1591 Seal Installer

Used on the 1300 and 1500 Rear Axle and the 1900 Transmission Front Drive Seal. Also used on the 1500, 1700 and 1900 Front Axle Seals. Used with a 2½ in. pipe, 14.5 in. long. (Schedule 40)

### 1592 Seal installer

Used on the 1700, 1900 and older 1600 Rear Axle. Used with 3 in. pipe, 24.25 in. long. (Schedule 40)

Note: When pressing the seal-cover assembly on the axle, make certain the seal plates are in place. This applies only to this seal.

### 7983 Seal Installers

Used on 1100 Front Axle. Used with 1½ in. pipe. Length to suit (Schedule 40)

### 7984 Seal Installer

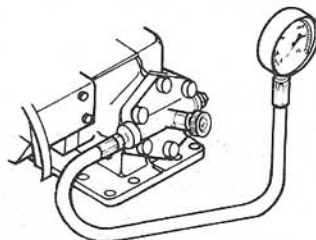
Used on 1100 Rear Axle. Used with 2 in. pipe. Length to suit. (Schedule 40)

### 7985 Seal Installer

Used on 1300 Front Axle. Used with 2 in. pipe. Length to suit. (Schedule 40)

HYD. SYST.

7560

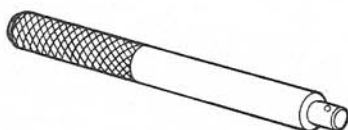


### 7560 Pressure Test Fitting

Used in the pressure test port of all 1000 Series Tractors, including all past models. Used with the 2106 Test Hose and 2028 Gage of the 2003 Universal Pressure Test Kit.

MULTI-PURPOSE

7778



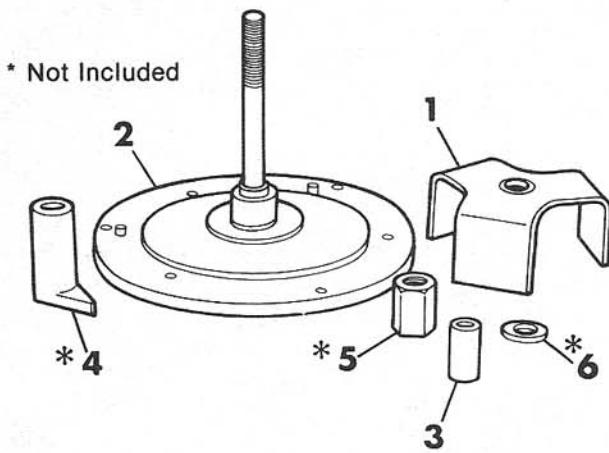
### 7778 Handle — Driver

Used with all the drivers of the 2684 kit. Also fits the drivers of the 9515 (old 818T) Set.



# 2706 TOOL KIT - 1900 TRACTOR DUAL CLUTCH

These are the essential tools for the 1900 Tractor Dual Clutch. It consists of the clutch fixture tools to disassemble and reassemble the clutch and to set the release lever height and PTO release clearance and the clutch alignment arbor for installing the clutch on the flywheel.



## Dual Clutch Fixture Set Consists of:

- |   |      |   |
|---|------|---|
| 1 | 1594 | Compression Bridge                                |
| 2 | 1595 | Fixture Base                                      |
| 3 | 1596 | Spacer — Release lever gage                       |
|   |      | Used with the following previously released tools |
| 4 | 1267 | Release lever Gage                                |
| 5 | 1280 | Spindle Nut                                       |
| 6 | 1281 | Thrust Washer                                     |

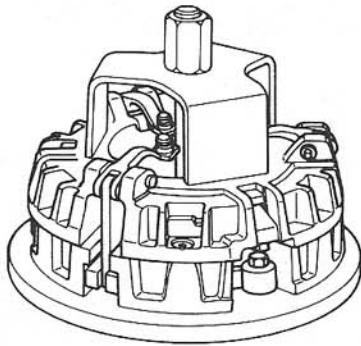


Figure 1 Setup for disassembly and reassembly.

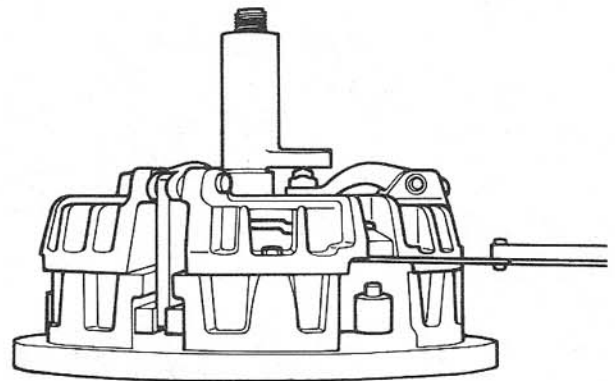
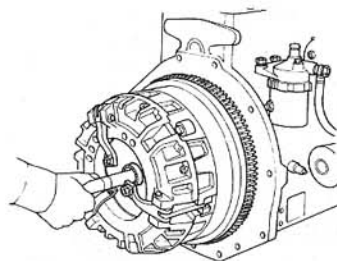
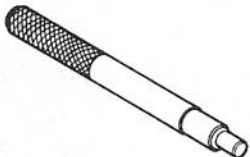


Figure 2 Setup for setting clutch release heights.

1582

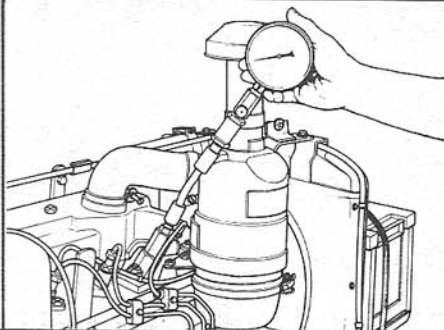
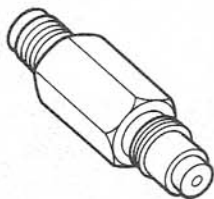


## 1582 Arbor, Clutch Aligning

Used to align the pressure plates of the dual clutch when mounting the clutch assembly on the flywheel.

# COMPRESSION TEST ADAPTER

7315

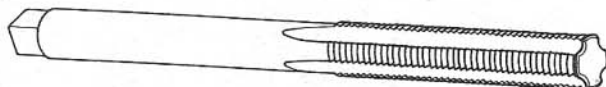


## 7315 Compression Test Adaptor

Previously released for 1000 & 1600 Tractors.  
Used to test compression on all 1000 Series Engines, including older models. Also fits all competitive engines using KIKI Injectors with 24 mm x 2.0 threads. Used with the previously released 2020 Compression Tester.

# METRIC TAPS DIES & GAGES

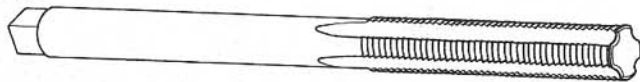
7383



## 7383 Tap — 16 mm x 1.5 Left Hand

For left hand threaded holes in axle flanges of 1600, 1300 & 1900 rear and 1700 & 1900 front.

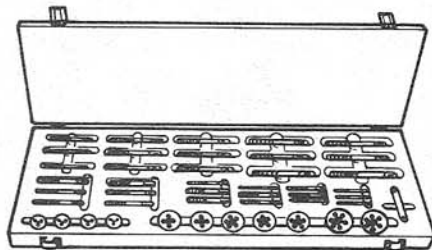
7278



## 7278 Tap — 16 mm x 2.0 Right Hand

For right hand threaded holes in frame of 1900 for front axle mounting.

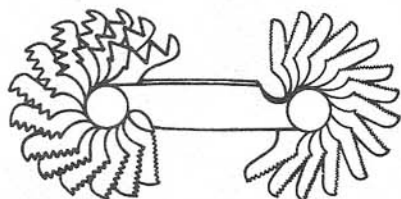
9658



## 9658 Metric Tap & Die Set

Contains 33 taps, 11 dies and a metric screw pitch gage. Has a taper, plug and bottoming tap and a die for each of the following sizes, M5 x .8, M6 x 1, M8 x 1.25, M10 x 1.5, M12 x 1.75, M14 x 2.0, M16 x 2.0, M18 x 2.5, M20 x 2.5, M22 x 2.5, M24 x 3.0. Gage covers 20 pitches 0.4 to 7.0 mm.

9659



## 9659 Metric Screw Pitch Gage

Has 18 blades covering screw pitches from 0.4 mm to 7.0 mm std. 60° metric thread form. Covers screw sizes 2.0 mm to 60 mm.

## List of Previously Released Tools used on 1000 Series Tractors

TOOL NO.	DESCRIPTION	SHOWN ON PAGE *
1267	Release Lever Gage (old SW-5102)	11
1280	Spindle Nut (old SW-510-9)	11
1281	Thrust Washer (old SW-510-10)	11
1300	Gage, Release Lever (old SJ-101)	10
2003	Universal Pressure Test Kit (old ND-112-F)	38
2020	Compression Test Kit (Engine) (old N-1000-EE)	7
2028	Gage — 0-5000 psi (old D-22)	38
2106	Hose — Pressure Test (old D-19-HP)	38
9514	Bushing Driver Set, Small (old 818)	23
9515	Bushing Driver Set, Large (old 818-T)	23
9028	Torque Wrench, ½ in. sq. drive Ratchet Head 0-250 ft. lb. [0-35 kgm]	—

# APPLICATIONS CHART

## 1000 Series Special Tools

TOOL NO.	Tractor Model						
	1100	1300	1500	1700	1900	1900 Dual Clutch	1600 (Prev. Model)
<b>New Tools</b>							
1579	0	0	0	0	0	0	0
1580		0					0
1581		0	0	0	0		0
1582						0	
1583			0	0	0	0	0
1584	0	0	0	0	0	0	0
1585	0	0	0	0	0	0	0
1586	0	0					
1587	0	0	0	0	0	0	0
1588	0	0	0	0	0	0	0
1589	0	0					
1594						0	
1595						0	
1596						0	
2684	0	0	0	0	0	0	0
2706						0	
4036	0						
4037	0	0					
7560	0	0	0	0	0	0	0
7778	0	0	0	0	0	0	0
7238							
7383		0	0	0	0	0	0
7983	0						
7984	0						
7985		0					
9658	0	0	0	0	0	0	0
9659	0	0	0	0	0	0	0
<b>Previously Released Tools</b>							
1267						0	
1280						0	
1281						0	
1300		0	0	0	0		0
2003	0	0	0	0	0	0	0
2020	0	0	0	0	0	0	0
2028	0	0	0	0	0	0	0
2106	0	0	0	0	0	0	0
7315	0	0	0	0	0	0	0
9028	0	0	0	0	0	0	0
9514	0	0	0	0	0	0	0
9515	0	0	0	0	0	0	0



**Tractors  
Equipment**

All tools should be ordered on **COMMON TOOL ORDER FORM FTO 8091** and forwarded to your district office.

SUPPLIED BY:

THE NUDAY COMPANY  
2291 ELLIOTT AVE.  
TROY, MICHIGAN 48084  
PHONE: (313) 585-2450  
TELEX NO. 231226



THE NUDAY EQUIPMENT COMPANY  
OF CANADA (1968) LTD.  
P.O. BOX 789  
WINDSOR, ONT. N9A6N8  
PHONE: (313) 585-2450  
TELEX NO. 231226



Ford Tractor Operations  
Ford Motor Company

2500 East Maple Road  
Troy, Michigan 48084

GENERAL SALES LETTER NO. GP-412

January 22, 1981

All U. S. Dealers

Subject: New Service Tools

The following new service tools are available for immediate shipment:

Diesel Lift Pump Test Kit

Test and evaluation have revealed that many in-line diesel injection pumps are being replaced as defective when, in fact, only the lift pump is defective. This, of course, imposes unnecessary service cost to the owner. To prevent the replacement of the injection pump when only the lift pump is defective, a test kit is now available for checking lift pump performance. The Test Kit, No. 2843, consists of a 0-15 psi (0-.10335 MPa) pressure gauge, tube with attaching fittings and a 24" long (60.96 cm) clear plastic tube with fittings. Instructions for performing the simple tests are included in the Kit and in Service Bulletin No. 2-81. Dealer cost of Test Kit No. 2843 is \$24.50.

Diesel Delivery Valve Holder Wrench No. 1436

The fuel delivery valve wrench is used to loosen or tighten the delivery valve holder and/or prevent the holder from loosening when the fuel line nut is being loosened. The wrench is used on 5000, 6000, 7000, 8000 and 9000 Super Dexta and FSM Model tractors. The fuel line nut on TW Series tractors is approximately .055" (.1397 cm) larger than the nut on the above series tractor, consequently, the present wrench (1436) cannot be used on TW Series tractors. To correct this problem, the wrench has been modified by milling slots so the wrench will "clear" the larger nut. Dealer cost of the new Wrench No. 4460 is \$24.50.

To order the new wrench and Test Kit, use Common Tool Order Form No. 8091 and forward to your Region office.

John J. L. Johnson  
General Sales Manager

ND/vs  
Attachment

# FORD TRACTOR

## 2843 LIFT PUMP GAUGE KIT



The lift pump gauge kit, Nuday part #2843, is used to diagnose possible fuel system lift pump service problems (reference: Ford Tractor Operations Service Bulletin February, 1981).

The use of this test kit may prevent the replacement of an expensive injection pump when only the lift pump is at fault.

The kit is composed of a gauge assembly to check lift pump pressure holding capability and a clear plastic tube with appropriate fittings to check for excess air bubbles in the fuel system.

Model Usage: All Inline Injection Pump Tractors

January, 1981

THE NUDAY COMPANY  
2291 ELLIOTT AVE.  
TROY, MICHIGAN 48084  
PHONE: (313) 585-2450  
TELEX NO. 231226



[www.ntractorclub.com](http://www.ntractorclub.com)

THE NUDAY EQUIPMENT COMPANY  
OF CANADA (1968) LTD.  
P.O. BOX 789  
WINDSOR, ONT. N9A6N8  
PHONE: (313) 585-2450  
TELEX NO. 231226

# FORD TRACTOR

# Service Tools and Equipment

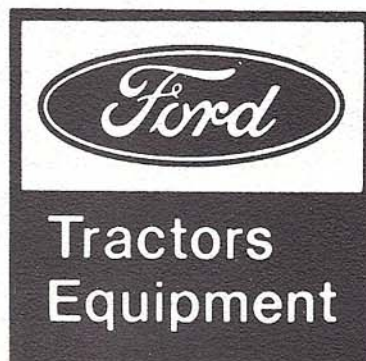
# PRICE LIST

FOR SERVICE TOOLS AND EQUIPMENT SHOWN IN CATALOG SE 3565

- Tool and Equipment Items are to be ordered on Common Tool Order Form FTO 8091 and forwarded to the Ford Tractor District Office.
- All items ordered will be shipped "freight prepaid". The shipping costs will be added to the invoice.

Prices Effective August 1, 1982

*Prices subject to change without notice.*



1. This price list is for the items shown in the Ford Motor Company Service Tools and Equipment Catalog SE 3565 and for additional Service Tools and Equipment shown in past and present Ford Service Manuals and Service Bulletins.
2. Prices are effective August 1, 1982.
3. Tools which are sold as pairs or other multiples have this indicated by the quantity in parentheses next to the tool number.
4. Claims for loss and damage in transit are to be made by the customer to the carrier.
5. Ordering information — Tools are to be ordered from the Ford Tractor District using the Common Tool Order Form FTO 8091 and forwarded to the District Office.
6. All Tools are priced and shipped F.O.B. Factory. Shipping charges will be added to the invoice.

*Prices are subject to change without notice.*

**PRICE LIST  
EFFECTIVE AUGUST 1, 1982**

TOOL NO.	PRICE	TOOL NO.	PRICE	TOOL NO.	PRICE	TOOL NO.	PRICE	TOOL NO.	PRICE
0001	\$ 39.00	0273	\$ 36.00	0755	\$ 36.00	1237	\$ 15.00	1283	\$210.00
0003	2.55	0398	19.50	0763	3.80	1238	15.00	1284 (3)	36.00
0013	2.00	0417	1.75	0764	3.80	1239	23.00	1285	14.00
0017	6.90	0433	7.80	0766	11.70	1240	2.45	1286 (6)	1.75
0019	1.95	0435	8.40	0768	4.00	1241	11.30	1287 (3)	1.25
0020	1.90	0700	1.15	0770	6.30	1242	2.30	1288 (8)	9.50
0022	2.65	0705	2.00	0774	4.00	1243	33.00	1289	19.70
0026	1.05	0707	1.95	0785	7.60	1246	9.00	1290	4.50
0027	5.20	0715	2.70	0786	5.90	1249	9.70	1291 (3)	.80
0030	1.20	0717	1.30	0829	98.00	1251	10.00	1292 (3)	.80
0031	3.30	0719	4.05	0830	24.00	1252	3.25	1293 (6)	.65
0033	.80	0721	4.70	0835	14.50	1255	25.50	1294	.80
0035	1.40	0722	5.00	0838	6.25	1257	20.50	1295	.15
0037	5.60	0723	3.00	0840	7.50	1261	7.45	1296	2.35
0039	1.20	0724	2.75	0855	137.00	1262	37.00	1298	12.40
0050	33.00	0725	5.10	0935	121.00	1263	33.00	1299	14.30
0073	25.00	0729	20.25	1102	1.20	1264	18.50	1300	12.40
0074	16.25	0730	20.25	1103	3.25	1267	46.00	1301	28.00
0081	18.25	0731	1.60	1104	4.70	1268	29.75	1302	65.00
0092	2.30	0732	25.00	1112	8.80	1269	6.80	1303	17.00
0093	48.00	0739	3.45	1193	10.60	1270	6.80	1304	10.50
0113	3.70	0741	3.45	1213	13.00	1271	2.60	1305	7.45
0119	1.00	0742	3.75	1214	3.90	1272	2.60	1306	25.20
0172	59.00	0743	5.50	1215	7.90	1273	2.60	1310	1.85
0173	12.60	0745	3.50	1217	8.25	1274	2.60	1312	26.00
0174	18.20	0746	2.70	1218	4.80	1275	2.60	1319	54.49
0175	9.00	0747	3.60	1221	2.25	1276	3.70	1321	20.60
0176	4.70	0749	7.00	1222	6.50	1277	3.70	1322	2.10
0177	20.40	0750	4.60	1225	7.25	1279	2.35	1323	34.00
0178	9.20	0751	5.70	1226	12.00	1280	8.50	1324	Repl. By 4782
0179	340.35	0752	3.40	1234	49.00	1281	.40		
0265	.90	0753	3.80	1235	33.50	1282 (3)	12.30	1326	22.60

SUPPLIED BY:

THE NUDAY COMPANY  
2291 ELLIOTT AVE.  
TROY, MICHIGAN 48084



[www.ntractorclub.com](http://www.ntractorclub.com)

PHONE: (313) 585-2450  
TELEX NO. 231226 NUDAY TRMI

**PRICE LIST**  
**EFFECTIVE AUGUST 1, 1982**

TOOL NO.	PRICE	TOOL NO.	PRICE	TOOL NO.	PRICE	TOOL NO.	PRICE	TOOL NO.	PRICE
1327	\$ 35.50	1424	\$110.00	1493	\$ 13.00	2019	\$105.00	2178	\$196.00
1330	16.70	1425	18.00	1499	14.50	2020	260.00	2179	266.00
1331	18.50	1426	18.00	1502	5.30	2021	650.00	2183	50.00
1332	4.10	1427	1.00	1509	36.00	2026	21.50	2184	237.00
1333	4.10	1428	8.90	1510	14.60	2027	22.00	2185	145.00
1334	4.10	1429	12.40	1511	31.00	2028	27.50	2186	76.00
1335	5.60	1430	61.50	1512	13.75	2044	71.00	2187	170.00
1338	10.60	1431	26.00	1513	.80	2045	26.40	2188	20.00
1339	12.60	1432	10.50	1514	.15	2100	7.50	2191	98.00
1342	13.75	1435	32.00	1515	.15	2101	2.80	2196	30.25
1343	6.00	1437	23.50	1542	7.60	2102	3.60	2197	40.50
1345	76.99	1440	26.70	1543	2.75	2103	5.30	2199	107.35
1355	92.00	1442	14.50	1544	5.00	2105	2.70	2200	835.00
1361	11.00	1443	21.00	1545	15.00	2106	12.00	2202	810.00
1362	52.00	1444	27.50	1546	22.00	2119	29.60	2210	8.90
1363	13.50	1445	52.00	1547	3.80	2122	31.30	2216	175.00
1364	64.00	1446	15.20	1548	1.10	2123	62.00	2217	186.00
1365	2.60	1447	22.50	1549	.85	2127	28.50	2228	123.00
1366	27.00	1451	74.40	1550	.85	2128	89.00	2233	98.00
1367	5.30	1452	23.00	1551	.85	2130	39.00	2271	38.00
1368	3.65	1453	11.30	1552	4.00	2131	79.00	2273	53.00
1369	6.20	1454	.20	1566	10.80	2132	47.00	2274	120.00
1370	15.10	1455	34.00	1579	12.00	2133	91.00	2275	8.25
1371	3.60	1456	34.00	1580	7.40	2134	129.00	2280	255.00
1372	3.20	1457	.35	1581	9.15	2135	99.00	2317	164.00
1373	21.00	1458 (3)	25.00	1582	18.50	2136	38.00	2336	186.00
1380	7.00	1459 (3)	48.00	1583	13.50	2137	37.00	2342	460.00
1382	7.25	1461	32.70	1584	20.70	2138	47.00	2343	137.00
1384	6.30	1462	20.50	1585	9.35	2139	17.50	2344	212.00
1386	5.30	1463	8.30	1586	14.50	2140	46.00	2362	8.60
1387	5.85	1464	33.00	1587	16.10	2141	134.00	2366	30.00
1388	6.20	1465	7.00	1588	17.50	2142	381.00	2399	79.50
1389	3.45	1466	11.90	1589	27.70	2143	7.50	2406	79.00
1391	23.50	1467 (3)	35.50	1591	25.65	2144	3.15	2412	22.50
1392	8.10	1468 (6)	33.00	1592	33.80	2145	9.25	2413	5.30
1393	5.60	1469	.55	1594	62.00	2146	41.50	2414	6.80
1394	19.00	1470	2.50	1595	245.00	2148	66.00	2415	7.10
1395	3.50	1471	.80	1596	10.90	2150	45.30	2420	79.00
1396	5.00	1472	.20	1718	.75	2151	66.00	2422	253.00
1397	1.20	1476	6.25	1719	110.00	2152	17.00	2423	560.00
1401	21.00	1477	3.10	1720	56.70	2153	12.00	2450	445.00
1402	6.80	1478	4.80	1721	476.00	2154	118.00	2504	20.00
1403	2.05	1479	1.40	1727	138.40	2156	41.00	2519	1150.00
1404	.80	1480	6.50	1730	9.30	2159	39.00	2524	44.00
1405	8.70	1481	1.65	1731	9.30	2162	7.50	2525	104.00
1406	8.90	1482	5.90	1733	39.00	2165	77.50	2526	43.00
1407	10.60	1483	28.00	1742	13.90	2166	85.00	2527	74.00
1408	3.95	1484	.15	1743	8.60	2167	29.00	2528	99.00
1409	1.80	1485	.20	1753	6.80	2169	119.00	2529	129.00
1411	42.75	1486	.20	1765	67.00	2170	96.00	2570	101.00
1412	7.90	1487	.15	1766	745.00	2171	96.00	2599	147.00
1418	8.60	1488	36.00	2003	221.00	2172	25.00	2605	208.00
1419	9.00	1489	28.00	2015	515.00	2174	45.00	2617	35.00
1420	10.00	1490	76.00	2016	725.00	2175	15.40	2639	1350.00
1421	92.00	1491	13.00	2017	895.00	2176	45.00	2642	349.00
1423	20.50	1492	13.00	2018	800.00	2177	21.50	2647	181.00



**PRICE LIST**  
EFFECTIVE AUGUST 1, 1982

TOOL NO.	PRICE	TOOL NO.	PRICE	TOOL NO.	PRICE	TOOL NO.	PRICE	TOOL NO.	PRICE
2680	\$258.00	6014	\$ 21.00	6860	\$795.00	8056	\$ 14.70	9516	\$ 95.60
2684	299.00	6016	32.00	6944	2.55	8057	46.00	9518	32.35
2700	38.00	6017	16.00	6962	5.60	8058	37.00	9521	46.85
2706	320.00	6030	720.00	6981	77.00	8059	23.50	9523	34.80
2708	43.00	6090	187.00	7099	18.90	8060	38.00	9526	98.50
2725	30.00	6169	29.00	7167	65.00	8061	17.50	9527	47.75
2752	139.00	6170	29.00	7170	34.50	8124	29.00	9530	7.05
2755	460.00	6171	27.00	7171	40.00	8125	23.00	9531	7.05
2757	545.00	6172	25.25	7172	10.25	8126	41.50	9534	7.05
2758	540.00	6173	59.00	7173	49.00	8167	8.00	9537	5.25
2760	530.00	6174	15.25	7180	62.00	8168	74.00	9539	26.25
2771	39.00	6175	19.00	7182	49.30	8169	39.50	9540	6.90
2806	398.00	6176	4.35	7185	62.00	8170	44.00	9543	34.90
2809	359.00	6177	115.00	7186	27.50	8171	34.00	9544	33.60
2825	6600.00	6178	36.50	7187	27.50	8174	75.50	9545	Repl. By
2829	369.00	6180	58.00	7189	106.00	8180	6.90		5444
2843	26.00	6191	6.50	7190	51.80	8181	257.00	9546	42.90
2850	770.00	6192	18.80	7194	30.00	8184	46.50	9547	47.20
2857	575.00	6194	27.25	7209	26.00	8186	49.50	9548	46.80
2865	229.00	6209	19.70	7245	31.50	8189	7.30	9552	32.35
2879	282.00	6211	6.95	7246	67.00	8190	62.00	9553	32.35
2899	217.00	6290	10.20	7247	13.00	8195	44.00	9554	14.10
2910	909.00	6299	15.60	7263	2.55	9065	210.00	9563	14.25
2972	79.50	6359	5.60	7278	32.00	9155	16.90ea.	9564	12.90 ea.
FT 4000	579.00	6386	16.55	7315	20.15	9158	.50ea.	9565	8.90 ea.
4006	75.00	6387	1.80	7345	1.90	9159	.50ea.	9567	22.40
4036	10.20	6388	31.90	7346	1.90	9161	57.00	9569	5.15
4037	12.70	6389	1.55	7351	69.00	9162	103.00	9570	32.35
4178	15.90	6390	29.05	7352	69.00	9163	18.05	9573	32.80
4179	10.90	6504	.55	7353	69.00	9165	28.00	9575	8.00
4460	25.90	6578	1.10	7354	69.00	9168	2.35	9578	4.15
4487	24.50	6579	14.10	7383	42.00	9170	9.50	9579	7.20
4548	25.00	6580	23.90	7402	23.00	9189	21.60	9580	38.75
4549	14.20	6581	10.00	7429	33.50	9190	55.00	9581	26.00
4643	12.50	6586	1.55	7445	13.50	9196	31.25	9582	27.50
4644	14.10	6661	11.50	7446	5.80	9198	53.95	9583	31.80
4646	17.60	6667	5.70	7452	110.00	9207	28.10	9600	640.00
4649	37.80	6671	.80	7497	42.00	9208	35.75	9602	18.00
4653	13.20	6724	6.05	7536	25.20	9210	60.00	9604	25.00
4656	59.50	6726	1.25	7537	15.10	9211	89.65	9605	39.00
4672	13.50	6729	1.00	7543	3.90	9212	20.30	9608	35.70
4713	6.00	6832	429.00	7560	5.70	9223	244.00	9609	46.00
4721	27.50	6835	679.00	7653	44.00	9224	275.00	9613	66.00
4782	14.50	6836	4.20	7778	17.40	9437	161.00	9614	130.00
4798	70.00	6837	2.55	7779	59.00	9472	3.20	9616	90.00
4799	42.00	6838	7.75	7780	102.00	9473	44.00	9619	115.00
4801	56.00	6839	9.70	7905	37.00	9474	12.90	9630	900.00
4802	19.50	6840	4.10	7983	21.50	9491	11.95	9640	490.00
4853	37.50	6841	9.80	7984	21.80	9496	12.00	9650	275.00
4997	48.50	6842	26.00	7985	21.50	9497	28.00	9659	18.00
5444	36.00	6843	6.20	8040	93.00	9500	94.25	9660	148.00
6007	70.00	6844	2.50	8041	19.60	9506	153.00	9661	9.00
6010	425.00	6845	25.00	8052	31.00	9507	85.95	9662	12.00
6011	225.00	6846	21.50	8053	73.00	9510	29.00	9663	79.00
6012	156.00	6847	56.00	8054	25.50	9514	39.99	9669	21.00
6013	56.00	6848	1.95	8055	39.50	9515	45.49	9672	13.50

**CROSS INDEX**  
**Ford Tractor Service Tools and Equipment**  
**Old to New Numbers**

OLD TOOL NO.	NEW TOOL NO.	OLD TOOL NO.	NEW TOOL NO.	OLD TOOL NO.	NEW TOOL NO.	OLD TOOL NO.	NEW TOOL NO.
A-12	1369	D-36	0705	N-105	0763	N-510-8	1525
A-49	0785	D-37	0750	N-106	0774	N-510-9	1526
CF-55	1766	D-38	0751	N-107	1214	N-510-10	1527
CF-55-D	1765	D-39	0752	N-109	0770	N-510-11	1528
CONN-B968-C	1340	D-40	0753	N-110	1215	N-511	1296
CT-685	9500	FE 100		N-111	2144	N-541 (-B)	1304
CT-9009	8126	FE 101	6178	N-111.2	1753	N-630	1308
CT-9024	8124	FE 102	6177	N-112	0764	N-774-C	1310
CT-9077	8125	FE 103	7452	N-116	1217	N-774-E	2148
D-1	0700	FE 120	0829	N-119	0786	N-774-1	0074
D-2	2100	FE 121	6169	N-132	1218	N-774-2	1552
D-3	2101	FE 122	6170	N-488	2129	N-774-3	1548
D-4	0707	FE 123	6171	N-488-1	1231	N-774-4	1549
D-5	2102	FE 124	6174	N-488-2	1223	N-774-5	1550
D-6	2103	FE 125	6172	N-488-3	1224	N-774-6	1551
D-7	0013	FE 126	6173	N-502-B	1246	N-775	1312
D-8F	0749	FE 127	6175	N-503	2137	N-776	1314
D-8F	2362	FE 128	6176	N-503-1	1501	N-776-B	1315
D-8.2	0715	FT-66-A	2639	N-503-3	1502	N-777-A1	1317
D-9	2105	HG 100	2128	N-503-B	2138	N-777-1	1553
D-10	0719	HG 100 (Part		N-503-C	2139	N-777-2	1554
D-11	0035	of HG100 Kit)	1232	N-503-C1	1494	N-777-3	1555
D-12	0721	HG 101	1234	N-503-C4	1495	N-779	1318
D-15	0722	HG 102	1235	N-503-C5	1496	N-780	1319
D-16	0723	HG 103	1499	N-503-C6	1497	N-780-A	1320
D-17	0724	HP-68 (KHP-7)		N-506	1254	N-881	2150
D-18	0725	HP-75	1742	N-507	1264	N-881-A	1326
D-19-HP	2106	HP-75-A	1718	N-508-A	2191	N-881-B	1327
D-20	2026	HP-76	1730	N-508-A-1	1509	N-881-C	1328
D-21	2027	HP-77	1731	N-508-A-2	1510	N-1000-A	2154
D-22	2028	HP-78	1743	N-508-A-4	1511	N-1000-B	2156
D-23	0731	HY-9.1	0017	N-508-A-7	1512	N-1000-C	2159
D-24	0732	HY-12.1	0022	N-508-A-8	1513	N-1000-D	0398
D-24-N	2366	HY-91	2076	N-508-A-9	1514	N-1000-EE	2020
D-25	0039	HY-107	1240	N-508-A-10	1515	N-1000-FL	2162
D-26	0739	HY-108	1241	N-510-A	1516	N-1000-31	1557
D-27	0031	HY-109	1242	N-510-3	1518	N-1100-A	1380
D-28	0741	HY-110	1243	N-510-4	1519	N-1100-AA	2170
D-29	0742	J-8537-6	8124	N-510-4L	1517	N-1100-B	1382
D-30	0743	J-8537-14	8126	N-510-4R	1516	N-1100-BB	2171
D-31	0003	M-28	9163	N-510-5.1	1520	N-1100-BP-1	0081
D-32	0745	M-32	9523	N-510-5.2	1521	N-1100-C	1384
D-33	0746	N-28	2127	N-510-6.1	1522	N-1100-CR1	0092
D-34	0747	N-86-A	0766	N-510-6.2	1523	N-1100-CR2	1361
D-35	0717	N-95-A	1213	N-510-6.3	1524	N-1100-CR-2.2	6255

**CROSS INDEX**  
**Ford Tractor Service Tools and Equipment**  
**Old to New Numbers**  
**(Continued)**

OLD TOOL NO.	NEW TOOL NO.	OLD TOOL NO.	NEW TOOL NO.	OLD TOOL NO.	NEW TOOL NO.	OLD TOOL NO.	NEW TOOL NO.
N-1100-CR3	1362	N-1100-X	0719	NC-109-HA	2647	ND-372-VP	0179
N-1100-CR4	2222	N-1100-Y	1408	NCA-502	1249	ND-775-C1	6392
N-1100-CR4	1363	N-1100-Z	1409	NCA-503	2196	ND-775-D-1	6391
N-1100-CR5	0786	N-1100-2	1355	NCA-503-1	1498	ND-9000	2188
N-1100-CR6	2210	N-1100-3	0073	NCA-503-2	1499	NDA-7502	2185
N-1100-CR6.1	1747	N-1100-5550	2169	NCA-503-4	1500	NDA-7502-BB	2186
N-1100-CR7	1364	N-1100-65-BL	2172	NCA-503-B	2197	NDA-7502-1	1451
N-1100-CR7A	1365	N-1100-65-CR	2165	NCA-600-EA	1305	NDA-7502-2	1452
N-1100-CR8	1366	N-1100-65T	2166	NCA-600-G	1306	NDA-7502-3	1453
N-1100-CR9	0768	N-1100-67-55	2167	NCA-851	1321	NDA-7502-4	1454
N-1100-CR10	1373	N-1100-69-AG	2178	NCA-945-A	1338	NDA-7502-5-A	1455
N-1100-CR11	1367	N-1100-69-IND	2179	NCA-945-B	1339	NDA-7502-5-B	1456
N-1100-CR12	1368	N-1100-73	2271	NCA-997	2152	NDA-7502-6	1457
N-1100-CR13	1369	N-1200	2180	NCA-997-A	1343	NDA-7502-8	1458
N-1100-CR14	1370	N-3110	1411	NCA-997-1	1342	NDA-7502-8-A	1459
N-1100-CR15	1371	N-4075-A	2182	NCA-4235	2184	NE-7502	2187
N-1100-CR16	1372	N-4075-A1	1205	NCA-4235-A1	1423	NE-7502-1	1461
N-1100-D	1386	N-4075-A2	1539	NCA-4235-1	1424	NE-7502-2	1462
N-1100-E	1387	N-4075-A4	1540	NCA-4235-1A	1425	NE-7502-3	1463
N-1100-F	1388	N-4075-A5	1541	NCA-4235-1B	1426	NE-7502-4	1464
N-1100-G	1389	N-4075-AA	2183	NCA-4235-1C	1427	NE-7502-5B	1465
N-1100-GA	2174	N-4075-AA-1	1542	NCA-4235-2	1428	NE-7502-6	1466
N-1100-H	0835	N-4075-AA-2	1543	NCA-4235-3	1429	NE-7502-7	1467
N-1100-HS	1391	N-4075-AA-3	1544	NCA-4235-5	1430	NE-7502-8	1468
N-1100-J	1392	N-4075-AA-5	1545	NCA-4235-7	1431	NE-7502-9	1469
N-1100-K	0119	N-4075-		NCA-4235-8	1432	NE-7502-10	1470
N-1100-L	1393	AA-6(& 7)	1546	NCA-4235-9	1433	NE-7502-11	1471
N-1100-M	0026	N-4075-AA-8	1547	NCA-4235-10	1434	NE-7502-12	1472
N-1100-N	1394	N-4124	1419	NCB-3179	1412	NF-106	6981
N-1100-NC	1395	N-4126	1420	ND-112-F	2003	NF-372-ACP	2010
N-1100-O	1396	N-4235-D	1421	ND-130-1	0829	NF-373-ACP	2011
N-1100-P	1397	N-4634-A	1435	ND-130-F	2194	NFX-500	2016
N-1100-PS	2175	N-5447	1436	ND-130-2F	1027	NFX-501	2133
N-1100-PS-1	1533	N-6261-A	1442	ND-135-4.1	0027	NFX-502	2135
N-1100-PS-2	1534	N-6261(-B)	1443	ND-135-5.1	6359	NFX-503	2140
N-1100-PSA	2176	N-6306	1444	ND-135-6.1	0037	NFX-775	2015
N-1100-PSB	2177	N-6306-A	1445	ND-135-8.1	0838	NHD-145	1719
N-1100-		N-6306-B	1446	ND-135-10.1	0840	NHD-148	1720
PSB-1 & 2	1535	N-6600		ND-170	2216	NHD-550	1721
N-1100-PSB-5	1537	NA-856	1322	ND-370-B	0171	NHD-550-A	0273
N-1100-PSC	1401	NA-925	2151	ND-370-C	0172	NHD-550-N	2021
N-1100-Q	1402	NA-925-1	1330	ND-370-D	0173	NHD-570	1727
N-1100-R	1403	NA-925-2	1331	ND-370-E	0174	N-OPT-20	1733
N-1100-S	0739	NA-925-4L	1332	ND-370-F	0175	NZ-5447	1437
N-1100-SB	0755	NA-925-4R	1333	ND-370-G	0176	P-61	9162
N-1100-T	1404	NA-925-5	1334	ND-370-H	0177	S-6800	
N-1100-U	1405	NA-925-7	1335	ND-370-J	0178	SJ-101	1300
N-1100-V	1406	NA-925-12	2153	ND-371-BEL	0855	ST-241	2406
N-1100-W	1407	NC-109-F	2423	ND-372-K	0417	SW-6-48	2122

**CROSS INDEX**  
**Ford Tractor Service Tools and Equipment**  
**Old to New Numbers**  
**(Continued)**

OLD TOOL NO.	NEW TOOL NO.	OLD TOOL NO.	NEW TOOL NO.	OLD TOOL NO.	NEW TOOL NO.	OLD TOOL NO.	NEW TOOL NO.
SW-6-48-1	1201	SW-507	1257	SW-522	1302	970-12FT	0050
SW-6-48-2	1202	SW-508-A	1261	SW-523	1303	973-FT-1	9581
SW-6-48-3	1203	SW-509	1262	SW-862-A	1323	973-FT-1A	9582
SW-6-56	2123	SW-509-A	1263	SW-862-B	1324	973-FT-1B	9573
SW-6-56-1	1207	SW-510	2142	T67P-3D739-B	9661	973-FT-2	9576
SW-6-56-2	1208	SW-510-2	1267	T67P-3D739-C	9662	973-FT-2A	9577
SW-6-65	2119	SW-510-3	1268	T-818	9515	973-FT-2B	9574
SW-17	1221	SW-510-5A	1269	T-4087	1418	973-FT-3	9549
SW-18	1222	SW-510-5B	1270	VST-1	1229	973-R	9546
SW-23-A	1566	SW-510-5C-1	1271	VST-1811	1228	973-S	9545
SW-24-A	1225	SW-510-5D-1	1272	XH-164-A	9473	973-6	9553
SW-24-B	1226	SW-510-5E	1273	Y-695-3	9575	976-1	9570
SW-500-A	2018	SW-510-5G	1274	15M	9530	976-2	9552
SW-500-B	2019	SW-510-5H	1275	16M	9531	976-3	9553
SW-500-A & B	2017	SW-510-5J	1276	20M	9534	1001	9196
SW-500-C	2130	SW-510-5K	1277	414	9540	1002	9198
SW-500-D-AGR	2044	SW-510-6	2143	515	9510	1003	9516
SW-500-D-IND	2045	SW-510-6.1	1529	518	9539	6011-E	1438
SW-500-E	2131	SW-510-6.2	1530	625-A	9212	6149-E	1439
SW-501	2134	SW-510-6.3	1531	630-S	9210	6207-D	1440
SW-501-1	1237	SW-510-7	1279	630-T	9211	6510-AF	1447
SW-501-2	1238	SW-510-9	1280	818	9514	6513-EE	1448
SW-501-3	1239	SW-510-10	1281	822	9518	8501-DD-2	1473
SW-501-4	1479	SW-510-12	1282	924	9537	10088	9158
SW-501-4A	1480	SW-510-60	1283	930-B	9521	10545	6387
SW-501-5	1481	SW-510-61A	1284	930-D	9208	10546	6386
SW-501-6	1482	SW-510-62	1285	930-E	9207	10547	6388
SW-501-7	1483	SW-510-63B	1286	938	9506	10548	6389
SW-501-8	1484	SW-510-64C	1287	938-4	9578	10549	6390
SW-501-9	1485	SW-510-65	1294	938-7	9472	10586	9159
SW-501-10	1486	SW-510-66	1295	943	9507	11466	9569
SW-501-11	1487	SW-510-67D	1288	943-C1	9564	12132	
SW-501-12	1488	SW-510-68	1289	943-S	9567	20000	2189
SW-501-13	1489	SW-510-69	1290	950	9189	32405	6836
SW-501-14	1490	SW-510-70	1291	951	9190	32406	6837
SW-502	2136	SW-510-71	1292	952	9526	32409	6838
SW-502-1	1491	SW-510-72	1293	954	9527	32416	6846
SW-502-2	1492	SW-511	2145	955-14	9565	32418	6847
SW-502-3	1493	SW-512	1298	970-A	9547	32425	6839
SW-503	1251	SW-515	1299	970-D3	9155	32426	6840
SW-504	1252	SW-516	2146	970-E2(Y695-3)	9575	32429	6841
SW-505	2141	SW-516-1	1556	970-F (11466)	9569	32435	6842
SW-505-1	1503	SW-520	1301	970-G (938-4)	9578	32436	6848
SW-505-2	1504	SW-521-C	2132	970-H-1	9579	32437	6843
SW-505-3	1505	SW-521-C1	1561	970-2FC	9583	32447	6844
SW-505-4	1506	SW-521-C2	1562	970-5D	9544	32458	6845
SW-505-5	1507	SW-521-C3	1563	970-5FC	9580	32976	9161
SW-505-6	1508	SW-521-C4	1564	970-8F	9584	33623	1476
SW-506	1255	SW-521-C5	1565	970-10FT	0001	33623-B	1477

**CROSS INDEX**  
**Ford Tractor Service Tools and Equipment**  
**Old to New Numbers**  
**(Continued)**

OLD TOOL NO.	NEW TOOL NO.	OLD TOOL NO.	NEW TOOL NO.	OLD TOOL NO.	NEW TOOL NO.	OLD TOOL NO.	NEW TOOL NO.
195806-B 291003	1478	292454		716701		718001	

**CROSS INDEX**  
**Ford Tractor Service Tools and Equipment**  
**V.L. Churchill to Nuday Tool Numbers**

Churchill Number	Nuday Number	Churchill Number	Nuday Number	Churchill Number	Nuday Number
SW.1	2639	SW.30	None	FE.140	6011
SW.2	None	P.61	9162	FE.141	6012
SW.3B	1261	MS.71	2003	FE.142	6013
SW.4	1239	T.95A	1213	FE.143	6014
SW.5	None	FE.100A	None	FE.144	6016
SW.6		FE.102A	6177	FE.145	6017
Consists of	2122	FE.103A	7452	FE.146	None
	2123	FE.104	0092	FE.147	None
SW.7	2141	FE.105	None	FE.148	None
SW.8	None	T.107	1214	FE.151	None
SW.9	1328	FE.107	None	200B	None
SW.10A	1436	FE.107A	None	18G.257	None
SW.11	None	FE.107B	None	7065M	None
SW.12B		FE.108	None	370	8040
SW.12B1	2142*	FE.109A	None	N.488	2129
SW.12B2		FE.110	None	SW.502	2136
SW.12Q	1275	FE.120	0829	512	None
SW.13A		FE.121	6169	518	9539
SW.13A1	2142*	FE.122	6170	SW.523	1303
SW.14		FE.123	6171	MS.550	None
Consists of	1262	FE.124	6174	NCA.600EA	1305
	1442	FE.125	6172	NCA.600 G	1306
15-026A	None	FE.126	6173	625.A	9212
SW.17B	1221	FE.127	6175	630-S	9210
SW.20	1720	FE.128	6176	630-T	9211
SW.21	None	FE.129	None	CT-685.A	9500
SW.22	None	FE.130	None	N.774-1	0074
SW.23	1566	FE.131	None	N.774-2	1552
23-501	None	FE.132	None	N.774-C	1310
SW.24B	1226	FE.133	None	N.774-E	2148
SW.25A	1323	FE.134	None	N.775	1312
SW.26	None	FE.135	None	818	9514
SW.27	6209	FE.136	None	T.818	9515
SW.28	1261	FE.137	None	MS.820	2015

\*2142 Univ. Clutch Fixture is the basic set for Servicing all Ford Tractor Clutches

**CROSS INDEX**  
**Ford Tractor Service Tools and Equipment**  
**V.L. Churchill to Nuday Tool Numbers**  
**(Continued)**

Churchill Number	Nuday Number	Churchill Number	Nuday Number	Churchill Number	Nuday Number
924	9537	MS.2700-3	201387	T.8503-5	1408
930 B	9521	MS.2700-4		T.8503-6	None
930 E	9207	MS.2700-5		T.8503-7	6211
938	9506	T.4062	None	T.8510	2191
943	9507	T.4062-2A	None	T.8510-1C	
FT.943	9564	T.4069B	2184	T.8511	1343
943 S	9567	T.4094	1435	Consists of	
943-10	None	T.4095A	1421		2152
951	9190	CPT.6040B	2134	T.8522	None
952	9526	CT.6069A	2134	T.8524A	None
954 C	9527	CT.6069-1	1237	T.8525A	None
1001	9196	CT.6085-1A	8046	T.8526	8126
1002	9198	T.8503A	2028	CT.9009	
1003	9516	T.8503-1B		CT.9017	8053
N.1100-C	1384	Consists of	0119	CT.9017-1	8054
N.1100-H	0835		1384	CT.9022	8055
N.1100-K	0119		1393	CT.9023	8056
N.1100-CR1	0092		1394	CT.9024	8124
N.1100-CR2	1361		1402	CT.9050	8057
N.1100-CR3	1362	T.8503-4		CT.9051	8058
N.1100-CR4	2222	Consists of	0835	CT.9054	8059
MS.2700	201387		1384	CT.9056	8060
MS.2700-1			1389	CT.9076B	8061
MS.2700-2					