

Clutches that help you make up lost ground.



2015 - 16



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Every field should have one! LuK Tractor Clutches.



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Tractor Application



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How to use the catalogue

OE/OES Number LuK part number Part description		Product Image	Part Information
OE/OES Number		Product Image	
24HP			
1155428	L-03023-0PT4-00 Clutch Plate		Spline details : 20 X 22 X14 (ID X OD X no. of teeth)
-	L-03023-0PLC-00 Clutch Plate		Spline details : 27 X 32 X 10 (ID X OD X no. of teeth)

Symbols and abbreviations

 - LuK part number  - Informations

*Photos shown in this catalogue
is for reference only

Ford

OE / OES Number		Part Description	
Ford 3000 / 3600			
77NH7550AA	L-03028-0PN9-00 Clutch Plate		Spline details : 21 X 26 X 10 (ID X OD X No. of teeth) Facing grade : RWC-GDY
50 HP			
-	L-01H35-0P03-03 Cover Assembly		Diaphragm type

Eicher

OE / OES Number		Part Description	
24 HP			
1155428	L-03023-0PT4-00 Clutch Plate		Spline details : 20 X 22 X14 (ID X OD X no. of teeth) Facing : RWC-GDY Design : Without damper spring
-	L-03023-0PLC-00 Clutch Plate		Spline details : 27 X 32 X 10 (ID X OD X no. of teeth) Facing : RWC-GDY Design : With damper spring
30 HP			
-	L-03025-0PT6-00 Clutch Plate		Spline details : 23 X 29 X 10 (ID X OD X no. of teeth) Facing : RWC-GDY Design : Without damper spring

Eicher

OE / OES Number		Part Description	
35 HP			
1968014	L-02428-0195-81 Double Clutch		Double Clutch with PTO DP
1966364	L-03028-0170-81 Clutch Plate		Spline details : 20 X 25 X 8 (ID X OD X no. of teeth)

Eicher

OE / OES Number		Part Description	
50 HP / 61 HP			
1910024	L-02428-0191-80 Double Clutch		Double Clutch without PTO DP
97200219	L-03028-0823-87 Clutch Plate		Spline details : 22 X 25 X 18 (ID X OD X no. of teeth)
93671290	L-03028-0H84-00 Clutch Plate		Spline details : 26 X 32 X 10 (ID X OD X no. of teeth)

Eicher

OE / OES Number		Part Description	
36 HP			
-	L-03028-0PN8-00 Clutch Plate		Spline details : 26 X 32 x 10 (ID X OD X no. of teeth) Facing grade : RWC-GDY with damper spring
-	L-03028-0PU1-00 Clutch Plate		Spline details : 26 X 32 x 10 (ID X OD X no. of teeth) Facing grade : RWC-GDY without damper spring

Eicher

OE / OES Number		Part Description	
24 HP			
93625357	L-03028-0PLI-80 Clutch Plate		Spline details : 20 X 26 X 8 (ID X OD X no. of teeth)
93626982	L-03028-0PTA-80 Clutch Plate		Spline details : 41 X 45 X 21 (ID X OD X no. of teeth)

Eicher

OE / OES Number		Part Description	
46 HP			
93621911	L-02028-0P13-80 Double Clutch		Double Clutch with main & PTO Clutch Plate
-	L-02428-0P13-80 Double Clutch		Double Clutch with PTO DP
93627007	L-03H28-0PLN-00 Clutch Plate		Spline details : 20 X 25 X 8 (ID X OD X no. of teeth)

Escorts

OE / OES Number		Part Description	
Farm Tractor			
50 HP			
D10113070	L-02428-0P16-80 Double Clutch		Double Clutch with PTO DP
D10090020	L-03028-0PLQ-80 L-03028-0PMD-80 Clutch Plate		Spline details : 20 X 25 X 10 (ID X OD X no. of teeth)

Escorts

OE / OES Number		Part Description	
Farm Tractor			
60 HP			
D10113070	L-02428-0P16-80		Double Clutch with PTO DP
D10090020 / D10113080	L-03028-0PLQ-80 L-03028-0PMD-80 Clutch Plate		Spline details : 20 X 25 X 10 (ID X OD X no. of teeth)

Escorts

OE / OES Number		Part Description	
Farm Tractor			
70 HP / 80 HP			
D10045800	L-02031-0P01-80 Double Clutch		Double clutch with main & PTO clutch plate
D10159070	L-03031-0PT1-80 Clutch Plate		Spline details : 19 X 22 X 13 ID X X OD X no. of teeth Facing : G 107E / WAF 405
D10159060	L-03H31-0PLC-00 Clutch Plate		Spline details : 34 X 40 X 12 (ID X OD X no. of teeth)

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Escorts

OE / OES Number		Part Description	
FT 60			
50 HP			
D10117930A	L-01H28-0G19-00 Cover Assembly		Diaphragm type
D10117940A	L-03H28-0G68-00 Clutch Plate		Spline details : 20 X 25 X 10 (ID X OD X no. of teeth) Facing : LuK B8402
-	L-03031-0PLR-00 Clutch Plate		Spline details : 20 X 25 X 10 (ID X OD X no. of teeth) Facing : RWC-GDY

Escorts

OE / OES Number		Part Description	
Escorts Farm 335			
35 HP			
518012	L-03025-0PT4-00 Clutch Plate		Spline details : 23 X 29 X 10 (ID X OD X no. of teeth) Facing : LuK B8402 Design : Rigid clutch disc without cushion spring
345, 45 HP			
-	L-03025-0PT7-00 Clutch Plate		Spline details : 23 X 29 X 10 (ID X OD X no. of teeth) Facing : LuK B8402 Rigid clutch disc without cushion spring

Escorts

OE / OES Number		Part Description	
Escorts Farm 355			
55 HP			
D10037640	L-03028-0PNB-00 Clutch Plate		Spline details : 20 X 25 X 10 (ID X OD X no. of teeth) Design : Clutch disc damper spring & cushion spring
-	L-03028-0PU8-00 Clutch Plate		Spline details : 21 X 26 X 10 (ID X OD X no. of teeth) Design : Rigid clutch disc with cushion spring

Escorts

OE / OES Number		Part Description	
Escorts Farm FT 60			
58 HP			
D10111530	L-01H28-0P16-00 Cover Assembly		Diaphragm Type
60-70 HP			
D10237530A	L-01H31-0G28-00 Cover Assembly		Diaphragm Type

Escorts

OE / OES Number		Part Description	
90 HP			
50063006	L-03H31-0G92-00 Clutch Plate		Spline details : 34 X 40 X 12 (ID X OD X no. of teeth)
56 HP			
60065003	L-03H28-0G40-00 Clutch Plate		Spline details : 20 X 25 X 8 (ID X OD X no. of teeth)

HMT

OE / OES Number		Part Description	
5911 M / 58 HP			
59116200	L-02028-0P21-80 Double Clutch		Double clutch with main & PTO Clutch Plate
59116100	L-03028-0PMK-80 Clutch Plate		Spline details : 25 X 28 X 18 (ID X OD X no. of teeth)
-	L-03H28-0PUA-00 Clutch Plate		Spline details : 42 X 45 X 28 (ID X OD X no. of teeth) Facing : RWC-GDY

HMT

OE / OES Number		Part Description	
6522 / 58 HP			
59116200	L-02028-0P21-80 Double Clutch		Double clutch with main & PTO Clutch Plate
59116100	L-03028-0PMK-80 Clutch Plate		Spline details : 25 X 28 X 18 (ID X OD X no. of teeth)

HMT

OE / OES Number		Part Description	
Zetor 2511 / 3011			
25 - 30 HP			
26611125	L-03028-0PU2-00 Clutch Plate		Spline details : 22 X 25 X 16 (ID X OD X no. of teeth) Facing : RWC – GDY Design : Rigid disc without cushion spring
26611125	L-03028-0PUB-00 Clutch Plate		Spline details : 22 X 25 X 16 (ID X OD X no. of teeth) Facing : RWC-GDY Design : Rigid clutch disc without cushion spring

HMT

OE / OES Number		Part Description	
Zetor 4511 / 58 HP			
69011164	L-03031-0PT8-00 Clutch Plate		Spline details : 25 X 29 X 18 (ID X OD X no. of teeth) Facing : RWC-GDY

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HMT

OE / OES Number		Part Description	
Zetor 5911 / 58 HP			
69011164	L-03028-0PU3-00	Clutch Plate	Spline details : 25 X 29 X 16 (ID X OD X no. of teeth)
69011164	L-03028-0PU4-00	Clutch Plate	Spline details : 25 X 29 X 18 (ID X OD X no. of teeth)
951105	L-03028-0PTZ-00	Clutch Plate	Spline details : 42 X 45 X 10 (ID X OD X no. of teeth)
951105	L-03028-0PUA-00	Clutch Plate	Spline details : 42 X 45 X 28 (ID X OD X no. of teeth)



Facing : RWC-GDY
Rigid clutch disc W/o
cushion spring

Sonalika International

OE / OES Number		Part Description	
75 HP			
CAEXP1827	L-03028-0PT2-80 Clutch Plate		Spline details : 34 X 40 X 12 (ID X OD X no. of teeth) Facing : WAF 405 / G107E

Sonalika International

OE / OES Number		Part Description	
740 / 745 / 750 / 755 / 760			
40 HP / 60 HP			
CAEXP1047	L-01628-0P07-00	Clutch Set	-
10004689AA	L-01H28-0P07-00 Cover Assembly		Diaphragm Type
10004688AA	L-03028-0PT6-80 Clutch Plate		Spline details : 20 X 25 X 8 (ID X OD X no. of teeth)

Sonalika International

OE / OES Number		Part Description	
740 / 745 / 750 / 755 / 760			
60 HP			
10001914BA	L-01628-0P07-01	Clutch Set	-
10004689AA	L-01H28-0P07-01 Cover Assembly		Diaphragm Type
10004688AA	L-03028-0PT6-81 Clutch Plate		Spline details : 20 X 25 X 8 (ID X OD X no. of teeth) Facing : F410

Sonalika International

OE / OES Number		Part Description	
Sonalika			
45 HP			
-	L-03031-0PT9-00 Clutch Plate		Spline details : 20 X 25 X 8 (ID X OD X no. of teeth) Facing :RWC-GDY

Sonalika International

OE / OES Number		Part Description	
Sonalika DI 60			
45 HP			
10004432AB	L-03031-OPTA-00 Clutch Plate		Spline details : 20 X 25 X 8 (ID X OD X no. of teeth) Facing :RWC-GDY Rigid clutch disc with cushion spring

Sonalika International

OE / OES Number		Part Description	
90 HP			
10022572AA	L-02031-0P06-81 Double Clutch		Double Clutch with main & PTO clutch plate
-	L-02431-0P06-81 Double Clutch		Double Clutch with PTO

Sonalika International

OE / OES Number		Part Description	
90 HP			
10022576AA	L-03H31-0PLL-01 Clutch Plate		Spline details : 20 X 25 X 8 (ID X OD X no. of teeth)
10022577AA	L-03H31-0PT6-01 Clutch Plate		Spline details : 34 X 40 X 12 (ID X OD X no. of teeth)

Sonalika International

OE / OES Number		Part Description	
Sonalika 4100F			
58 HP			
10022572AA	L-02028-0P03-80 Double Clutch	Double Clutch	Double Clutch with main & PTO Clutch plate
10004686AA	L-02428-0P03-80 Double Clutch	Double Clutch	Double Clutch with PTO DP
10004687AA	L-03028-0PL8-80 Clutch Plate		Spline details : 20 X 25 X 8 (ID X OD X no. of teeth)
10022573AB	L-03028-0PL8-93 Clutch Plate		Spline details : 20 X 25 X 8 (ID X OD X no. of teeth)



Double Clutch

John Deere

OE / OES Number		Part Description	
46 HP			
RE 229941	L-03028-0175-82 Clutch Plate		Spline details : 22 X 26 X 13 (ID X OD X no. of teeth)
RE 242274	L-03028-0886-81 Clutch Plate		Spline details : 21 X 25 X 13 (ID X OD X no. of teeth)

John Deere

OE / OES Number		Part Description	
5103			
35 HP			
RE 73334	L-01H24-0171-00 Cover Assembly		Diaphragm Type
42 HP			
SU32910	L-03H28-0G51-01 Clutch Plate		Spline details : 21 X 25 X 13 (ID X OD X no. of teeth)

John Deere

OE / OES Number		Part Description	
5103 - 45 HP			
RE 73665	L-02028-0198-80 Double Clutch		Double Clutch with main & PTO clutch plate
RE 242274	L-03028-0886-81 Clutch Plate		Spline details : 21 X 25 X 13 (ID X OD X no. of teeth)

John Deere

OE / OES Number		Part Description	
5103 - 55 HP			
RE229970	L-01428-0062-04	Clutch Set	-
RE 73333	L-01H28-0062-01 Cover Assembly		Diaphragm Type
-	L-03028-0PA1-03 Clutch Plate		Spline details : 21 X 25 X 13 (ID X OD X no. of teeth) Facing : RWC-GDY
RE 73611	L-02028-0199-80 Double Clutch		Double Clutch with main & PTO clutch plate

John Deere

OE / OES Number		Part Description	
5104			
45 HP			
-	L-02428-0198-99		Double Clutch with PTO clutch plate
RE 203439	L-03028-0176-80 Clutch Plate		Spline details : 32 X 36 X 19 (ID X OD X no. of teeth)
RE 73605	L-03028-0886-80 Clutch Plate		Spline details : 21 X 25 X 13 (ID X OD X no. of teeth)

John Deere

OE / OES Number		Part Description	
5204			
45 HP / 50 HP			
RE73666	L-01628-0062-04	Clutch Set	-
RE 73333	L-01H28-0062-01 Cover Assembly		Diaphragm Type
RE 73335	L-03028-0175-80 Clutch Plate		Spline details : 22 X 26 X 13 (ID X OD X no. of teeth)

John Deere

OE / OES Number		Part Description	
40 HP			
SJ18184	L-01628-0G76-00	Clutch Set	-
SJ18978	L-01028-0G76-00 Cover Assembly		Diaphragm Type
SU32910	L-03028-0G51-01 Clutch Plate		Spline details : 21 X 25 X13 (ID X OD X no. of teeth)

John Deere

OE / OES Number		Part Description	
37 HP			
RE237791	L-01628-0P29-02	Clutch Set	-
RE73333	L-01H28-0062-01 Cover Assembly		Diaphragm Type
RE237794	L-03028-0PMH-00 Clutch Plate		Spline details : 21 X 25 X13 (ID X OD X no. of teeth)

John Deere

OE / OES Number		Part Description	
5300			
55 HP			
RE73666	L-01628-0062-04	Clutch Set	-
RE 73333	L-01H28-0062-01 Cover Assembly		Diaphragm Type
RE 73335	L-03028-0175-80 Clutch Plate		Spline details : 22 X 26 X 13 (ID X OD X no. of teeth)

John Deere

OE / OES Number		Part Description	
5310			
45 HP			
RE73605	L-03028-0886-80 Clutch Plate		Spline details : 21 X 25 X 13 (ID X OD X no. of teeth)
42244546M91	L-03H28-0PMF-00 Clutch Plate		Spline details : 32 X 36 X 19 (ID X OD X no. of teeth)

John Deere

OE / OES Number		Part Description	
5310 - 55 HP			
RE203439	L-03028-0176-81 Clutch Plate		Spline details : 32 X 36 X 19 (ID X OD X no. of teeth)
40 HP			
SJ18978	L-01H28-0G76-00 Cover Assembly		Diaphragm Type

John Deere

OE / OES Number		Part Description	
45-55 HP			
RE229970	L-01628-0062-04	Clutch Set	-
RE73333	L-01H28-0062-01 Cover Assembly		Diaphragm Type
RE229941	L-03028-0175-82 Clutch Plate		Spline details : 22 X 26 X 13 (ID X OD X no. of teeth)

John Deere

OE / OES Number		Part Description	
74 HP			
RE258871	L-03028-0PN1-82 Clutch Plate		Spline details: 31 X 35 X 19 (ID X OD X no. of teeth)
RE258870	L-02028-0P37-82 Clutch Plate		Double Clutch with main & PTO clutch plate
RE260848	L-02428-0P37-82 Clutch Plate		Double Clutch without PTO DP

Mahindra & Mahindra

OE / OES Number		Part Description	
50 HP			
000032601B12	L-03028-0172-80 Clutch Plate		Spline details: 23 X 29 X 10 (ID X OD X no. of teeth)

Mahindra & Mahindra

OE / OES Number		Part Description	
475 DI / 575 DI / 585 DI			
42 HP			
000032600B12	L-02028-0202-81 Double Clutch		Double Clutch with Main & PTO DP
P5557234TR91	L-03H28-0PM6-03 Clutch Plate		Spline details : 23 X 29 X 10 (ID X OD X no. of teeth) Facing : AF 4059
000032602B12	L-03028-0884-81 Clutch Plate		Spline details : 39 X 45 X 10 (ID X OD X no. of teeth)

Mahindra & Mahindra

OE / OES Number		Part Description	
46 HP			
-	L-01628-0P44-01	Clutch Set	-
006510132B91	L-01H28-0P44-00 Cover Assembly		Diaphragm Type
006510133B91	L-03H28-0PNF-00 Clutch Plate		Spline details : 23 X 29 X 10 (ID X OD X no. of teeth) Facing : F510 MCC/ LuK B8402

Mahindra & Mahindra

OE / OES Number		Part Description	
Arjun 705			
70 HP			
E006504375C91	L-03H28-0PMV-00 Clutch Plate		Spline details : 23 X 29 X 10 (ID X OD X no. of teeth)

Mahindra & Mahindra

OE / OES Number		Part Description	
B - 275			
001121677R92	L-03025-0PT8-00 Clutch Plate		Spline details : 23 X 29 X 10 (ID X OD X no. of teeth) Facing : RWC-GDY Rigid clutch disc with cushion spring
-	L-03025-0PL4-00 Clutch Plate		Spline details : 23 X 29 X 10 (ID X OD X no. of teeth) Facing : RWC-GDY

Mahindra & Mahindra

OE / OES Number		Part Description	
B – 434 / B-475DI / B-575DI			
005557234R91	L-03028-0PUD-00 Clutch Plate		Spline details : 23 X 29 X 10 (ID X OD X no. of teeth) Facing : RWC-GDY

Mahindra & Mahindra

OE / OES Number		Part Description	
HOR -II CARRARO			
006504451C91	L-03028-OPMU-80 Clutch Plate		Spline details : 34 X 40 X 12 (ID X OD X no. of teeth)
006503643D91	L-03028-OPMR-80 Clutch Plate		Spline details : 24 X 27 X 15 (ID X OD X no. of teeth)

Mahindra & Mahindra

OE / OES Number		Part Description	
60 HP			
006504450C91	L-02428-0P28-80 Double Clutch		Double Clutch without PTO DP
58 HP			
006505451C91	L-02428-0P33-82 Double Clutch		Double Clutch with PTO DP

Mahindra & Mahindra

OE / OES Number		Part Description	
75 HP			
006509813U91	L-03H28-0G44-00 Clutch Plate		Spline details : 26 X 30 X 14 (ID X OD X no. of teeth)
92 HP			
E006510095D91	L-03H31-0G69-00 Clutch Plate		Spline details : 24 X 27 X 15 (ID X OD X no. of teeth)

Massey Ferguson

OE / OES Number		Part Description	
MF 245			
42 HP			
42244546M91	L-03031-0PTB-00 Clutch Plate		Spline details : 23 X 29 X 10 (ID X OD X no. of teeth) Facing grade : RWC-GDY

Massey Ferguson

OE / OES Number		Part Description	
Massey 1035/ 50 HP			
001121677R92	L-03025-0PT3-00 Clutch Plate		Spline details : 23 X 29 X 10 (ID X OD X no. of teeth) Facing grade : RWC-GDY
-	L-03025-0PL3-00 Clutch Plate		Spline details : 23 X 29 X 10 (ID X OD X no. of teeth) Facing grade : RWC-GDY

Massey Ferguson

OE / OES Number		Part Description	
Massey 1035 DI/ 39 HP-55 HP			
4255125M91	L-03028-0PN7-00 Clutch Plate		Spline details : 23 X 29 X 10 (ID X OD X no. of teeth) Facing grade : RWC-GDY
37 HP			
4255126M91	L-01H28-0G43-00 Cover Assembly		-

Massey Ferguson

OE / OES Number		Part Description	
MF 4059/ 39 HP-55 HP			
-	L-03H25-0PT0-03 Clutch Plate		Spline details : 23 X 29 X 10 (ID X OD X no. of teeth) Facing grade : AF 4059

Massey Ferguson

OE / OES Number		Part Description	
50-60 HP			
2846P00101	L-03H31-0108-08 Clutch Plate		Spline details : 25 X 29 X 21 (ID X OD X no. of teeth)
60 HP			
2746A00401	L-03H30-0G05-01 Clutch Plate		Spline details : 25 X 29 X 21 (ID X OD X no. of teeth)

New Holland

OE / OES Number		Part Description	
42 HP			
82823343	L-01628-0P13-00	Clutch Set	Diaphragm Type
9971137	L-01H28-0P13-00 Cover Assembly		Diaphragm Type
82823342	L-03028-0PLJ-80 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth)

New Holland

OE / OES Number		Part Description	
42 HP			
87532652	L-01628-0P13-01	Clutch Set	Diaphragm Type
9971279	L-01H28-0P13-01 Cover Assembly		Diaphragm Type
87532653	L-03028-0PLJ-81 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth) Facing : F410

New Holland

OE / OES Number		Part Description	
47 HP			
84390973	L-03H28-0H16-00 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth)

New Holland

OE / OES Number		Part Description	
50 HP			
-	L-01H28-0064-00 Cover Assembly		Diaphragm Type
P721200C	L-03H28-0180-01 Clutch Plate		Spline details : 20 X 25 X 8 (ID X OD X no. of teeth)

New Holland

OE / OES Number		Part Description	
50 HP			
9970784	L-03028-0166-81 Clutch Plate		Spline details : 35 X 40 X 14 (ID X OD X no. of teeth)
9970795	L-03H28-0PT0-01 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth)
84246520	L-03H28-0G60-00 Clutch Plate		Spline details : 35 X 40 X 14 (ID X OD X no. of teeth)

New Holland

OE / OES Number		Part Description	
2630			
32/42 HP			
82823390	L-01624-0167-04	Clutch Set	-
82823227	L-01H24-0167-03 Cover Assembly		Diaphragm Type
82823226	L-03024-0213-82 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth) Facing : G 107E/ F410

New Holland

OE / OES Number		Part Description	
3030			
32/42 HP			
82823390	L-01624-0167-04	Clutch Set	-
82823227	L-01H24-0167-03 Cover Assembly		Diaphragm Type
82823226	L-03024-0213-82 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth) Facing grade : G 107 E / F 410

New Holland

OE / OES Number		Part Description	
3230			
32/42 HP			
82823390	L-01624-0167-04	Clutch Set	-
82823227	L-01H24-0167-03 Cover Assembly		Diaphragm Type
82823226	L-03024-0213-82 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth) Facing grade : G 107 E / F 410

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Tractor Application



New Holland

OE / OES Number		Part Description	
3630			
50 HP			
84246518	L-02028-0053-99 Double Clutch		Double Clutch with Main & PTO DP
5174887	L-02428-0053-99 Double Clutch		Double Clutch without PTO DP
9970785	L-03028-0877-80 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth) Facing grade : WAF 405 / G107 E

New Holland

OE / OES Number		Part Description	
3630			
50 HP			
82823385	L-01628-0P24-00		-
82823386	L-01H28-0P24-00 Cover Assembly		Diaphragm Type
82823387	L-03H28-0PMA-00 Clutch Plate		Spline details : 35 X 40 X 14 (ID X OD X no. of teeth)

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New Holland

OE / OES Number		Part Description	
5630			
70 HP			
82834973	L-02028-0053-80 Double Clutch		Double Clutch with Main & PTO DP
9970795	L-03H28-0PT0-01 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth)
9970783	L-03028-0166-82 Clutch Plate		Spline details : 35 X 40 X 14 (ID X OD X no. of teeth)

New Holland

OE / OES Number		Part Description	
50 HP			
84246517	L-02028-0G22-80 Double Clutch		Double Clutch with Main & PTO DP
84171596	L-02428-0G22-80 Double Clutch		Double Clutch without PTO DP

New Holland

OE / OES Number		Part Description	
74 HP			
87386516	L-02028-0P23-82 Double Clutch		Double Clutch with Main & PTO DP
-	L-02428-0P23-82 Double Clutch		Double Clutch without PTO DP

New Holland

OE / OES Number		Part Description	
42 HP			
84180549	L-01628-0G23-00	Clutch Set	-
84180546	L-01H28-0G23-00 Cover Assembly		Diaphragm Type
87532653	L-03028-0PLJ-81 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth)

New Holland

OE / OES Number		Part Description	
47 HP			
84180549	L-01628-0G23-00	Clutch Set	-
84180546	L-01028-0G23-00 Cover Assembly		L-01028-0G23-00 Cover Assembly
84390973	L-03028-0H16-00 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth)

Punjab Tractors

OE / OES Number		Part Description	
755 / 815 / 855			
50 HP			
P721200K	L-03028-0PT8-80 Clutch Plate		Spline details : 20 X 25 X 8 (ID X OD X no. of teeth) Facing grade : F410 / Luk B8402

Schaeffler Automotive Aftermarket

Tractor Application



Punjab Tractors

OE / OES Number		Part Description	
Swaraj 735/ 55 HP			
P321200A	L-03025-0PT5-00	Clutch Plate	Spline details : 23 X 29 X 10 (ID X OD X no. of teeth)
35/42/50 HP			
P321200A	L-03028-0PUC-00	Clutch Plate	Spline details : 34 X 40 X 12 (ID X OD X no. of teeth)
32 - 45 HP			
P721200	L-03028-0PU6-00	Clutch Plate	Spline details : 34 X 40 X 12 (ID X OD X no. of teeth) With Cushion Spring
-	L-03028-0PU5-00	Clutch Plate	Spline details : 20 X 25 X 8 (ID X OD X no. of teeth) With Cushion Spring
P721200C	L-03028-0PU7-00	Clutch Plate	Spline details : 20 X 25 X 8 (ID X OD X no. of teeth)



Facing : RWC-GDY

Schaeffler Automotive Aftermarket

Tractor Application



Punjab Tractors

OE / OES Number		Part Description	
Swaraj 855			
P321200A	L-03028-0PUC-00	Clutch Plate	Spline details : 34 X 40 X 12 (ID X OD X no. of teeth)
P721200	L-03028-0PU6-00	Clutch Plate	Spline details : 34 X 40 X 12 (ID X OD X no. of teeth) With Cushion Spring
-	L-03028-0PU5-00	Clutch Plate	Spline details : 20 X 25 X 8 (ID X OD X no. of teeth) With Cushion Spring
P721200C	L-03028-0PU7-00	Clutch Plate	Spline details : 20 X 25 X 8 (ID X OD X no. of teeth)
P721200C	L-03031-0PL0-00	Clutch Plate	Spline details : 20 X 25 X 8 (ID X OD X no. of teeth)



Facing : RWC-GDY

Punjab Tractors

OE / OES Number		Part Description	
Swaraj 855 CS			
50 HP			
P702200	L-01031-0P13-01 Cover Assembly		4 Lever Cover Assy
P721410	L-02428-0P04-84 Double Clutch		Double Clutch with PTO DP

Punjab Tractors

OE / OES Number		Part Description	
S 939			
50 HP			
-	L-01628-0P11-00	Clutch Set	-
702100D	L-01H28-0P11-00 Cover Assembly		Diaphragm Type
721200C	L-03H28-0PT8-00 Clutch Plate		Spline details : 20 X 25 X 8 (ID X OD X no. of teeth) Facing grade : F410 / Luk B8402

Punjab Tractors

OE / OES Number		Part Description	
40 HP			
P721200P	L-03H28-0PT8-00 Clutch Plate		Spline details : 20 X 25 X 8 (ID X OD X no. of teeth) Facing grade : F410 / Luk B8402

SAME DEUTZ FAHR

OE / OES Number		Part Description	
Same 393			
32 - 45 HP			
1211863	L-01H28-0P06-00 Cover Assembly		Diaphragm Type
1211873	L-03028-0PLA-88 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth)
1211873	L-03028-0PLA-82 Clutch Plate		Spline details : 36 X 40 X 20 (ID X OD X no. of teeth)

SAME DEUTZ FAHR

OE / OES Number		Part Description	
Same 450			
50/42/35 HP			
-	L-01628-0P06-00	Clutch Set	-
1211863	L-01H28-0P06-00 Cover Assembly		Diaphragm Type

SAME DEUTZ FAHR

OE / OES Number		Part Description	
Same 450			
50/42/35 HP			
1211873	L-03028-0PLA-88 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth)
-	L-03028-0PLA-82 Clutch Plate		Spline details : 36 X 40 X 20 (ID X OD X no. of teeth)

SAME DEUTZ FAHR

OE / OES Number		Part Description	
Same 453			
32-45 HP			
1211863	L-01H28-0P06-00 Cover Assembly		Diaphragm Type
1211873	L-03028-0PLA-88 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth)

SAME DEUTZ FAHR

OE / OES Number		Part Description	
Same 453			
32-45 HP			
1209320	L-03028-0852-85 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth) Facing grade : WAF 405 / G107 E/B1675
1209310	L-03028-0889-84 Clutch Plate		Spline details : 36 X 40 X 20 (ID X OD X no. of teeth)

SAME DEUTZ FAHR

OE / OES Number		Part Description	
Same 503			
50/42/35 HP			
1211873	L-03028-0PLA-82 Clutch Plate		Spline details : 36 X 40 X 20 (ID X OD X no. of teeth)
1209320	L-03028-0852-85 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth) Facing grade : WAF405/ G107E/B1675

SAME DEUTZ FAHR

OE / OES Number		Part Description	
Same 603			
32-45 HP			
1209320	L-03028-0852-85 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth) Facing Grade : WAF405/ G107E/B1675
1209310	L-03028-0889-84 Clutch Plate		Spline details : 36 X 40 X 20 (ID X OD X no. of teeth)

SAME DEUTZ FAHR

OE / OES Number		Part Description	
Same 503			
50/42/35 HP			
-	L-03028-0889-84 Clutch Plate		Spline details : 36 X 40 X 20 (ID X OD X no. of teeth)
1211873	L-03028-0PLA-88 Clutch Plate		Spline details : 22 X 25 X 10 (ID X OD X no. of teeth)

SAME DEUTZ FAHR

OE / OES Number		Part Description	
50-60 HP			
0.015.4422.3/10	L-03H28-0G56-00 Clutch Plate		Spline details : 36 X 40 X 20 (ID X OD X no. of teeth)
70 HP			
0.015.4708.3/10	L-02428-0P00-81 Double Clutch		Double Clutch without PTO DP

STANDARD COMBINES

OE / OES Number		Part Description	
335			
33-35 HP			
SC 008	L-01H28-0P21-00 Cover Assembly		Diaphragm Type
SC 004	L-03028-0PLY-80 Clutch Plate		Spline details : 20 X 26 X 8 (ID X OD X no. of teeth)

STANDARD COMBINES

OE / OES Number		Part Description	
460 HP			
60 HP			
DC 003	L-02028-0P15-80 Double Clutch		Double Clutch with main and PTO DP
DC 001	L-02428-0P15-80 Double Clutch		Double Clutch with PTO DP

STANDARD COMBINES

OE / OES Number		Part Description	
475			
75 HP			
DC 007	L-03028-0PLT-80 Clutch Plate		Spline details : 20 X 26 X 8 (ID X OD X no. of teeth)
TDC 005/E	L-03028-0PLT-81 Clutch Plate		Cerametallic(5 lugs) Spline details : 20 X 26 X 8 (ID X OD X no. of teeth)
TDC 077	L-03028-0PTF-80 Clutch Plate		Spline details : 20 X 26 X 8 (ID X OD X no. of teeth) Facing Grade : WAF405/G107

Ace

OE / OES Number		Part Description	
35 HP			
ACABO0401012	L-03H28-0G61-00 Clutch Plate		Spline details : 20 X 25 X 8 (ID X OD X no. of teeth)

Agri

OE / OES Number		Part Description	
60 HP			
3550000005	L-03H28-0G77-00 Clutch Plate		Spline details : 24 X 27 X 15 (ID X OD X no. of teeth)

Preet

OE / OES Number		Part Description	
55 HP			
P0303402	L-03H28-0H42-00 Clutch Plate		Spline details : 19 X 22 X 13 (ID X OD X no. of teeth)

V.S.T

OE / OES Number		Part Description	
18.5 HP			
19821120000	L-03H18-0G25-01 Clutch Plate		Spline details : 16 X 20 X 10 (ID X OD X no. of teeth)

3 Lever Clutch Cover Assembly (Ø280)

OE / OES Number		Part Description	
Eicher 485-11", Ford 3600, Swaraj 855, Escorts 355, M&M 475 DI & Massey Ferguson 42 - 50 HP			
6506446	L-01028-0P28-00 Cover Assembly		Lever Type (Thickness 9 mm)
Escorts, Farm Trac 435 & Swaraj 735 FE			
-	L-01028-0P27-00 Cover Assembly		Lever Type (Thickness 19 mm)

Repair Kits

OE / OES Number		Part Description	
Ford 3600, M&M 434/475/433 DI, Escorts 355 & Eicher 485 (9.0mm)			
006502339R92	433 0163 10 Lever Kit		3 Lever Type
Massey Ferguson - MF 245 & MF 241			
2125737K01	433 0164 10 Lever Kit		3 Lever Type
Escorts - Farmtrac / Swaraj 735 (19.0mm)			
-	433 0165 10 Lever Kit		3 Lever Type

Kits - Tractor

	Part Description	
L-02615-0P25-00	Main repair kit (Ø310)	Escorts Tractor
L-02615-0P26-00	PTO repair kit (Ø310)	
L-02615-0P21-00	Main repair kit	
L-02615-0P22-00	PTO repair kit	
L-02615-0P27-00	Main repair kit	HMT
L-02615-0P28-00	PTO repair kit	
L-02615-0G08-00	Repair Kit Main Clutch Plate	John Deere 45 HP / 55 HP, 2300 RPM, 3 cyl DI
L-02103-0730-93	Repair Kit - PR plate machined	
L-02615-0G09-00	Repair Kit PTO Clutch Plate	
L-02903-0510-82	Pressure Plate Sub .Assy	John Deere - 55HP , 2300RPM, 3cyl.DI
L-02101-0290-82	DCA cover housing	John Deere - 55HP/ 75HP, 2300RPM, 3cyl.DI

Schaeffler Automotive Aftermarket

Tractor Application



	Part Description	
L-02615-0G16-00	Repair Kit Main	M & M 65 HP
L-02615-0G17-00	Repair Kit PTO	
L-02615-0P03-80	Repair Kit	
L-02615-0G13-00	Repair Kit for PTO Clutch Plate	M & M UPG, 50HP, 201Nm
L-02615-0G12-00	Repair Kit for Main Clutch Plate	
L-03691-0P04-00	Pad Kit	New Holland 50 HP / 60 HP
L-02615-0G10-00	Repair Kit for Main Clutch Plate	
L-02615-0G11-00	Repair Kit for PTO Clutch Plate	New Holland - 50 HP / 70 HP, 136 Nm

Schaeffler Automotive Aftermarket

Tractor Application



	Part Description	
L-02103-0730-90	Pressure plate - Main (Machined)	New Holland - 50HP, 136Nm
L-02103-0729-82	Pressure plate - PTO	
L-01619-0G01-00	Repair kit	New Holland - 70HP, 136Nm
L-01600-0P02-00	CSCA Lever Kit	Punjab Tractor Swaraj 855
L-01600-0P03-00	CSCA Spring Kit	
L-02615-0G15-00	Repair Kit for Main Clutch Plate	
L-02615-0G14-00	Repair Kit for PTO Clutch Plate	
L-01103-0P30-00	Pressure plate	

Schaeffler Automotive Aftermarket

Tractor Application



	Part Description	
L-02101-0014-87	Cover Housing	Eicher Eicher - 364 (35 HP) Eicher - 485 (42 HP) Eicher - 5315 (50 HP)
L-04127-0005-86	Diaphragm spring	Eicher – 4530 (46 HP) Eicher – 5315 (50 HP) Eicher – 5510 (50 HP) Eicher – 6100 (61 HP)
L-02109-0432-83 L-04127-0005-86	Main Pressure plate Machined Diaphragm spring	Escort - Farm 50, 75 HP
L-02101-0014-87 L-04127-0005-86	Cover Housing Diaphragm spring	Escort - Farm 60, 50 HP
L-02101-0014-87 L-04127-0005-86	Cover Housing Diaphragm spring	HMT - 6522 (62 HP)
L-02101-0014-87	Cover assembly	HMT - 7511 (75 HP)

Schaeffler Automotive Aftermarket

Tractor Application



	Part Description	
L-02103-0432-83	Main Pressure plate	M & M – 475 (62 HP) M & M – 575 (50 HP) M & M - 575 DI (46 HP) M & M -UPG 50 (58 HP)
L-04127-0005-86	Diaphragm spring	Arjun – 705, 65 HP
L-02101-0014-87	Cover Housing	RJS Model, 60 HP
L-02101-0014-87 L-04127-0005-86	Cover Housing Diaphragm spring	New Holland -3630 (50 HP)
L-02101-0014-87	Cover Housing	New Holland - 5630 (68 HP)
L-04127-0005-86	Diaphragm spring	Sonalika 4100F (58 HP)
L-02103-0432-83	Main Pressure plate	Sonalika (60 HP)
L-04127-0005-86	Diaphragm spring	John Deere - 5203 (46 HP) 5310, 55 HP

Schaeffler Automotive Aftermarket

Tractor Application



	Part Description	
L-04127-0005-86	Diaphragm spring	Punjab – 755 (50 HP) Punjab - 815 (50 HP) Punjab – 855 (50 HP) Punjab – 957 (57 HP)
L-04127-0005-86	Diaphragm spring	Same - 453 (50 HP) Same - 503 (42 HP) Same - 603 (62 HP / 60 HP)
L-04127-0005-86	Diaphragm spring	Standard (60 HP)

CLUTCH FITMENT

The following points must be observed to ensure that you obtain a satisfactory service life from the quality LuK clutch component to be fitted.

1. Ensure that you have the correct components for your vehicle.
2. Always replace ALL the clutch related bearings, e.g. flywheel pilot and the release bearings. A worn or dragging bearing will cause difficulty in gear engagement.
3. The condition of the flywheel wear face is critical.



- a. A glazed or polished appearance indicates that repeated heating and cooling of the flywheel wear face during the life of the previous clutch has created a hard "skin". This **MUST** be removed by grinding / turning.



- b. The flywheel wear face should be machined flat within 0.01mm across its diameter with no grooves or ridges etc.
- c. If the flywheel is a recessed type, then ensure that the pot depth is restored to within 0.25mm of specification.

CLUTCH FITMENT



Failure to correctly machine the flywheel wear face can result in clutch slip through insufficient surface contact.



Failure to correctly machine the flywheel can result in uneven friction material wear due to higher torque being transmitted through the pressure plate side of the clutch disc, resulting in possible friction material failure caused by excessive heat build up.

4. Inspect crankshaft seal and replace if required.



A leaking or failed crankshaft seal can cause oil to contaminate the clutch disc friction material causing slipping and premature clutch failure.

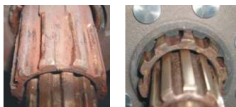
CLUTCH FITMENT

5. Check the complete release mechanism and renew worn components. Check the release bearing carrier and gearbox quill and renew if worn.



Failure to correctly lubricate the release bearing carrier bore can lead to excessive wearing of the carrier bore and gearbox quill / release bearing guide tube, which can result in release problems. This wearing can cause potential further damage to the clutch through release bearing misalignment.

6. Check that the clutch discs and fixed PTO hubs fit correctly onto splined shafts and slide freely along the length of the splines.



Excessively worn splines will cause clutch rattle, resulting in noise, vibration and wear.

CLUTCH FITMENT

7. Lightly grease gearbox splines with, LuK or Thermo cup 1200 or similar grease. Ensure splines are not excessively greased which could result in friction contamination and slipping.



Excessive greasing of the transmission input shaft splines can cause clutch slip as a result of the excess grease contaminating the friction material.



Insufficient grease can cause clutch drag as the clutch disc is unable to slide on the shaft and move away from the flywheel during disengagement.

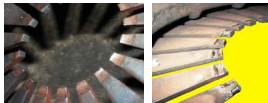
8. Ensure that the loose clutch disc is fitted the correct way around and that it does not foul the pilot bearing or any other component.



- a. Use a centering spigot to locate the loose clutch disc whilst the clutch is being attached to the flywheel.

CLUTCH FITMENT

9. Tighten the clutch bolts equally from side to opposite side, ensuring that the clutch is pulled onto the flywheel evenly. Never exceed the specified tightening torque.
10. If transit clips or bolts were supplied with the clutch, check that these have been removed.
11. The clutch release lever or diaphragm finger heights are factory set and **MUST NOT BE ALTERED**.
12. When rejoining the two halves of the tractor, ensure gearbox shafts are aligned and enter the clutch and clutch disc splined hubs correctly. Any attempt to force entry may cause irreparable damage to the clutch and discs.
13. If the release mechanism is hydraulic, replace the fluid and bleed out entrapped air thoroughly.
14. Adjust the release bearing free play to specification.



Ensure that the clutch pedal height is correct and maintained during the life of the clutch to avoid excessive preload from the release bearing against the clutch levers or diaphragm fingers.



CLUTCH FITMENT

15. Adjust the pedal stop if required.
16. Advise the driver that like any new component, the clutch must first be “run in” to ensure a long life. Avoid excessive clutch slip at all times but especially during the first fifty hours of working time after fitting. Never test a new clutch by attempting to stall the tractor.



WHAT IS CLUTCH DRAG

One function of the clutch is to interrupt the drive from the engine to the transmission to allow the operator to select and change gear smoothly. If clutch drag is present the operator will experience difficulty in selecting or changing gear with out grating or the tractor creeping forwards.

Clutch Drag Possible Cause

1. Excessive clutch pedal or hand clutch lever free play.
2. Air in Hydraulic release system.
3. Master & Slave cylinder adjustment / Fault.
4. CSC fault.
5. Insufficient clutch pedal or hand lever release travel.
6. PTO second stage setting bolts.

Remedy

1. Refer to operators manual for correct settings.
2. Air in the system will reduce the thrust bearings release travel. Bleed air from system, ensure correct fluid is used.
3. Check for external leaks, push rod adjustment, binding linkage.
4. Check for external leaks, bleed air from system, ensure correct fluid is used.
5. Check pedal and lever stop settings or linkage fouling.
6. Bolts are factory set, depending on



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| 7. Clutch cable stretched / collapsed. | flywheel condition and disc used may require additional adjustment during installation to tractor. |
| 8. Flywheel bearing seized / tight. | 7. Faulty cable will reduce the movement of the release bearing. Replace cable. |
| 9. Clutch housing centre bearing seized / tight. | 8. Always replace bearing. |
| 10. Transmission input shaft splines. | 9. Always replace bearing. |
| 11. Incorrect disc centering on assembly. | 10. Ensure splines are free off all burs, damage and rust. Lightly lubricate splines. |
| 12. Clutch release cross shaft and bushes worn. | 11. Use correct lining tool when installing clutch and disc to flywheel. |
| 13. Clutch release fork worn or loose. | 12. Excessive wear will not allow full or even clutch release travel, replace worn parts. |
| | 13. Check release fork pivots for excessive or uneven wear. |



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| 14. Clutch disc friction loose or damaged. | 14. Check that the friction riveting is secure, friction face is flat and even. |
| 15. Clutch disc friction contaminated. | 15. Oil contaminated discs must be replaced. |
| 16. Clutch disc distorted. | 16. Disc may be distorted from transport, damage during installation or severe heat input in service. Replace disc. |
| 17. Disc splined hub damaged / tight. | 17. Splines damaged during assemble or poor gearbox miss alignment. |
| 18. Pressure plate tangile straps damaged. | 18. Straps have to be straight with no gaps between leafs, any deformity will result in the pressure plate not lifting sufficient or evenly. |
| 19. Uneven clutch pressure plate lift. | 19. As a result of damaged tangial pressure plate drive straps or incorrectly set clutch levers. |
| 20. Fault with in transmission. | 20. Worn or broken syncro rings. Lubrication level. |

SERVICE - INFO

CLUTCH SLIP POSSIBLE CAUSE

- Oil contamination
- Excessive assembly lubricant
- Clutch fully worn
- Incorrect pedal adjustment, excessive bearing preload
- Clutch cable seized
- Faulty release mechanism / binding
- Overheating due to excessive loads
- **Flywheel wear face not machined / Polished surface**
- Flywheel pot depth / step incorrect
- Clutch clamping load insufficient
- Clutch pressure plate binding within clutch housing
- Incorrectly mounted clutch to flywheel
- Driver error
- Friction material worn below its wear limit





WHAT IS CLUTCH SLIP

Another function of the clutch is to transmit all the power from the engine through the clutch into the transmission with no loss. Clutch slip is when there is a differential between the speed of the engine to that going into the transmission. This is evident by engine revs increasing but wheel or PTO speed fails to increase accordingly.

Clutch Slip Possible Cause

1. Clutch disc worn out.
2. Clutch disc friction damaged.
3. Clutch disc friction contaminated.

Remedy

1. The clutch discs friction has worn below its limits and the rivets have come into contact with the pressure plate face. Clutch disc has done a full service life. Replace disc.
2. Disc friction is damaged or destroyed either through excessive heat input from slip or contamination. Replace disc.
3. Friction material is contaminated with oil or grease. Excessive spline lubrication applied during assembly of tractor.



4. Clutch clamp load reduced.

5. Incorrect release system adjustment.

6. Hydraulic release systems.

Engines crankshaft oil seal or gearbox oil seals leaking. Clean or replace.

4. The clutch assembly diaphragm spring provides the clamping force for the clutch, excessive heat input into the clutch will destroy the diaphragm spring. Change clutch.

5. Release system has no free play causing the clutch to run partially disengaged, resulting in increased heat input to the friction and clutch slip. Set correct free plays.

6. Check that the master and slave cylinder adjustments are correct, can result in excessive release bearing pre load resulting in clutch slip.



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| 7. Condition of the flywheel wear face. | 7. The flywheel wear face must be ground and any step or pot established when clutch is replaced. Worn, uneven, grooved or highly polished wear faces must be refaced. |
| 8. Release system binding or fouling. | 8. Check that the release system is free to movement and there is no foul. Lubricate all pivots and bushes. |
| 9. Tractor being used for incorrect work load. | 9. Tractor is being used for operations beyond its design capabilities. Towing too heavy a load, operating external machinery that require a greater HP [KW] rating , excessive front end loader work. |
| 10. Operator driving error. | 10. The operator can be responsible for induced clutch slip by his driving style. Do not rest foot on clutch pedal. |

SERVICE - INFO

CLUTCH ENGAGEMENT (JUDDER) POSSIBLE CAUSE

- Oil / grease contaminated linings
- loose linings
- Clutch disc torsion damper failure
- Clutch release linkage seized / binding
- Gearbox snout / support tube worn
- Clutch cable seized / binding
- CSC binding
- Clutch pressure plate binding
- Clutch settings uneven
- Damage to pressure plate tangible straps
- Flywheel wear face worn / not machined at clutch change
- Clutch disc splines binding on transmission input shaft
- Incorrectly mounted clutch to flywheel





WHAT IS CLUTCH VIBRATION

Clutch vibration also known as clutch judder is experienced during engagement of the clutch. During this situation it will be difficult to control a smooth take up of drive and precise tractor movements.

Clutch Vibration Possible Cause

1. Clutch disc has loose friction.
2. Clutch disc cushioning damaged
3. Clutch disc friction is contaminated.

Remedy

1. Friction material retaining rivets are loose, resulting from aggressive clutch engagement.
2. Some discs use cushioning segments between the riveted friction, this is to assist a smooth engagement of drive. The cushioning can be destroyed by high heat input.
3. Friction material is contaminated with oil or grease from excessive assembly grease used on splines or leaking oil seals



- 4. Discs torsion damper fault.
 - 5. Disc bent or distorted.
 - 6. Clutch lever heights not even.
 - 7. Diaphragm fingers uneven.
 - 8. Clutch pivots binding
- into tractors bell housing.
- 4. Damper springs can be damaged during installation due to poor gearbox alignment. Coil spring breakage from excessive torque loadings.
 - 5. Check that disc is flat and has no distortion. Possible damage in transit or poor assembly.
 - 6. Incorrectly set clutch levers. Flywheel wear face or clutch mounting face not flat.
 - 7. Bent or unevenly set diaphragm spring fingers, flywheel wear face or clutch mounting face not flat.
 - 8. Clutch levers and pivots, diaphragm fulcrum points rusty causing heavy operation to clutch. Build up of dust in the



- | | |
|---|---|
| 9. Flywheel wear face not even. | moving parts of the clutch. |
| 10. Binding release system linkage or cable. | 9. Reface flywheel wear face flat to within 0.1mm and re-establish any pot or location step. |
| 11. Damaged hub splines | 10. Check all linkages are free and lubricated. Replace cables. |
| 12. Wear to release bearing, bearing carrier and support snout. | 11. Care must be taken when assembling tractor that it is correctly aligned using correct special tools. Disc must be free moving on its splines. |
| 13. External influence – cab mounts | 12. A loose or worn release bearing and carrier can vibrate during operation and may bind within the fork or support snout. |
| | 13. Loose or worn cab mountings, wear in the tractor's drive line. |

SERVICE - INFO

CLUTCH NOISE POSSIBLE CAUSE

- Worn or seized release bearing
- **Incorrectly installed release bearing**
- Clutch disc incorrectly installed
- Cushioning between friction material destroyed
- Flywheel wear face not machined
- Worn or damaged disc torsion damper
- Flywheel or gearbox support bearing movement
- Excessive wear to release fork causing eccentric movement of release bearing
- Damage to disc or clutch during reassembly of tractor
- Friction material worn below its wear limit





WHAT IS CLUTCH NOISE

Noise may be a result of part failure or system wear. Noise during clutch dis engagement is normally related to the release system, noise during engagement and drive is normally a function of disc cushioning or damping.

Clutch Noise Possible Cause

1. Faulty release bearing
2. Release bearing retainer clip or spring damaged.
3. Disc idle torsion damper defective.
4. Disc secondary main torsion damper defective.

Remedy

1. Replace bearing.
2. This allows the bearing to move within its carrier.
3. First stage damper which controls engine idle damping may have loose or broken coil springs as a result of aggressive driving style. poorly tuned engine.
4. second stage damper controls and limits the noise and vibration generated by the engine entering the transmission drive



- train. Failure due to disc at end of service life, aggressive driving style, excess torque loadings, material failure.
5. Badly worn splines
 6. Disc cushioning defective.
 7. External influence.
5. With excessive spline wear the disc can chatter and vibrate.
 6. Cushioning between the friction has collapsed through high heat inputs, resulting in high pitched engagement squawk.
 7. Wear or damage with in the tractors drive line or transmission causing noise and vibrations. Loose cab mountings causing cab to contact chassis.

Schaeffler Automotive Aftermarket

Tractor Application



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Tractor Application



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